

DATA PACKAGE
SEMI-VOLATILE ORGANICS

PROJECT NAME : FORMER SCHLUMBERGER STC PTC SITE # D3868221

JACOBS ENGINEERING GROUP, INC.

412 Mt. Kemble Ave

Downtown Building

Morristown, NJ - 07960

Phone No: 9732670555

ORDER ID : Q1711

ATTENTION : John Ynfante



Laboratory Certification ID # 20012



1) SEMI-VOLATILE DATA	2
2) Signature Page	4
3) Case Narrative	5
4) Qualifier Page	7
5) Conformance/Non Conformance	8
6) QA Checklist	10
7) Chronicle	11
8) Hit Summary	12
9) QC Data Summary For SVOC-SIMGroup1	13
9.1) Deuterated Monitoring Compound Summary	14
9.2) MS/MSD Summary	15
9.3) LCS/LCSD Summary	17
9.4) Method Blank Summary	18
9.5) GS/MS Tune Summary	19
9.6) Internal Standard Area and RT Summary	21
10) Sample Data	23
10.1) MW-18B-56-040225	24
10.2) MW-17B-55-040225	38
10.3) RMW-05B-89-040225	51
10.4) EB01-040225	64
11) Calibration Data Summary	76
11.1) Initial Calibration Data	3
11.1.1) BN031025	77
11.2) Continued Calibration Data	264
11.2.1) BN036817.D	264
12) QC Sample Data	290
12.1) Tune Raw Data	291
12.2) Method Blank Data	299
12.3) LCS Data	309
12.4) MS Data	333
12.5) MSD Data	357
13) Manual Integration	381
14) Analytical Runlogs	383
15) Extraction Logs	388
15.1) PB167450.pdf	388

Table Of Contents for Q1711

15.2) PB167450IC.pdf	390
16) Standard Prep Logs	391
17) Shipping Document	467
17.1) Chain Of Custody	468
17.2) ROC	470
17.3) Lab Certificate	473
17.4) Internal COC	474

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

Cover Page

Order ID : Q1711

Project ID : Former Schlumberger STC PTC Site D3868221

Client : JACOBS Engineering Group, Inc.

Lab Sample Number

Q1711-01
Q1711-02
Q1711-03
Q1711-04
Q1711-07
Q1711-08
Q1711-10
Q1711-12
Q1711-13
Q1711-14
Q1711-15
Q1711-16

Client Sample Number

MW-18B-56-040225
MW-18B-56-040225MS
MW-18B-56-040225MSD
MW-17B-55-040225
RMW-05B-89-040225
EB01-040225
TB01-040225
MW-17B-55-040225
EB01-040225
MW-18B-56-040225
MW-18B-56-040225MS
MW-18B-56-040225MSD

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

Signature : _____

Date: 4/5/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

JACOBS Engineering Group, Inc.

Project Name: Former Schlumberger STC PTC Site # D3868221

Project # N/A

Chemtech Project # Q1711

Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:

10 Water samples were received on 04/02/2025.

3 Water samples were received on 04/03/2025.

2 Water samples were received on 04/03/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Alkalinity, Anions Group1, Dissolved ICP-Group2, Dissolved Metals Group3, Metals Group4, SVOC-SIMGroup1, TDS, VOC-TRACE-SFAM and VOCMS Group3. 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.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The MS {Q1711-02MS} with File ID: BN036834.D recoveries met the requirements for all compounds except for 1,4-Dioxane[-98%], this compound did not meet the NJDKQP criteria and in-house criteria, due to matrix interference no corrective action was taken.

The MSD {Q1711-03MSD} with File ID: BN036835.D recoveries met the acceptable requirements except for 1,4-Dioxane[-73%], this compound did not meet the NJDKQP criteria and in-house criteria, due to matrix interference no corrective action was taken.

The RPD for {Q1711-03MSD} with File ID: BN036835.D met criteria except for 1,4-Dioxane[29%], this compound did not meet the NJDKQP criteria and in-house criteria but due to difference in results of MS and MSD .

The Blank Spike met requirements for all samples .

The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .

The Continuous Calibration File ID BN036817.D met the requirements except for Fluoranthene-d10, The failure compound not associated with the client parameters list, therefore no corrective action was taken.

The Tuning criteria met requirements.

E. Additional Comments:

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

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

F. Manual Integration Comments:

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

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

Signature_____

DATA REPORTING QUALIFIERS- ORGANIC

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

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

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

CHEMTECH PROJECT NUMBER: Q1711

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 File ID BN036817.D met the requirements except for Fluoranthene-d10, The failure compound not associated with the client parameters list, therefore no corrective action was taken.			✓
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.			✓
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 MSD {Q1711-03MSD} with File ID: BN036835.D recoveries met the acceptable requirements except for 1,4-Dioxane[-73%], this compound did not meet the NJDKQP criteria and in-house criteria, due to matrix interference no corrective action was taken. The Blank Spike met requirements for all samples.			✓

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

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

ADDITIONAL COMMENTS:

The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.
 Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

 QA REVIEW

 Date

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1711

Completed

For thorough review, the report must have the following:

GENERAL:

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

✓

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

✓

Is the chain of custody signed and complete

✓

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

✓

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

✓

COVER PAGE:

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

✓

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

✓

CHAIN OF CUSTODY:

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

✓

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

✓

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

✓

Were the samples received within hold time

✓

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

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: MOHAMMAD AHMED

Date: 04/05/2025

LAB CHRONICLE

OrderID:	Q1711	OrderDate:	4/3/2025 10:00:00 AM
Client:	JACOBS Engineering Group, Inc.	Project:	Former Schlumberger STC PTC Site # D3868221
Contact:	John Ynfante	Location:	I41,L21,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1711-01	MW-18B-56-040225	Water	SVOC-SIMGroup1	8270-Modified	04/02/25	04/03/25	04/03/25	04/02/25
Q1711-04	MW-17B-55-040225	Water	SVOC-SIMGroup1	8270-Modified	04/02/25	04/03/25	04/03/25	04/02/25
Q1711-07	RMW-05B-89-040225	Water	SVOC-SIMGroup1	8270-Modified	04/02/25	04/03/25	04/03/25	04/02/25
Q1711-08	EB01-040225	Water	SVOC-SIMGroup1	8270-Modified	04/02/25	04/03/25	04/03/25	04/02/25

Hit Summary Sheet SW-846

SDG No.: Q1711
Client: JACOBS Engineering Group, Inc.

Sample ID	Client ID	Parameter	Concentration	C	MDL	RDL	Units
Client ID : MW-18B-56-040225							
Q1711-01	MW-18B-56-040225	WATER	1,4-Dioxane	4.000	0.07	0.21	ug/L
			Total Svoc :	4.00			
			Total Concentration:	4.00			
Client ID : MW-17B-55-040225							
Q1711-04	MW-17B-55-040225	WATER	1,4-Dioxane	1.800	0.07	0.2	ug/L
			Total Svoc :	1.80			
			Total Concentration:	1.80			
Client ID : RMW-05B-89-040225							
Q1711-07	RMW-05B-89-040225	WATER	1,4-Dioxane	0.200	0.07	0.2	ug/L
			Total Svoc :	0.20			
			Total Concentration:	0.20			
Client ID : EB01-040225							
Q1711-08	EB01-040225	WATER	1,4-Dioxane	0.120 J	0.07	0.21	ug/L
			Total Svoc :	0.12			
			Total Concentration:	0.12			



QC SUMMARY

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

Surrogate Summary

SW-846

SDG No.: Q1711

Client: JACOBS Engineering Group, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB167450BL	PB167450BL	2-Methylnaphthalene-d10	0.4	0.31	78		30 (20)	150 (139)
		Fluoranthene-d10	0.4	0.40	100		30 (30)	150 (150)
		Nitrobenzene-d5	0.4	0.30	74		30 (27)	130 (154)
		2-Fluorobiphenyl	0.4	0.26	64		30 (25)	130 (149)
		Terphenyl-d14	0.4	0.34	84		30 (54)	130 (175)
PB167450BS	PB167450BS	2-Methylnaphthalene-d10	0.4	0.40	101		30 (20)	150 (139)
		Fluoranthene-d10	0.4	0.37	91		30 (30)	150 (150)
		Nitrobenzene-d5	0.4	0.32	80		30 (27)	130 (154)
		2-Fluorobiphenyl	0.4	0.35	88		30 (25)	130 (149)
		Terphenyl-d14	0.4	0.34	86		30 (54)	130 (175)
Q1711-01	MW-18B-56-040225	2-Methylnaphthalene-d10	0.4	0.35	88		30 (20)	150 (139)
		Fluoranthene-d10	0.4	0.43	108		30 (30)	150 (150)
		Nitrobenzene-d5	0.4	0.35	87		30 (27)	130 (154)
		2-Fluorobiphenyl	0.4	0.40	101		30 (25)	130 (149)
		Terphenyl-d14	0.4	0.47	116		30 (54)	130 (175)
Q1711-02MS	MW-18B-56-040225MS	2-Methylnaphthalene-d10	0.4	0.34	84		30 (20)	150 (139)
		Fluoranthene-d10	0.4	0.42	106		30 (30)	150 (150)
		Nitrobenzene-d5	0.4	0.32	79		30 (27)	130 (154)
		2-Fluorobiphenyl	0.4	0.37	93		30 (25)	130 (149)
		Terphenyl-d14	0.4	0.37	92		30 (54)	130 (175)
Q1711-03MSD	MW-18B-56-040225MSD	2-Methylnaphthalene-d10	0.4	0.36	89		30 (20)	150 (139)
		Fluoranthene-d10	0.4	0.43	108		30 (30)	150 (150)
		Nitrobenzene-d5	0.4	0.32	80		30 (27)	130 (154)
		2-Fluorobiphenyl	0.4	0.37	94		30 (25)	130 (149)
		Terphenyl-d14	0.4	0.39	97		30 (54)	130 (175)
Q1711-04	MW-17B-55-040225	2-Methylnaphthalene-d10	0.4	0.33	83		30 (20)	150 (139)
		Fluoranthene-d10	0.4	0.42	105		30 (30)	150 (150)
		Nitrobenzene-d5	0.4	0.31	77		30 (27)	130 (154)
		2-Fluorobiphenyl	0.4	0.39	98		30 (25)	130 (149)
		Terphenyl-d14	0.4	0.42	104		30 (54)	130 (175)
Q1711-07	RMW-05B-89-040225	2-Methylnaphthalene-d10	0.4	0.34	86		30 (20)	150 (139)
		Fluoranthene-d10	0.4	0.44	109		30 (30)	150 (150)
		Nitrobenzene-d5	0.4	0.34	84		30 (27)	130 (154)
		2-Fluorobiphenyl	0.4	0.40	100		30 (25)	130 (149)
		Terphenyl-d14	0.4	0.38	96		30 (54)	130 (175)
Q1711-08	EB01-040225	2-Methylnaphthalene-d10	0.4	0.34	84		30 (20)	150 (139)
		Fluoranthene-d10	0.4	0.44	109		30 (30)	150 (150)
		Nitrobenzene-d5	0.4	0.32	79		30 (27)	130 (154)
		2-Fluorobiphenyl	0.4	0.37	93		30 (25)	130 (149)
		Terphenyl-d14	0.4	0.41	102		30 (54)	130 (175)

() = LABORATORY INHOUSE LIMIT

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1711

Client: JACOBS Engineering Group, Inc.

Analytical Method: SW8270-Modified

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID:	Q1711-02MS	Client Sample ID:	MW-18B-56-040225MS					DataFile:	BN036834.D		
1,4-Dioxane	0.41	4.00	3.60	ug/L	-98	*			20 (10)	160 (175)	

() = LABORATORY INHOUSE LIMIT

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1711

Client: JACOBS Engineering Group, Inc.

Analytical Method: SW8270-Modified

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID:	Q1711-03MSD	Client Sample ID:	MW-18B-56-040225MSD					DataFile:	BN036835.D		
1,4-Dioxane	0.41	4.00	3.70	ug/L	-73	*	29	*	20 (10)	160 (175)	20 (20)

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1711

Client: JACOBS Engineering Group, Inc.

Analytical Method: 8270-Modified DataFile: BN036828.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB167450BS	1,4-Dioxane	0.4	0.36	ug/L	90				20 (42)	160 (127)	

() = LABORATORY INHOUSE LIMIT

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167450BL

Lab Name: CHEMTECH

Contract: JAC005

Lab Code: CHEM Case No.: Q1711

SAS No.: Q1711 SDG NO.: Q1711

Lab File ID: BN036829.D

Lab Sample ID: PB167450BL

Instrument ID: BNA_N

Date Extracted: 04/03/2025

Matrix: (soil/water) Water

Date Analyzed: 04/03/2025

Level: (low/med) LOW

Time Analyzed: 19:02

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB167450BS	PB167450BS	BN036828.D	04/03/2025
MW-17B-55-040225	Q1711-04	BN036830.D	04/03/2025
MW-18B-56-040225	Q1711-01	BN036833.D	04/03/2025
MW-18B-56-040225MS	Q1711-02MS	BN036834.D	04/03/2025
MW-18B-56-040225MSD	Q1711-03MSD	BN036835.D	04/03/2025
RMW-05B-89-040225	Q1711-07	BN036831.D	04/03/2025
EB01-040225	Q1711-08	BN036832.D	04/03/2025

COMMENTS: _____



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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: JACO05Lab Code: CHEMSAS No.: Q1711 SDG NO.: Q1711Lab File ID: BN036556.DDFTPP Injection Date: 03/10/2025Instrument ID: BNA_NDFTPP Injection Time: 11:03

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

1-Value is % mass 69

2-Value is % mass 442

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

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



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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: JAC005Lab Code: CHEMSAS No.: Q1711 SDG NO.: Q1711Lab File ID: BN036816.DDFTPP Injection Date: 04/03/2025Instrument ID: BNA_NDFTPP Injection Time: 11:08

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	69.1
68	Less than 2.0% of mass 69	0.6 (1.1) 1
69	Mass 69 relative abundance	56.8
70	Less than 2.0% of mass 69	0.1 (0.2) 1
127	10.0 - 80.0% of mass 198	51.4
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	24.2
365	Greater than 1% of mass 198	4.3
441	Present, but less than mass 443	8.6
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	10 (19.5) 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	BN036817.D	04/03/2025	11:47
PB167450BS	PB167450BS	BN036828.D	04/03/2025	18:26
PB167450BL	PB167450BL	BN036829.D	04/03/2025	19:02
MW-17B-55-040225	Q1711-04	BN036830.D	04/03/2025	19:38
RMW-05B-89-040225	Q1711-07	BN036831.D	04/03/2025	20:14
EB01-040225	Q1711-08	BN036832.D	04/03/2025	20:51
MW-18B-56-040225	Q1711-01	BN036833.D	04/03/2025	21:27
MW-18B-56-040225MS	Q1711-02MS	BN036834.D	04/03/2025	22:03
MW-18B-56-040225MSD	Q1711-03MSD	BN036835.D	04/03/2025	22:39

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1711 SAS No.: Q1711 SDG NO.: Q1711

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 04/03/2025

Lab File ID: BN036817.D Time Analyzed: 11:47

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

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	2349	7.696	5586	10.48	3520	14.33
UPPER LIMIT	4698	8.196	11172	10.977	7040	14.834
LOWER LIMIT	1174.5	7.196	2793	9.977	1760	13.834
EPA SAMPLE NO.						
01 MW-18B-56-040225	1921	7.70	4919	10.48	2872	14.33
02 MW-18B-56-040225MS	2278	7.70	5938	10.48	3398	14.33
03 MW-18B-56-040225MSD	2362	7.70	6289	10.48	3711	14.33
04 MW-17B-55-040225	1746	7.70	4471	10.48	2426	14.33
05 RMW-05B-89-040225	1717	7.70	4308	10.48	2458	14.33
06 EB01-040225	2125	7.70	5120	10.48	3000	14.33
07 PB167450BL	1836	7.70	3906	10.50	2194	14.35
08 PB167450BS	2002	7.70	4746	10.48	2613	14.33

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.: Q1711 SAS No.: Q1711 SDG NO.: Q1711

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 04/03/2025

Lab File ID: BN036817.D Time Analyzed: 11:47

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

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	7454	17.074	6815	21.268	6111	23.514
UPPER LIMIT	14908	17.574	13630	21.768	12222	24.014
LOWER LIMIT	3727	16.574	3407.5	20.768	3055.5	23.014
EPA SAMPLE NO.						
01 MW-18B-56-040225	6163	17.07	5425	21.27	5096	23.51
02 MW-18B-56-040225MS	7219	17.07	6803	21.27	6381	23.51
03 MW-18B-56-040225MSD	7810	17.07	7230	21.27	6858	23.51
04 MW-17B-55-040225	5244	17.09	4582	21.27	4350	23.51
05 RMW-05B-89-040225	5130	17.07	5002	21.27	5306	23.51
06 EB01-040225	6320	17.09	5671	21.27	5195	23.51
07 PB167450BL	4456	17.10	3841	21.28	3492	23.52
08 PB167450BS	5480	17.09	4282	21.27	3764	23.51

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.



SAMPLE DATA

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	04/02/25
Project:	Former Schlumberger STC PTC Site # D3868221	Date Received:	04/02/25
Client Sample ID:	MW-18B-56-040225	SDG No.:	Q1711
Lab Sample ID:	Q1711-01	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
BN036833.D	1	04/03/25 13:10	04/03/25 21:27	PB167450

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
123-91-1	1,4-Dioxane	4.00		0.070	0.21	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.35		30 (20) - 150 (139)	88%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.43		30 (30) - 150 (150)	108%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.35		30 (27) - 130 (154)	87%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.40		30 (25) - 130 (149)	101%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.47		30 (54) - 130 (175)	116%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	1920	7.695			
1146-65-2	Naphthalene-d8	4920	10.477			
15067-26-2	Acenaphthene-d10	2870	14.334			
1517-22-2	Phenanthrene-d10	6160	17.074			
1719-03-5	Chrysene-d12	5430	21.268			
1520-96-3	Perylene-d12	5100	23.51			

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\BN040325\
Data File : BN036833.D
Acq On : 03 Apr 2025 21:27
Operator : RC/JU
Sample : Q1711-01
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
MW-18B-56-040225

Quant Time: Apr 04 00:57:37 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

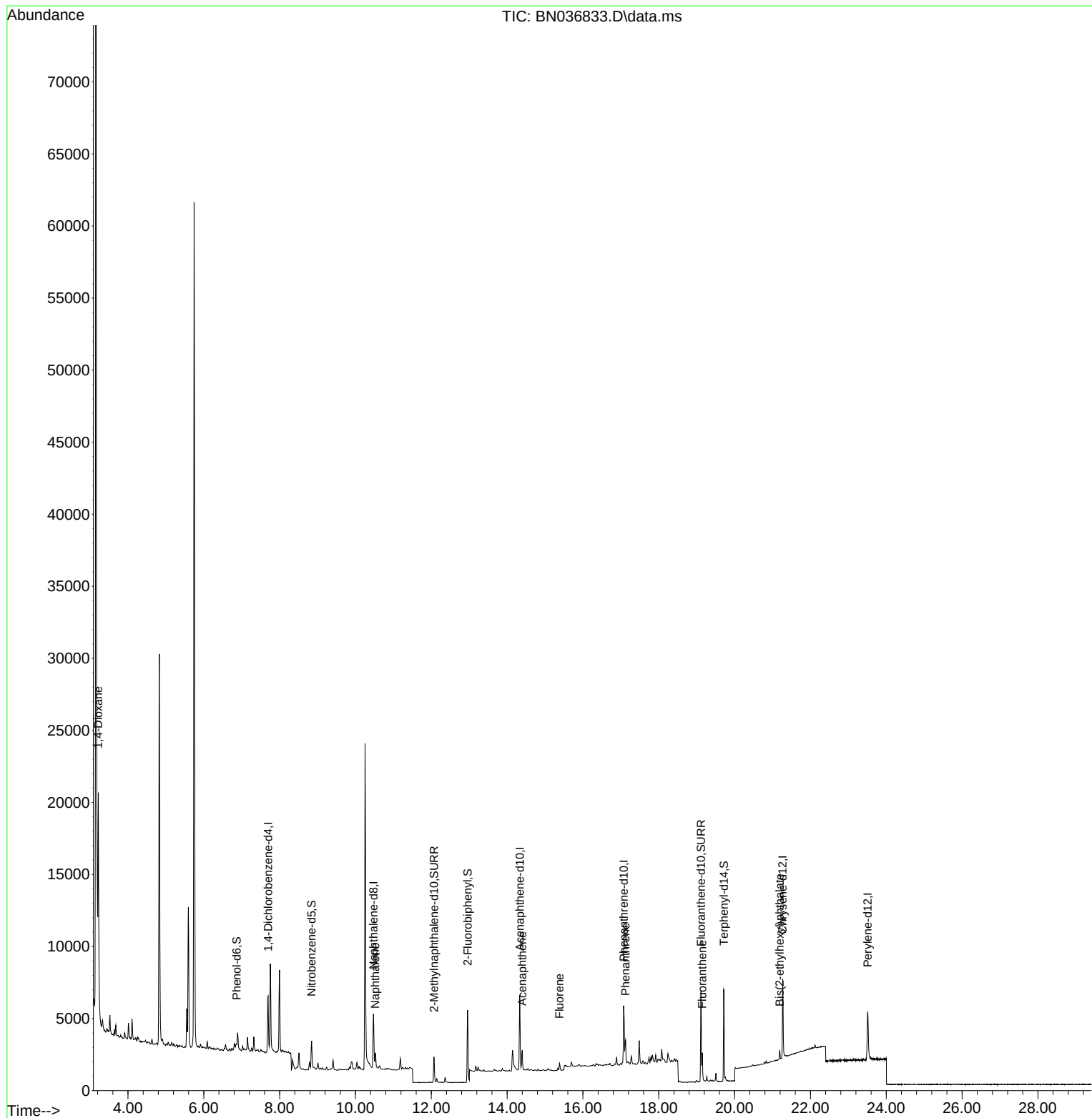
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.695	152	1921	0.400	ng	-0.03
7) Naphthalene-d8	10.477	136	4919	0.400	ng	-0.03
13) Acenaphthene-d10	14.334	164	2872	0.400	ng	-0.03
19) Phenanthrene-d10	17.074	188	6163	0.400	ng	#-0.04
29) Chrysene-d12	21.268	240	5425	0.400	ng	-0.03
35) Perylene-d12	23.510	264	5096	0.400	ng	#-0.04
System Monitoring Compounds						
4) 2-Fluorophenol	5.283	112	62	0.014	ng	-0.03
5) Phenol-d6	6.865	99	219	0.040	ng	-0.04
8) Nitrobenzene-d5	8.843	82	1856	0.347	ng	-0.03
11) 2-Methylnaphthalene-d10	12.070	152	2569	0.351	ng	-0.04
14) 2,4,6-Tribromophenol	15.833	330	22	0.017	ng	-0.02
15) 2-Fluorobiphenyl	12.958	172	6752	0.404	ng	-0.03
27) Fluoranthene-d10	19.113	212	6838	0.433	ng	-0.03
31) Terphenyl-d14	19.717	244	6059	0.466	ng	-0.03
Target Compounds						
2) 1,4-Dioxane	3.218	88	8170	3.834	ng	# 84
9) Naphthalene	10.519	128	1293	0.089	ng	# 87
17) Acenaphthene	14.398	154	686	0.077	ng	98
18) Fluorene	15.382	166	330	0.027	ng	# 97
25) Phenanthrene	17.124	178	1945	0.105	ng	99
28) Fluoranthene	19.146	202	690	0.033	ng	# 1
34) Bis(2-ethylhexyl)phtha...	21.187	149	731	0.054	ng	93

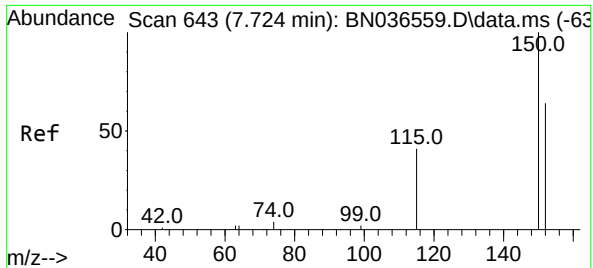
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN040325\
Data File : BN036833.D
Acq On : 03 Apr 2025 21:27
Operator : RC/JU
Sample : Q1711-01
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
MW-18B-56-040225

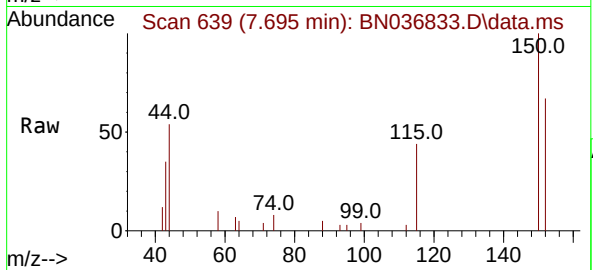
Quant Time: Apr 04 00:57:37 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



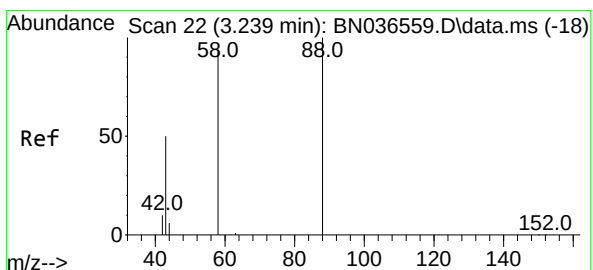
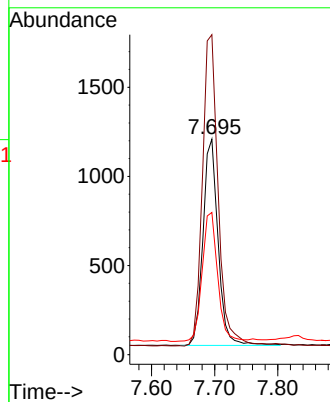
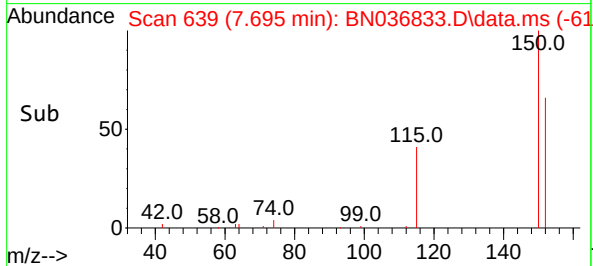


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.695 min Scan# 61
Delta R.T. -0.029 min
Lab File: BN036833.D
Acq: 03 Apr 2025 21:27

Instrument :
BNA_N
ClientSampleId :
MW-18B-56-040225

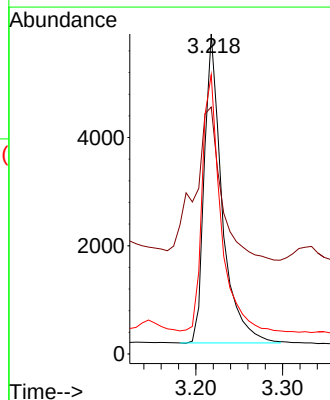
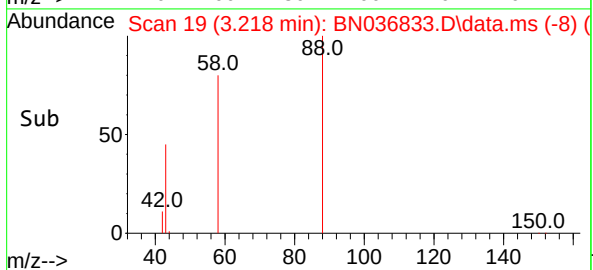
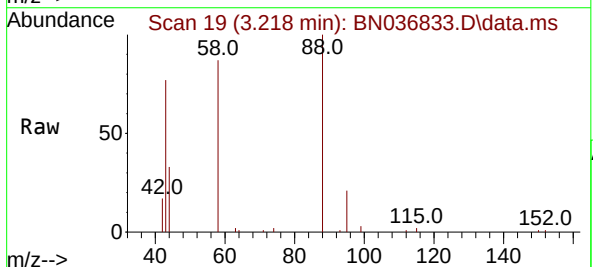


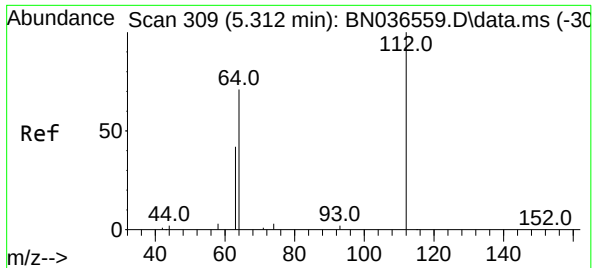
Tgt Ion:152 Resp: 1921
Ion Ratio Lower Upper
152 100
150 148.5 123.7 185.5
115 66.0 54.3 81.5



#2
1,4-Dioxane
Concen: 3.834 ng
RT: 3.218 min Scan# 19
Delta R.T. -0.021 min
Lab File: BN036833.D
Acq: 03 Apr 2025 21:27

Tgt Ion: 88 Resp: 8170
Ion Ratio Lower Upper
88 100
43 75.1 37.8 56.8#
58 85.6 67.4 101.2

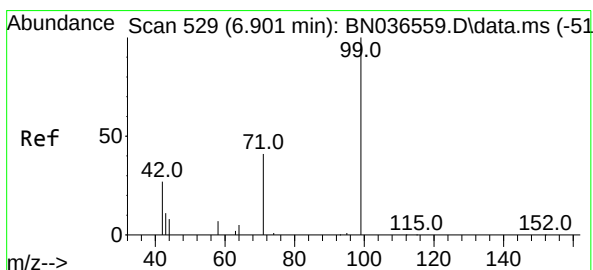
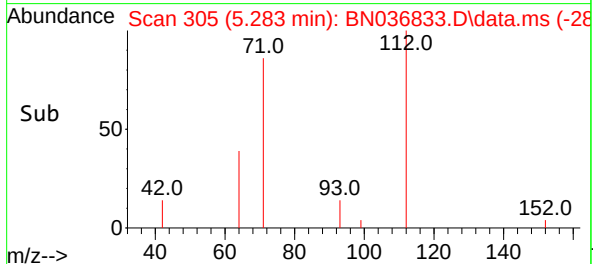
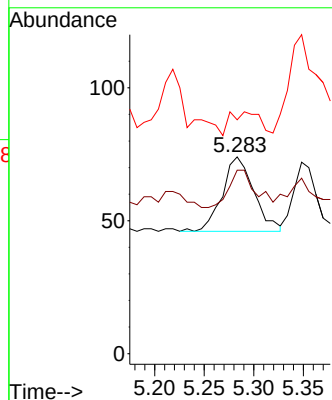
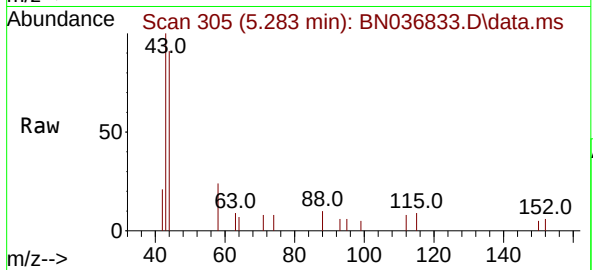




#4
2-Fluorophenol
Concen: 0.014 ng
RT: 5.283 min Scan# 309
Delta R.T. -0.029 min
Lab File: BN036833.D
Acq: 03 Apr 2025 21:27

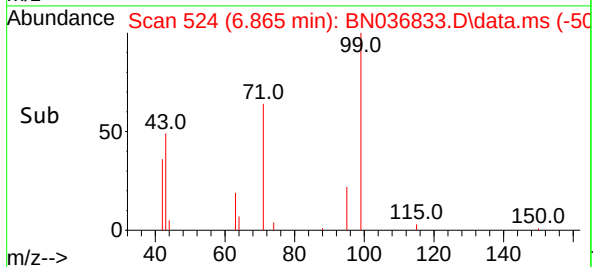
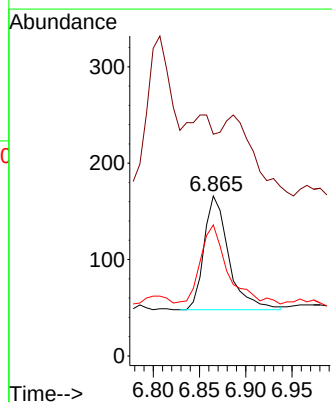
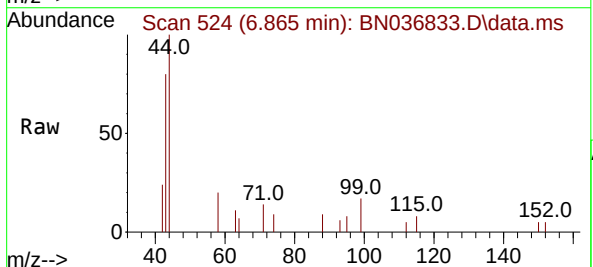
Instrument :
BNA_N
ClientSampleId :
MW-18B-56-040225

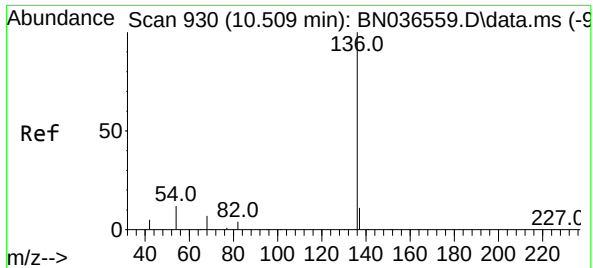
Tgt Ion:112 Resp: 62
Ion Ratio Lower Upper
112 100
64 41.9 53.1 79.7#
63 30.6 31.8 47.8#



#5
Phenol-d6
Concen: 0.040 ng
RT: 6.865 min Scan# 524
Delta R.T. -0.036 min
Lab File: BN036833.D
Acq: 03 Apr 2025 21:27

Tgt Ion: 99 Resp: 219
Ion Ratio Lower Upper
99 100
42 0.0 26.5 39.7#
71 80.8 34.1 51.1#

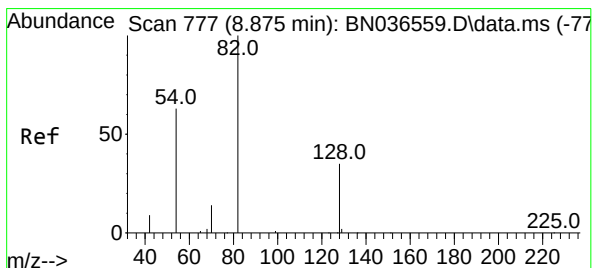
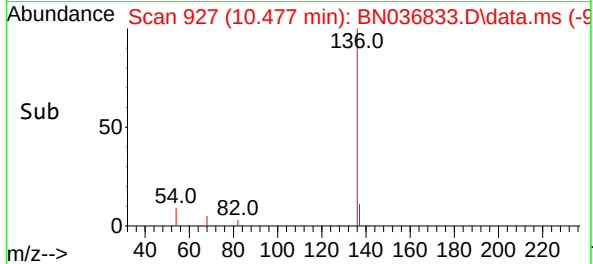
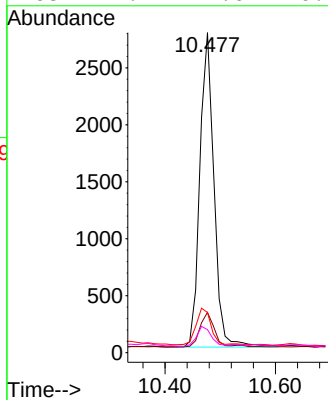
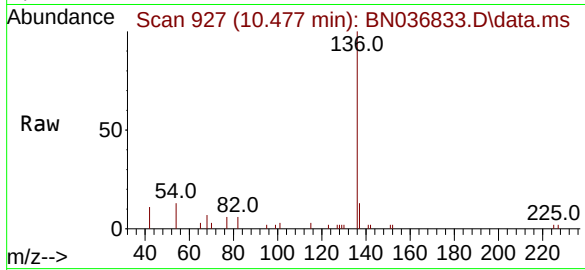




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.477 min Scan# 91
Delta R.T. -0.032 min
Lab File: BN036833.D
Acq: 03 Apr 2025 21:27

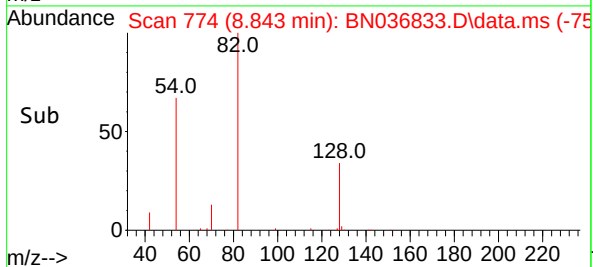
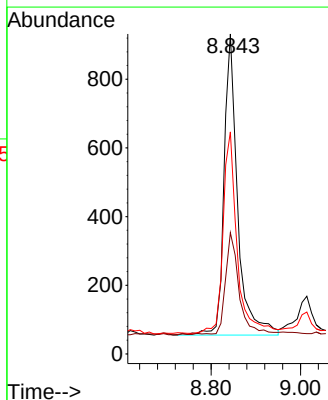
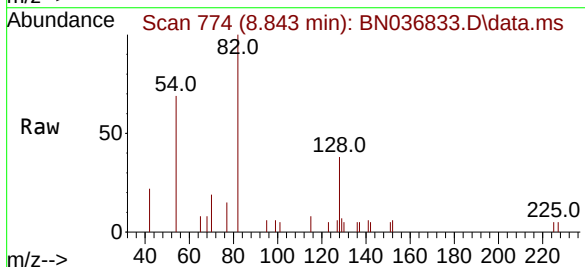
Instrument :
BNA_N
ClientSampleId :
MW-18B-56-040225

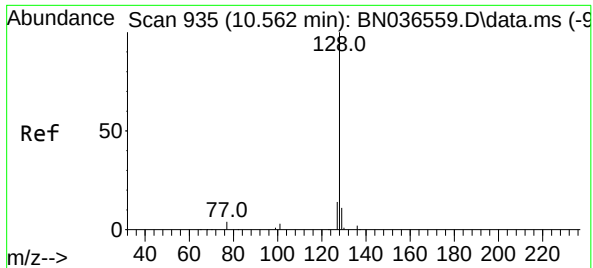
Tgt Ion:	136	Resp:	4919
Ion	Ratio	Lower	Upper
136	100		
137	12.6	10.3	15.5
54	12.6	11.5	17.3
68	7.2	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.347 ng
RT: 8.843 min Scan# 774
Delta R.T. -0.032 min
Lab File: BN036833.D
Acq: 03 Apr 2025 21:27

Tgt Ion:	82	Resp:	1856
Ion	Ratio	Lower	Upper
82	100		
128	37.9	30.6	45.8
54	69.4	52.2	78.4

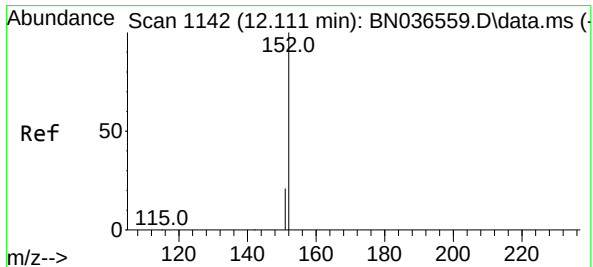
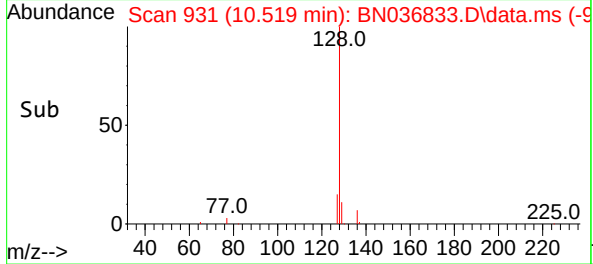
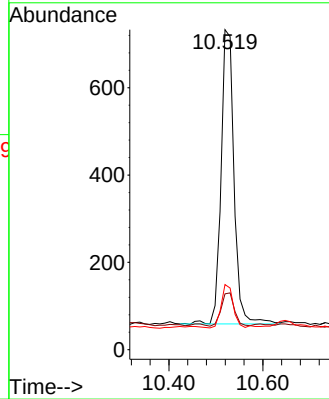
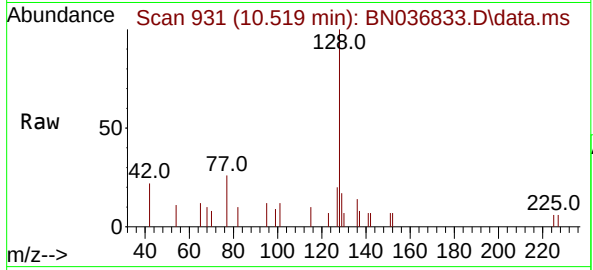




#9
Naphthalene
Concen: 0.089 ng
RT: 10.519 min Scan# 91
Delta R.T. -0.043 min
Lab File: BN036833.D
Acq: 03 Apr 2025 21:27

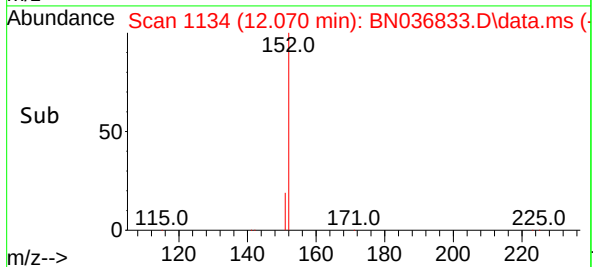
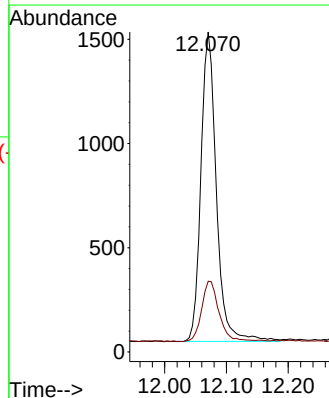
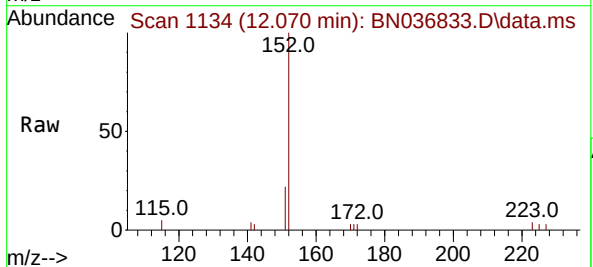
Instrument :
BNA_N
ClientSampleId :
MW-18B-56-040225

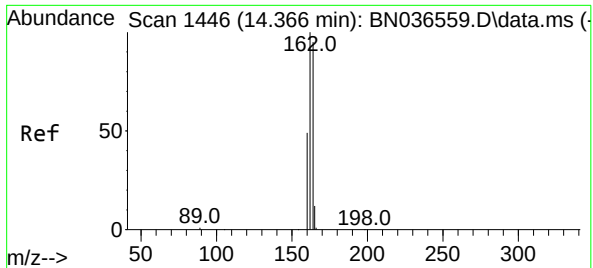
Tgt Ion:	128	Resp:	1293
Ion	Ratio	Lower	Upper
128	100		
129	17.5	9.8	14.6#
127	20.3	11.8	17.8#



#11
2-Methylnaphthalene-d10
Concen: 0.351 ng
RT: 12.070 min Scan# 1134
Delta R.T. -0.040 min
Lab File: BN036833.D
Acq: 03 Apr 2025 21:27

Tgt Ion:	152	Resp:	2569
Ion	Ratio	Lower	Upper
152	100		
151	22.0	17.0	25.6

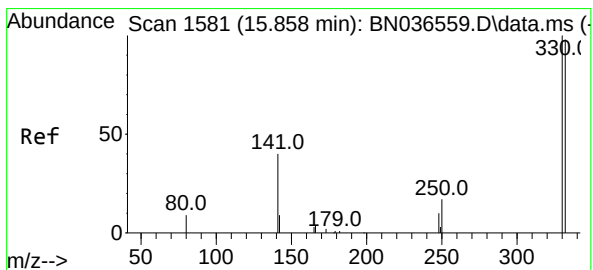
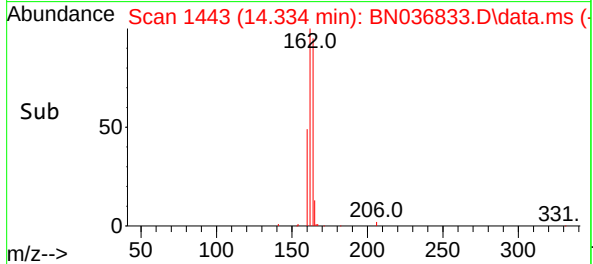
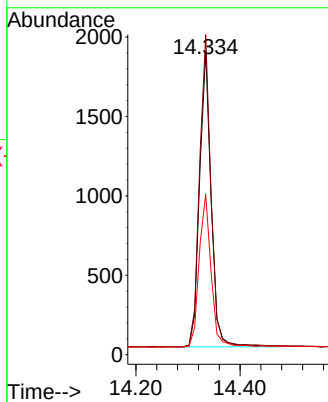
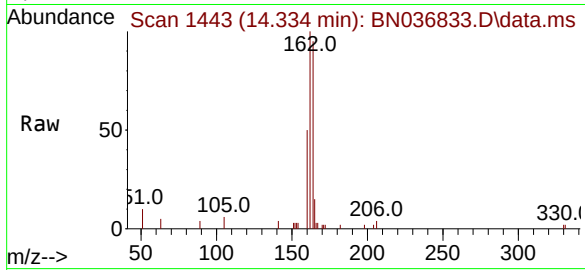




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 1443
Delta R.T. -0.032 min
Lab File: BN036833.D
Acq: 03 Apr 2025 21:27

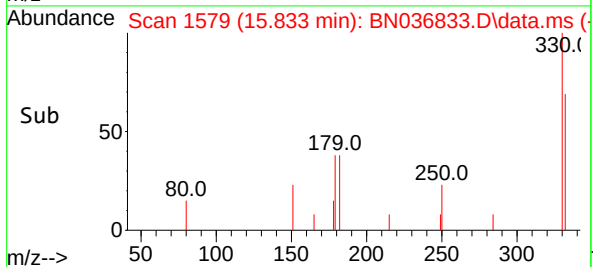
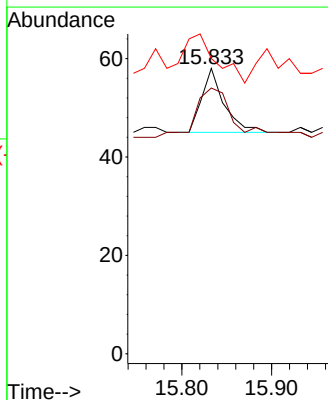
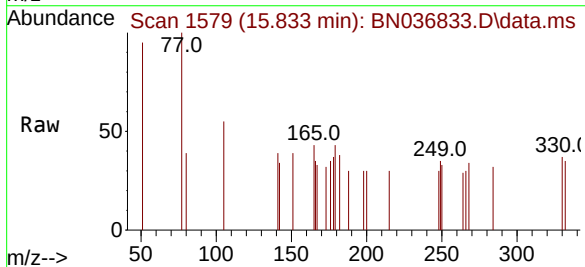
Instrument :
BNA_N
ClientSampleId :
MW-18B-56-040225

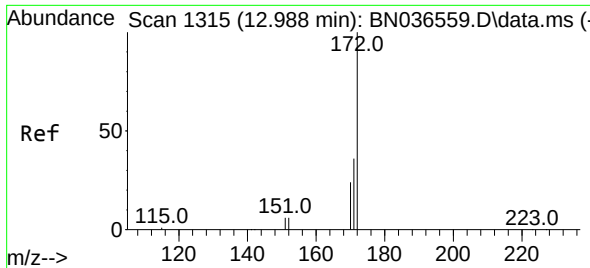
Tgt Ion:164 Resp: 2872
Ion Ratio Lower Upper
164 100
162 105.4 84.2 126.2
160 52.9 42.2 63.2



#14
2,4,6-Tribromophenol
Concen: 0.017 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036833.D
Acq: 03 Apr 2025 21:27

Tgt Ion:330 Resp: 22
Ion Ratio Lower Upper
330 100
332 136.4 75.2 112.8#
141 118.2 43.4 65.2#

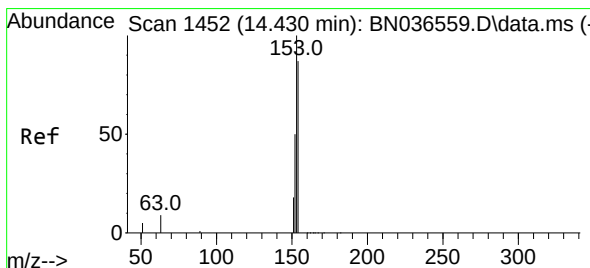
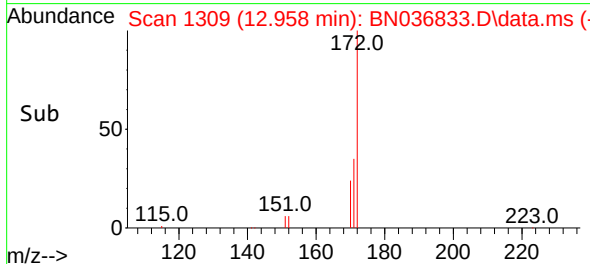
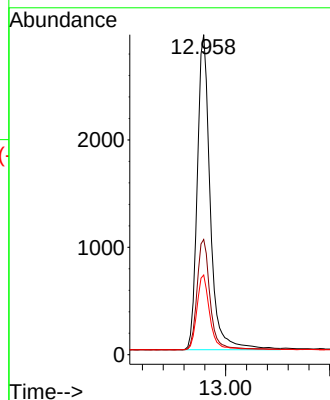
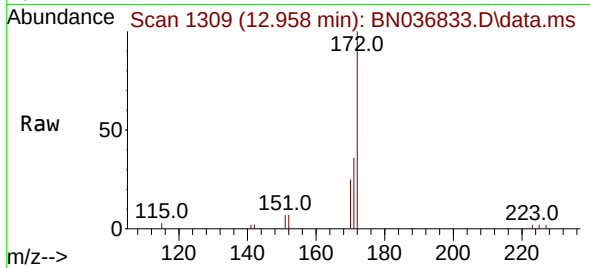




#15
2-Fluorobiphenyl
Concen: 0.404 ng
RT: 12.958 min Scan# 11
Delta R.T. -0.030 min
Lab File: BN036833.D
Acq: 03 Apr 2025 21:27

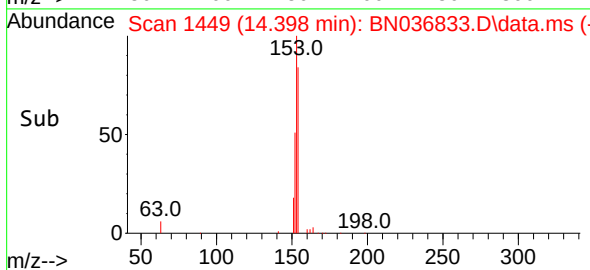
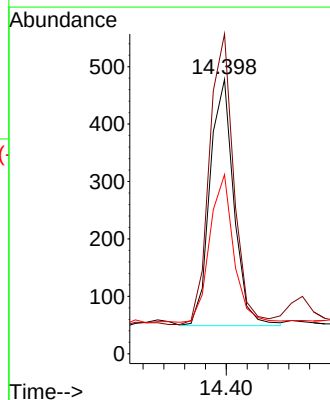
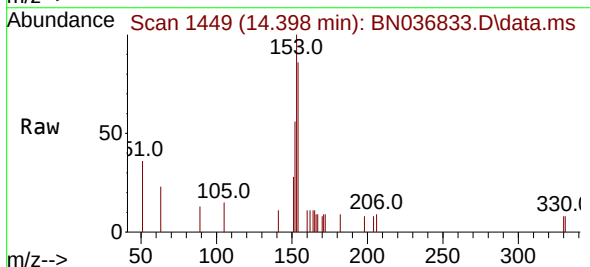
Instrument :
BNA_N
ClientSampleId :
MW-18B-56-040225

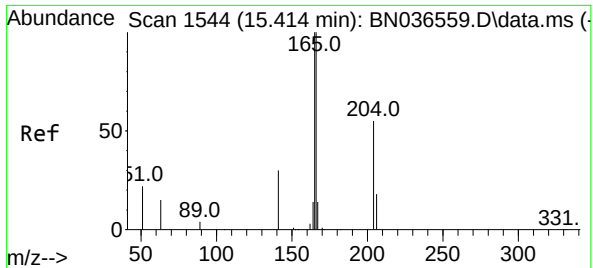
Tgt Ion:	172	Resp:	6752
Ion Ratio	Lower	Upper	
172	100		
171	36.0	29.5	44.3
170	24.9	20.2	30.4



#17
Acenaphthene
Concen: 0.077 ng
RT: 14.398 min Scan# 1449
Delta R.T. -0.032 min
Lab File: BN036833.D
Acq: 03 Apr 2025 21:27

Tgt Ion:	154	Resp:	686
Ion Ratio	Lower	Upper	
154	100		
153	119.8	94.1	141.1
152	60.9	49.8	74.6

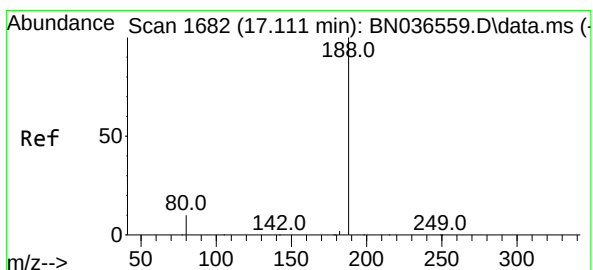
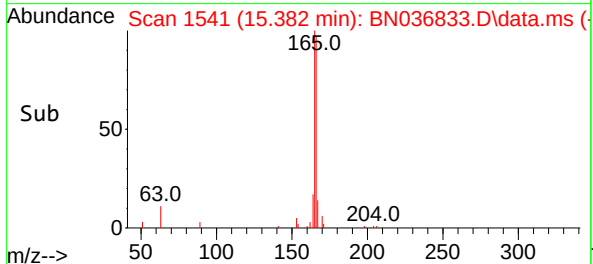
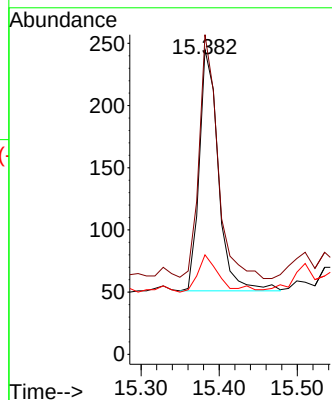
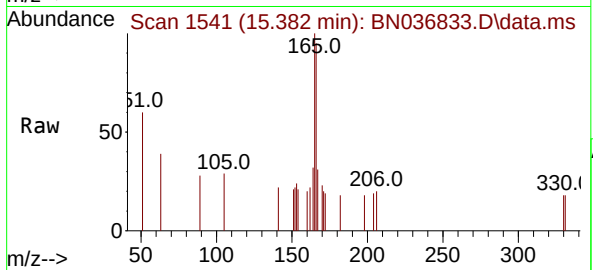




#18
Fluorene
Concen: 0.027 ng
RT: 15.382 min Scan# 1541
Delta R.T. -0.032 min
Lab File: BN036833.D
Acq: 03 Apr 2025 21:27

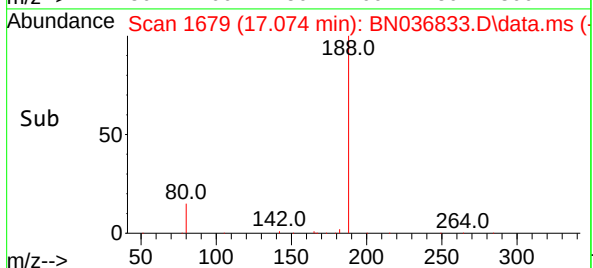
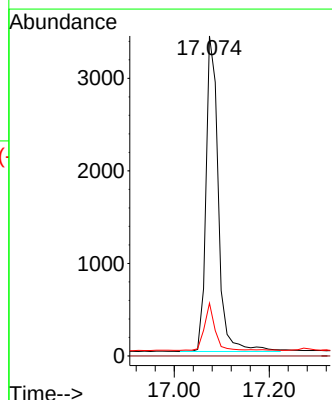
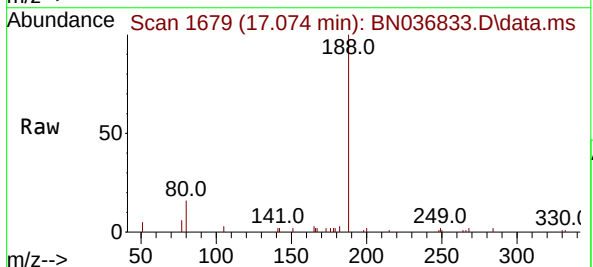
Instrument :
BNA_N
ClientSampleId :
MW-18B-56-040225

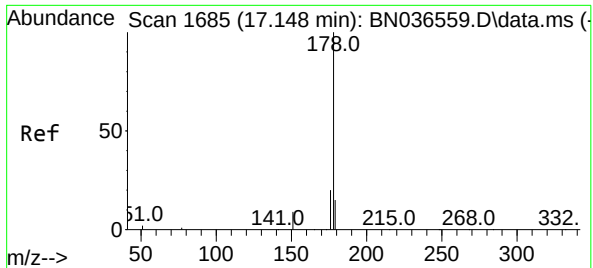
Tgt Ion:166 Resp: 330
Ion Ratio Lower Upper
166 100
165 97.9 79.8 119.8
167 16.1 10.6 15.8#



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.074 min Scan# 1679
Delta R.T. -0.037 min
Lab File: BN036833.D
Acq: 03 Apr 2025 21:27

Tgt Ion:188 Resp: 6163
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 16.5 8.8 13.2#

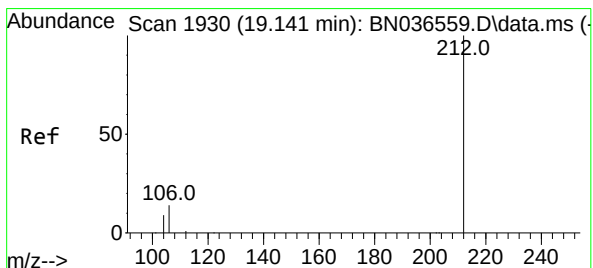
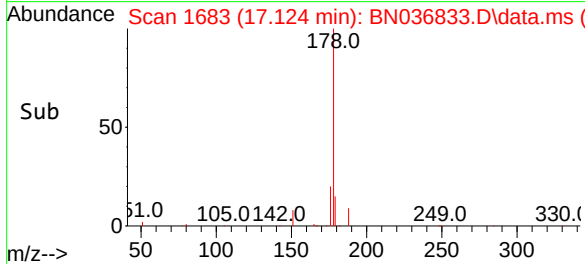
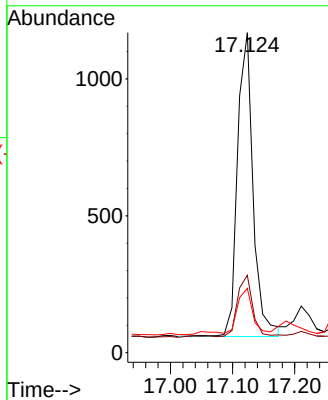
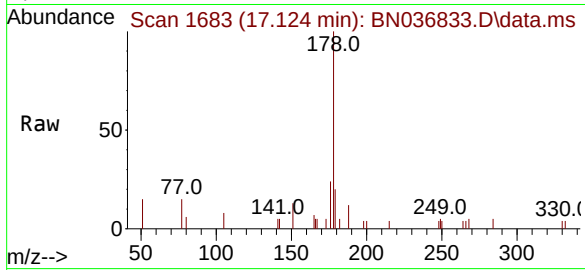




#25
Phenanthrene
Concen: 0.105 ng
RT: 17.124 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036833.D
Acq: 03 Apr 2025 21:27

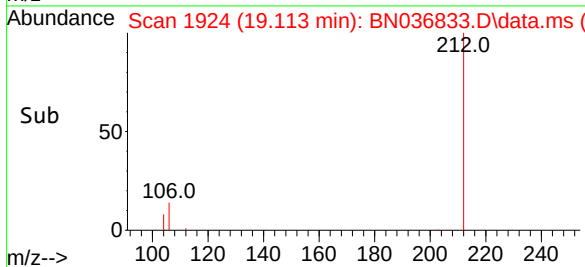
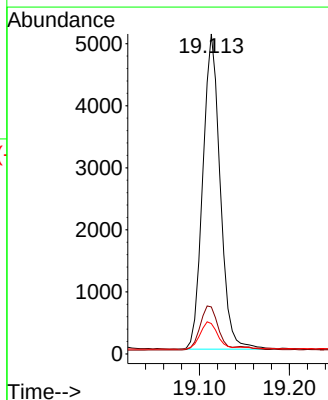
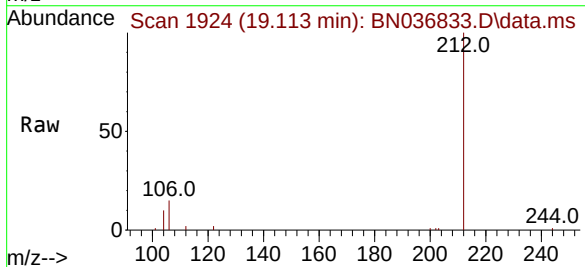
Instrument :
BNA_N
ClientSampleId :
MW-18B-56-040225

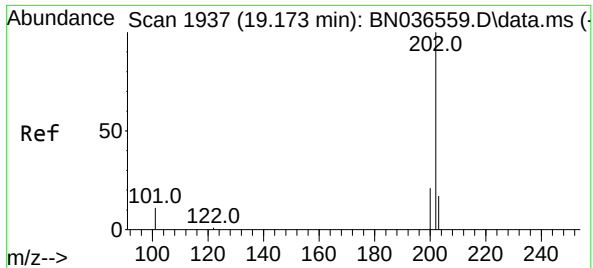
Tgt Ion	Ratio	Lower	Upper
178	100		
176	20.1	15.9	23.9
179	14.4	12.2	18.4



#27
Fluoranthene-d10
Concen: 0.433 ng
RT: 19.113 min Scan# 1924
Delta R.T. -0.028 min
Lab File: BN036833.D
Acq: 03 Apr 2025 21:27

Tgt Ion	Ratio	Lower	Upper
212	100		
106	14.3	11.8	17.6
104	8.9	7.3	10.9

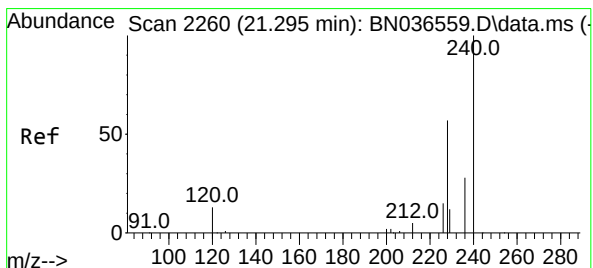
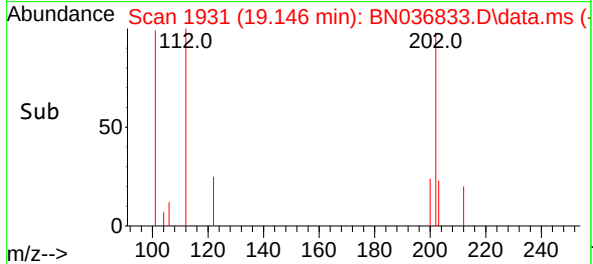
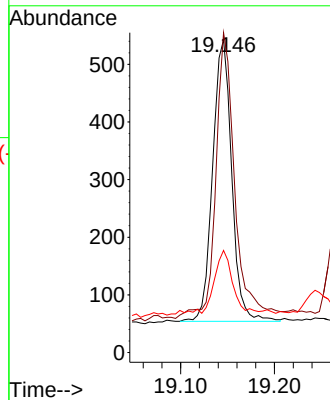
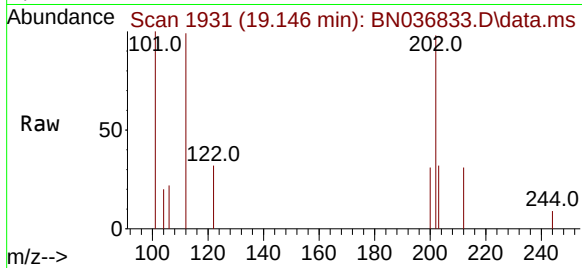




#28
Fluoranthene
Concen: 0.033 ng
RT: 19.146 min Scan# 1931
Delta R.T. -0.028 min
Lab File: BN036833.D
Acq: 03 Apr 2025 21:27

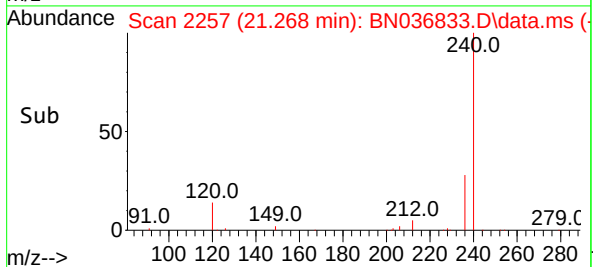
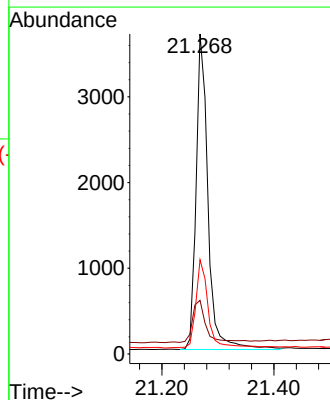
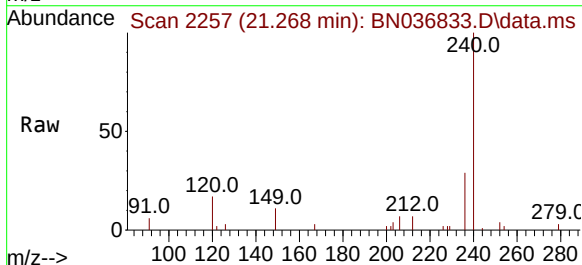
Instrument :
BNA_N
ClientSampleId :
MW-18B-56-040225

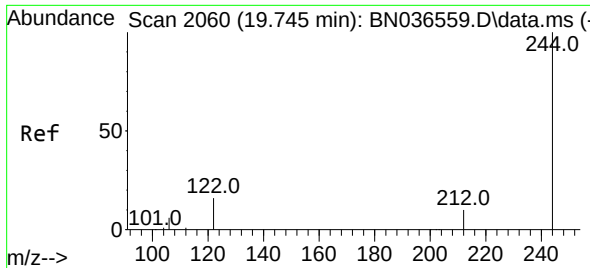
Tgt Ion:202 Resp: 690
Ion Ratio Lower Upper
202 100
101 101.6 9.4 14.0#
203 21.2 13.5 20.3#



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.268 min Scan# 2257
Delta R.T. -0.027 min
Lab File: BN036833.D
Acq: 03 Apr 2025 21:27

Tgt Ion:240 Resp: 5425
Ion Ratio Lower Upper
240 100
120 16.7 14.6 22.0
236 29.5 24.1 36.1

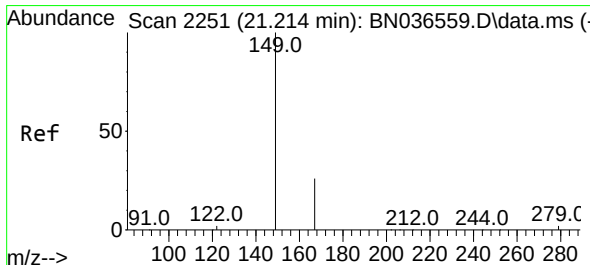
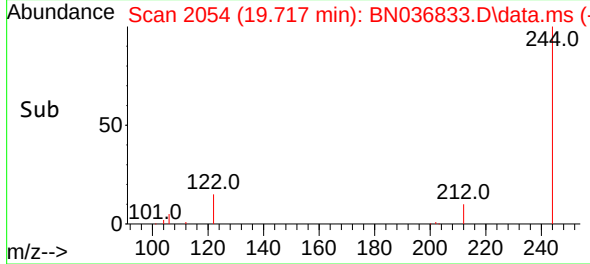
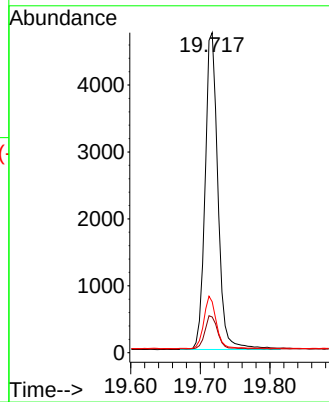
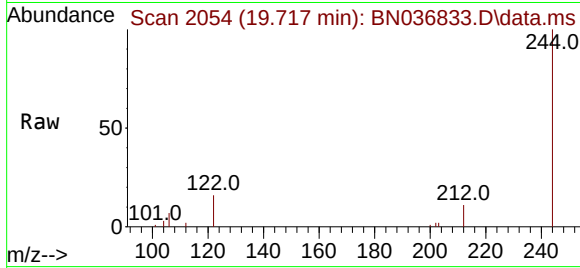




#31
Terphenyl-d14
Concen: 0.466 ng
RT: 19.717 min Scan# 2060
Delta R.T. -0.028 min
Lab File: BN036833.D
Acq: 03 Apr 2025 21:27

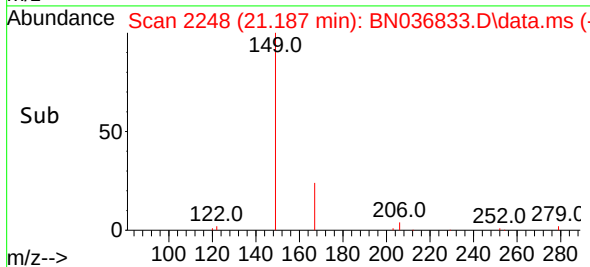
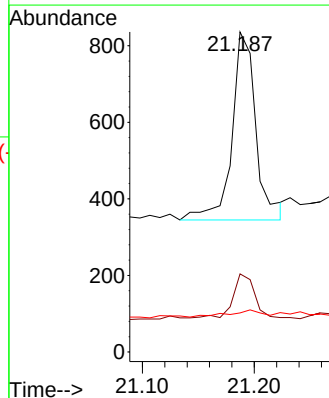
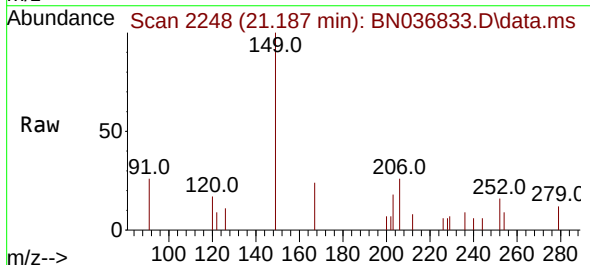
Instrument :
BNA_N
ClientSampleId :
MW-18B-56-040225

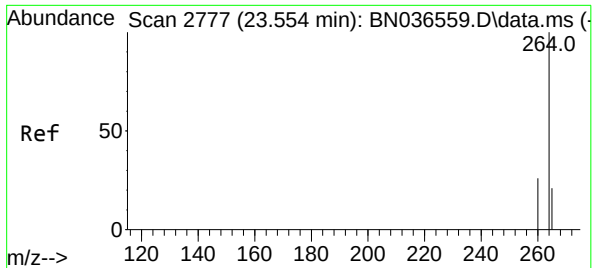
Tgt Ion:244	Resp:	6059
Ion	Ratio	Lower Upper
244	100	
212	11.2	9.6 14.4
122	15.9	13.9 20.9



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.054 ng
RT: 21.187 min Scan# 2248
Delta R.T. -0.027 min
Lab File: BN036833.D
Acq: 03 Apr 2025 21:27

Tgt Ion:149	Resp:	731
Ion	Ratio	Lower Upper
149	100	
167	22.2	20.7 31.1
279	5.3	3.6 5.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.510 min Scan# 21

Delta R.T. -0.044 min

Lab File: BN036833.D

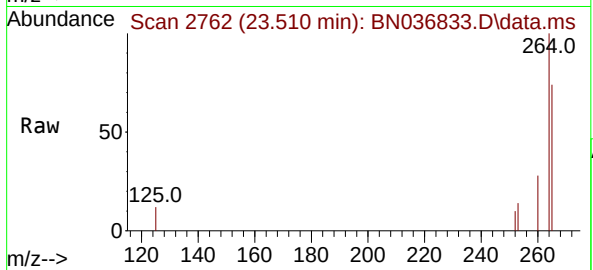
Acq: 03 Apr 2025 21:27

Instrument :

BNA_N

ClientSampleId :

MW-18B-56-040225



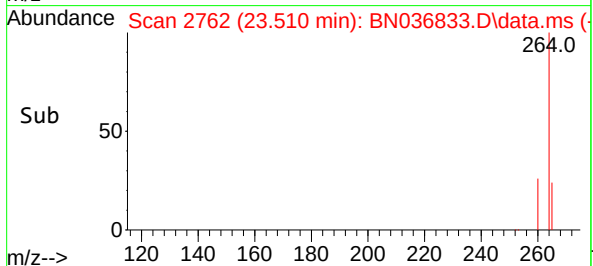
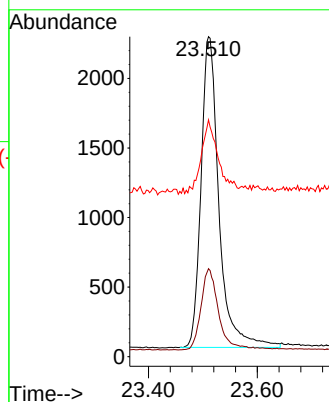
Tgt Ion:264 Resp: 5096

Ion Ratio Lower Upper

264 100

260 27.5 22.6 33.8

265 74.0 88.1 132.1#



Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	04/02/25
Project:	Former Schlumberger STC PTC Site # D3868221	Date Received:	04/02/25
Client Sample ID:	MW-17B-55-040225	SDG No.:	Q1711
Lab Sample ID:	Q1711-04	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
BN036830.D	1	04/03/25 13:10	04/03/25 19:38	PB167450

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
123-91-1	1,4-Dioxane	1.80		0.070	0.20	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.33		30 (20) - 150 (139)	83%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.42		30 (30) - 150 (150)	105%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.31		30 (27) - 130 (154)	77%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		30 (25) - 130 (149)	98%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.42		30 (54) - 130 (175)	104%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	1750	7.695			
1146-65-2	Naphthalene-d8	4470	10.477			
15067-26-2	Acenaphthene-d10	2430	14.334			
1517-22-2	Phenanthrene-d10	5240	17.086			
1719-03-5	Chrysene-d12	4580	21.268			
1520-96-3	Perylene-d12	4350	23.513			

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\BN040325\
 Data File : BN036830.D
 Acq On : 03 Apr 2025 19:38
 Operator : RC/JU
 Sample : Q1711-04
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 MW-17B-55-040225

Manual Integrations APPROVED

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

Quant Time: Apr 04 00:56:59 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 16:06:28 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.695	152	1746	0.400	ng	
7) Naphthalene-d8	10.477	136	4471	0.400	ng	-0.03
13) Acenaphthene-d10	14.334	164	2426	0.400	ng	-0.03
19) Phenanthrene-d10	17.086	188	5244	0.400	ng	-0.02
29) Chrysene-d12	21.268	240	4582	0.400	ng	-0.03
35) Perylene-d12	23.513	264	4350	0.400	ng	#-0.04
System Monitoring Compounds						
4) 2-Fluorophenol	5.290	112	635	0.156	ng	-0.02
5) Phenol-d6	6.872	99	445	0.089	ng	-0.03
8) Nitrobenzene-d5	8.843	82	1494	0.307	ng	-0.03
11) 2-Methylnaphthalene-d10	12.070	152	2212	0.333	ng	-0.04
14) 2,4,6-Tribromophenol	15.833	330	455	0.413	ng	-0.02
15) 2-Fluorobiphenyl	12.958	172	5541	0.393	ng	-0.03
27) Fluoranthene-d10	19.113	212	5667	0.422	ng	-0.03
31) Terphenyl-d14	19.717	244	4554	0.415	ng	-0.03
Target Compounds						
2) 1,4-Dioxane	3.218	88	3478	1.796	ng	# 93
9) Naphthalene	10.530	128	394	0.030	ng	# 64
25) Phenanthrene	17.124	178	1163m	0.074	ng	
28) Fluoranthene	19.146	202	793	0.045	ng	# 84
30) Pyrene	19.508	202	577	0.026	ng	# 91
34) Bis(2-ethylhexyl)phtha...	21.187	149	502	0.044	ng	98

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

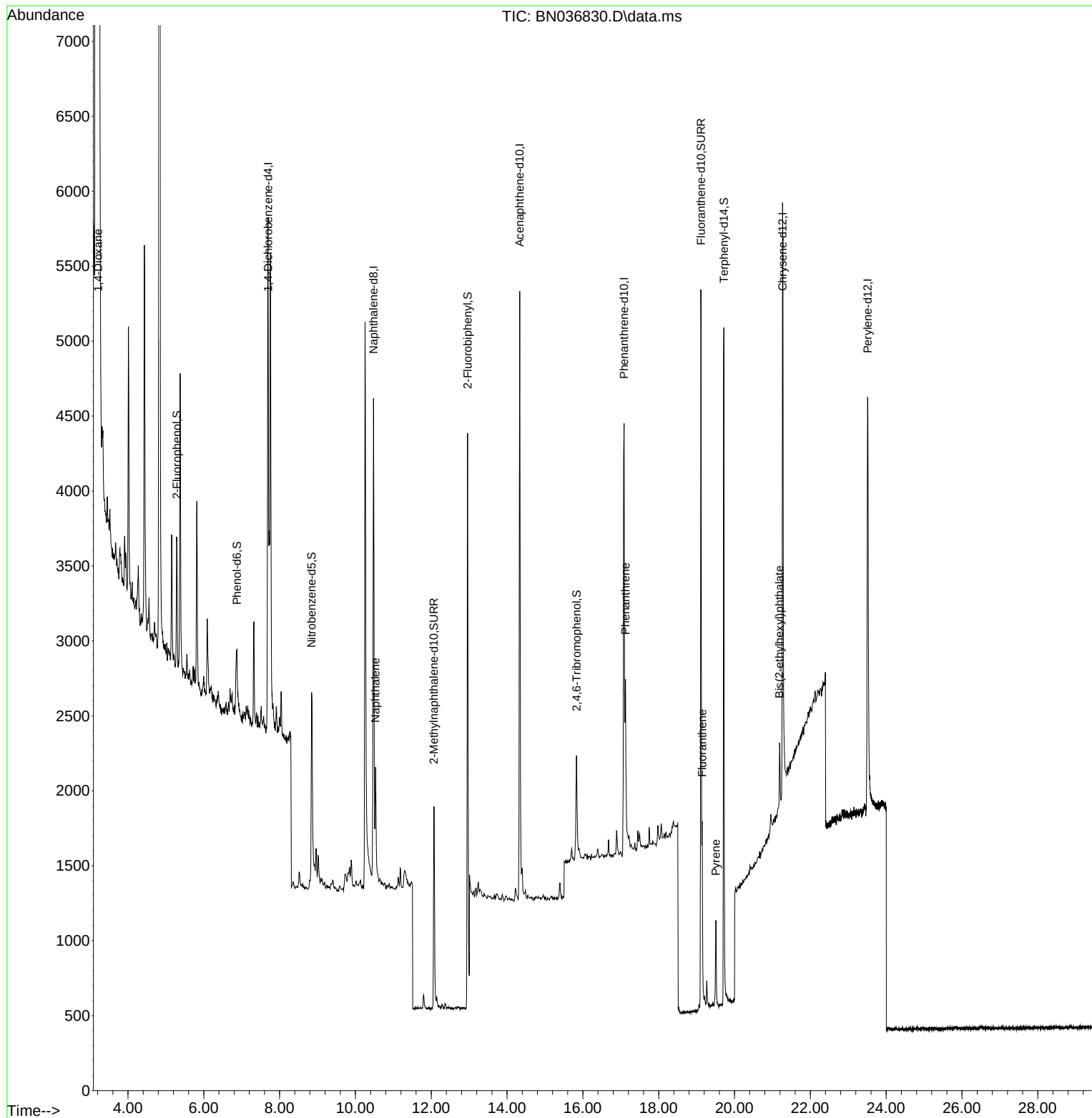
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN040325\
Data File : BN036830.D
Acq On : 03 Apr 2025 19:38
Operator : RC/JU
Sample : Q1711-04
Misc :
ALS Vial : 15 Sample Multiplier: 1

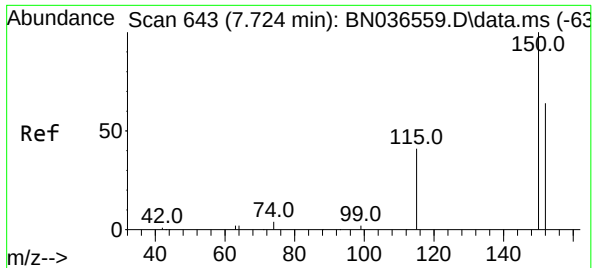
Instrument :
BNA_N
ClientSampleId :
MW-17B-55-040225

Manual Integrations
APPROVED

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

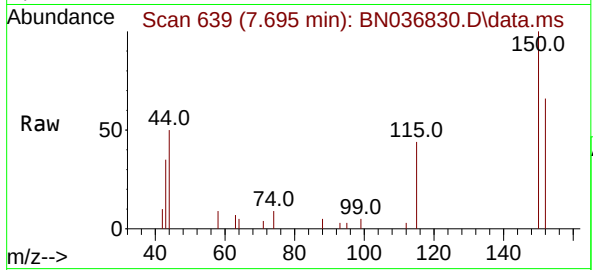
Quant Time: Apr 04 00:56:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.695 min Scan# 61
Delta R.T. -0.029 min
Lab File: BN036830.D
Acq: 03 Apr 2025 19:38

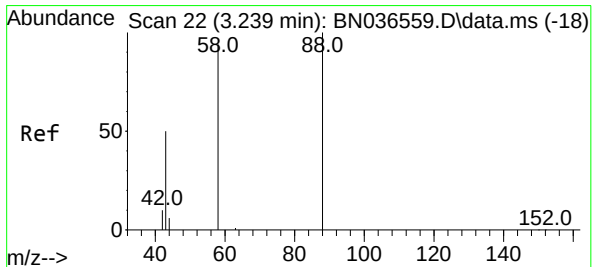
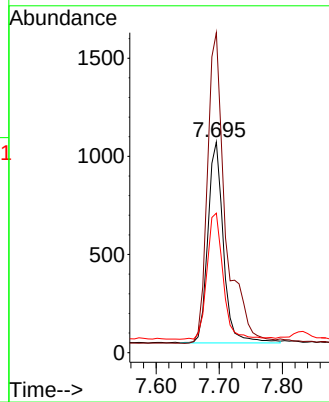
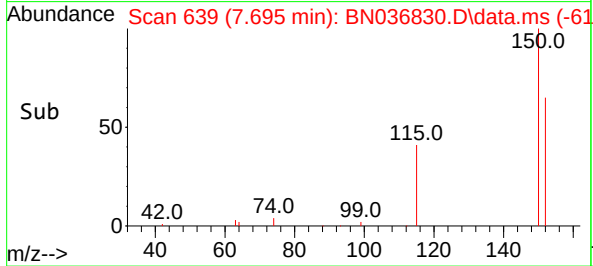
Instrument :
BNA_N
ClientSampleId :
MW-17B-55-040225



Tgt Ion: 152 Resp: 1740
Ion Ratio Lower Upper
152 100
150 151.9 123.7 185.5
115 66.3 54.3 81.5

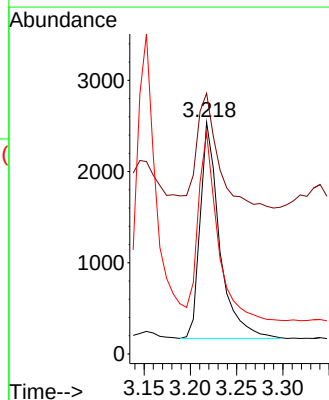
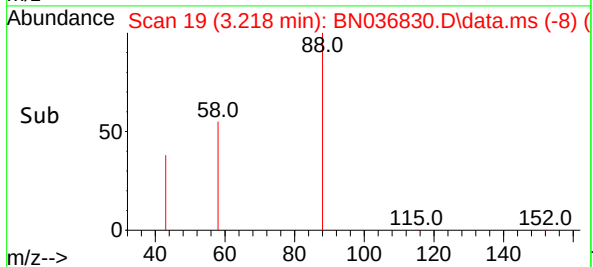
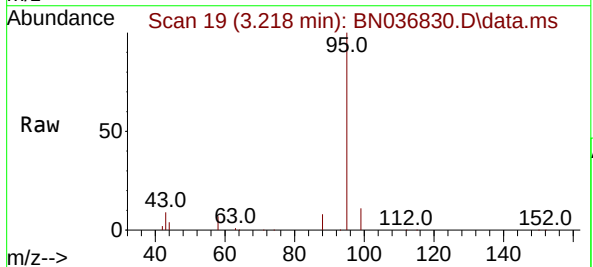
Manual Integrations
APPROVED

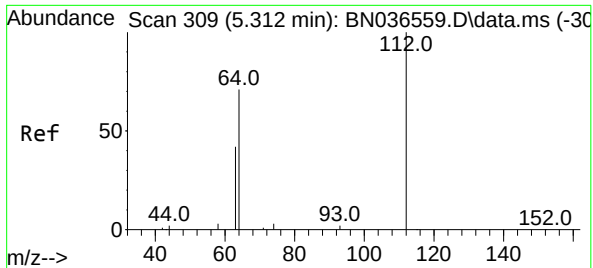
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025



#2
1,4-Dioxane
Concen: 1.796 ng
RT: 3.218 min Scan# 19
Delta R.T. -0.021 min
Lab File: BN036830.D
Acq: 03 Apr 2025 19:38

Tgt Ion: 88 Resp: 3478
Ion Ratio Lower Upper
88 100
43 58.3 37.8 56.8#
58 86.3 67.4 101.2





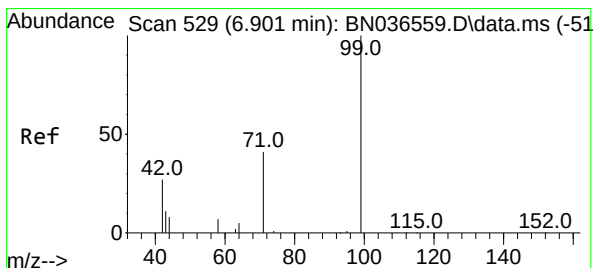
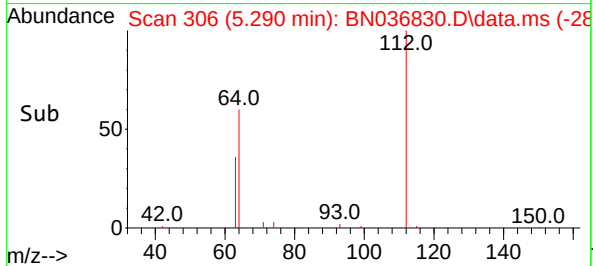
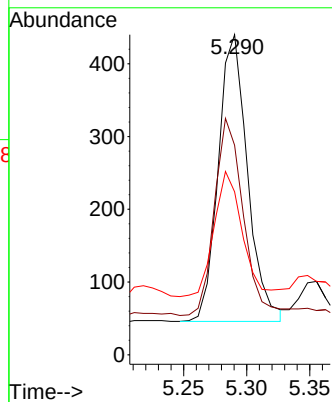
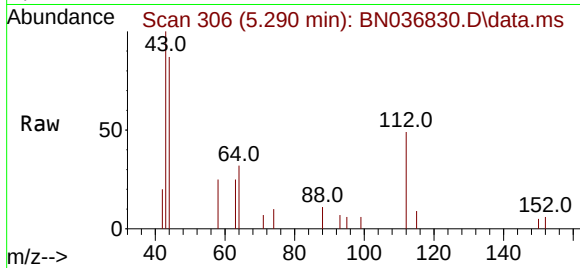
#4
2-Fluorophenol
Concen: 0.156 ng
RT: 5.290 min Scan# 309
Delta R.T. -0.022 min
Lab File: BN036830.D
Acq: 03 Apr 2025 19:38

Instrument :
BNA_N
ClientSampleId :
MW-17B-55-040225

Tgt Ion: 112 Resp: 639
Ion Ratio Lower Upper
112 100
64 71.5 53.1 79.7
63 42.0 31.8 47.8

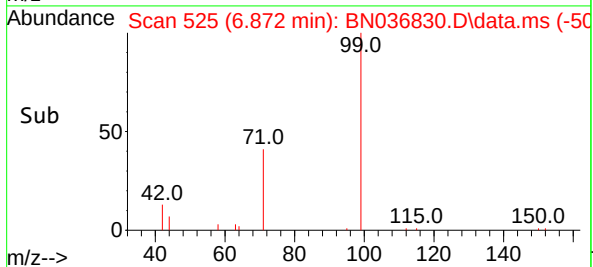
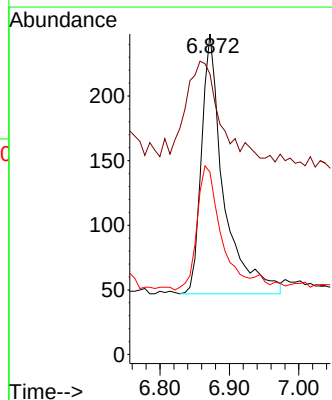
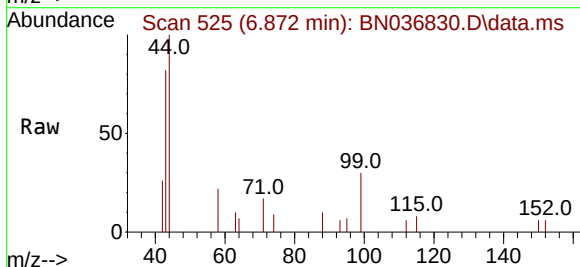
Manual Integrations
APPROVED

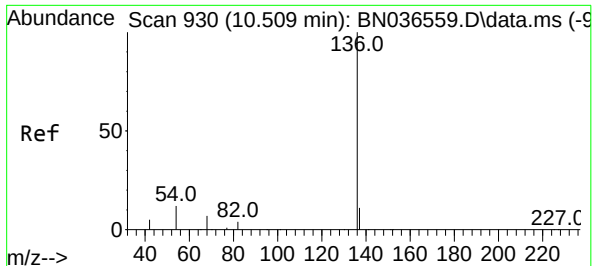
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025



#5
Phenol-d6
Concen: 0.089 ng
RT: 6.872 min Scan# 525
Delta R.T. -0.029 min
Lab File: BN036830.D
Acq: 03 Apr 2025 19:38

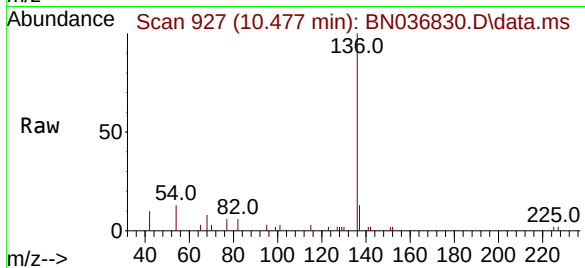
Tgt Ion: 99 Resp: 445
Ion Ratio Lower Upper
99 100
42 56.0 26.5 39.7#
71 51.2 34.1 51.1#





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.477 min Scan# 91
Delta R.T. -0.032 min
Lab File: BN036830.D
Acq: 03 Apr 2025 19:38

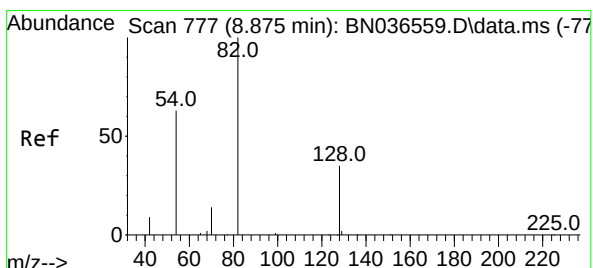
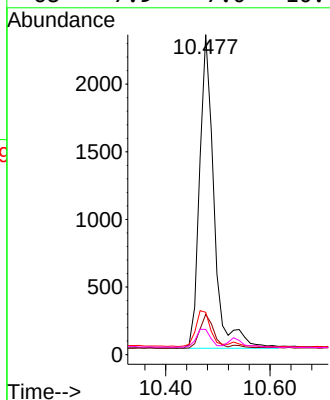
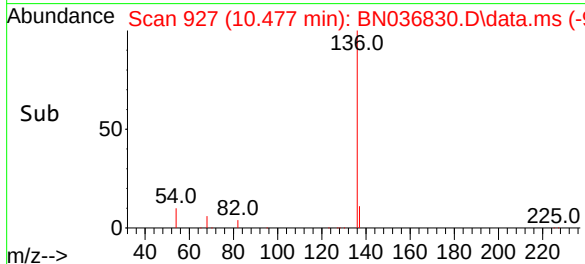
Instrument :
BNA_N
ClientSampleId :
MW-17B-55-040225



Tgt Ion:136 Resp: 447
Ion Ratio Lower Upper
136 100
137 12.6 10.3 15.5
54 13.2 11.5 17.3
68 7.9 7.0 10.4

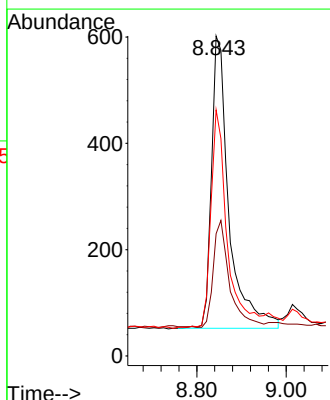
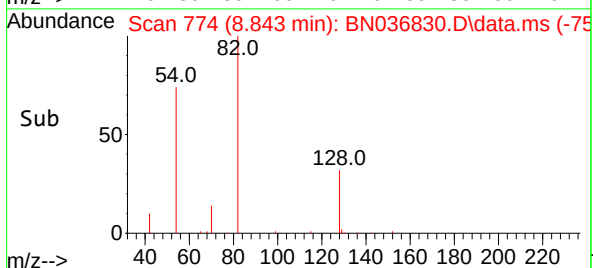
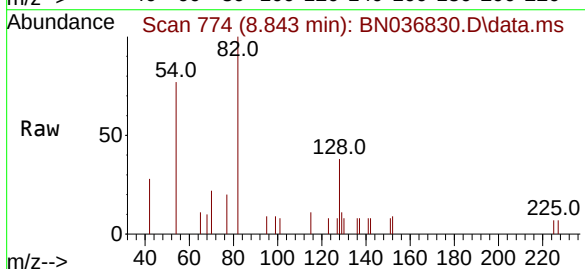
Manual Integrations
APPROVED

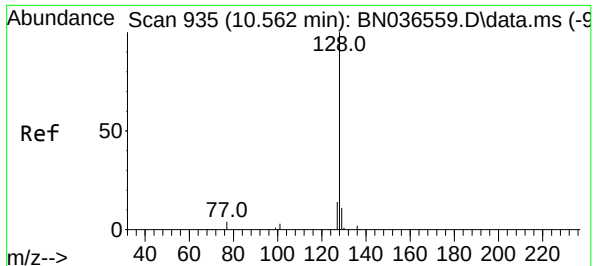
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025



#8
Nitrobenzene-d5
Concen: 0.307 ng
RT: 8.843 min Scan# 774
Delta R.T. -0.032 min
Lab File: BN036830.D
Acq: 03 Apr 2025 19:38

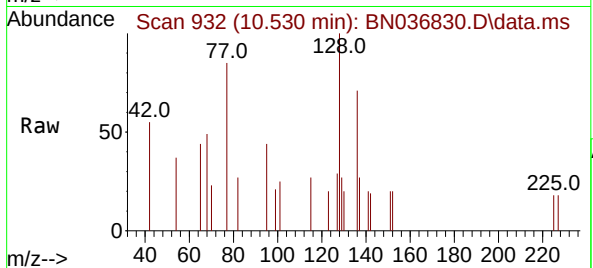
Tgt Ion: 82 Resp: 1494
Ion Ratio Lower Upper
82 100
128 38.2 30.6 45.8
54 76.9 52.2 78.4





#9
Naphthalene
Concen: 0.030 ng
RT: 10.530 min Scan# 91
Delta R.T. -0.032 min
Lab File: BN036830.D
Acq: 03 Apr 2025 19:38

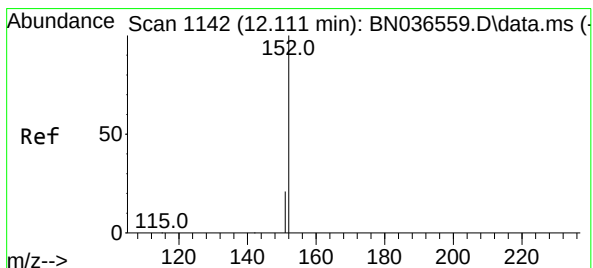
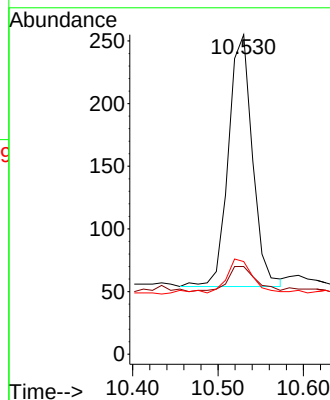
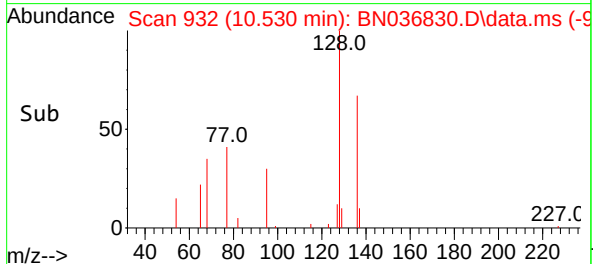
Instrument :
BNA_N
ClientSampleId :
MW-17B-55-040225



Tgt Ion:128 Resp: 394
Ion Ratio Lower Upper
128 100
129 27.5 9.8 14.6
127 29.0 11.8 17.8

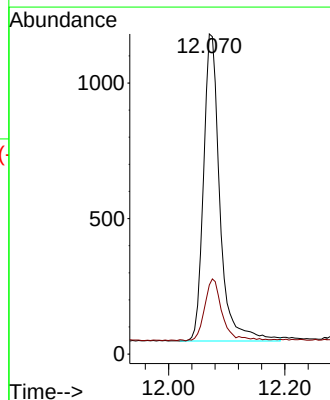
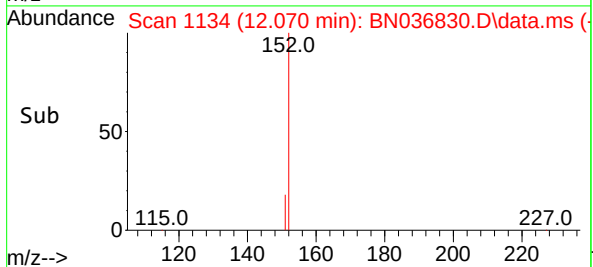
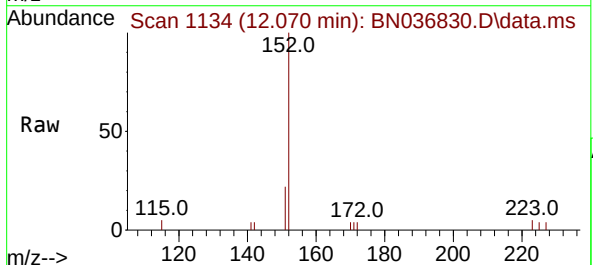
Manual Integrations
APPROVED

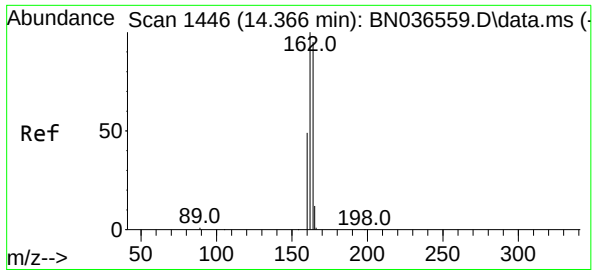
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025



#11
2-Methylnaphthalene-d10
Concen: 0.333 ng
RT: 12.070 min Scan# 1134
Delta R.T. -0.041 min
Lab File: BN036830.D
Acq: 03 Apr 2025 19:38

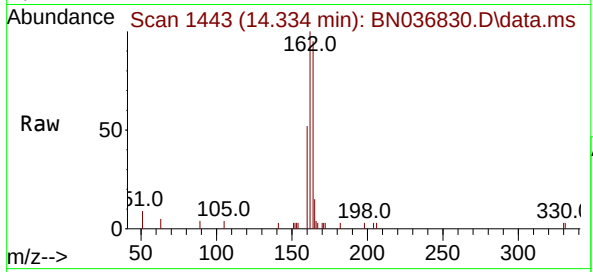
Tgt Ion:152 Resp: 2212
Ion Ratio Lower Upper
152 100
151 21.7 17.0 25.6





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 1443
Delta R.T. -0.032 min
Lab File: BN036830.D
Acq: 03 Apr 2025 19:38

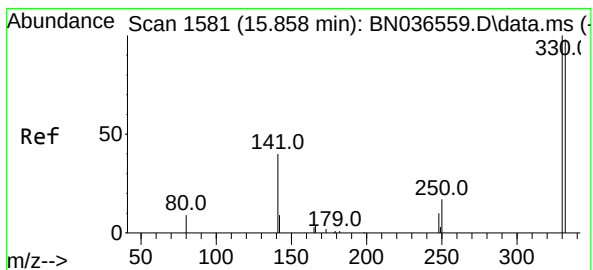
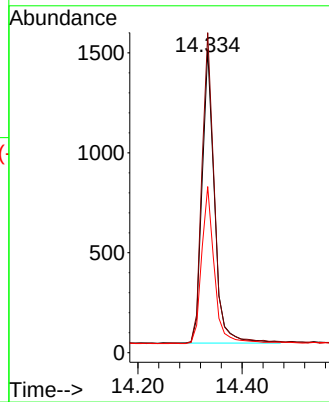
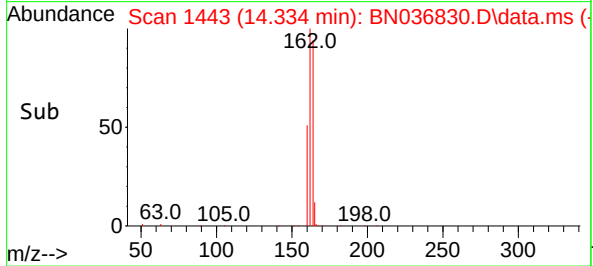
Instrument :
BNA_N
ClientSampleId :
MW-17B-55-040225



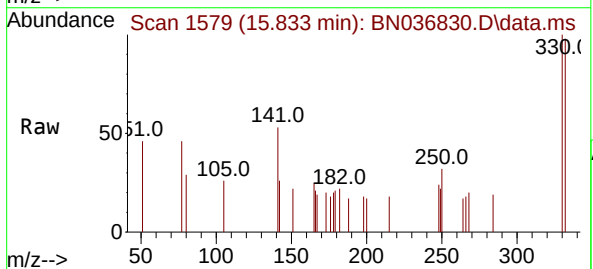
Tgt Ion:164 Resp: 2420
Ion Ratio Lower Upper
164 100
162 105.7 84.2 126.2
160 54.9 42.2 63.2

Manual Integrations
APPROVED

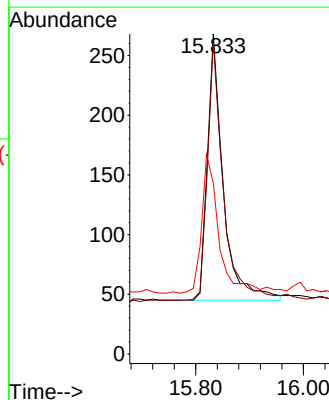
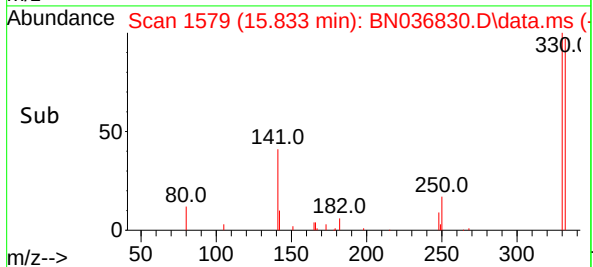
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

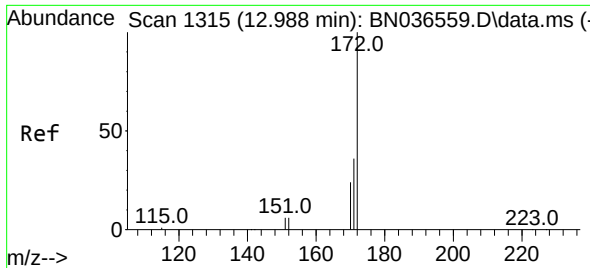


#14
2,4,6-Tribromophenol
Concen: 0.413 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036830.D
Acq: 03 Apr 2025 19:38



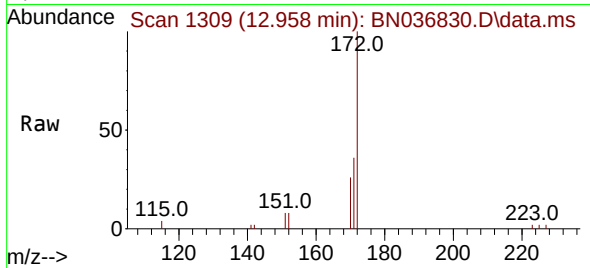
Tgt Ion:330 Resp: 455
Ion Ratio Lower Upper
330 100
332 96.7 75.2 112.8
141 57.6 43.4 65.2





#15
2-Fluorobiphenyl
Concen: 0.393 ng
RT: 12.958 min Scan# 1315
Delta R.T. -0.030 min
Lab File: BN036830.D
Acq: 03 Apr 2025 19:38

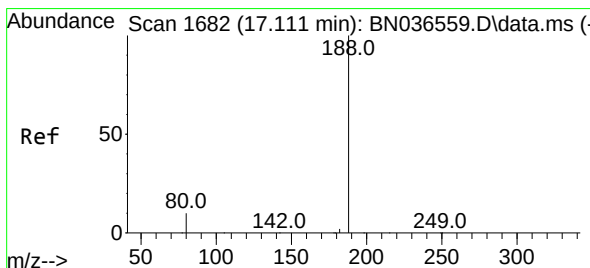
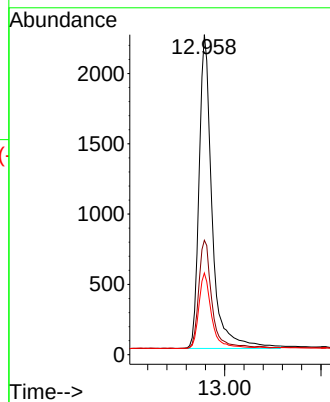
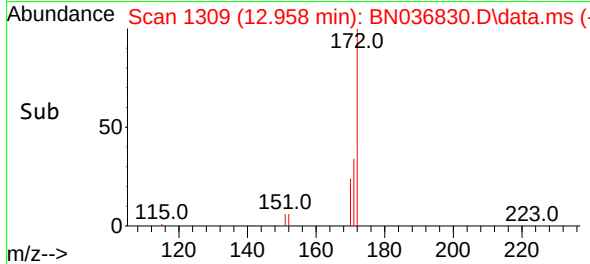
Instrument :
BNA_N
ClientSampleId :
MW-17B-55-040225



Tgt Ion:172 Resp: 554
Ion Ratio Lower Upper
172 100
171 35.8 29.5 44.3
170 25.5 20.2 30.4

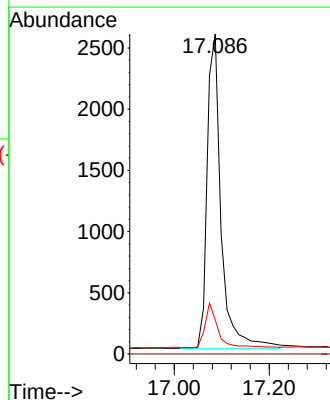
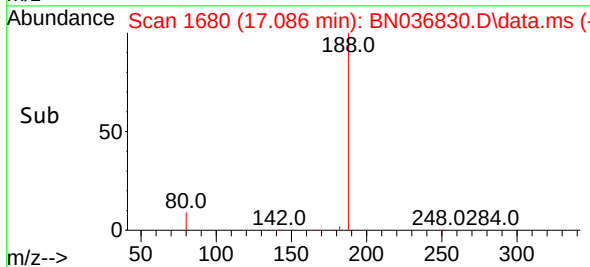
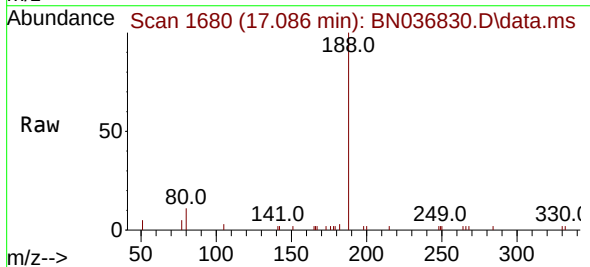
Manual Integrations
APPROVED

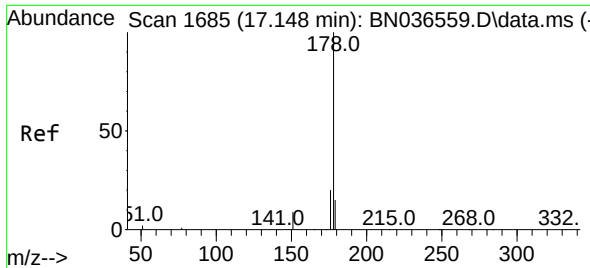
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1680
Delta R.T. -0.025 min
Lab File: BN036830.D
Acq: 03 Apr 2025 19:38

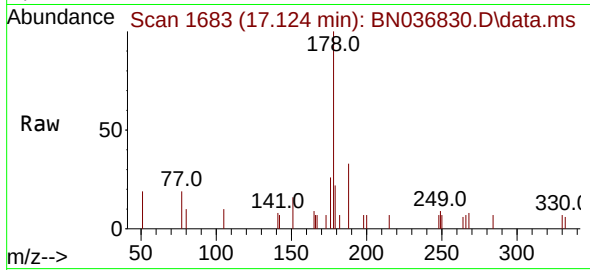
Tgt Ion:188 Resp: 5244
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 10.6 8.8 13.2





#25
Phenanthrene
Concen: 0.074 ng m
RT: 17.124 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036830.D
Acq: 03 Apr 2025 19:38

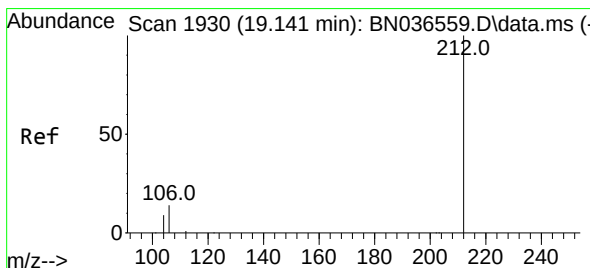
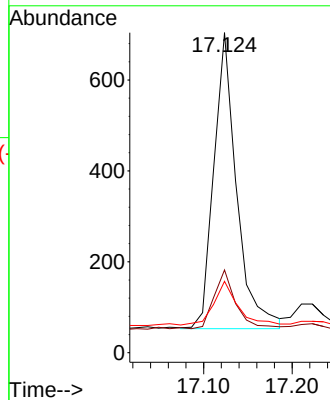
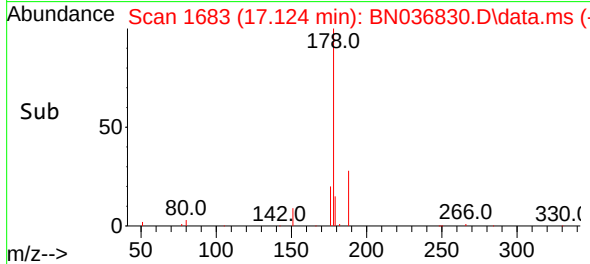
Instrument :
BNA_N
ClientSampleId :
MW-17B-55-040225



Tgt Ion:178 Resp: 116
Ion Ratio Lower Upper
178 100
176 1.7 15.9 23.9
179 1.1 12.2 18.4

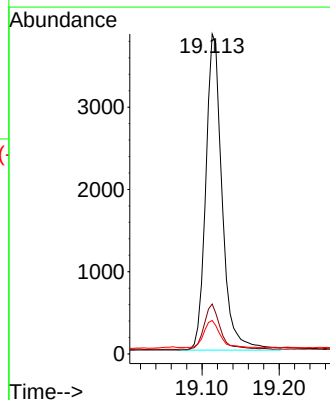
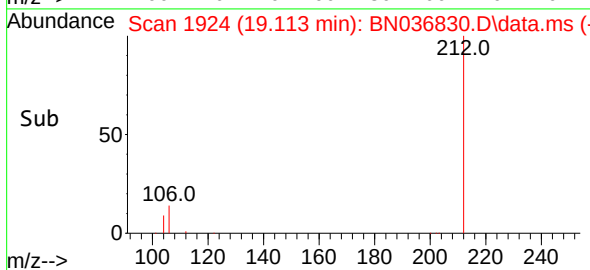
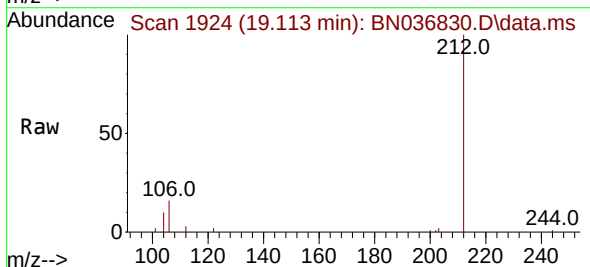
Manual Integrations
APPROVED

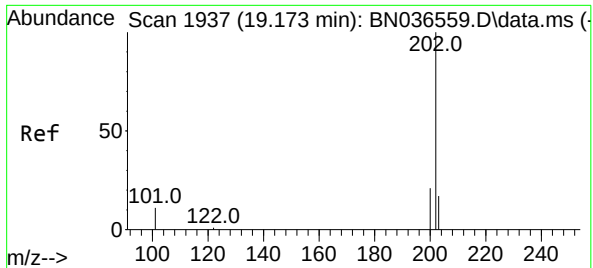
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025



#27
Fluoranthene-d10
Concen: 0.422 ng
RT: 19.113 min Scan# 1924
Delta R.T. -0.028 min
Lab File: BN036830.D
Acq: 03 Apr 2025 19:38

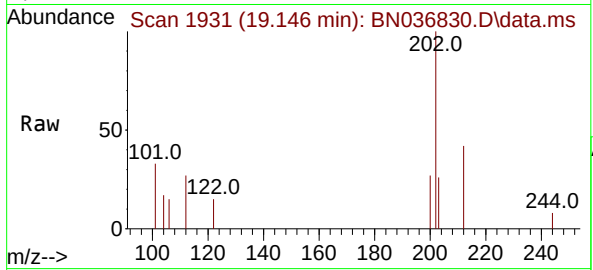
Tgt Ion:212 Resp: 5667
Ion Ratio Lower Upper
212 100
106 14.3 11.8 17.6
104 8.9 7.3 10.9





#28
Fluoranthene
Concen: 0.045 ng
RT: 19.146 min Scan# 1937
Delta R.T. -0.028 min
Lab File: BN036830.D
Acq: 03 Apr 2025 19:38

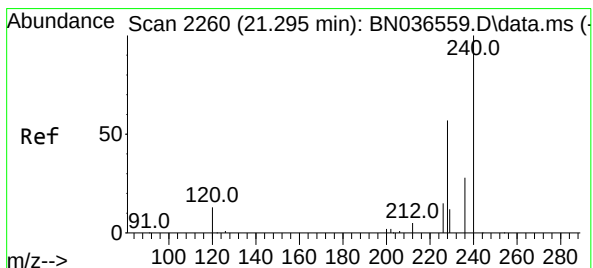
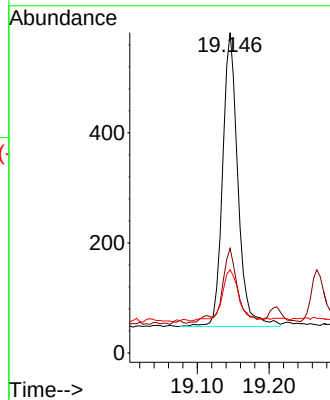
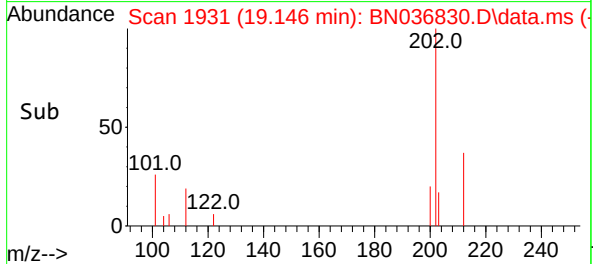
Instrument :
BNA_N
ClientSampleId :
MW-17B-55-040225



Tgt Ion:202 Resp: 79
Ion Ratio Lower Upper
202 100
101 23.8 9.4 14.0
203 19.0 13.5 20.3

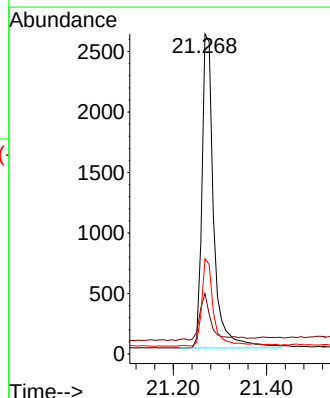
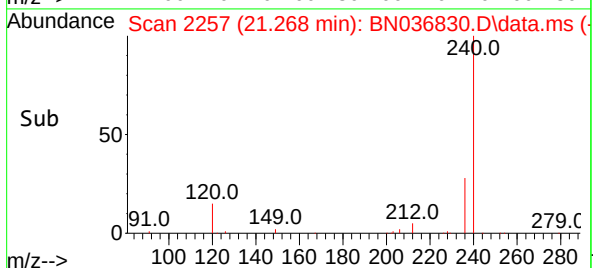
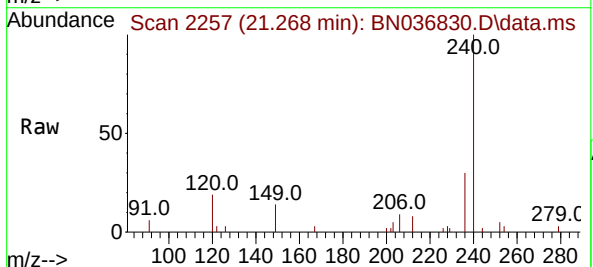
Manual Integrations
APPROVED

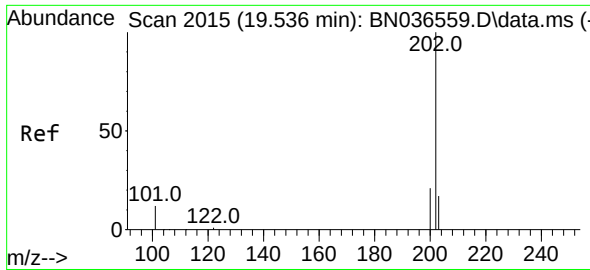
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.268 min Scan# 2257
Delta R.T. -0.027 min
Lab File: BN036830.D
Acq: 03 Apr 2025 19:38

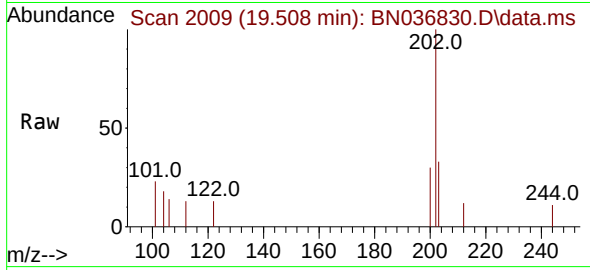
Tgt Ion:240 Resp: 4582
Ion Ratio Lower Upper
240 100
120 18.9 14.6 22.0
236 29.8 24.1 36.1





#30
Pyrene
Concen: 0.026 ng
RT: 19.508 min Scan# 2009
Delta R.T. -0.028 min
Lab File: BN036830.D
Acq: 03 Apr 2025 19:38

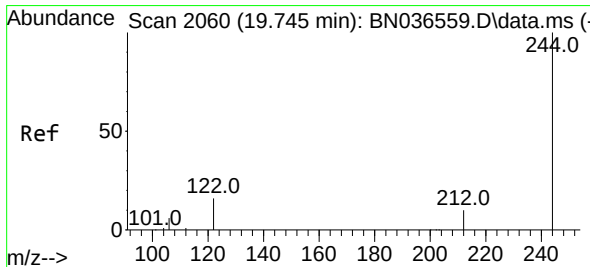
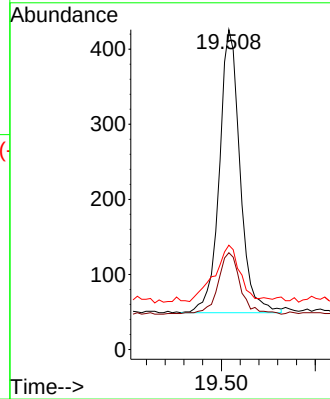
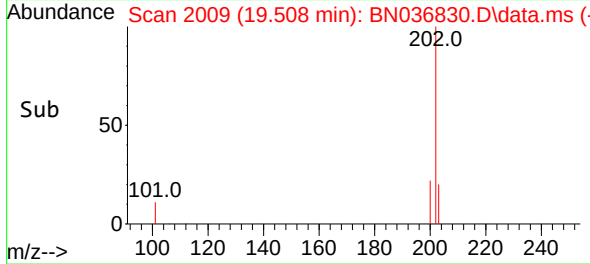
Instrument :
BNA_N
ClientSampleId :
MW-17B-55-040225



Tgt Ion:202 Resp: 57
Ion Ratio Lower Upper
202 100
200 23.7 17.1 25.7
203 24.1 14.1 21.1

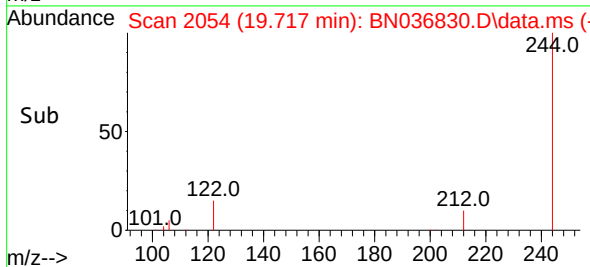
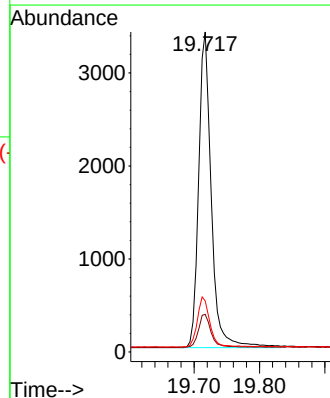
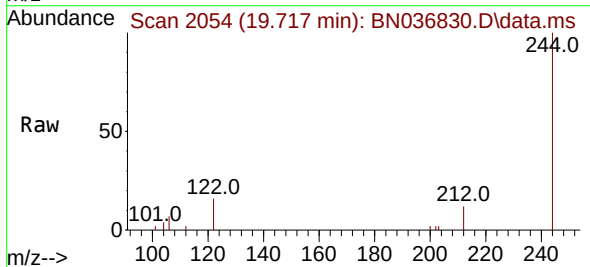
Manual Integrations
APPROVED

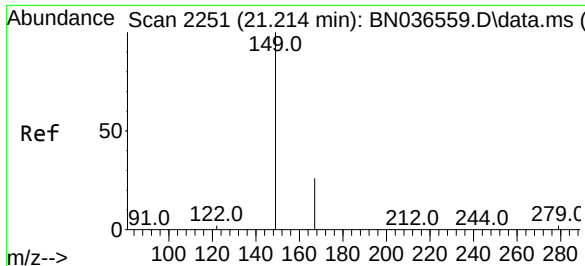
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025



#31
Terphenyl-d14
Concen: 0.415 ng
RT: 19.717 min Scan# 2054
Delta R.T. -0.028 min
Lab File: BN036830.D
Acq: 03 Apr 2025 19:38

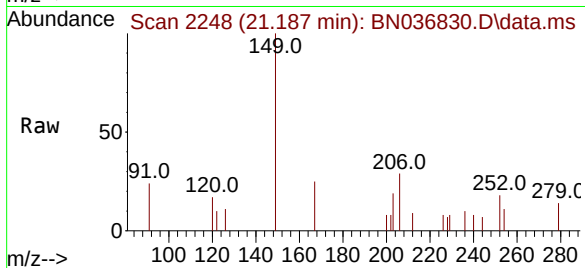
Tgt Ion:244 Resp: 4554
Ion Ratio Lower Upper
244 100
212 11.7 9.6 14.4
122 16.0 13.9 20.9





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.044 ng
RT: 21.187 min Scan# 2118
Delta R.T. -0.027 min
Lab File: BN036830.D
Acq: 03 Apr 2025 19:38

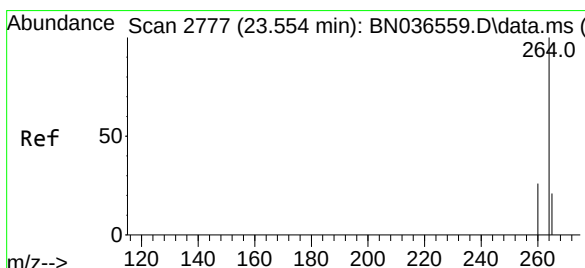
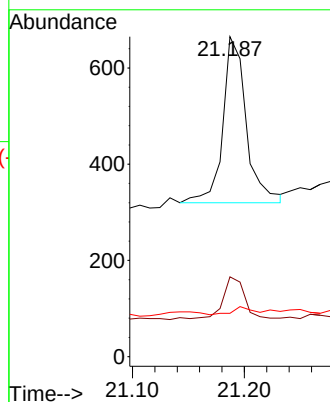
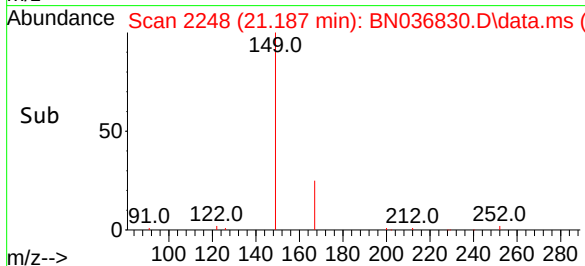
Instrument :
BNA_N
ClientSampleId :
MW-17B-55-040225



Tgt Ion:149 Resp: 502
Ion Ratio Lower Upper
149 100
167 24.9 20.7 31.1
279 4.0 3.6 5.4

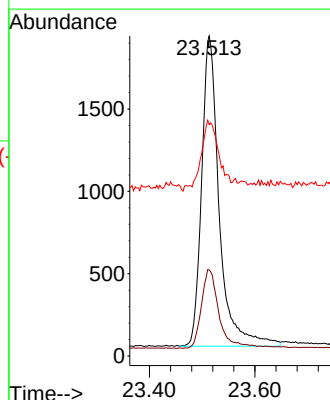
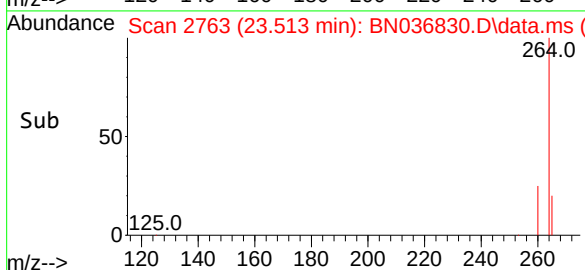
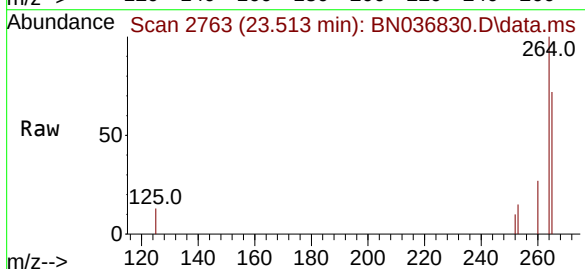
Manual Integrations
APPROVED

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



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.513 min Scan# 2763
Delta R.T. -0.041 min
Lab File: BN036830.D
Acq: 03 Apr 2025 19:38

Tgt Ion:264 Resp: 4350
Ion Ratio Lower Upper
264 100
260 26.9 22.6 33.8
265 72.3 88.1 132.1#



Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	04/02/25
Project:	Former Schlumberger STC PTC Site # D3868221	Date Received:	04/02/25
Client Sample ID:	RMW-05B-89-040225	SDG No.:	Q1711
Lab Sample ID:	Q1711-07	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
BN036831.D	1	04/03/25 13:10	04/03/25 20:14	PB167450

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
123-91-1	1,4-Dioxane	0.20		0.070	0.20	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.34		30 (20) - 150 (139)	86%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.44		30 (30) - 150 (150)	109%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.34		30 (27) - 130 (154)	84%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.40		30 (25) - 130 (149)	100%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.38		30 (54) - 130 (175)	96%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	1720	7.695			
1146-65-2	Naphthalene-d8	4310	10.477			
15067-26-2	Acenaphthene-d10	2460	14.334			
1517-22-2	Phenanthrene-d10	5130	17.074			
1719-03-5	Chrysene-d12	5000	21.268			
1520-96-3	Perylene-d12	5310	23.51			

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\BN040325\
Data File : BN036831.D
Acq On : 03 Apr 2025 20:14
Operator : RC/JU
Sample : Q1711-07
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RMW-05B-89-040225

Quant Time: Apr 04 00:57:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

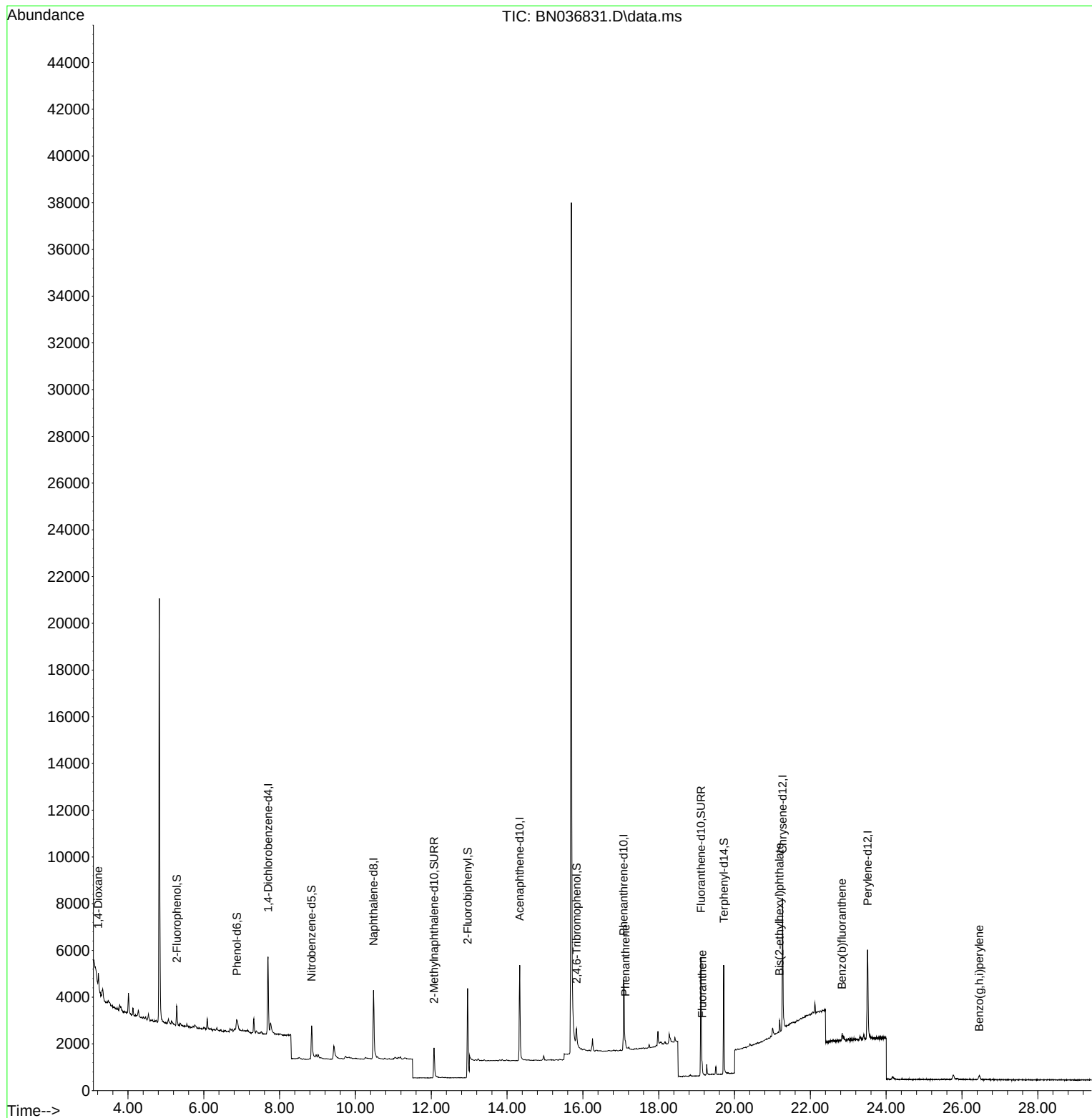
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.695	152	1717	0.400	ng	-0.03
7) Naphthalene-d8	10.477	136	4308	0.400	ng	-0.03
13) Acenaphthene-d10	14.334	164	2458	0.400	ng	-0.03
19) Phenanthrene-d10	17.074	188	5130	0.400	ng	#-0.04
29) Chrysene-d12	21.268	240	5002	0.400	ng	-0.03
35) Perylene-d12	23.510	264	5306	0.400	ng	#-0.04
System Monitoring Compounds						
4) 2-Fluorophenol	5.290	112	606	0.151	ng	-0.02
5) Phenol-d6	6.872	99	433	0.088	ng	-0.03
8) Nitrobenzene-d5	8.843	82	1576	0.336	ng	-0.03
11) 2-Methylnaphthalene-d10	12.075	152	2204	0.344	ng	-0.04
14) 2,4,6-Tribromophenol	15.833	330	476	0.427	ng	-0.02
15) 2-Fluorobiphenyl	12.958	172	5689	0.398	ng	-0.03
27) Fluoranthene-d10	19.113	212	5713	0.435	ng	-0.03
31) Terphenyl-d14	19.717	244	4603	0.384	ng	-0.03
Target Compounds						
2) 1,4-Dioxane	3.218	88	379	0.199	ng	# 30
25) Phenanthrene	17.124	178	332	0.022	ng	96
28) Fluoranthene	19.146	202	406	0.023	ng	# 93
34) Bis(2-ethylhexyl)phtha...	21.187	149	594	0.048	ng	100
37) Benzo(b)fluoranthene	22.835	252	405	0.021	ng	# 1
41) Benzo(g,h,i)perylene	26.457	276	378	0.022	ng	# 49

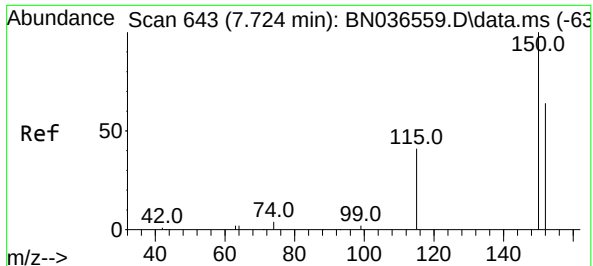
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN040325\
Data File : BN036831.D
Acq On : 03 Apr 2025 20:14
Operator : RC/JU
Sample : Q1711-07
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RMW-05B-89-040225

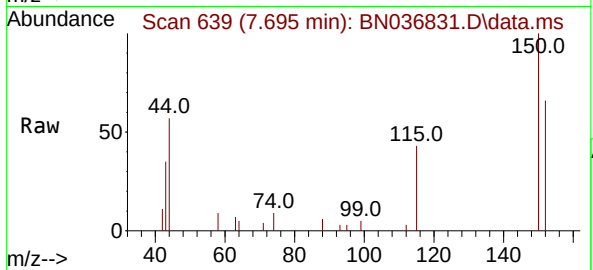
Quant Time: Apr 04 00:57:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



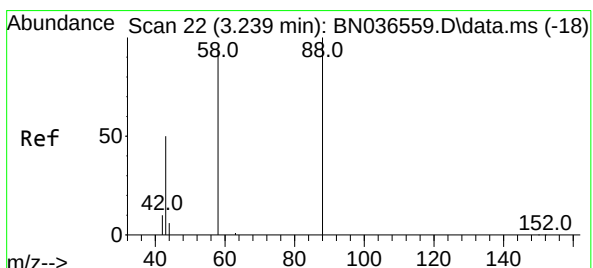
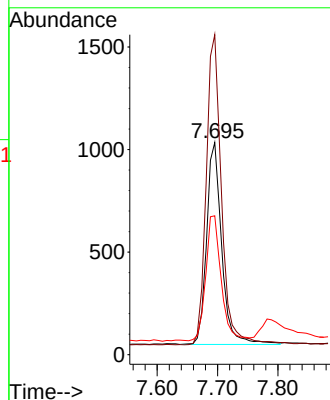
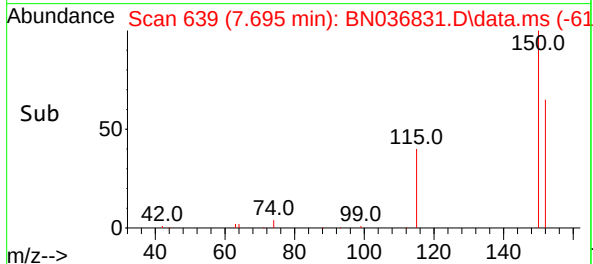


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.695 min Scan# 61
Delta R.T. -0.029 min
Lab File: BN036831.D
Acq: 03 Apr 2025 20:14

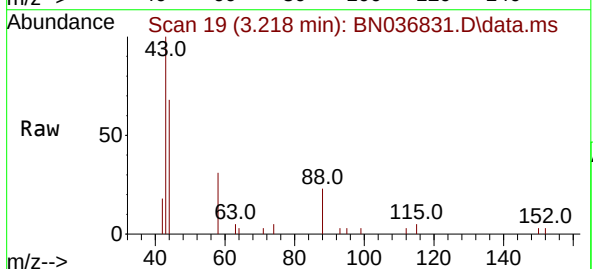
Instrument :
BNA_N
ClientSampleId :
RMW-05B-89-040225



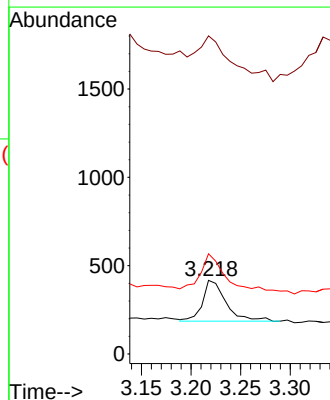
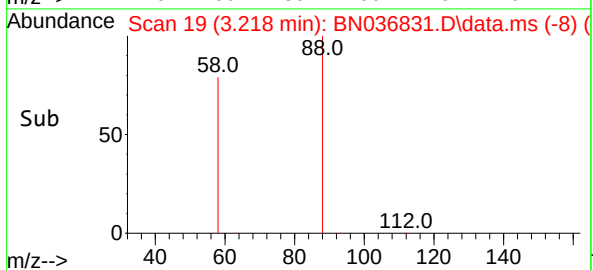
Tgt Ion:152 Resp: 1717
Ion Ratio Lower Upper
152 100
150 150.9 123.7 185.5
115 65.5 54.3 81.5

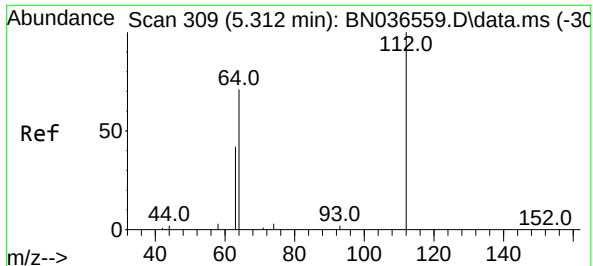


#2
1,4-Dioxane
Concen: 0.199 ng
RT: 3.218 min Scan# 19
Delta R.T. -0.021 min
Lab File: BN036831.D
Acq: 03 Apr 2025 20:14



Tgt Ion: 88 Resp: 379
Ion Ratio Lower Upper
88 100
43 164.9 37.8 56.8#
58 94.2 67.4 101.2

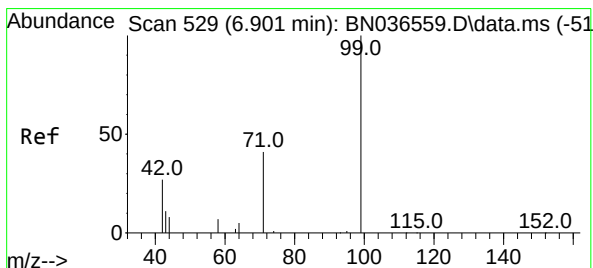
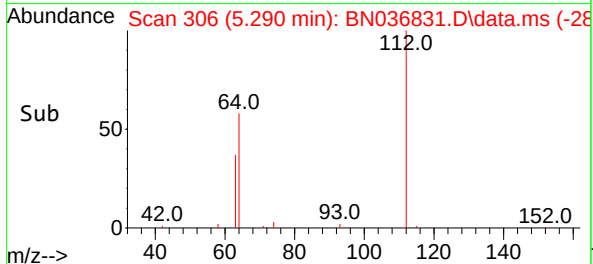
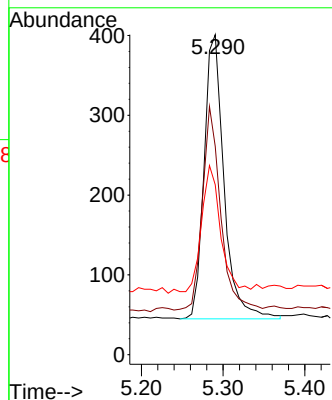
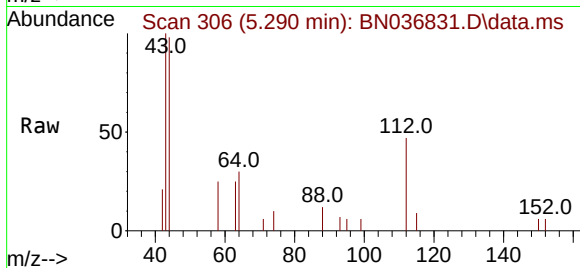




#4
2-Fluorophenol
Concen: 0.151 ng
RT: 5.290 min Scan# 306
Delta R.T. -0.022 min
Lab File: BN036831.D
Acq: 03 Apr 2025 20:14

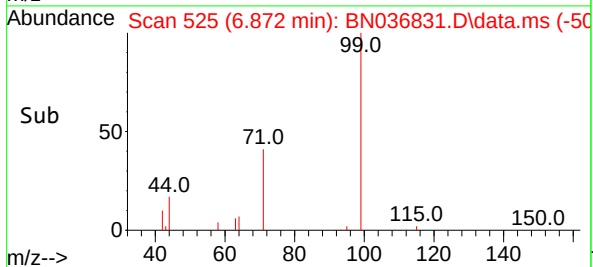
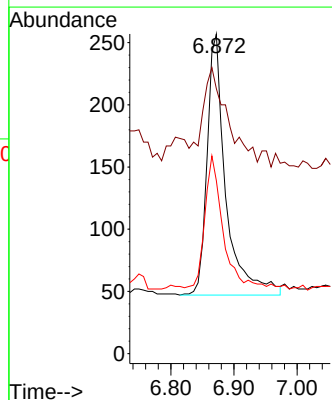
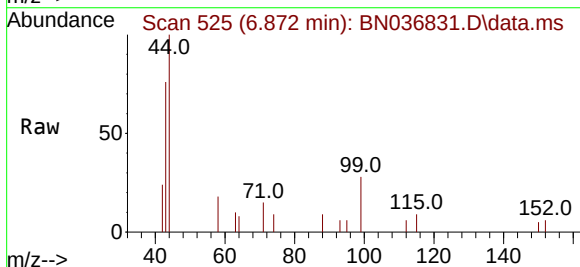
Instrument :
BNA_N
ClientSampleId :
RMW-05B-89-040225

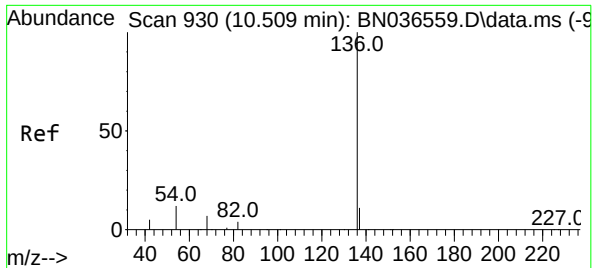
Tgt Ion	Ratio	Lower	Upper
112	100		
64	65.2	53.1	79.7
63	41.7	31.8	47.8



#5
Phenol-d6
Concen: 0.088 ng
RT: 6.872 min Scan# 525
Delta R.T. -0.029 min
Lab File: BN036831.D
Acq: 03 Apr 2025 20:14

Tgt Ion	Ratio	Lower	Upper
99	100		
42	45.7	26.5	39.7
71	50.3	34.1	51.1

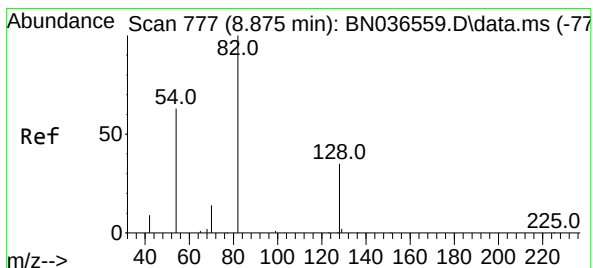
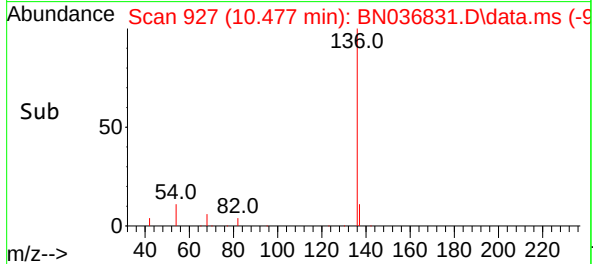
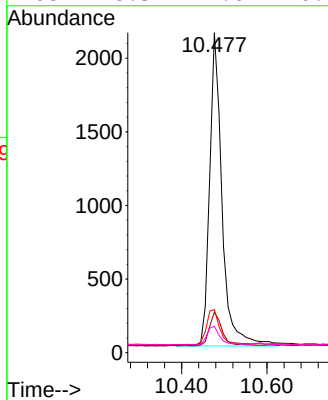
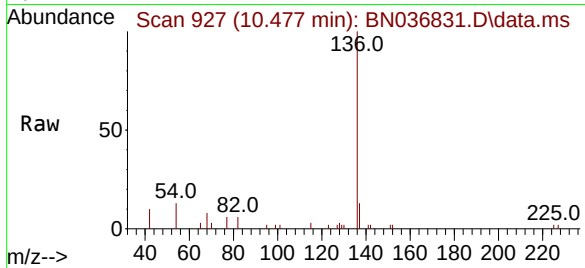




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.477 min Scan# 91
Delta R.T. -0.032 min
Lab File: BN036831.D
Acq: 03 Apr 2025 20:14

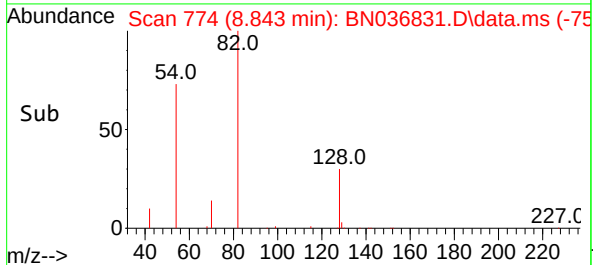
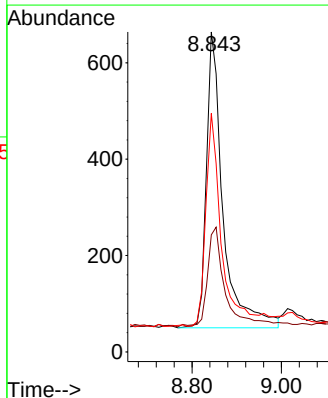
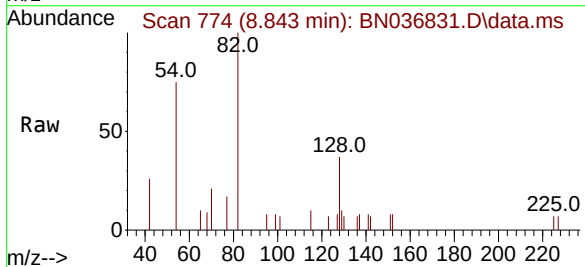
Instrument :
BNA_N
ClientSampleId :
RMW-05B-89-040225

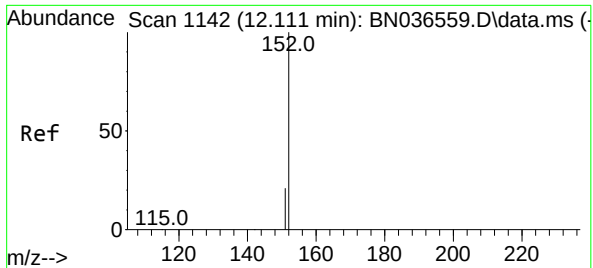
Tgt Ion:	136	Resp:	4308
Ion	Ratio	Lower	Upper
136	100		
137	12.6	10.3	15.5
54	13.5	11.5	17.3
68	8.3	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.336 ng
RT: 8.843 min Scan# 774
Delta R.T. -0.032 min
Lab File: BN036831.D
Acq: 03 Apr 2025 20:14

Tgt Ion:	82	Resp:	1576
Ion	Ratio	Lower	Upper
82	100		
128	36.6	30.6	45.8
54	74.5	52.2	78.4

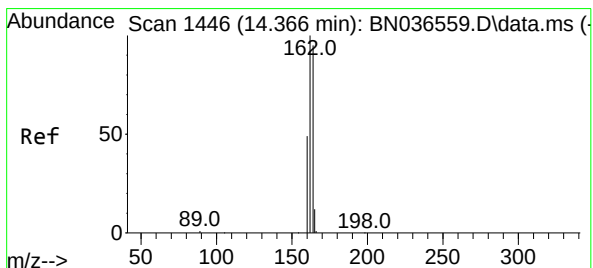
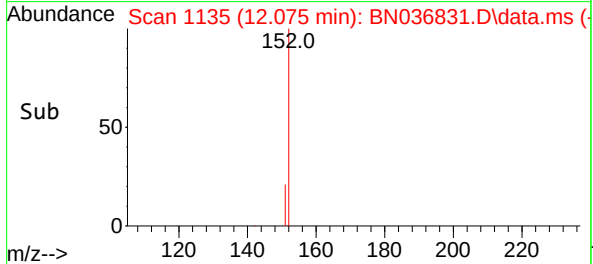
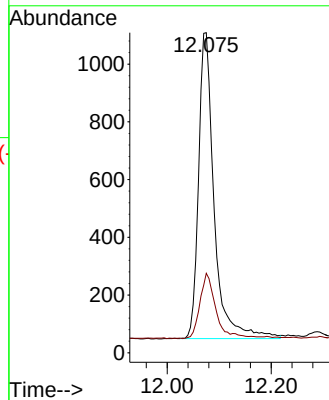
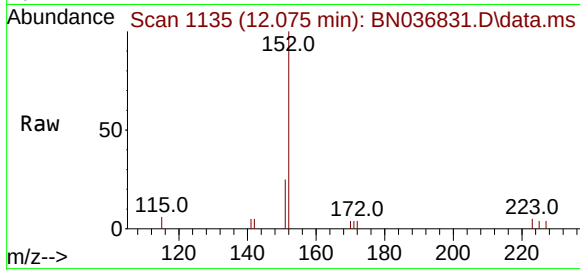




#11
2-Methylnaphthalene-d10
Concen: 0.344 ng
RT: 12.075 min Scan# 1142
Delta R.T. -0.035 min
Lab File: BN036831.D
Acq: 03 Apr 2025 20:14

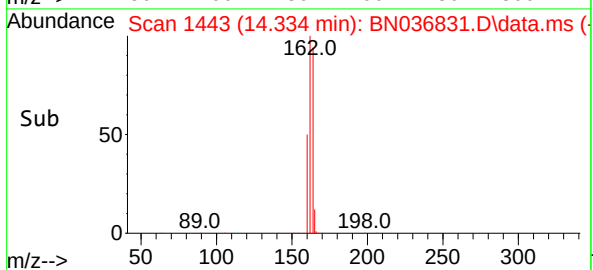
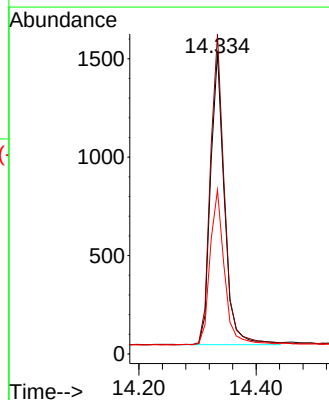
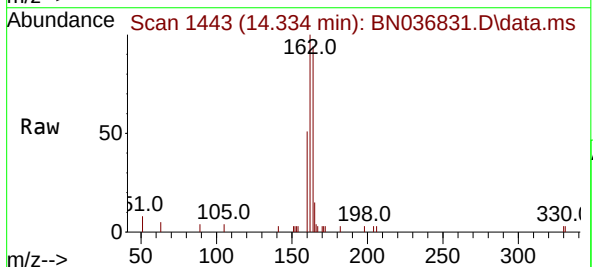
Instrument :
BNA_N
ClientSampleId :
RMW-05B-89-040225

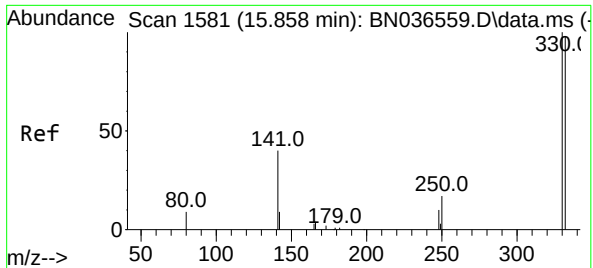
Tgt Ion:152 Resp: 2204
Ion Ratio Lower Upper
152 100
151 22.0 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 1443
Delta R.T. -0.032 min
Lab File: BN036831.D
Acq: 03 Apr 2025 20:14

Tgt Ion:164 Resp: 2458
Ion Ratio Lower Upper
164 100
162 106.0 84.2 126.2
160 54.3 42.2 63.2

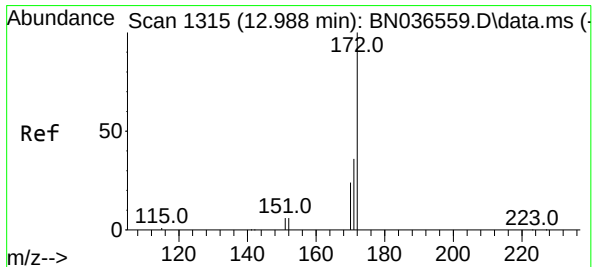
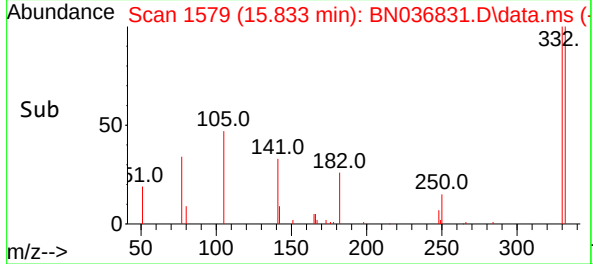
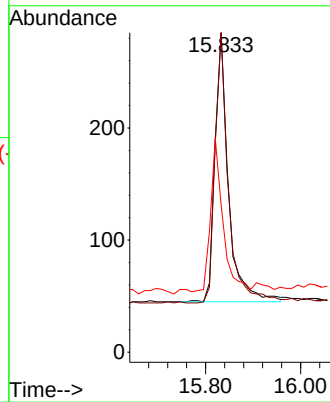
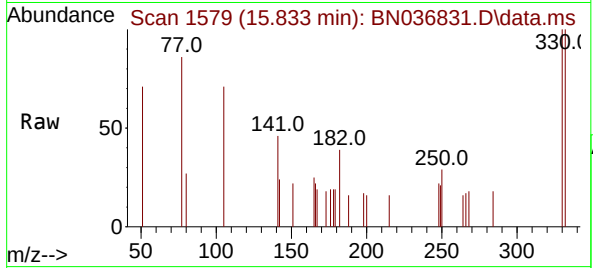




#14
2,4,6-Tribromophenol
Concen: 0.427 ng
RT: 15.833 min Scan# 11
Delta R.T. -0.025 min
Lab File: BN036831.D
Acq: 03 Apr 2025 20:14

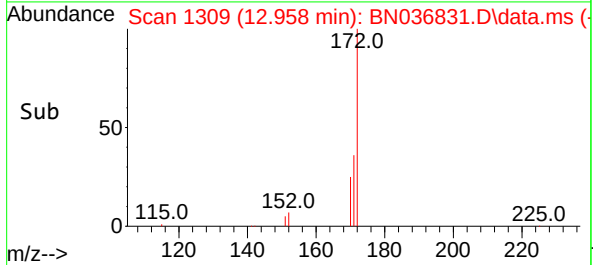
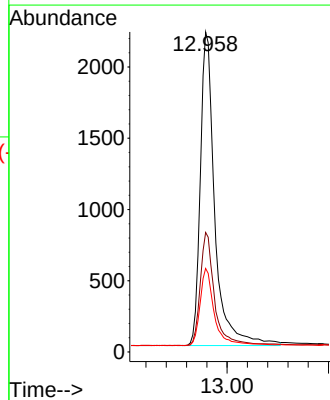
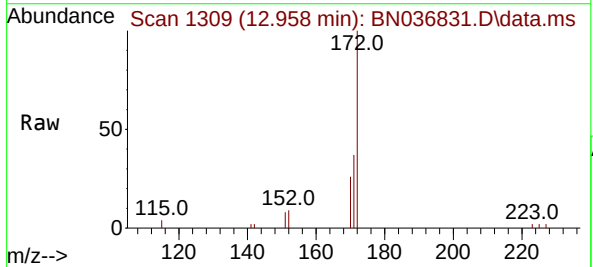
Instrument :
BNA_N
ClientSampleId :
RMW-05B-89-040225

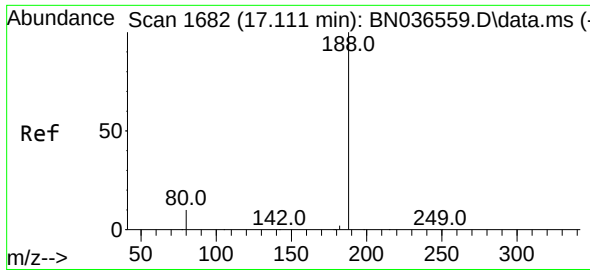
Tgt Ion	330	Resp	476
Ion Ratio	Lower	Upper	
330	100		
332	98.9	75.2	112.8
141	51.9	43.4	65.2



#15
2-Fluorobiphenyl
Concen: 0.398 ng
RT: 12.958 min Scan# 1309
Delta R.T. -0.030 min
Lab File: BN036831.D
Acq: 03 Apr 2025 20:14

Tgt Ion	172	Resp	5689
Ion Ratio	Lower	Upper	
172	100		
171	37.4	29.5	44.3
170	26.1	20.2	30.4





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.074 min Scan# 1

Delta R.T. -0.037 min

Lab File: BN036831.D

Acq: 03 Apr 2025 20:14

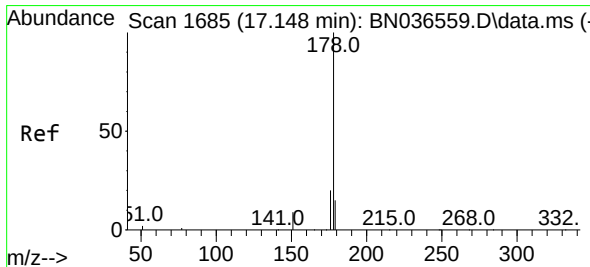
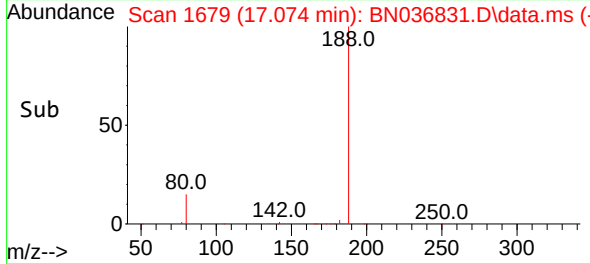
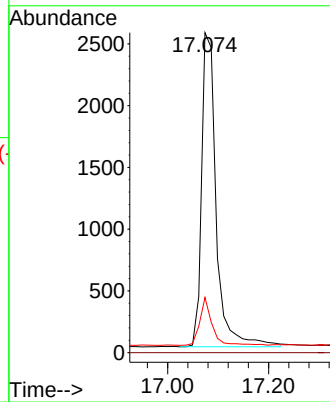
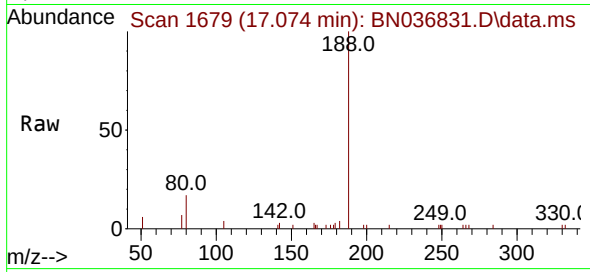
Instrument :

BNA_N

ClientSampleId :

RMW-05B-89-040225

Tgt Ion:	188	Resp:	5130
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	17.3	8.8	13.2#



#25

Phenanthrene

Concen: 0.022 ng

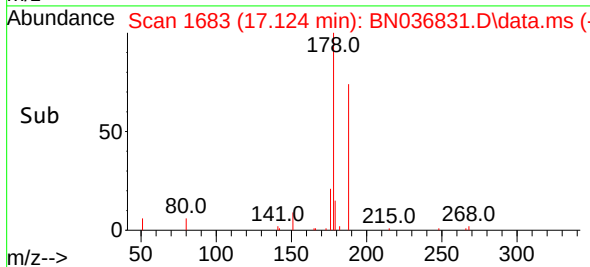
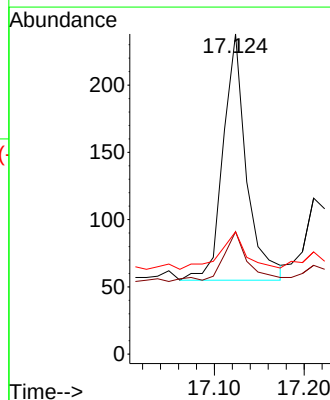
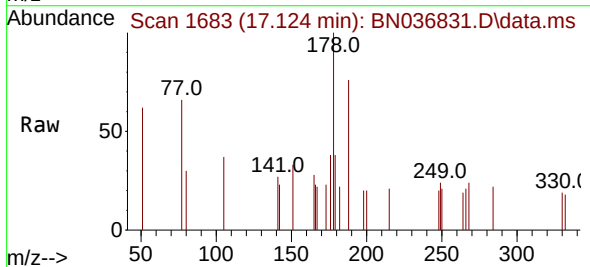
RT: 17.124 min Scan# 1683

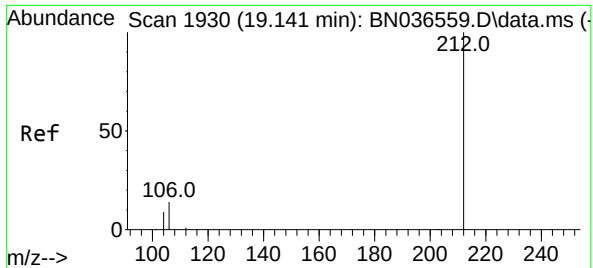
Delta R.T. -0.025 min

Lab File: BN036831.D

Acq: 03 Apr 2025 20:14

Tgt Ion:	178	Resp:	332
Ion	Ratio	Lower	Upper
178	100		
176	21.7	15.9	23.9
179	17.2	12.2	18.4





#27

Fluoranthene-d10

Concen: 0.435 ng

RT: 19.113 min Scan# 1913

Delta R.T. -0.028 min

Lab File: BN036831.D

Acq: 03 Apr 2025 20:14

Instrument :

BNA_N

ClientSampleId :

RMW-05B-89-040225

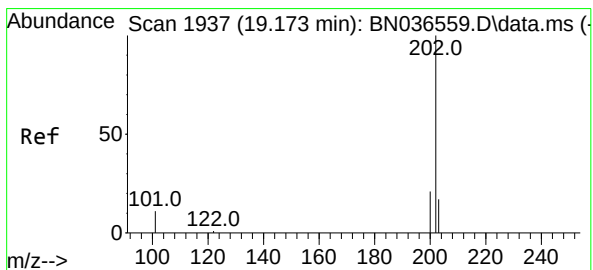
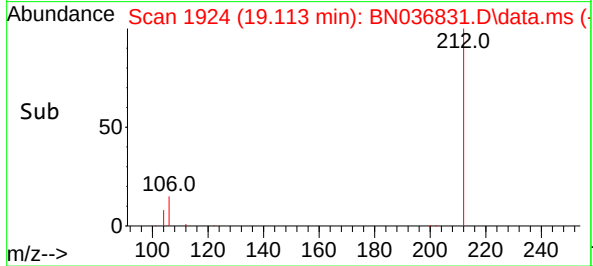
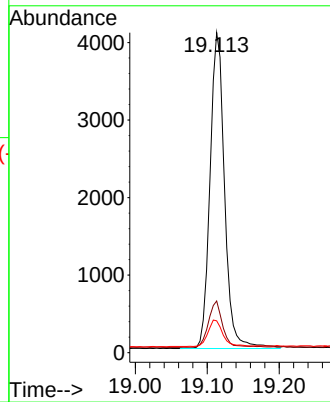
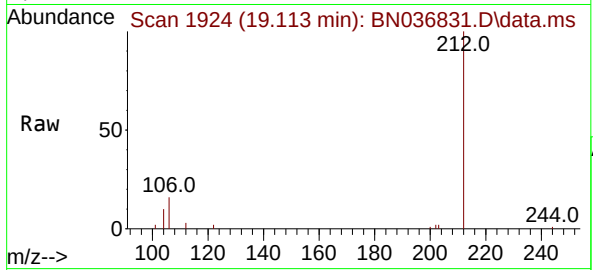
Tgt Ion:212 Resp: 5713

Ion Ratio Lower Upper

212 100

106 14.6 11.8 17.6

104 8.4 7.3 10.9



#28

Fluoranthene

Concen: 0.023 ng

RT: 19.146 min Scan# 1931

Delta R.T. -0.028 min

Lab File: BN036831.D

Acq: 03 Apr 2025 20:14

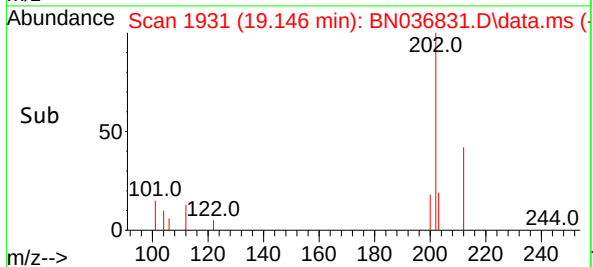
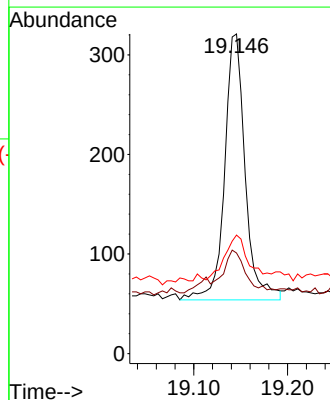
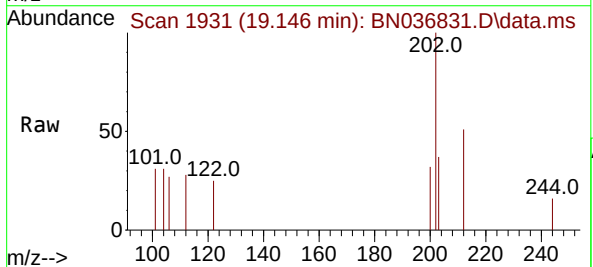
Tgt Ion:202 Resp: 406

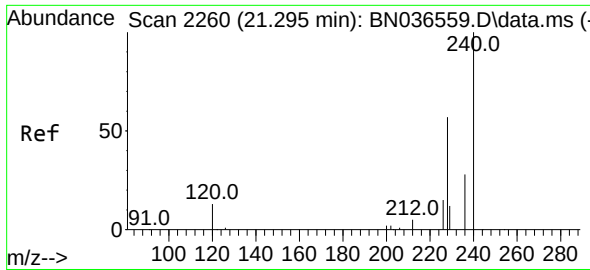
Ion Ratio Lower Upper

202 100

101 15.5 9.4 14.0#

203 19.2 13.5 20.3

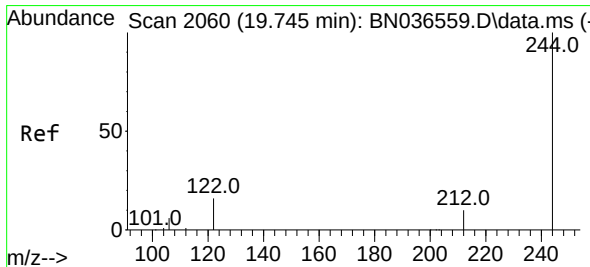
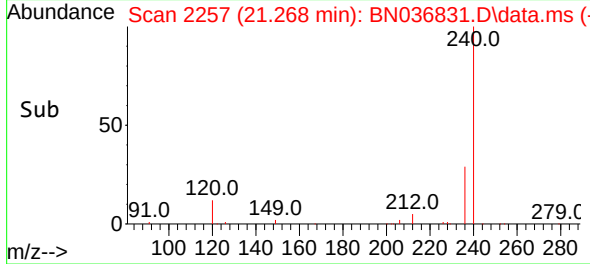
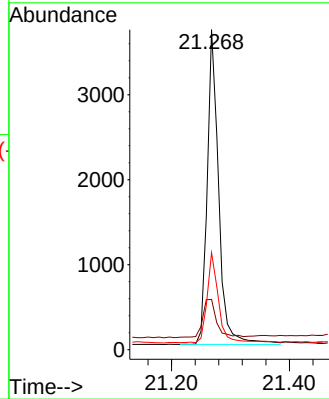
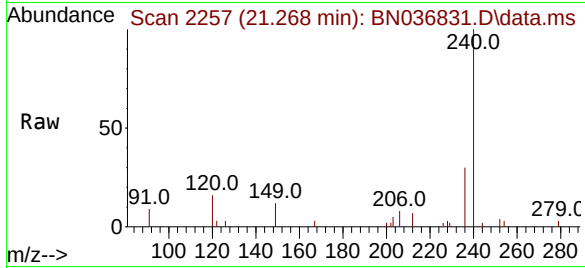




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.268 min Scan# 21
Delta R.T. -0.027 min
Lab File: BN036831.D
Acq: 03 Apr 2025 20:14

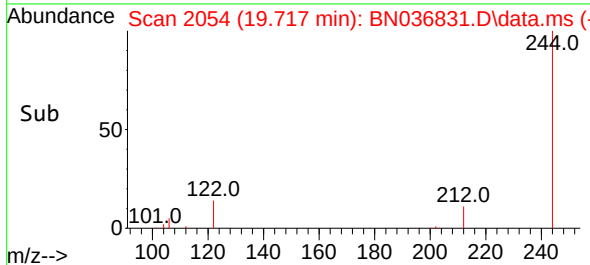
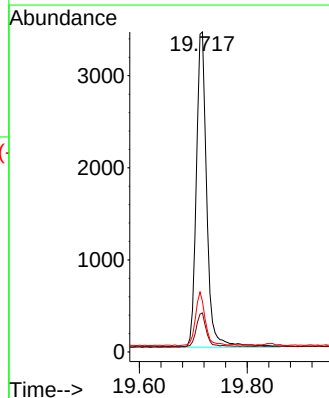
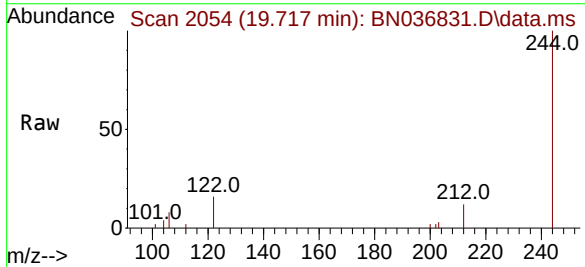
Instrument :
BNA_N
ClientSampleId :
RMW-05B-89-040225

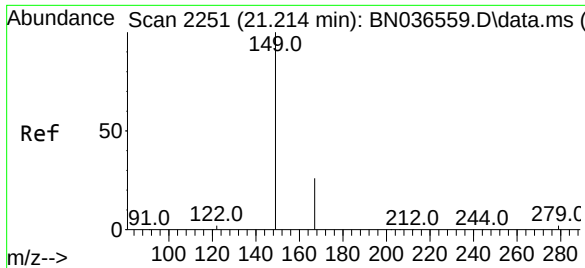
Tgt Ion	Ratio	Lower	Upper
240	100		
120	15.7	14.6	22.0
236	30.3	24.1	36.1



#31
Terphenyl-d14
Concen: 0.384 ng
RT: 19.717 min Scan# 2054
Delta R.T. -0.028 min
Lab File: BN036831.D
Acq: 03 Apr 2025 20:14

Tgt Ion	Ratio	Lower	Upper
244	100		
212	12.2	9.6	14.4
122	15.9	13.9	20.9

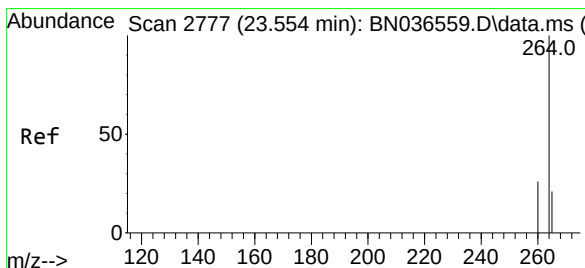
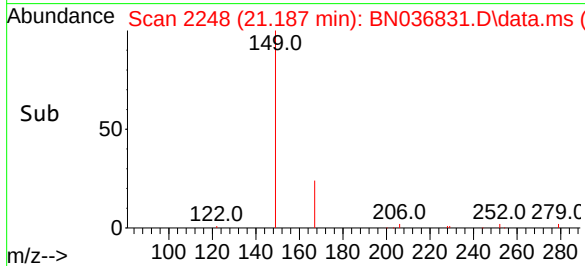
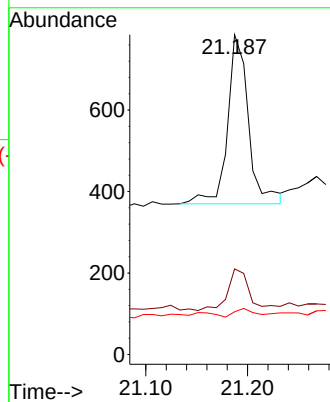
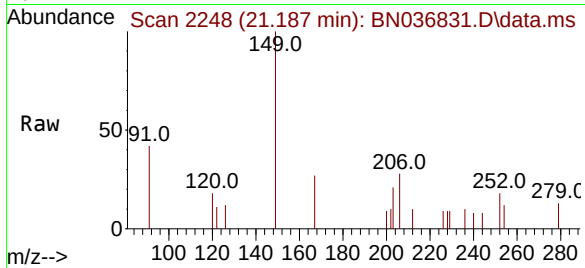




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.048 ng
RT: 21.187 min Scan# 2118
Delta R.T. -0.027 min
Lab File: BN036831.D
Acq: 03 Apr 2025 20:14

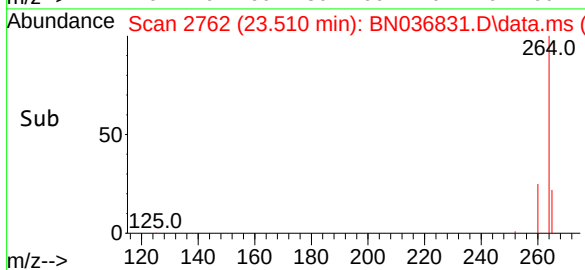
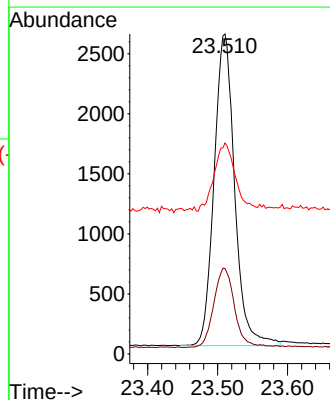
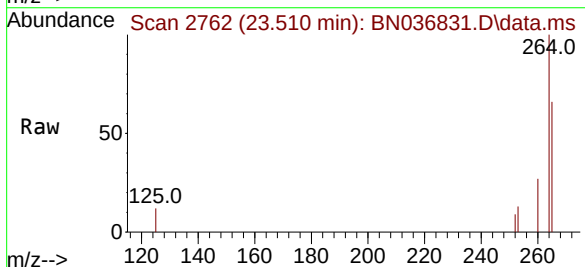
Instrument :
BNA_N
ClientSampleId :
RMW-05B-89-040225

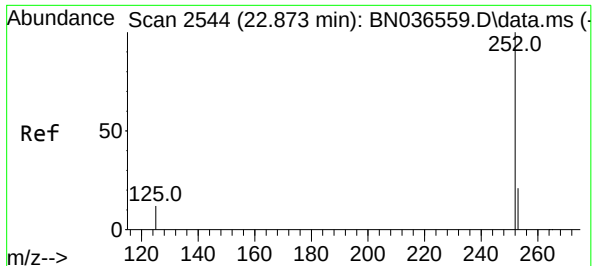
Tgt Ion:149 Resp: 594
Ion Ratio Lower Upper
149 100
167 25.9 20.7 31.1
279 4.5 3.6 5.4



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.510 min Scan# 2762
Delta R.T. -0.044 min
Lab File: BN036831.D
Acq: 03 Apr 2025 20:14

Tgt Ion:264 Resp: 5306
Ion Ratio Lower Upper
264 100
260 26.7 22.6 33.8
265 65.9 88.1 132.1#





#37

Benzo(b)fluoranthene

Concen: 0.021 ng

RT: 22.835 min Scan# 21

Delta R.T. -0.038 min

Lab File: BN036831.D

Acq: 03 Apr 2025 20:14

Instrument :

BNA_N

ClientSampleId :

RMW-05B-89-040225

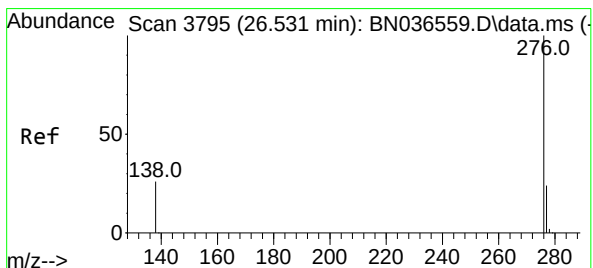
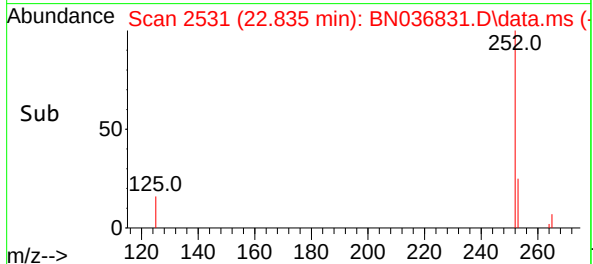
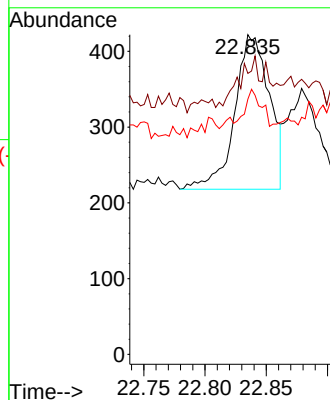
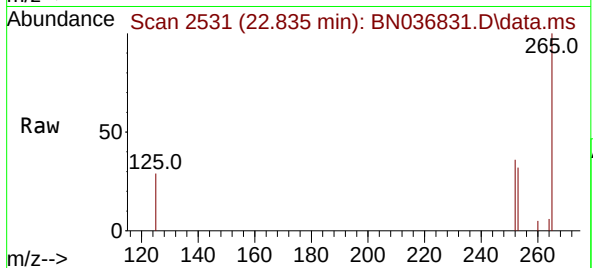
Tgt Ion:252 Resp: 405

Ion Ratio Lower Upper

252 100

253 87.9 23.9 35.9#

125 79.9 17.4 26.2#



#41

Benzo(g,h,i)perylene

Concen: 0.022 ng

RT: 26.457 min Scan# 3770

Delta R.T. -0.073 min

Lab File: BN036831.D

Acq: 03 Apr 2025 20:14

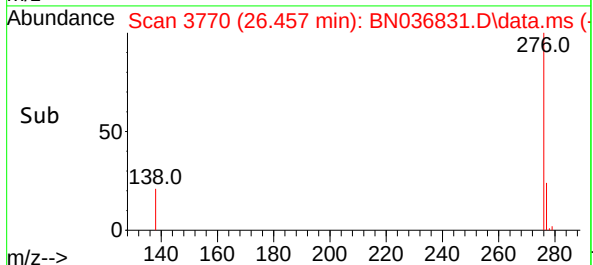
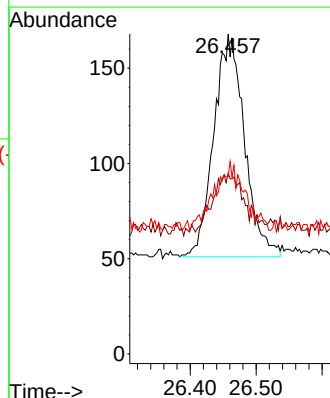
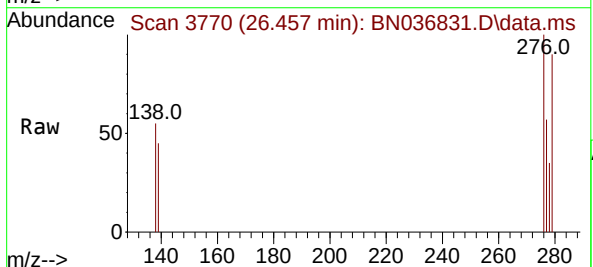
Tgt Ion:276 Resp: 378

Ion Ratio Lower Upper

276 100

277 56.5 22.2 33.4#

138 55.4 24.1 36.1#



Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	04/02/25
Project:	Former Schlumberger STC PTC Site # D3868221	Date Received:	04/02/25
Client Sample ID:	EB01-040225	SDG No.:	Q1711
Lab Sample ID:	Q1711-08	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	960 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036832.D	1	04/03/25 13:10	04/03/25 20:51	PB167450

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
123-91-1	1,4-Dioxane	0.12	J	0.070	0.21	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.34		30 (20) - 150 (139)	84%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.44		30 (30) - 150 (150)	109%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		30 (27) - 130 (154)	79%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		30 (25) - 130 (149)	93%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.41		30 (54) - 130 (175)	102%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	2130		7.695		
1146-65-2	Naphthalene-d8	5120		10.477		
15067-26-2	Acenaphthene-d10	3000		14.334		
1517-22-2	Phenanthrene-d10	6320		17.086		
1719-03-5	Chrysene-d12	5670		21.268		
1520-96-3	Perylene-d12	5200		23.513		

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\BN040325\
Data File : BN036832.D
Acq On : 03 Apr 2025 20:51
Operator : RC/JU
Sample : Q1711-08
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
EB01-040225

Quant Time: Apr 04 00:57:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

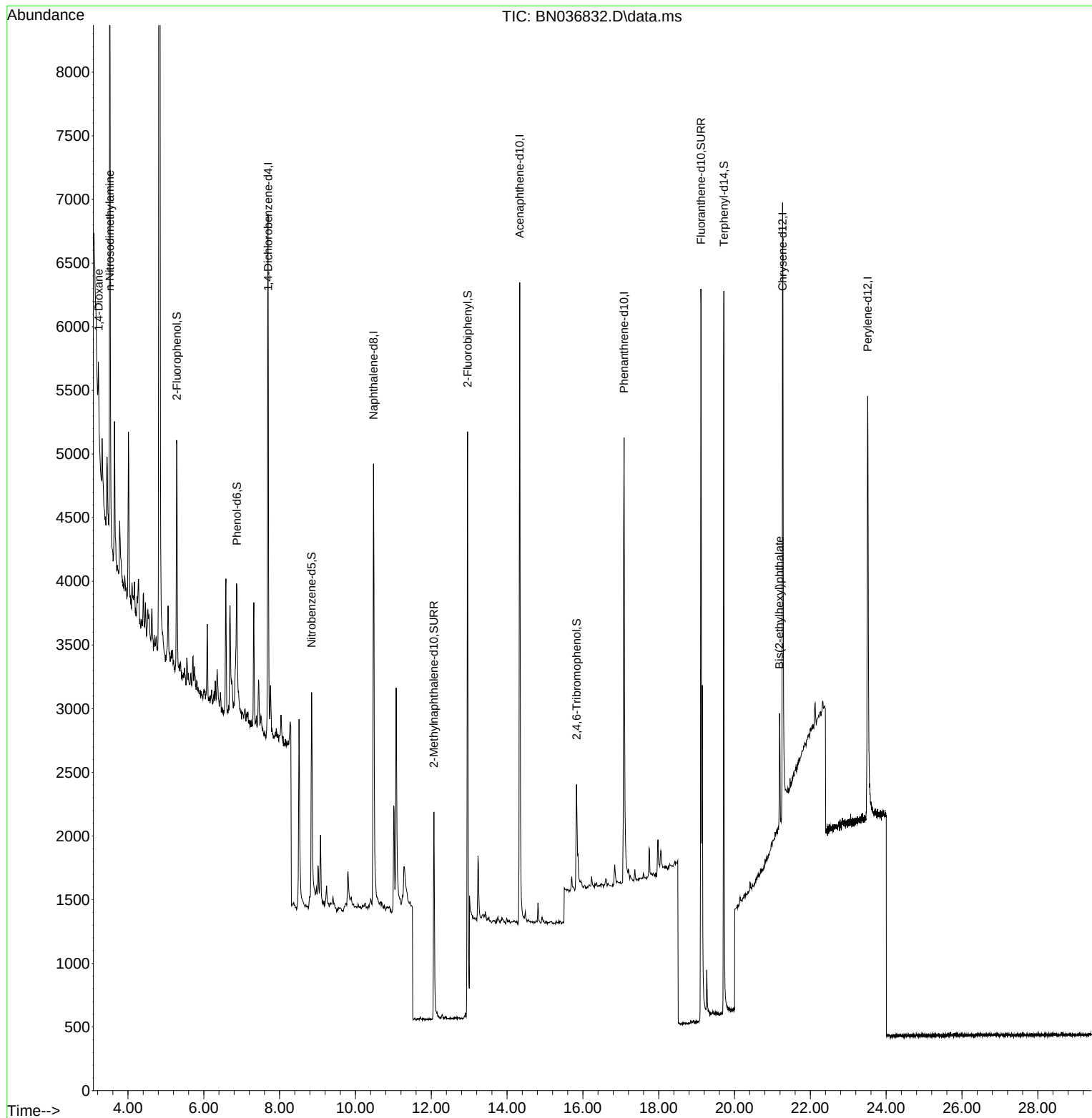
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.695	152	2125	0.400	ng	-0.03
7) Naphthalene-d8	10.477	136	5120	0.400	ng	-0.03
13) Acenaphthene-d10	14.334	164	3000	0.400	ng	-0.03
19) Phenanthrene-d10	17.086	188	6320	0.400	ng	-0.02
29) Chrysene-d12	21.268	240	5671	0.400	ng	-0.03
35) Perylene-d12	23.513	264	5195	0.400	ng	#-0.04
System Monitoring Compounds						
4) 2-Fluorophenol	5.290	112	1323	0.267	ng	-0.02
5) Phenol-d6	6.872	99	1025	0.168	ng	-0.03
8) Nitrobenzene-d5	8.843	82	1765	0.317	ng	-0.03
11) 2-Methylnaphthalene-d10	12.070	152	2562	0.336	ng	-0.04
14) 2,4,6-Tribromophenol	15.833	330	549	0.403	ng	-0.02
15) 2-Fluorobiphenyl	12.958	172	6454	0.370	ng	-0.03
27) Fluoranthene-d10	19.113	212	7078	0.437	ng	-0.03
31) Terphenyl-d14	19.717	244	5537	0.408	ng	-0.03
Target Compounds						
2) 1,4-Dioxane	3.225	88	270	0.115	ng	# 7
3) n-Nitrosodimethylamine	3.521	42	546	0.114	ng	# 11
34) Bis(2-ethylhexyl)phtha...	21.187	149	921	0.066	ng	96

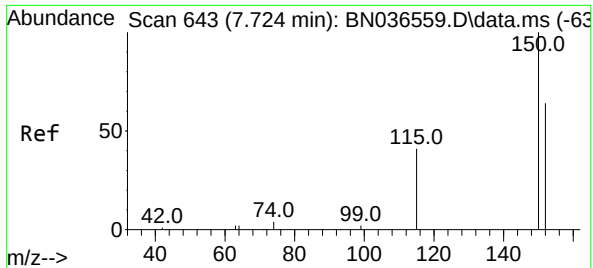
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN040325\
Data File : BN036832.D
Acq On : 03 Apr 2025 20:51
Operator : RC/JU
Sample : Q1711-08
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
EB01-040225

Quant Time: Apr 04 00:57:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

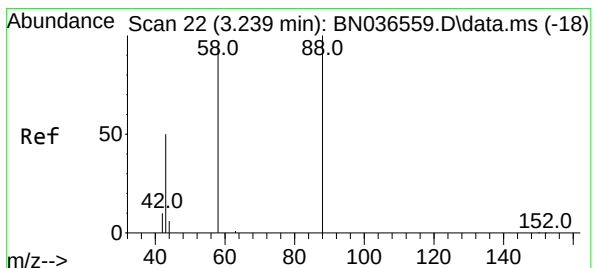
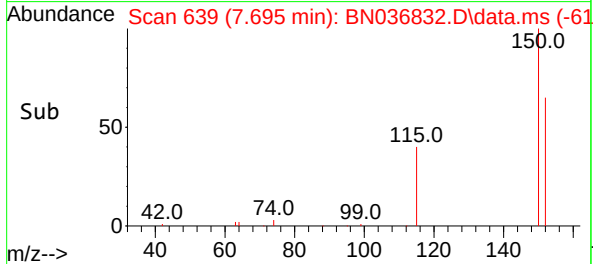
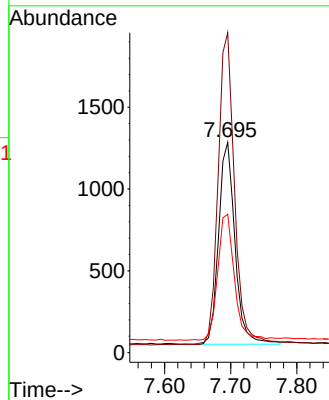
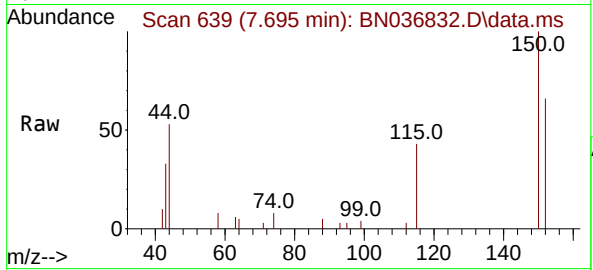




#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.695 min Scan# 61
 Delta R.T. -0.029 min
 Lab File: BN036832.D
 Acq: 03 Apr 2025 20:51

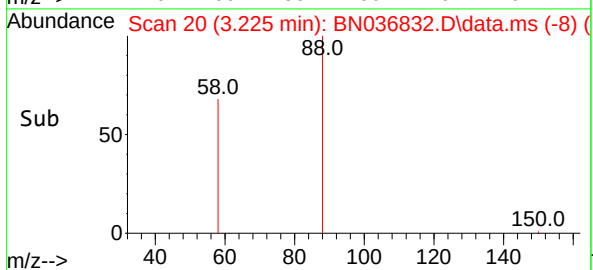
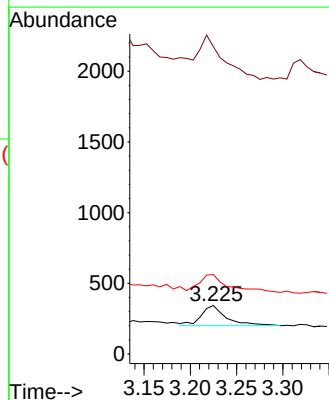
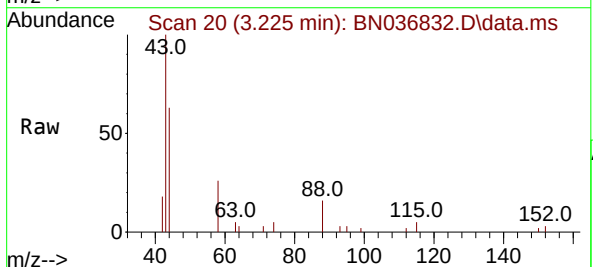
Instrument :
 BNA_N
 ClientSampleId :
 EB01-040225

Tgt Ion:152 Resp: 2125
 Ion Ratio Lower Upper
 152 100
 150 152.1 123.7 185.5
 115 65.8 54.3 81.5

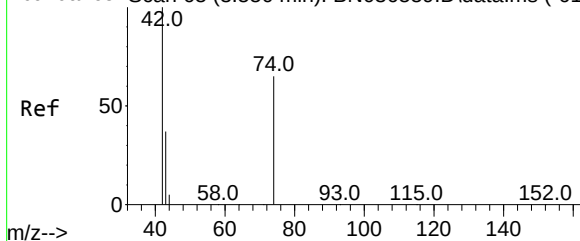


#2
 1,4-Dioxane
 Concen: 0.115 ng
 RT: 3.225 min Scan# 20
 Delta R.T. -0.014 min
 Lab File: BN036832.D
 Acq: 03 Apr 2025 20:51

Tgt Ion: 88 Resp: 270
 Ion Ratio Lower Upper
 88 100
 43 200.4 37.8 56.8#
 58 99.6 67.4 101.2



Abundance Scan 65 (3.550 min): BN036559.D\data.ms (-61)



#3

n-Nitrosodimethylamine

Concen: 0.114 ng

RT: 3.521 min Scan# 61

Delta R.T. -0.029 min

Lab File: BN036832.D

Acq: 03 Apr 2025 20:51

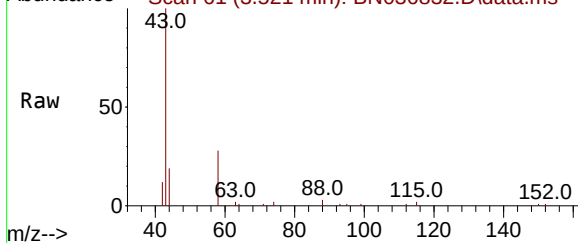
Instrument :

BNA_N

ClientSampleId :

EB01-040225

Abundance Scan 61 (3.521 min): BN036832.D\data.ms



Tgt Ion: 42 Resp: 546

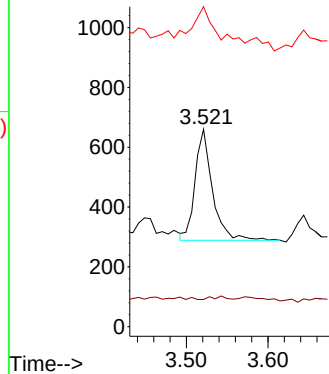
Ion Ratio Lower Upper

42 100

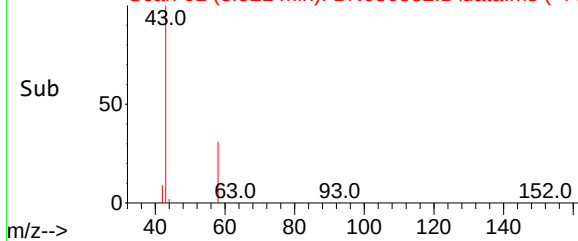
74 0.0 60.6 90.8#

44 41.2 6.3 9.5#

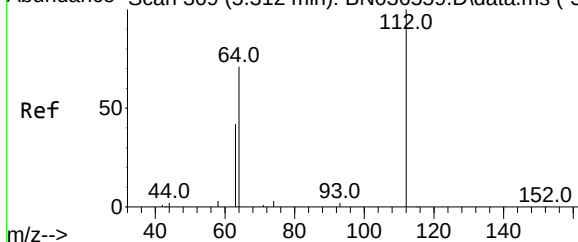
Abundance



Abundance Scan 61 (3.521 min): BN036832.D\data.ms (-44)



Abundance Scan 309 (5.312 min): BN036559.D\data.ms (-30)



#4

2-Fluorophenol

Concen: 0.267 ng

RT: 5.290 min Scan# 306

Delta R.T. -0.022 min

Lab File: BN036832.D

Acq: 03 Apr 2025 20:51

Tgt Ion: 112 Resp: 1323

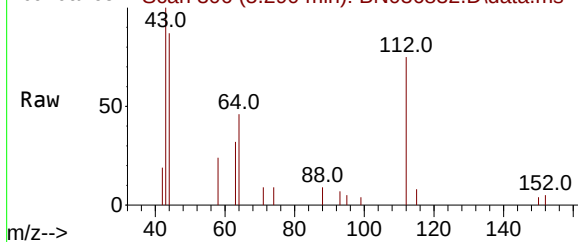
Ion Ratio Lower Upper

112 100

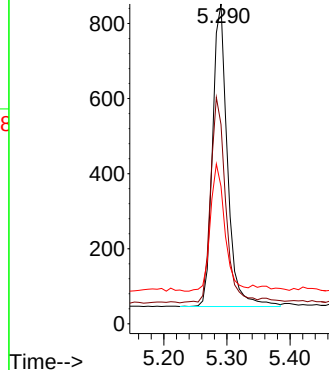
64 67.8 53.1 79.7

63 40.7 31.8 47.8

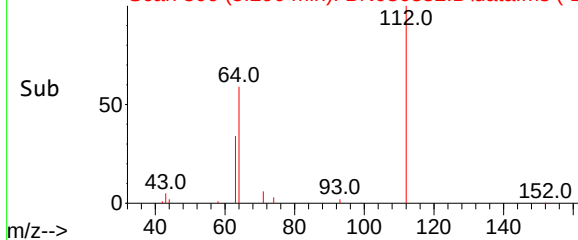
Abundance Scan 306 (5.290 min): BN036832.D\data.ms

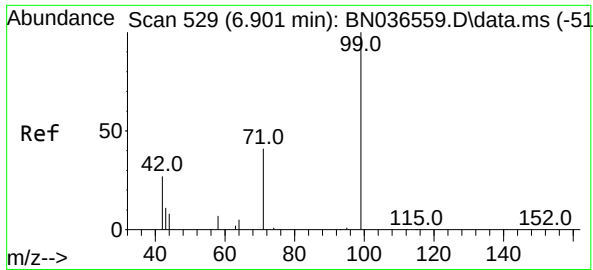


Abundance



Abundance Scan 306 (5.290 min): BN036832.D\data.ms (-28)

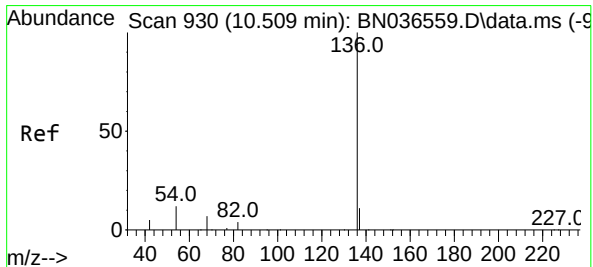
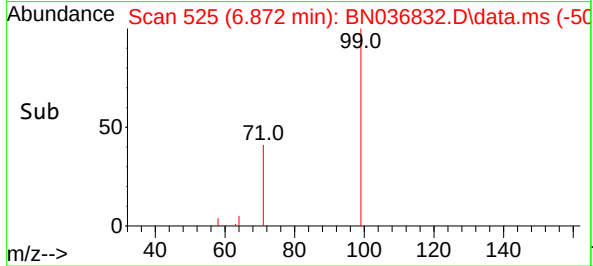
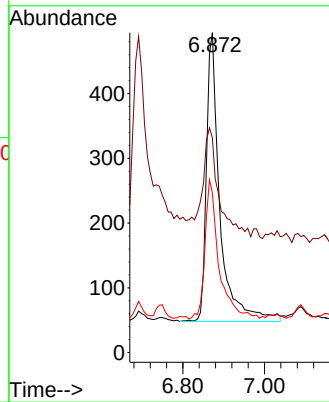
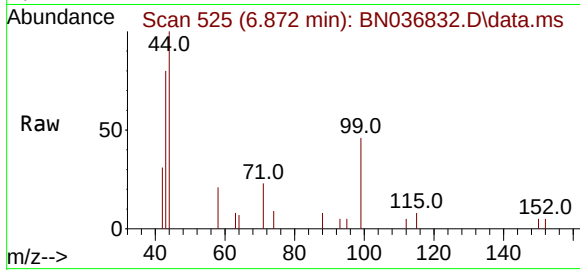




#5
Phenol-d6
Concen: 0.168 ng
RT: 6.872 min Scan# 51
Delta R.T. -0.029 min
Lab File: BN036832.D
Acq: 03 Apr 2025 20:51

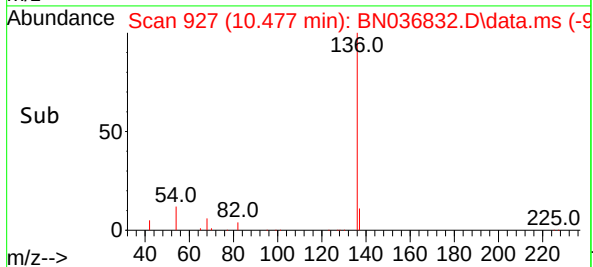
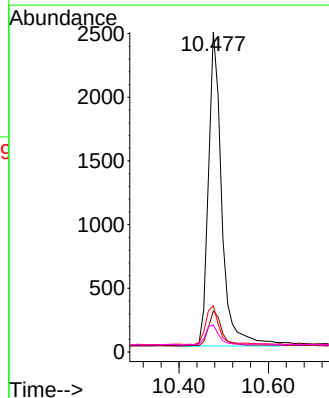
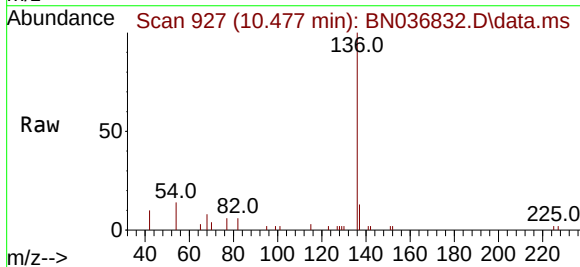
Instrument :
BNA_N
ClientSampleId :
EB01-040225

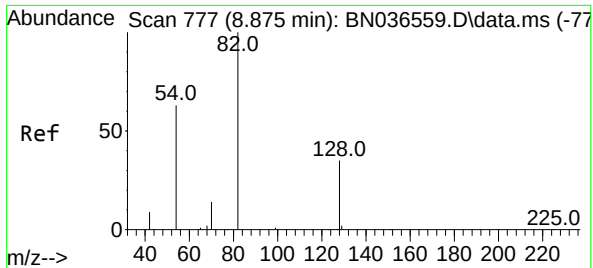
Tgt Ion: 99 Resp: 1025
Ion Ratio Lower Upper
99 100
42 43.0 26.5 39.7#
71 49.7 34.1 51.1



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.477 min Scan# 927
Delta R.T. -0.032 min
Lab File: BN036832.D
Acq: 03 Apr 2025 20:51

Tgt Ion: 136 Resp: 5120
Ion Ratio Lower Upper
136 100
137 12.8 10.3 15.5
54 14.5 11.5 17.3
68 8.4 7.0 10.4

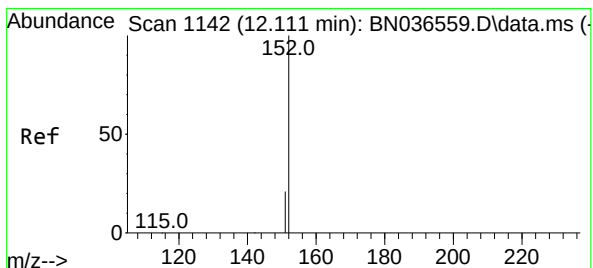
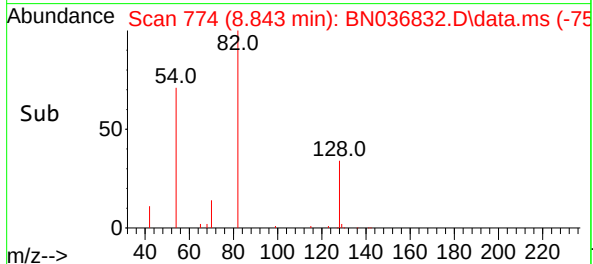
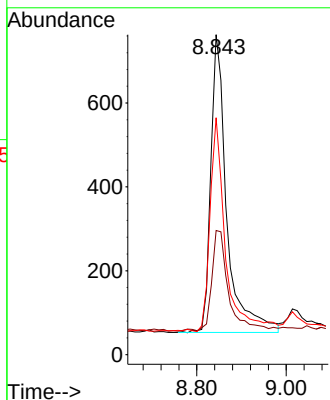
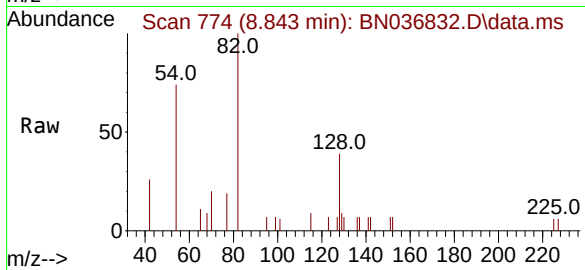




#8
Nitrobenzene-d5
Concen: 0.317 ng
RT: 8.843 min Scan# 71
Delta R.T. -0.032 min
Lab File: BN036832.D
Acq: 03 Apr 2025 20:51

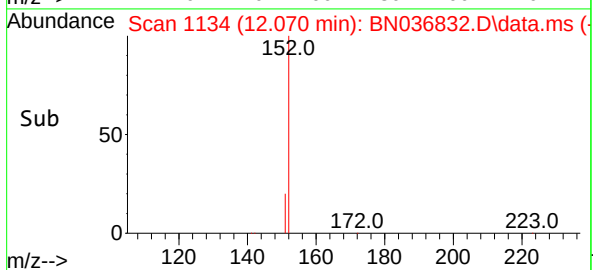
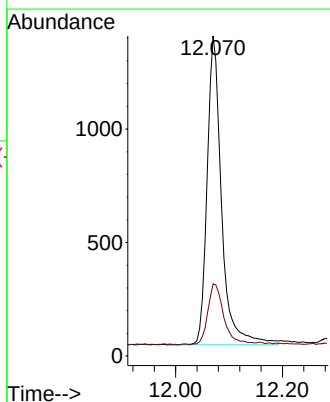
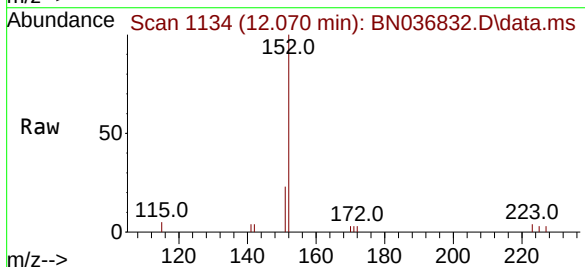
Instrument :
BNA_N
ClientSampleId :
EB01-040225

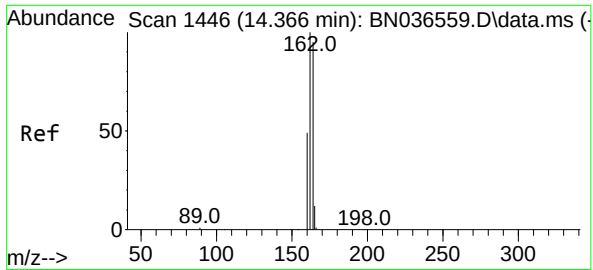
Tgt Ion: 82 Resp: 1765
Ion Ratio Lower Upper
82 100
128 38.8 30.6 45.8
54 74.0 52.2 78.4



#11
2-Methylnaphthalene-d10
Concen: 0.336 ng
RT: 12.070 min Scan# 1134
Delta R.T. -0.041 min
Lab File: BN036832.D
Acq: 03 Apr 2025 20:51

Tgt Ion: 152 Resp: 2562
Ion Ratio Lower Upper
152 100
151 21.9 17.0 25.6

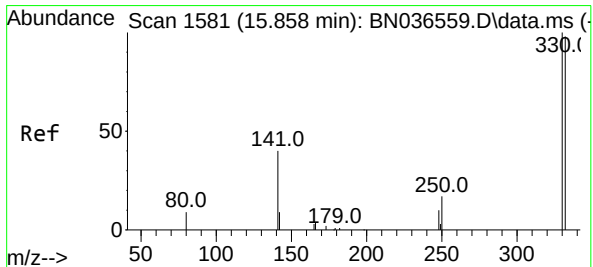
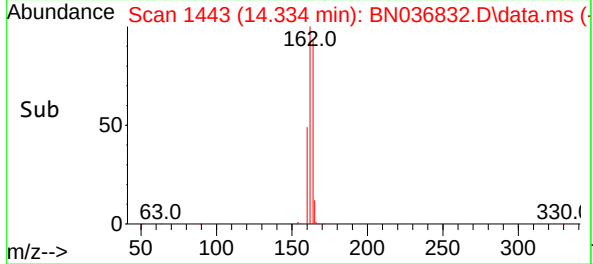
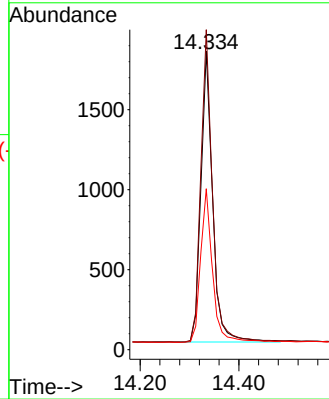
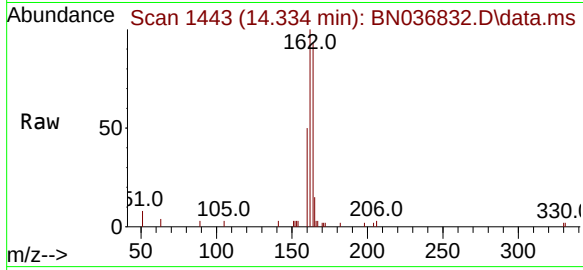




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 1443
Delta R.T. -0.032 min
Lab File: BN036832.D
Acq: 03 Apr 2025 20:51

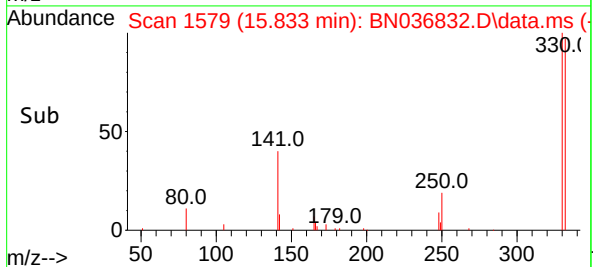
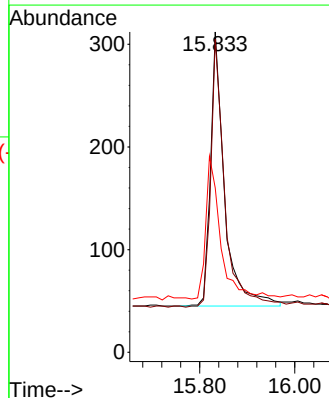
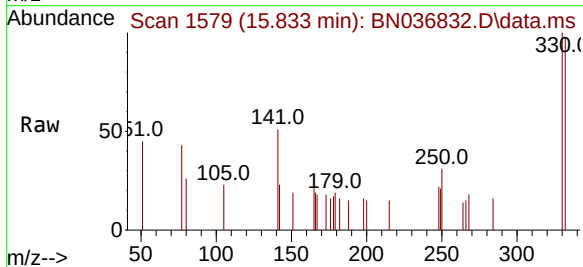
Instrument :
BNA_N
ClientSampleId :
EB01-040225

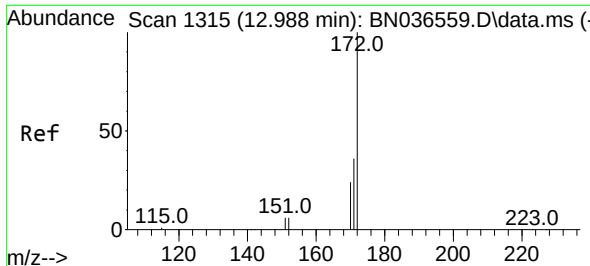
Tgt Ion:164 Resp: 3000
Ion Ratio Lower Upper
164 100
162 107.2 84.2 126.2
160 53.9 42.2 63.2



#14
2,4,6-Tribromophenol
Concen: 0.403 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036832.D
Acq: 03 Apr 2025 20:51

Tgt Ion:330 Resp: 549
Ion Ratio Lower Upper
330 100
332 96.5 75.2 112.8
141 55.6 43.4 65.2

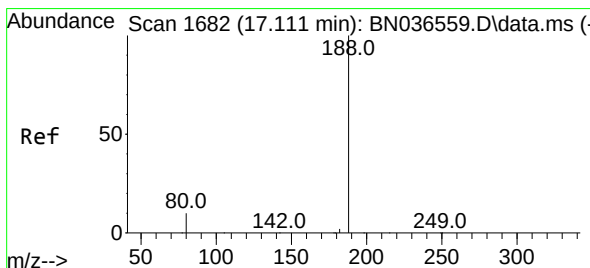
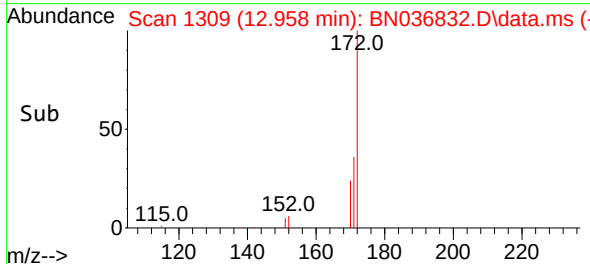
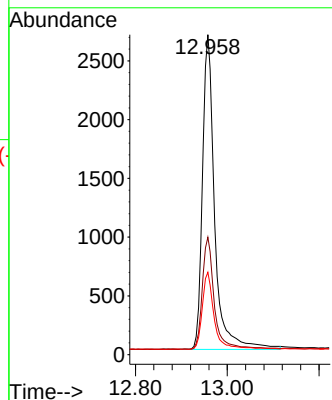
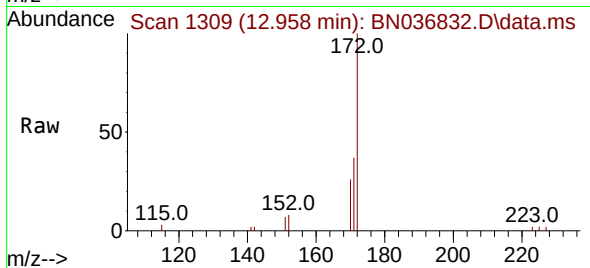




#15
2-Fluorobiphenyl
Concen: 0.370 ng
RT: 12.958 min Scan# 11
Delta R.T. -0.030 min
Lab File: BN036832.D
Acq: 03 Apr 2025 20:51

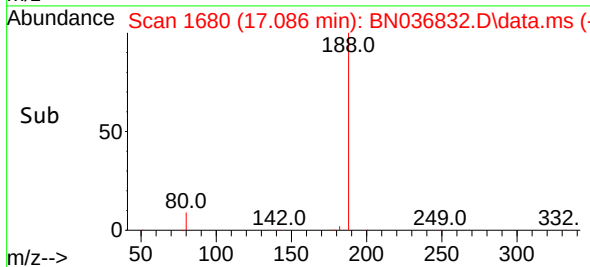
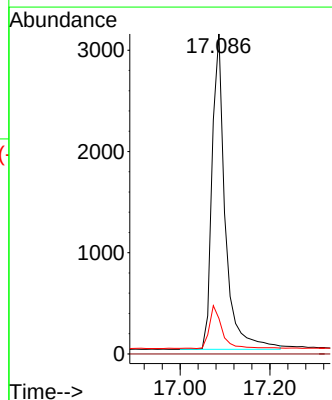
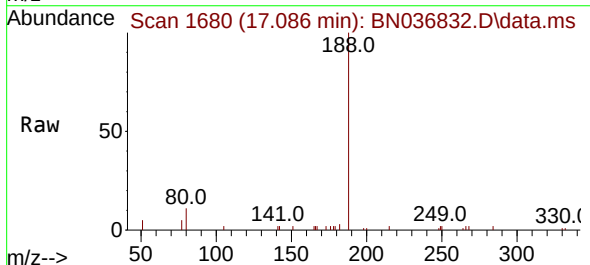
Instrument :
BNA_N
ClientSampleId :
EB01-040225

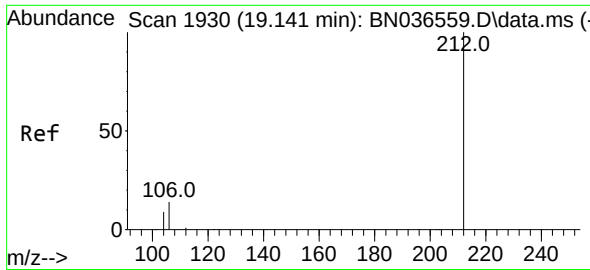
Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.7	29.5	44.3
170	25.7	20.2	30.4



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1680
Delta R.T. -0.025 min
Lab File: BN036832.D
Acq: 03 Apr 2025 20:51

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





#27

Fluoranthene-d10

Concen: 0.437 ng

RT: 19.113 min Scan# 19

Delta R.T. -0.028 min

Lab File: BN036832.D

Acq: 03 Apr 2025 20:51

Instrument :

BNA_N

ClientSampleId :

EB01-040225

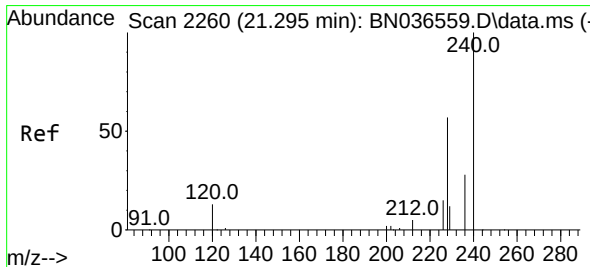
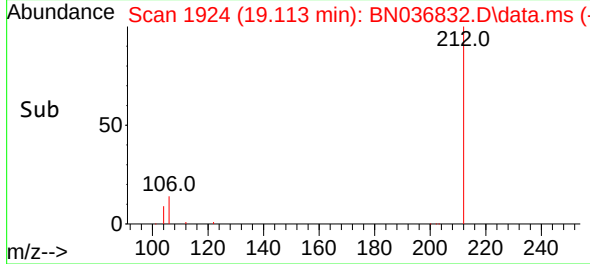
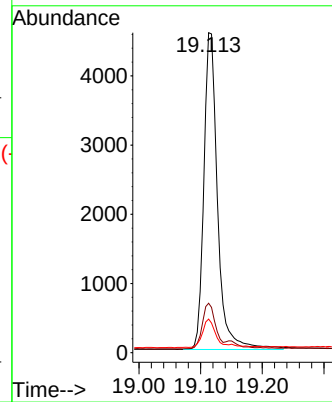
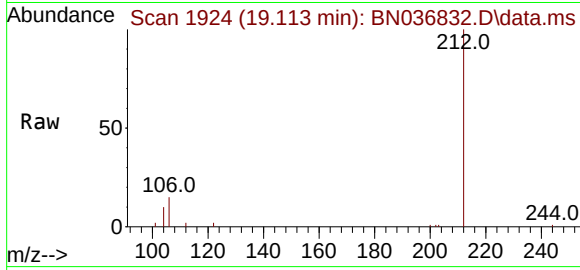
Tgt Ion:212 Resp: 7078

Ion Ratio Lower Upper

212 100

106 14.1 11.8 17.6

104 9.5 7.3 10.9



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.268 min Scan# 2257

Delta R.T. -0.027 min

Lab File: BN036832.D

Acq: 03 Apr 2025 20:51

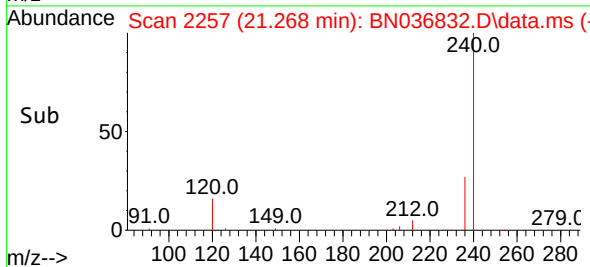
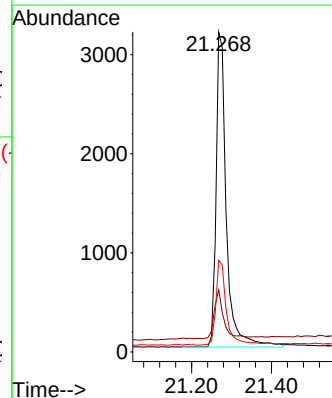
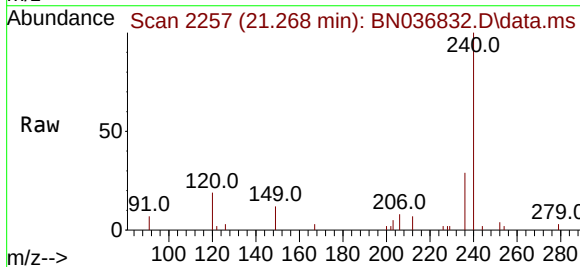
Tgt Ion:240 Resp: 5671

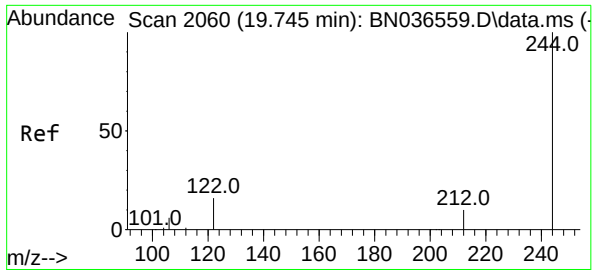
Ion Ratio Lower Upper

240 100

120 19.4 14.6 22.0

236 28.6 24.1 36.1

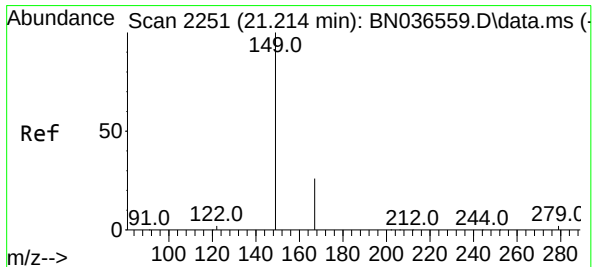
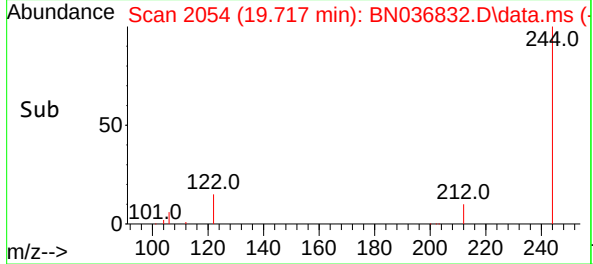
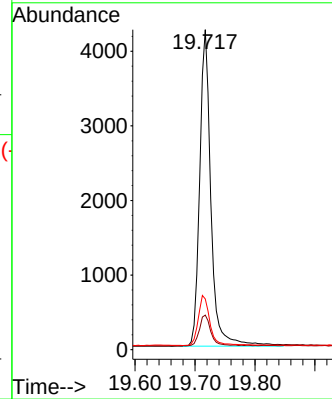
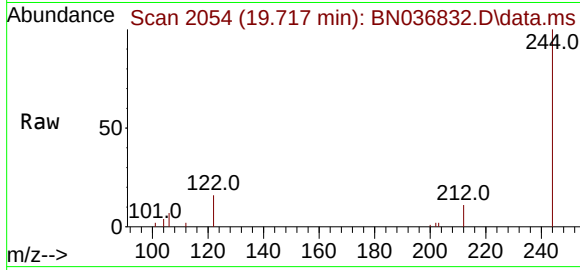




#31
Terphenyl-d14
Concen: 0.408 ng
RT: 19.717 min Scan# 2060
Delta R.T. -0.028 min
Lab File: BN036832.D
Acq: 03 Apr 2025 20:51

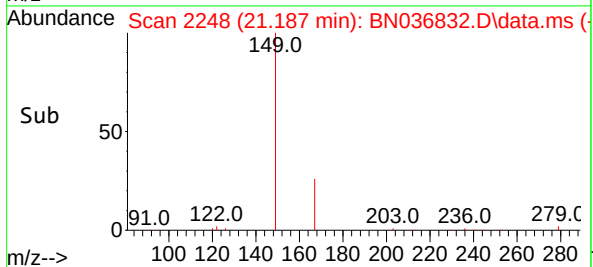
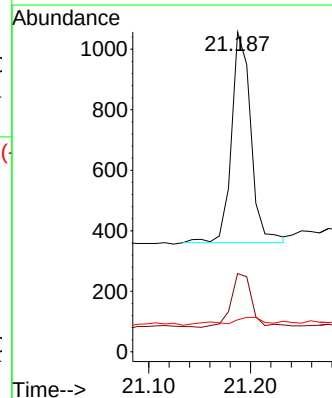
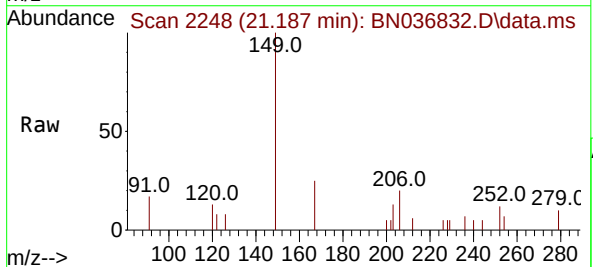
Instrument :
BNA_N
ClientSampleId :
EB01-040225

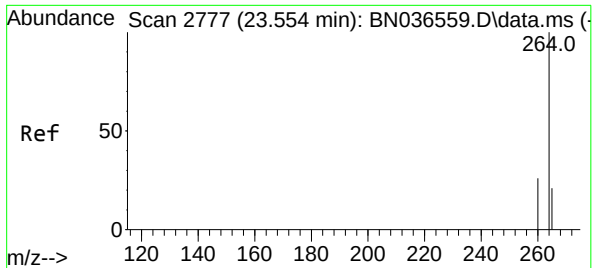
Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.8	9.6	14.4
122	15.9	13.9	20.9



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.066 ng
RT: 21.187 min Scan# 2248
Delta R.T. -0.027 min
Lab File: BN036832.D
Acq: 03 Apr 2025 20:51

Tgt Ion	Ratio	Lower	Upper
149	100		
167	27.9	20.7	31.1
279	3.7	3.6	5.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.513 min Scan# 21

Delta R.T. -0.041 min

Lab File: BN036832.D

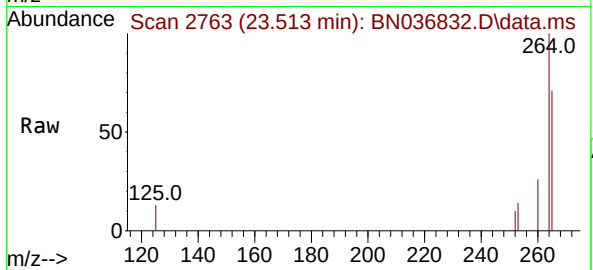
Acq: 03 Apr 2025 20:51

Instrument :

BNA_N

ClientSampleId :

EB01-040225



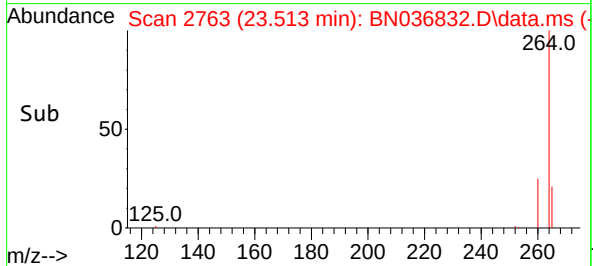
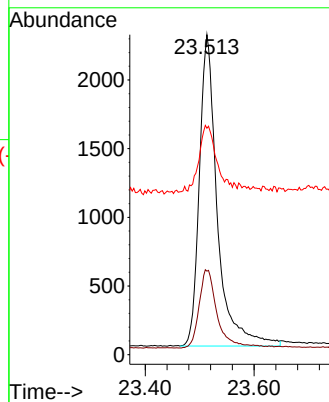
Tgt Ion:264 Resp: 5195

Ion Ratio Lower Upper

264 100

260 26.1 22.6 33.8

265 70.8 88.1 132.1#





CALIBRATION SUMMARY

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

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

Calibration Files

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

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

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

Method File : 8270-SIM-BN031025.M

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

(#) = Out of Range

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

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/11/2025

Supervised By :Jagrut Upadhyay 03/11/2025

Quant Time: Mar 10 16:00:30 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Mon Mar 10 15:54:23 2025

Response via : Initial Calibration

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

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

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

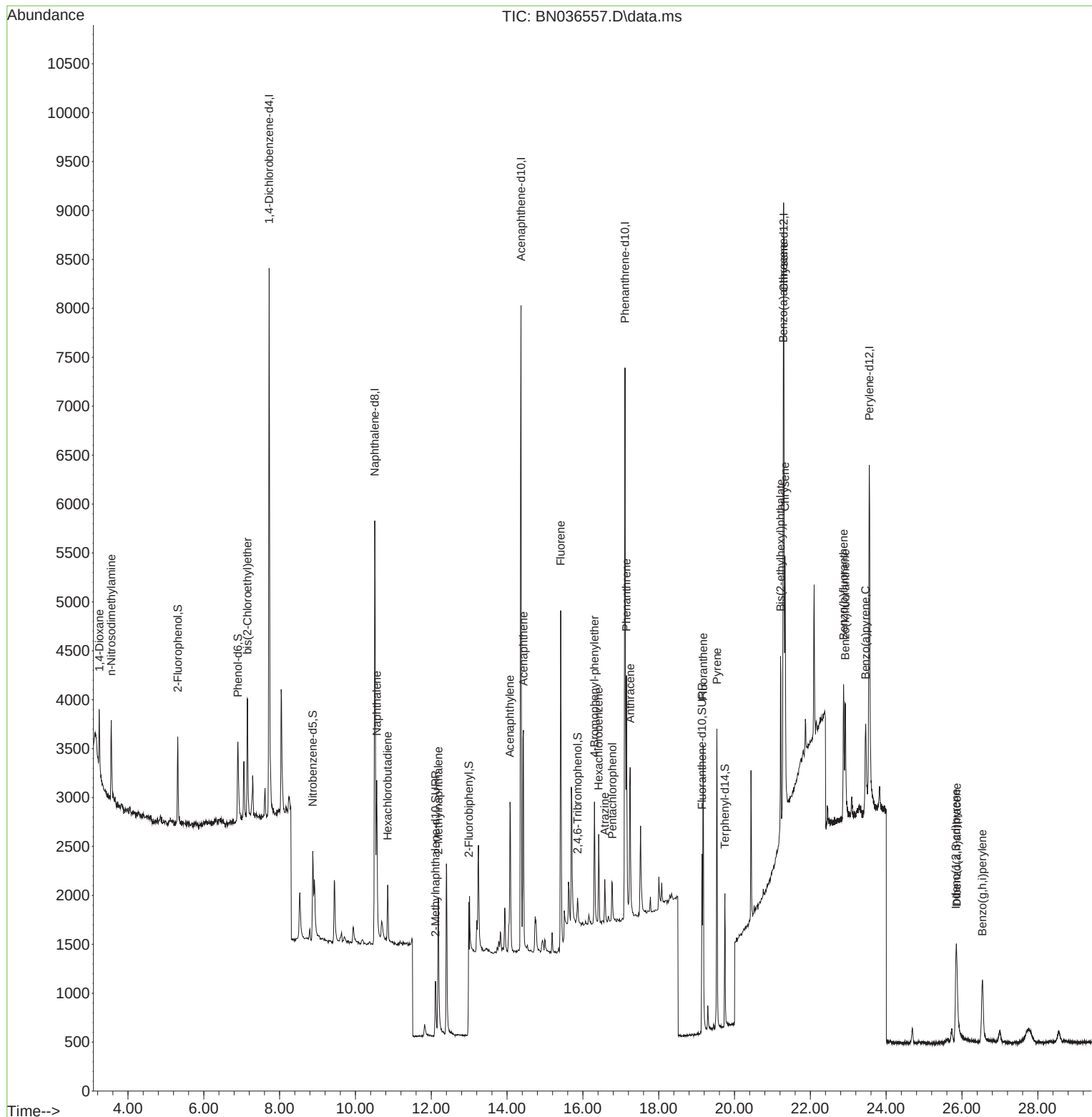
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036557.D
Acq On : 10 Mar 2025 11:42
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

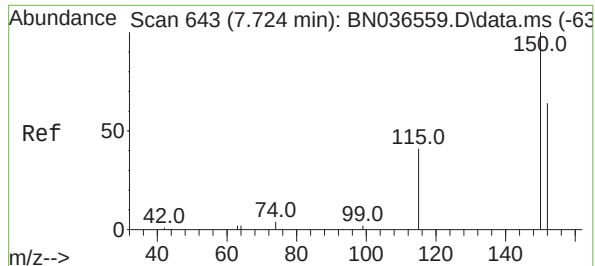
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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

Manual Integrations
APPROVED

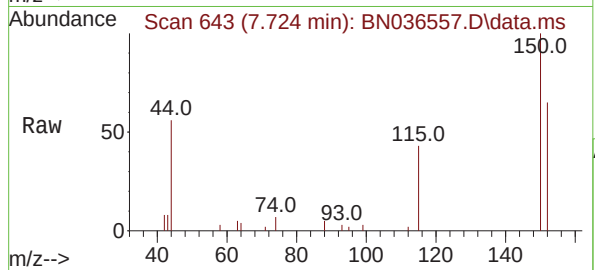
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025





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

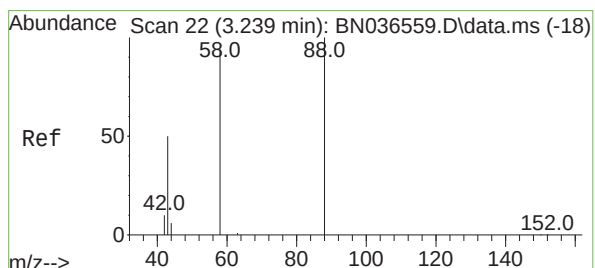
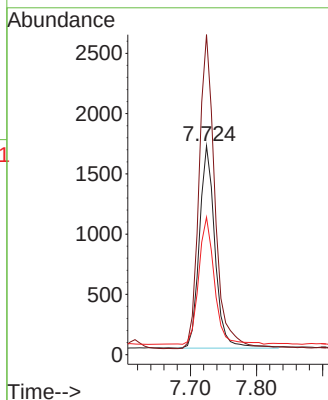
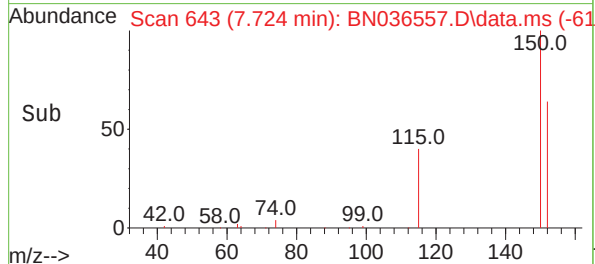
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



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

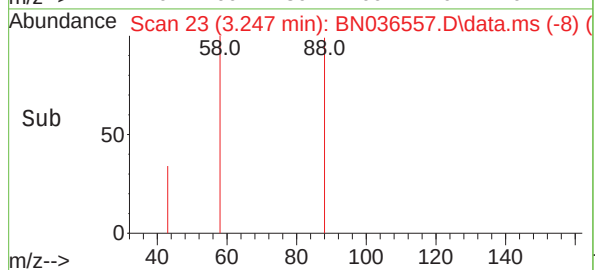
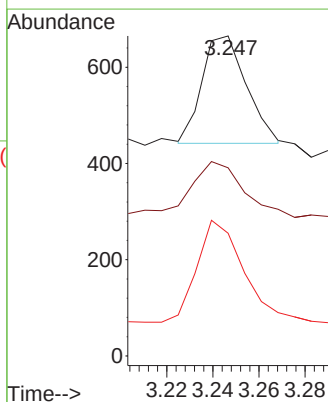
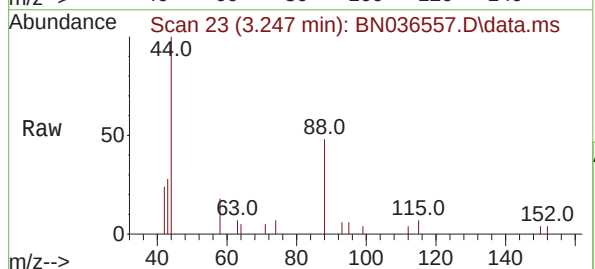
Manual Integrations
APPROVED

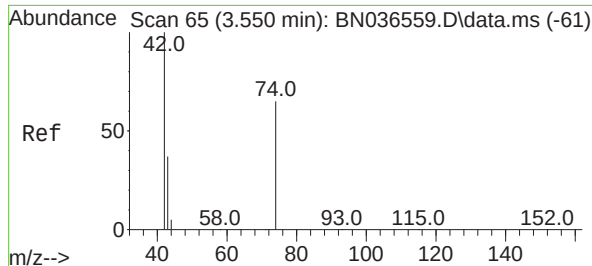
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



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

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





#3

n-Nitrosodimethylamine

Concen: 0.124 ng

RT: 3.557 min Scan# 6

Delta R.T. 0.007 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Instrument :

BNA_N

ClientSampleId :

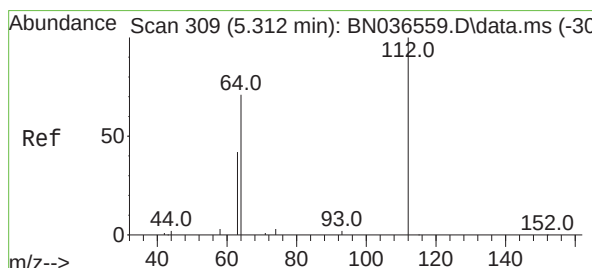
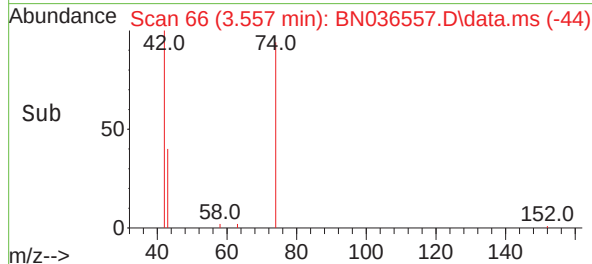
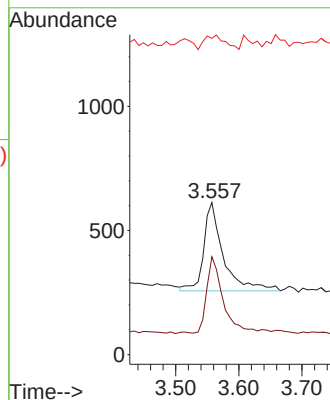
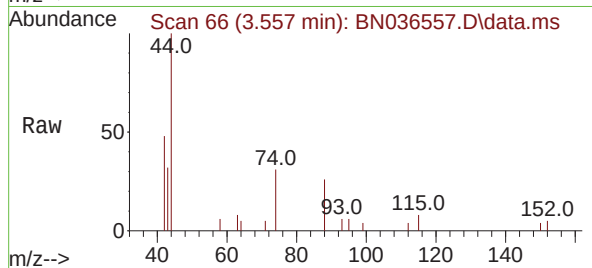
SSTDICC0.1

Tgt Ion: 42 Resp: 760
Ion Ratio Lower Upper
42 100
74 73.0 60.6 90.8
44 16.6 6.3 9.5

Manual Integrations

APPROVED

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



#4

2-Fluorophenol

Concen: 0.100 ng

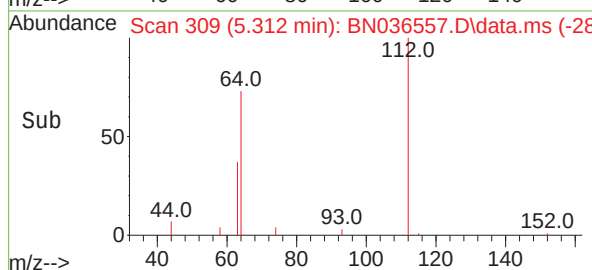
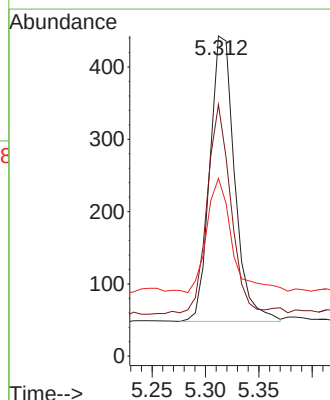
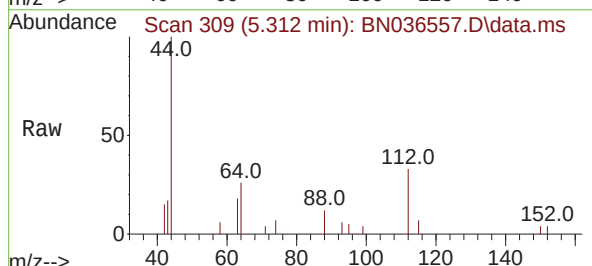
RT: 5.312 min Scan# 309

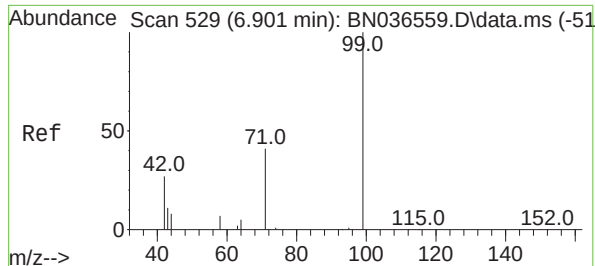
Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

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





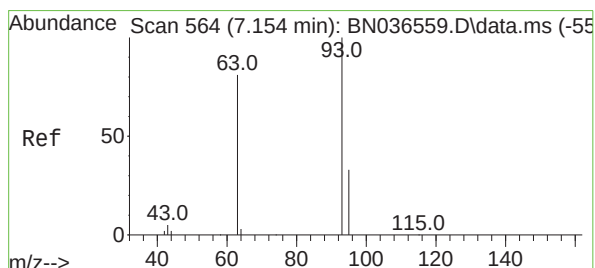
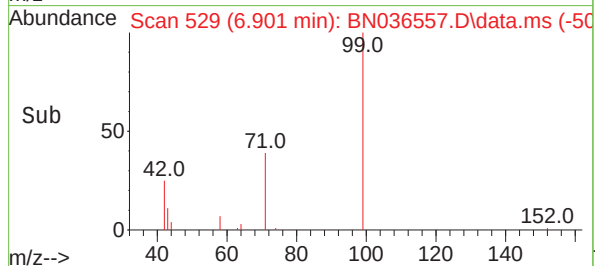
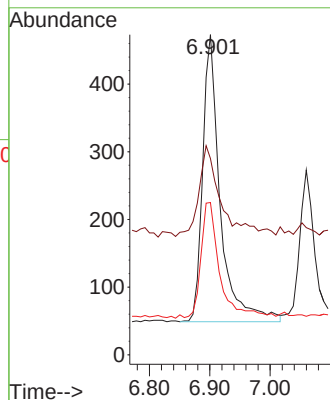
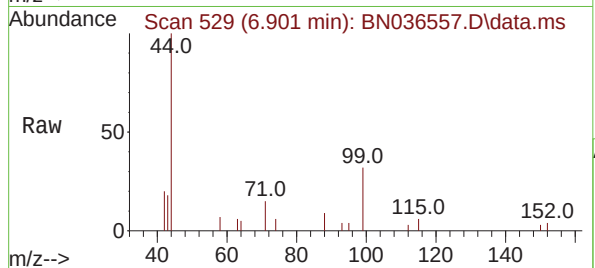
#5
Phenol-d6
Concen: 0.108 ng
RT: 6.901 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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

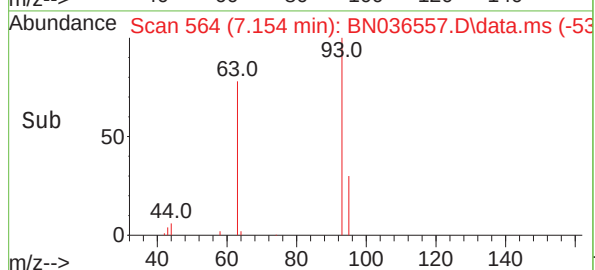
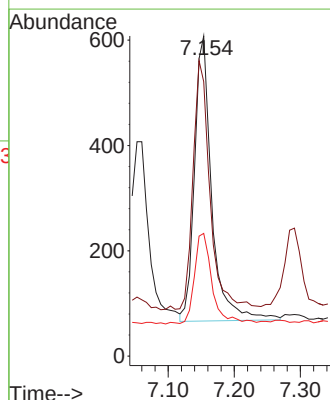
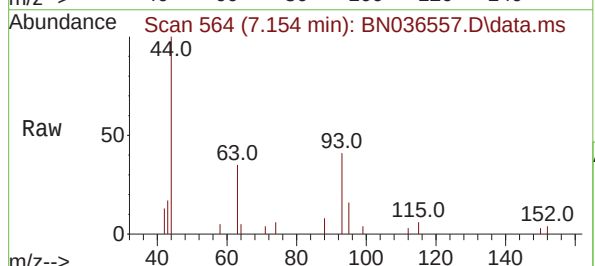
Manual Integrations
APPROVED

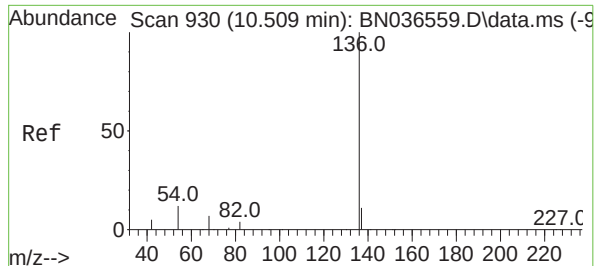
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



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

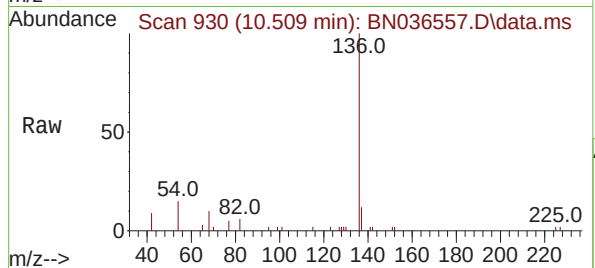
Tgt Ion: 93 Resp: 982
Ion Ratio Lower Upper
93 100
63 86.7 67.7 101.5
95 33.0 25.6 38.4





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

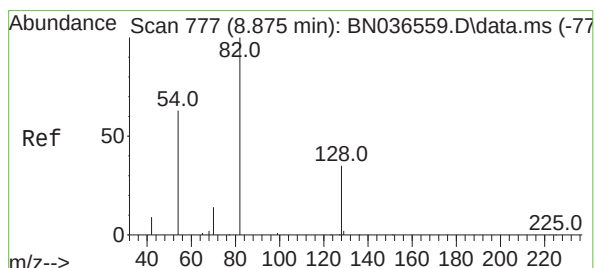
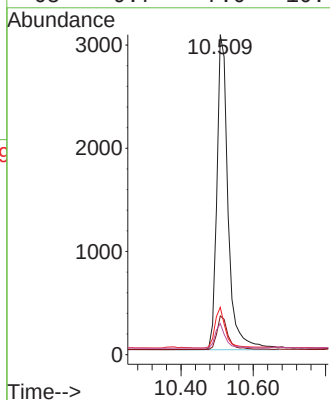
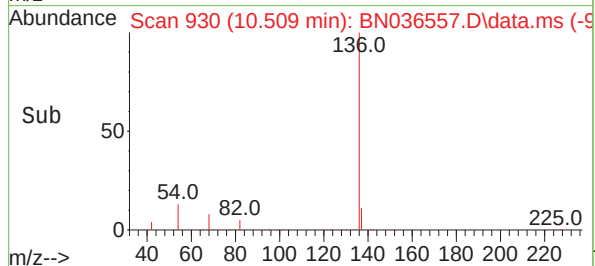
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion: 136 Resp: 6579
Ion Ratio Lower Upper
136 100
137 12.1 10.3 15.5
54 14.8 11.5 17.3
68 9.7 7.0 10.4

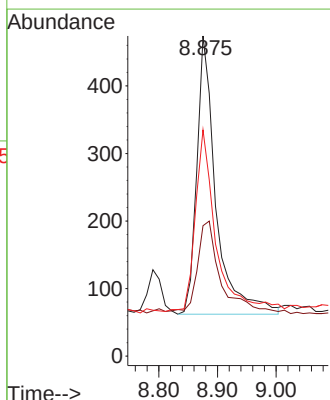
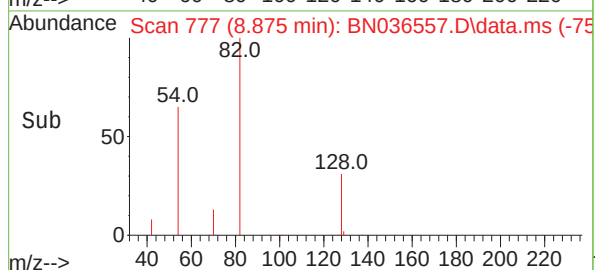
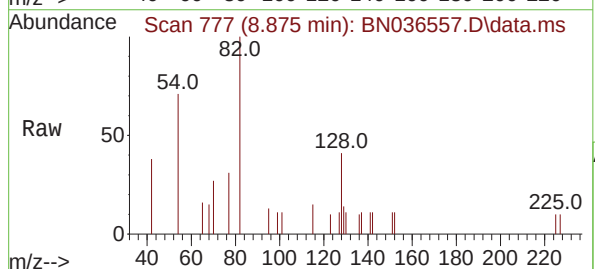
Manual Integrations
APPROVED

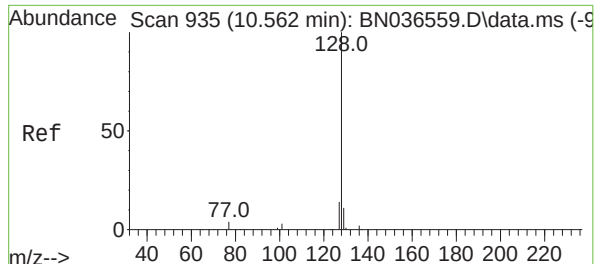
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



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

Tgt Ion: 82 Resp: 940
Ion Ratio Lower Upper
82 100
128 40.7 30.6 45.8
54 70.7 52.2 78.4





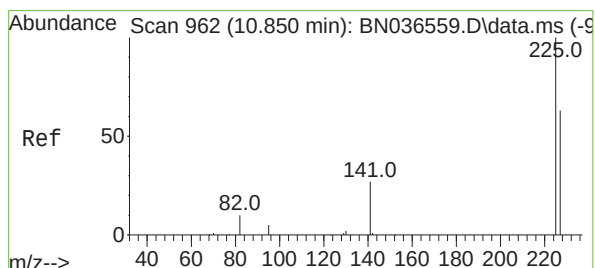
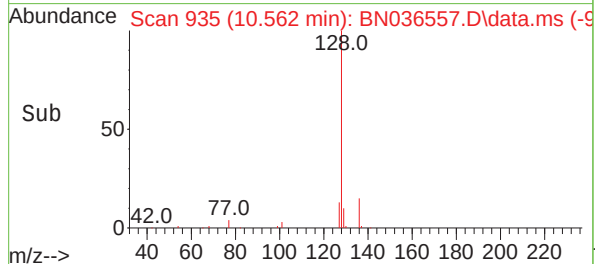
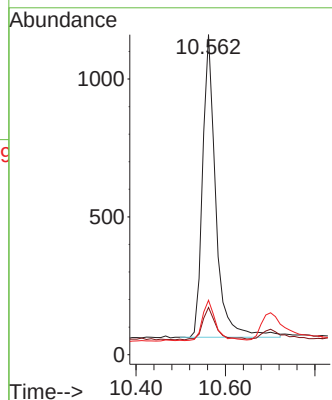
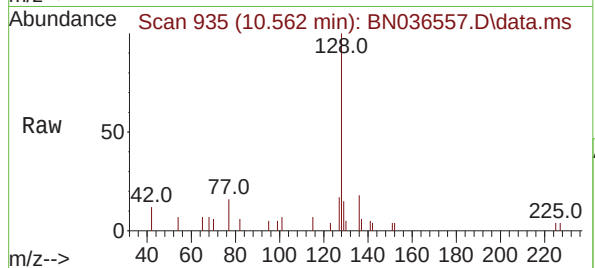
#9
Naphthalene
Concen: 0.117 ng
RT: 10.562 min Scan# 935
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:128 Resp: 225
Ion Ratio Lower Upper
128 100
129 14.7 9.8 14.6
127 17.0 11.8 17.8

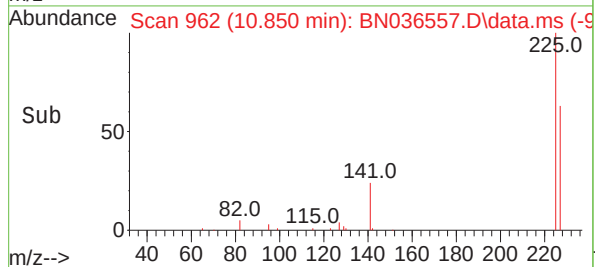
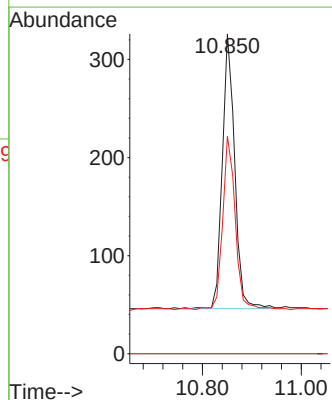
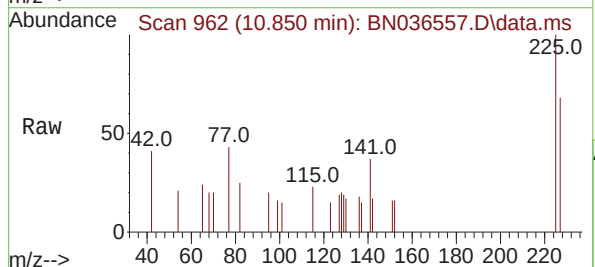
Manual Integrations
APPROVED

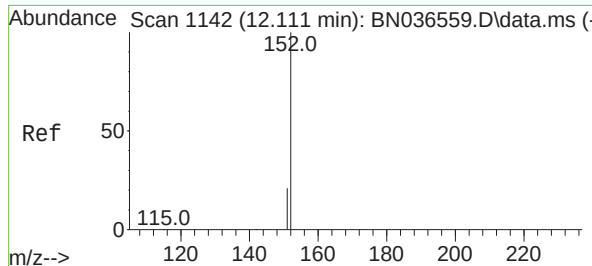
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#10
Hexachlorobutadiene
Concen: 0.107 ng
RT: 10.850 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

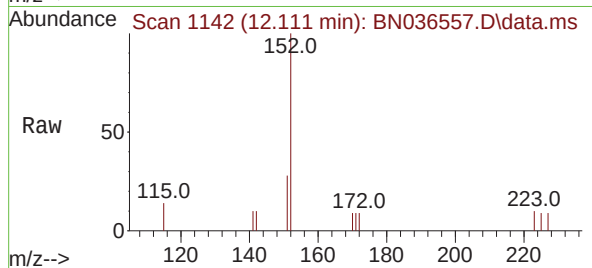
Tgt Ion:225 Resp: 486
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.8 51.8 77.8





#11
2-Methylnaphthalene-d10
Concen: 0.110 ng
RT: 12.111 min Scan# 1142
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

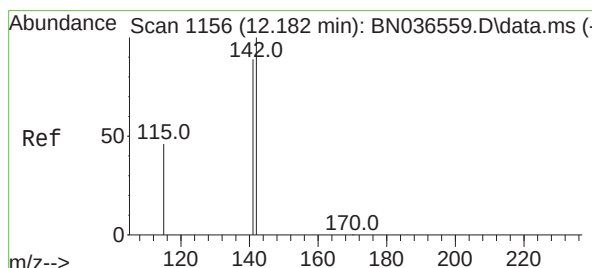
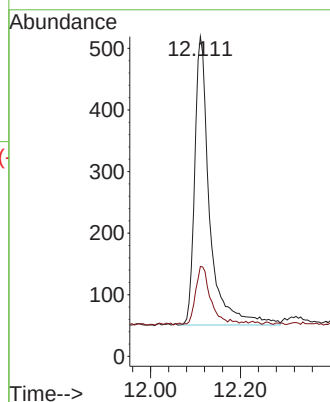
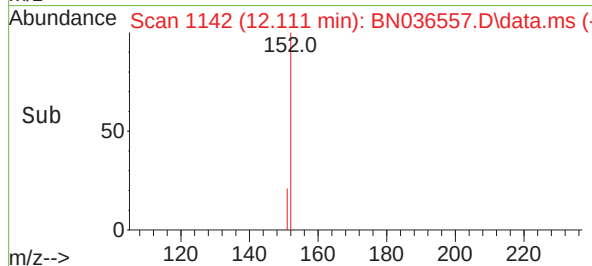
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:152 Resp: 1079
Ion Ratio Lower Upper
152 100
151 19.5 17.0 25.6

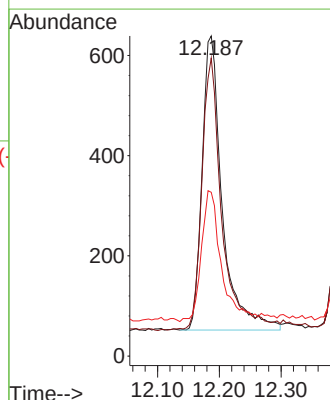
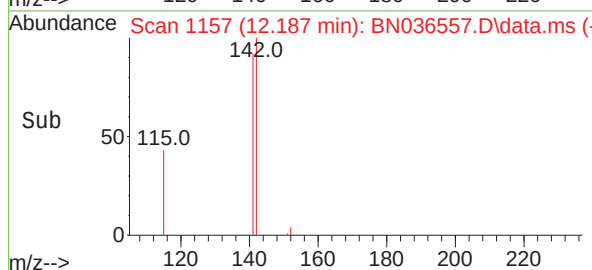
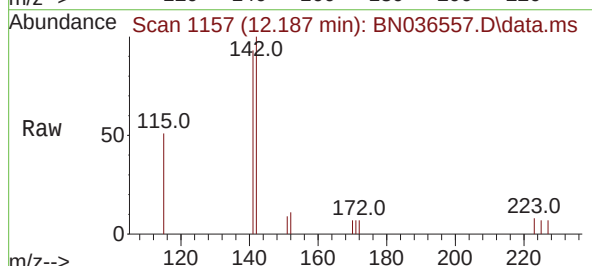
Manual Integrations
APPROVED

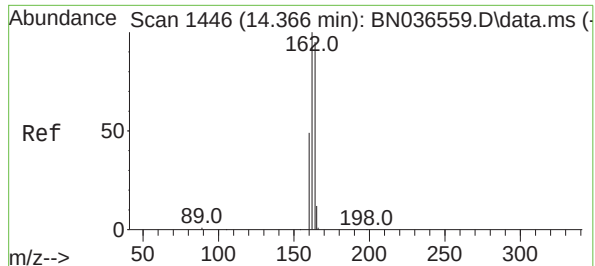
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#12
2-Methylnaphthalene
Concen: 0.108 ng
RT: 12.187 min Scan# 1157
Delta R.T. 0.005 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

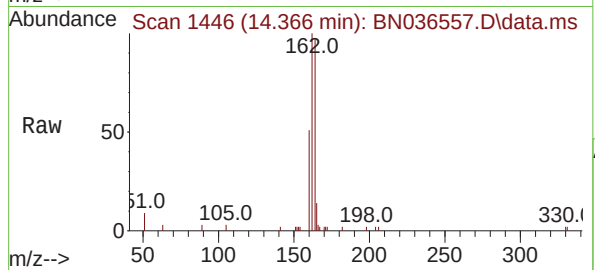
Tgt Ion:142 Resp: 1331
Ion Ratio Lower Upper
142 100
141 93.1 71.7 107.5
115 51.2 38.3 57.5





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

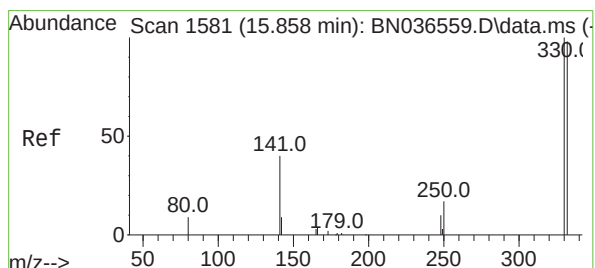
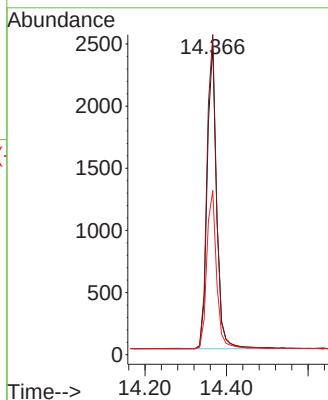
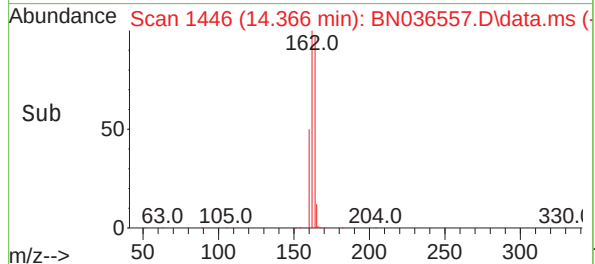
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:164 Resp: 395
Ion Ratio Lower Upper
164 100
162 103.3 84.2 126.2
160 53.0 42.2 63.2

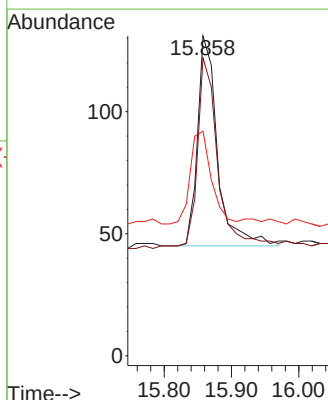
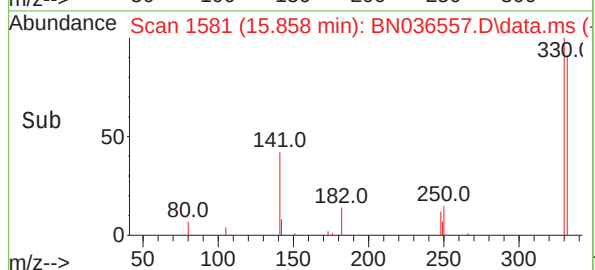
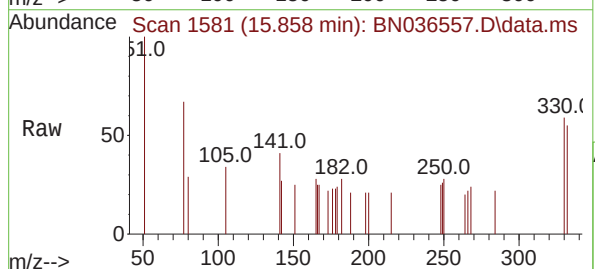
Manual Integrations
APPROVED

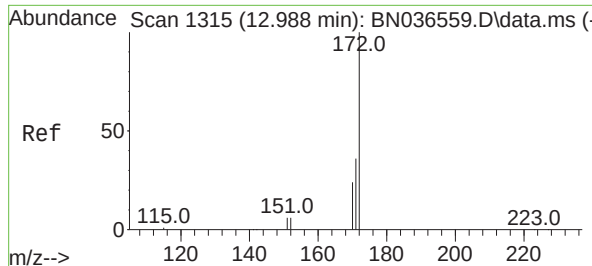
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#14
2,4,6-Tribromophenol
Concen: 0.100 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:330 Resp: 179
Ion Ratio Lower Upper
330 100
332 96.1 75.2 112.8
141 46.4 43.4 65.2





#15

2-Fluorobiphenyl

Concen: 0.095 ng

RT: 12.993 min Scan# 1419

Delta R.T. 0.005 min

Lab File: BN036557.D

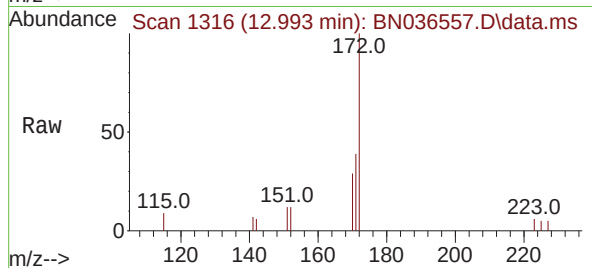
Acq: 10 Mar 2025 11:42

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1



Tgt Ion:172 Resp: 218

Ion Ratio Lower Upper

172 100

171 38.9 29.5 44.3

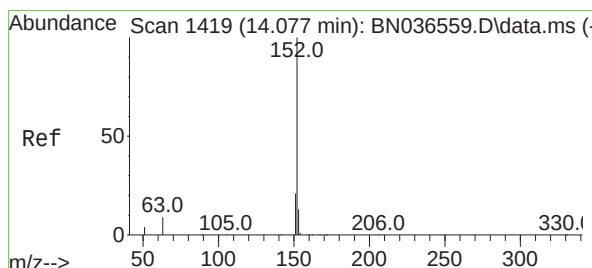
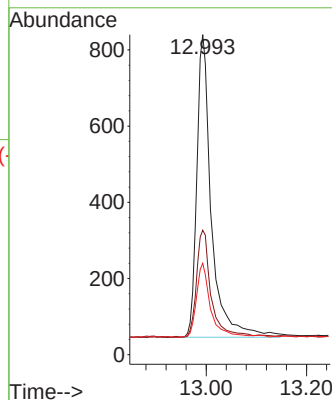
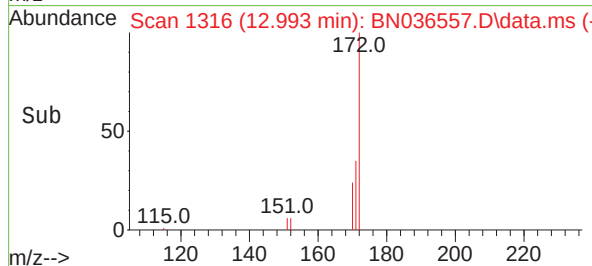
170 28.6 20.2 30.4

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/11/2025

Supervised By :Jagrut Upadhyay 03/11/2025



#16

Acenaphthylene

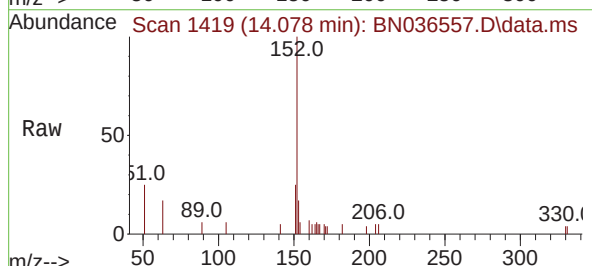
Concen: 0.100 ng

RT: 14.078 min Scan# 1419

Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42



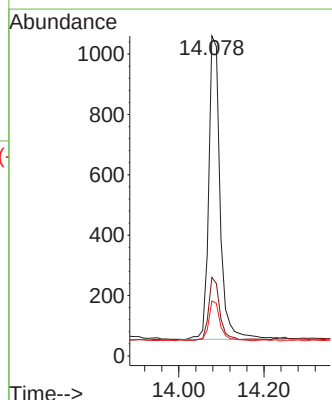
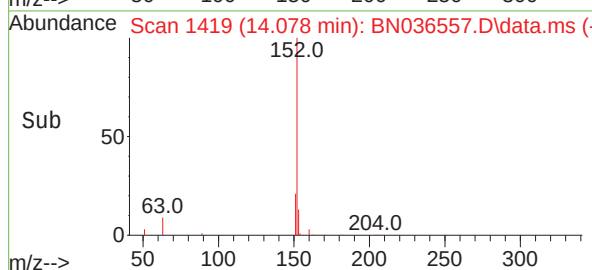
Tgt Ion:152 Resp: 1862

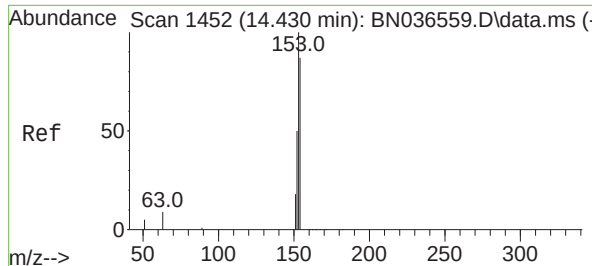
Ion Ratio Lower Upper

152 100

151 20.2 16.2 24.4

153 14.1 10.6 15.8





#17

Acenaphthene

Concen: 0.102 ng

RT: 14.430 min Scan# 1452

Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Instrument :

BNA_N

ClientSampleId :

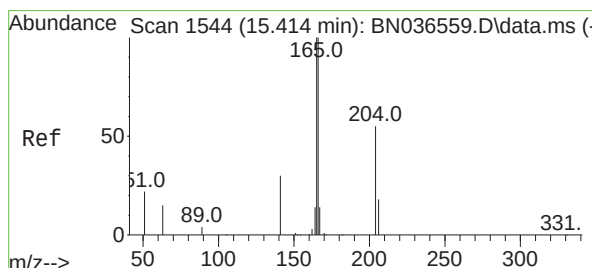
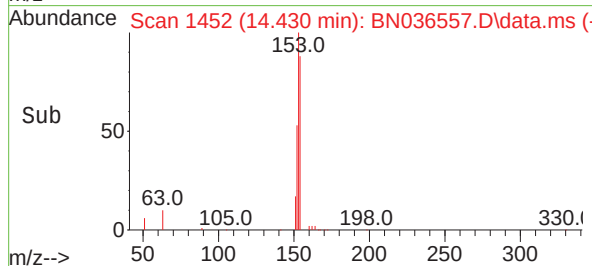
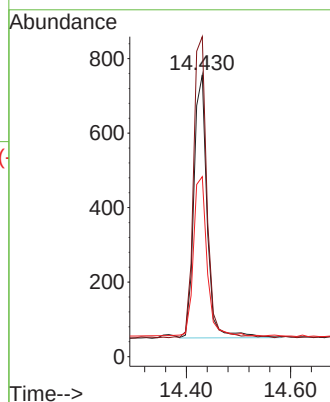
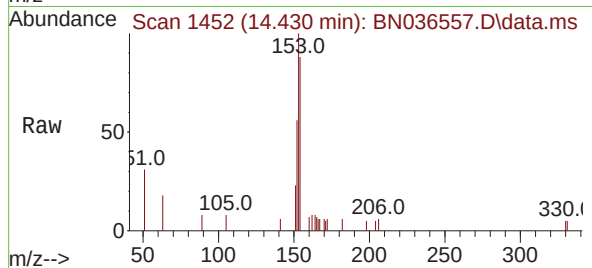
SSTDICC0.1

Tgt Ion:154	Resp:	124
Ion Ratio	Lower	Upper
154	100	
153	115.9	94.1 141.1
152	62.5	49.8 74.6

Manual Integrations

APPROVED

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



#18

Fluorene

Concen: 0.097 ng

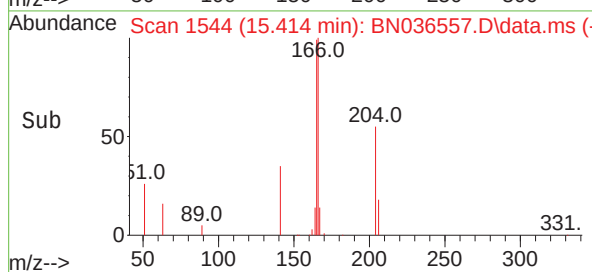
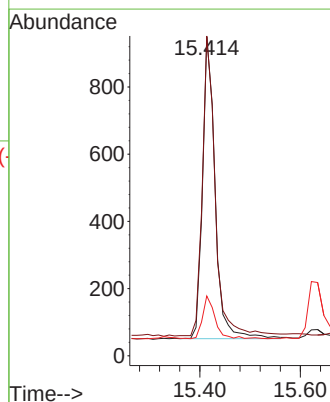
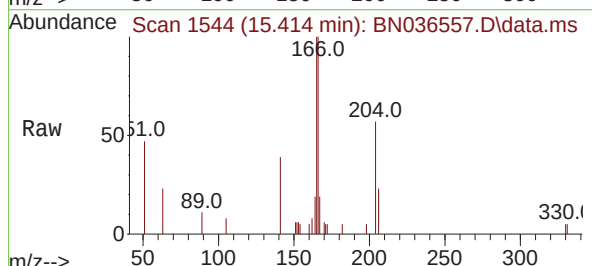
RT: 15.414 min Scan# 1544

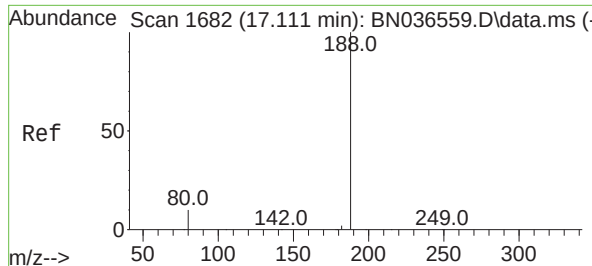
Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Tgt Ion:166	Resp:	1612
Ion Ratio	Lower	Upper
166	100	
165	100.9	79.8 119.8
167	13.9	10.6 15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.111 min Scan# 1682

Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

Tgt Ion:188 Resp: 826

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

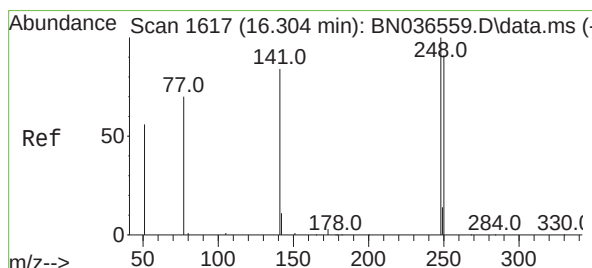
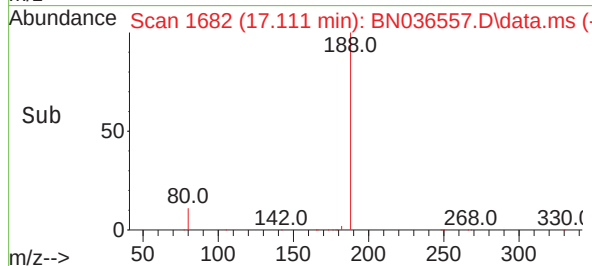
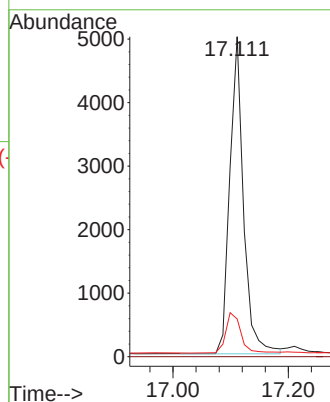
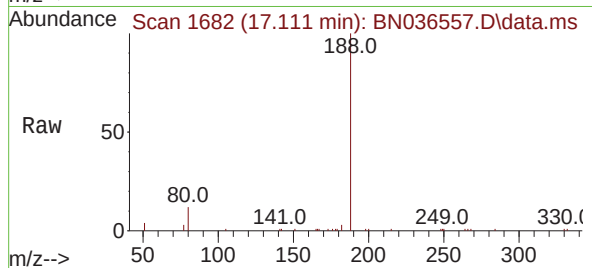
80 11.8 8.8 13.2

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/11/2025

Supervised By :Jagrut Upadhyay 03/11/2025



#21

4-Bromophenyl-phenylether

Concen: 0.097 ng

RT: 16.304 min Scan# 1617

Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

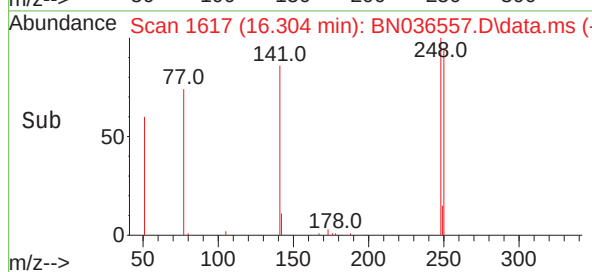
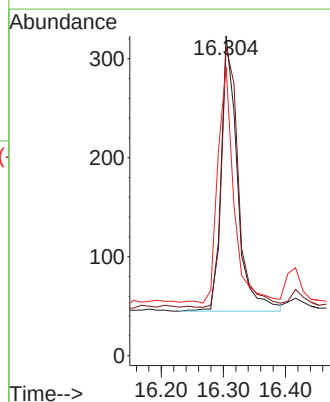
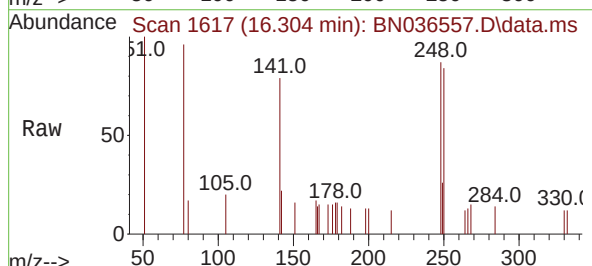
Tgt Ion:248 Resp: 502

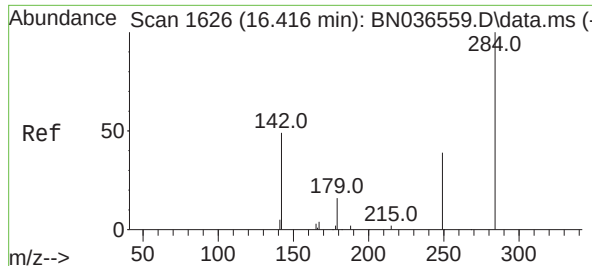
Ion Ratio Lower Upper

248 100

250 96.6 73.0 109.6

141 90.4 68.6 103.0





#22

Hexachlorobenzene

Concen: 0.101 ng

RT: 16.416 min Scan# 1626

Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Instrument :

BNA_N

ClientSampleId :

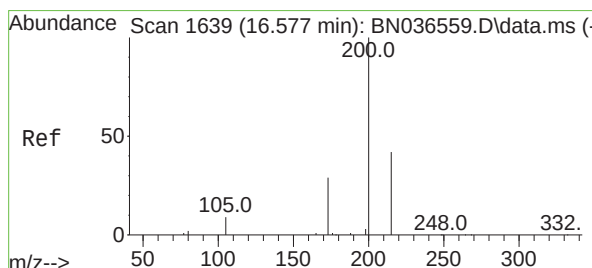
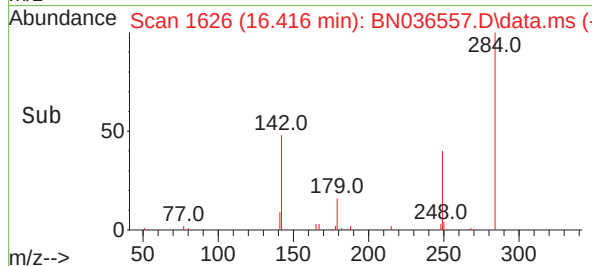
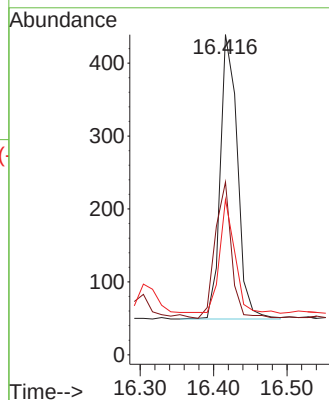
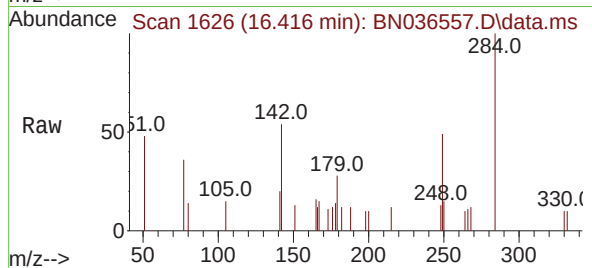
SSTDICC0.1

Tgt Ion	Ratio	Lower	Upper
284	100		
142	45.7	37.0	55.4
249	37.2	28.1	42.1

Manual Integrations

APPROVED

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



#23

Atrazine

Concen: 0.096 ng

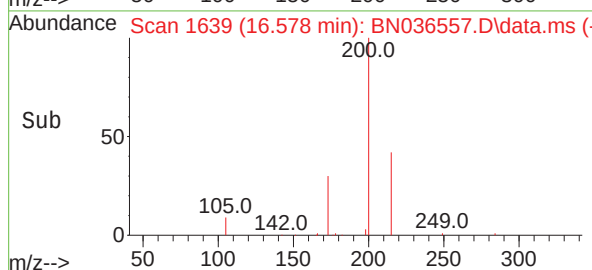
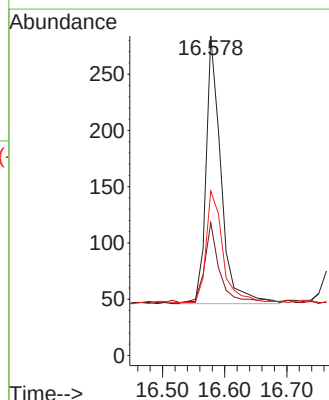
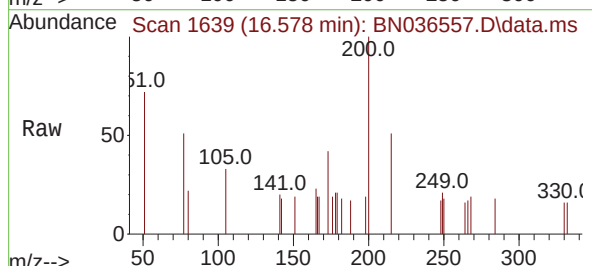
RT: 16.578 min Scan# 1639

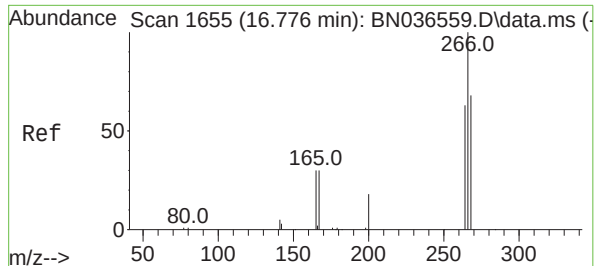
Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Tgt Ion	Ratio	Lower	Upper
200	100		
173	41.5	27.3	40.9#
215	51.4	36.8	55.2





#24

Pentachlorophenol

Concen: 0.102 ng

RT: 16.776 min Scan# 1655

Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Instrument :

BNA_N

ClientSampleId :

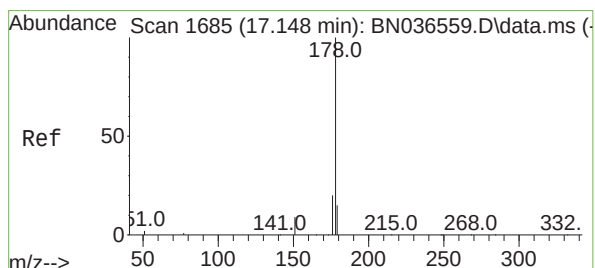
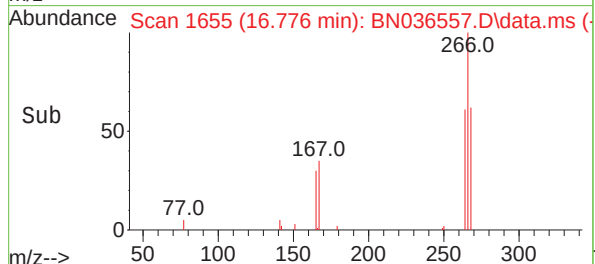
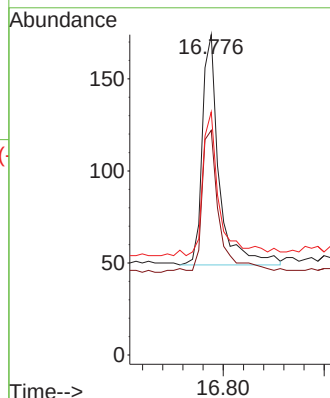
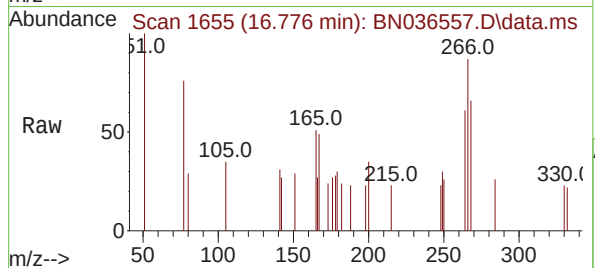
SSTDICC0.1

Tgt Ion:	266	Resp:	290
Ion Ratio	Lower	Upper	
266	100		
264	64.8	49.6	74.4
268	62.8	50.9	76.3

Manual Integrations

APPROVED

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



#25

Phenanthrene

Concen: 0.099 ng

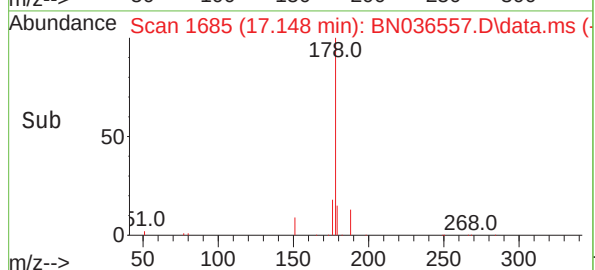
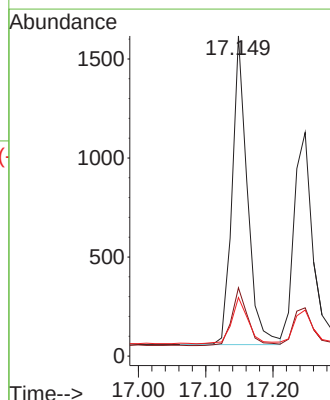
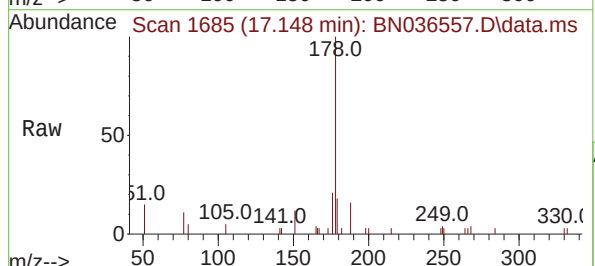
RT: 17.148 min Scan# 1685

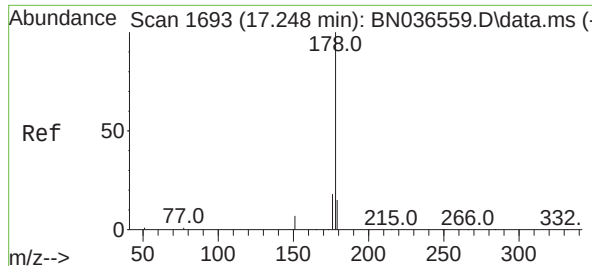
Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Tgt Ion:	178	Resp:	2459
Ion Ratio	Lower	Upper	
178	100		
176	19.6	15.9	23.9
179	16.1	12.2	18.4





#26

Anthracene

Concen: 0.095 ng

RT: 17.248 min Scan# 1693

Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Instrument :

BNA_N

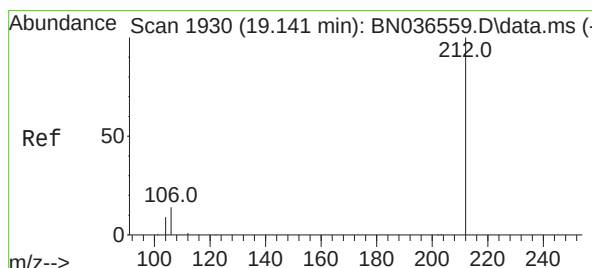
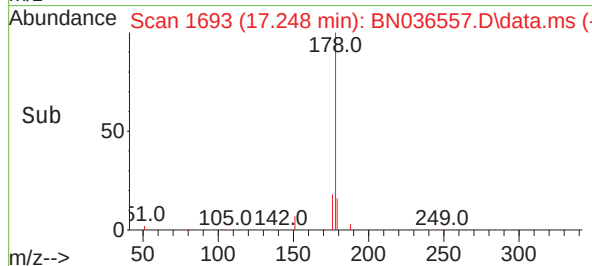
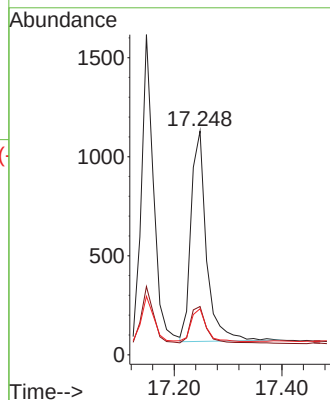
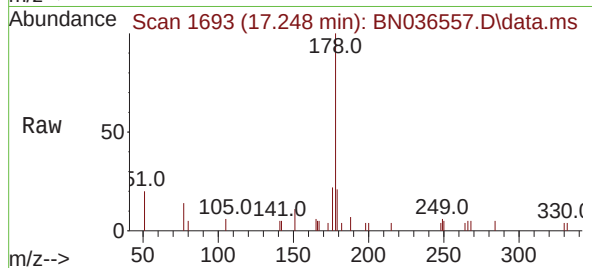
ClientSampleId :

SSTDIC0.1

Tgt Ion:	178	Resp:	212
Ion Ratio	Lower	Upper	
178	100		
176	19.3	15.4	23.2
179	15.7	12.6	18.8

Manual Integrations
APPROVED

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



#27

Fluoranthene-d10

Concen: 0.101 ng

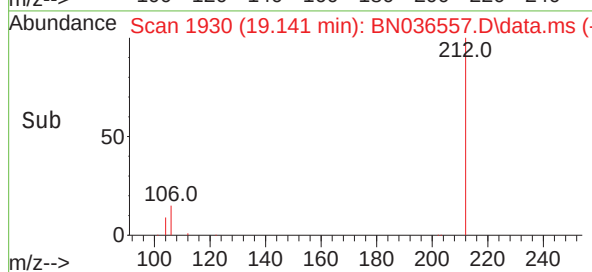
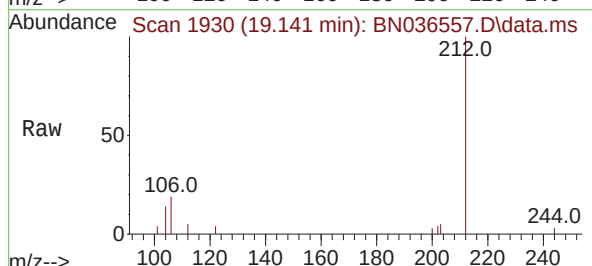
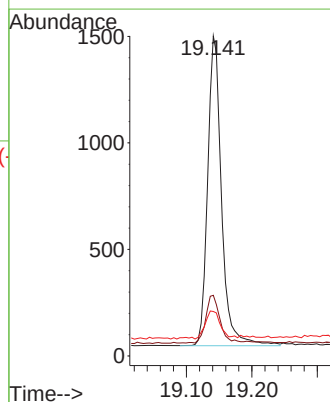
RT: 19.141 min Scan# 1930

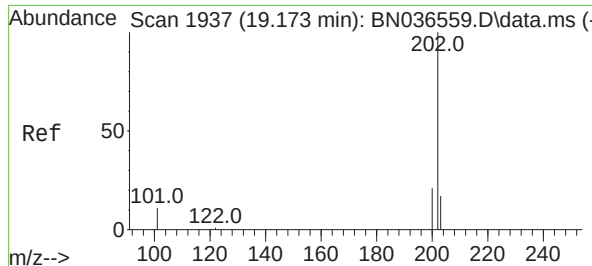
Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Tgt Ion:	212	Resp:	2144
Ion Ratio	Lower	Upper	
212	100		
106	15.5	11.8	17.6
104	9.7	7.3	10.9





#28

Fluoranthene

Concen: 0.099 ng

RT: 19.174 min Scan# 1937

Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Instrument :

BNA_N

ClientSampleId :

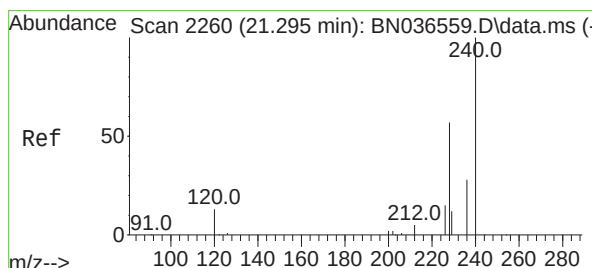
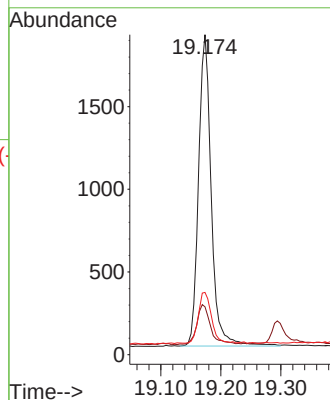
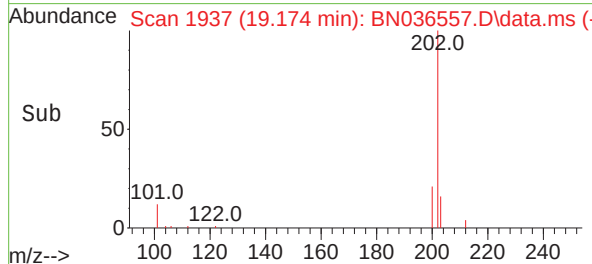
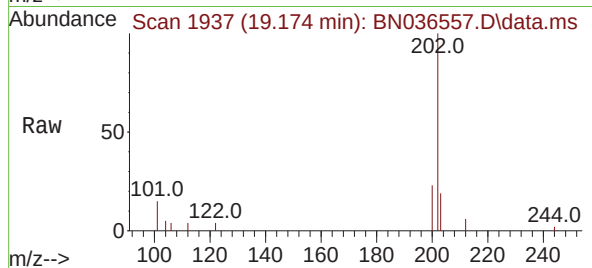
SSTDIC0.1

Tgt Ion:	202	Resp:	277
Ion Ratio	Lower	Upper	
202	100		
101	14.0	9.4	14.0
203	17.0	13.5	20.3

Manual Integrations

APPROVED

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



#29

Chrysene-d12

Concen: 0.400 ng

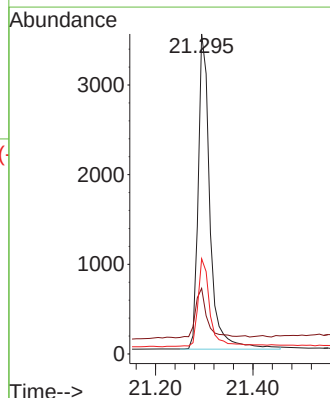
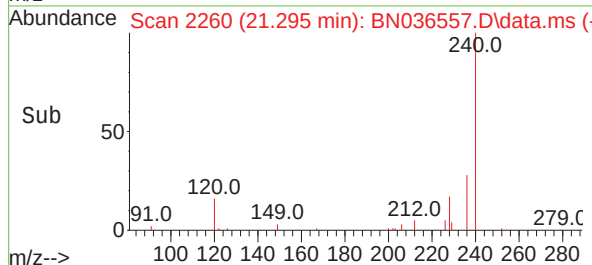
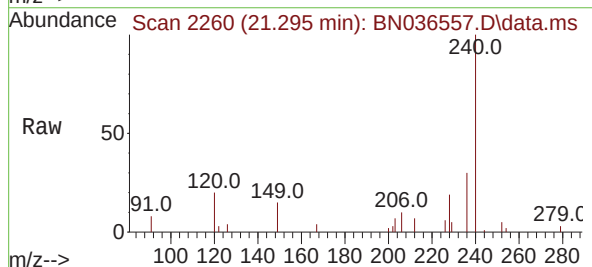
RT: 21.295 min Scan# 2260

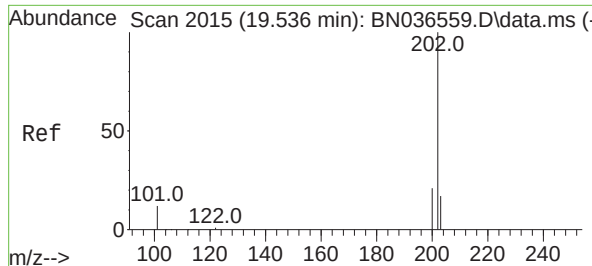
Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Tgt Ion:	240	Resp:	5886
Ion Ratio	Lower	Upper	
240	100		
120	20.5	14.6	22.0
236	29.8	24.1	36.1





#30

Pyrene

Concen: 0.099 ng

RT: 19.536 min Scan# 2015

Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Instrument :

BNA_N

ClientSampleId :

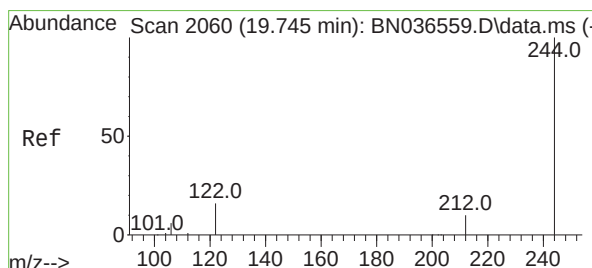
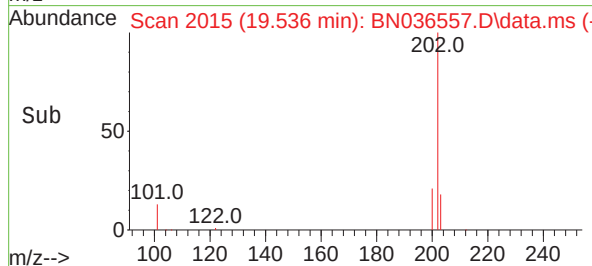
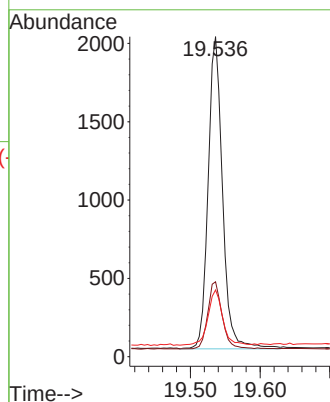
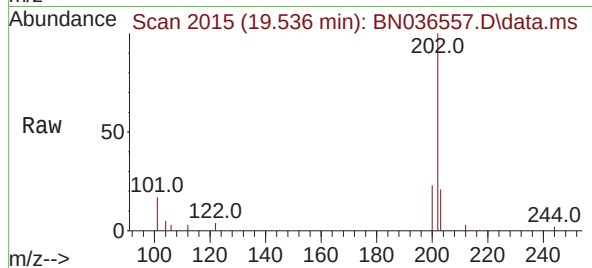
SSTDICC0.1

Tgt Ion:	202	Resp:	286
Ion Ratio	Lower	Upper	
202	100		
200	21.3	17.1	25.7
203	17.9	14.1	21.1

Manual Integrations

APPROVED

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



#31

Terphenyl-d14

Concen: 0.100 ng

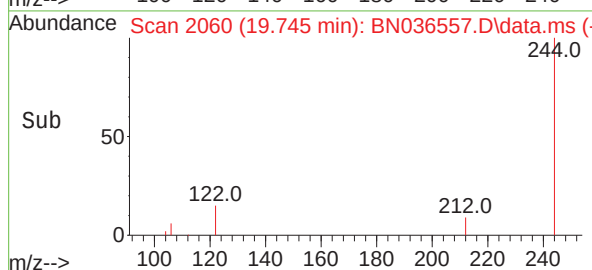
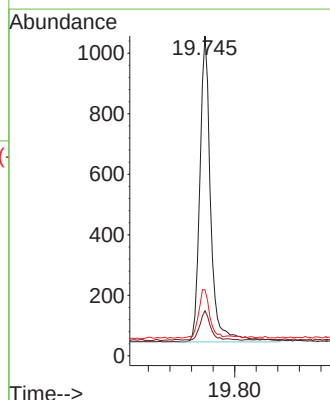
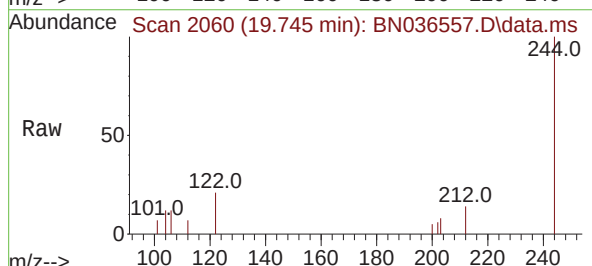
RT: 19.745 min Scan# 2060

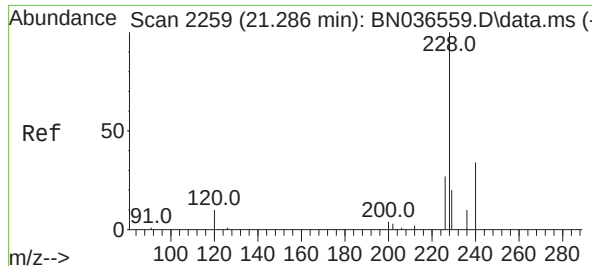
Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Tgt Ion:	244	Resp:	1416
Ion Ratio	Lower	Upper	
244	100		
212	14.1	9.6	14.4
122	20.6	13.9	20.9





#32

Benzo(a)anthracene

Concen: 0.100 ng

RT: 21.286 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Instrument :

BNA_N

ClientSampleId :

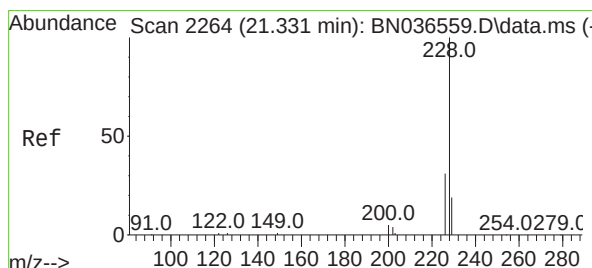
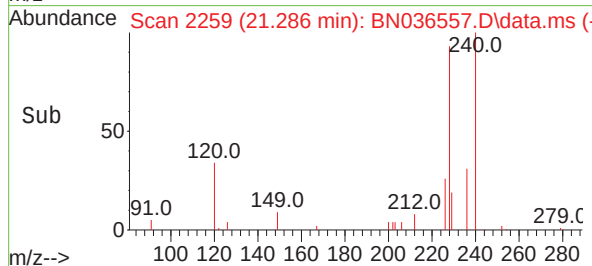
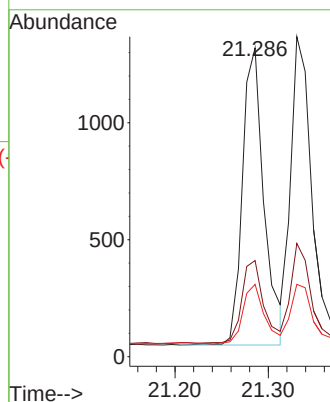
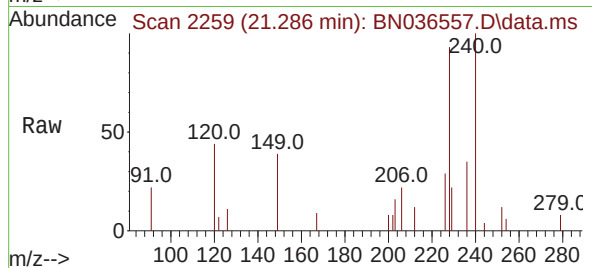
SSTDICC0.1

Tgt Ion:	228	Resp:	204
Ion Ratio	Lower	Upper	
228	100		
226	31.1	22.5	33.7
229	23.4	16.6	25.0

Manual Integrations

APPROVED

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



#33

Chrysene

Concen: 0.098 ng

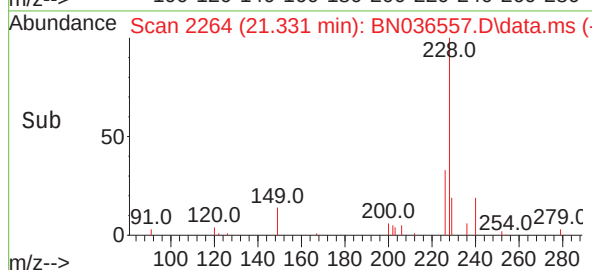
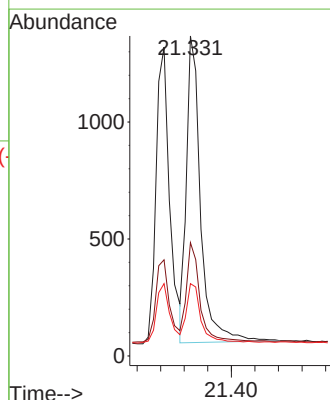
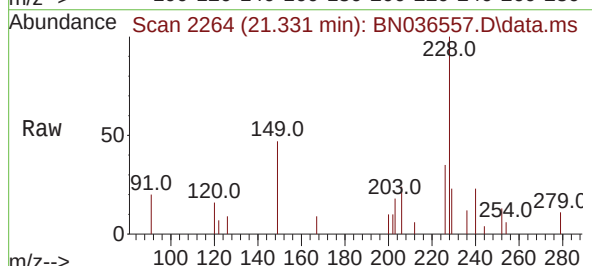
RT: 21.331 min Scan# 2264

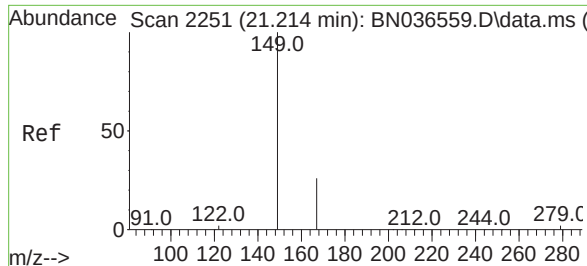
Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Tgt Ion:	228	Resp:	2187
Ion Ratio	Lower	Upper	
228	100		
226	35.4	25.3	37.9
229	22.6	15.8	23.8





#34

Bis(2-ethylhexyl)phthalate

Concen: 0.121 ng

RT: 21.214 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

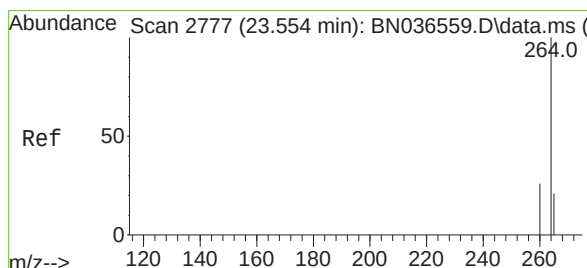
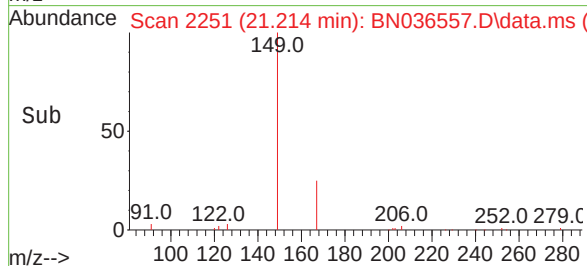
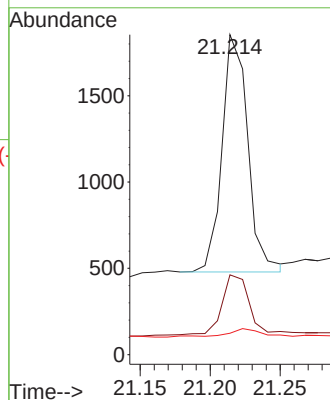
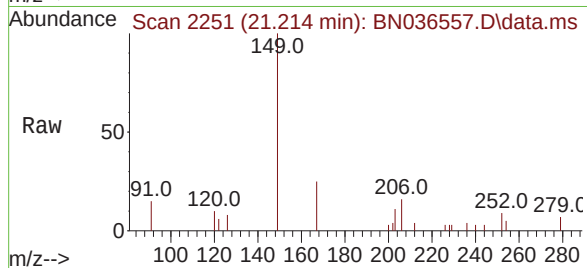
Tgt Ion:149	Resp:	1760
Ion Ratio	Lower	Upper
149	100	
167	27.9	20.7 31.1
279	4.9	3.6 5.4

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/11/2025

Supervised By :Jagrut Upadhyay 03/11/2025



#35

Perylene-d12

Concen: 0.400 ng

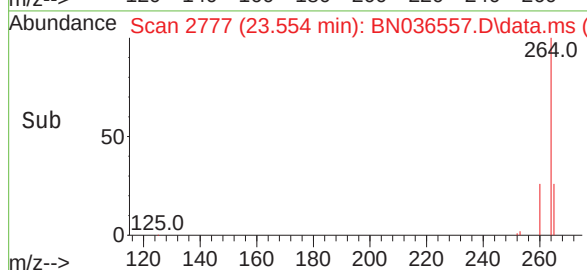
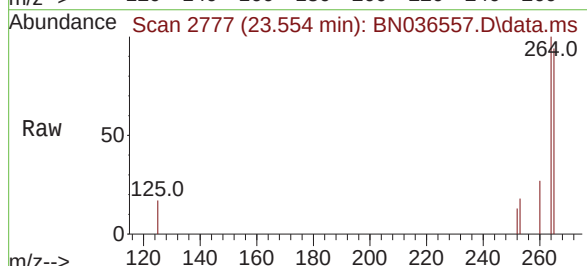
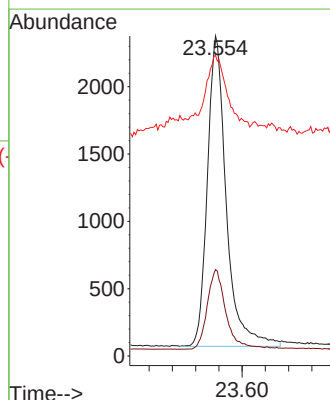
RT: 23.554 min Scan# 2777

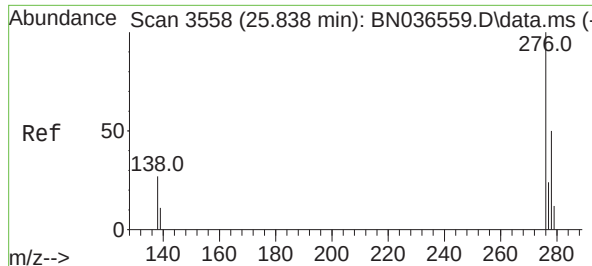
Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Tgt Ion:264	Resp:	5207
Ion Ratio	Lower	Upper
264	100	
260	27.0	22.6 33.8
265	93.9	88.1 132.1





#36

Indeno(1,2,3-cd)pyrene

Concen: 0.080 ng

RT: 25.841 min Scan# 3558

Delta R.T. 0.003 min

Lab File: BN036557.D

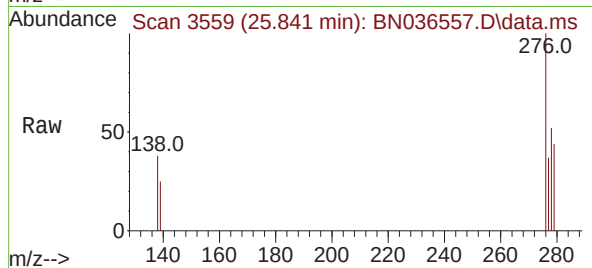
Acq: 10 Mar 2025 11:42

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1



Tgt Ion:276 Resp: 1510

Ion Ratio Lower Upper

276 100

138 27.6 23.4 35.2

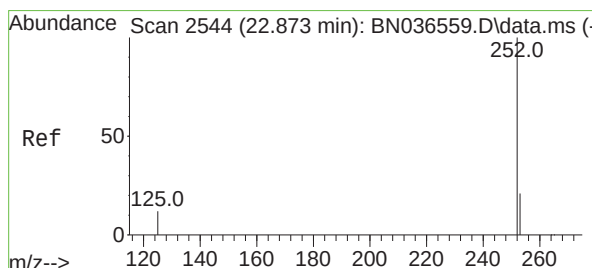
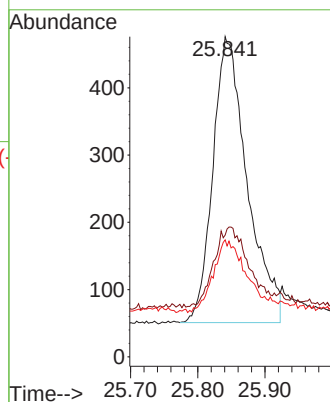
277 24.2 20.0 30.0

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/11/2025

Supervised By :Jagrut Upadhyay 03/11/2025



#37

Benzo(b)fluoranthene

Concen: 0.090 ng

RT: 22.876 min Scan# 2545

Delta R.T. 0.003 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

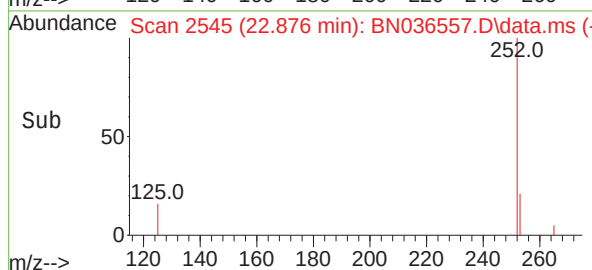
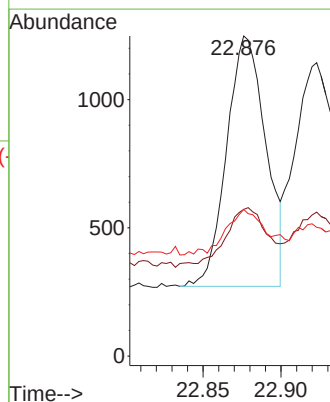
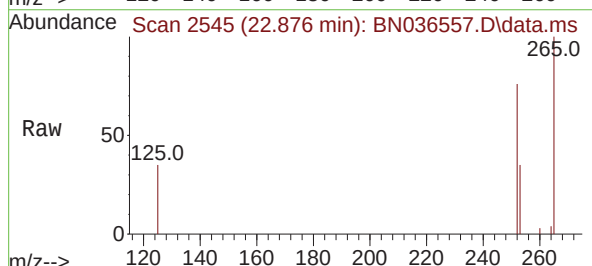
Tgt Ion:252 Resp: 1707

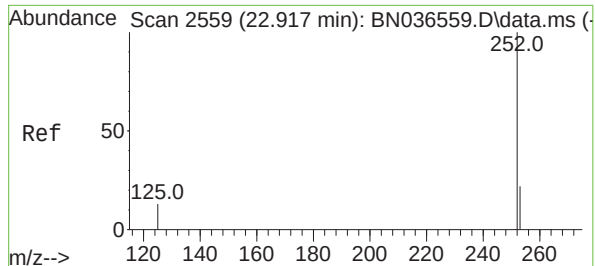
Ion Ratio Lower Upper

252 100

253 45.8 23.9 35.9#

125 45.8 17.4 26.2#





#38

Benzo(k)fluoranthene

Concen: 0.098 ng

RT: 22.923 min Scan# 2561

Delta R.T. 0.006 min

Lab File: BN036557.D

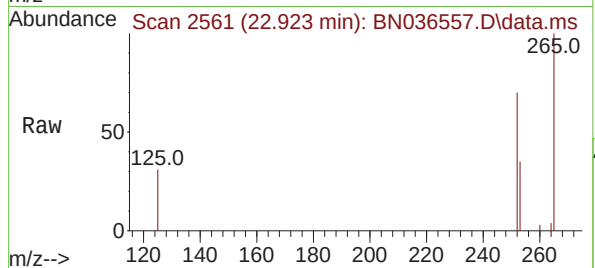
Acq: 10 Mar 2025 11:42

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1



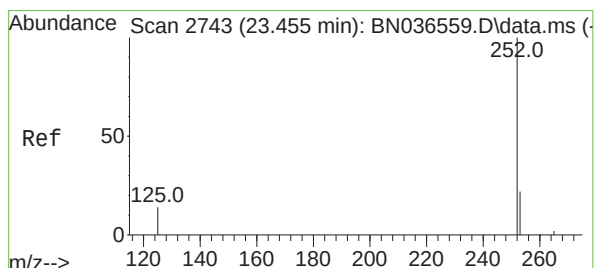
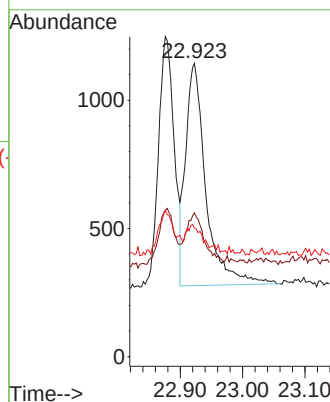
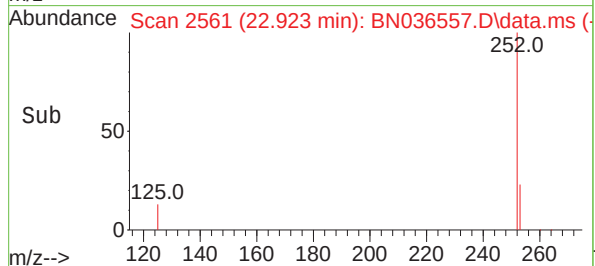
Tgt Ion	Ratio	Lower	Upper
252	100		
253	49.0	24.6	36.8
125	43.9	17.8	26.8

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/11/2025

Supervised By :Jagrut Upadhyay 03/11/2025



#39

Benzo(a)pyrene

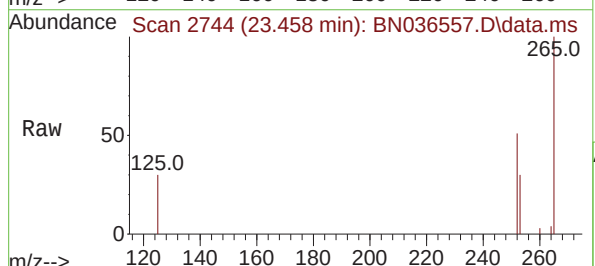
Concen: 0.089 ng

RT: 23.458 min Scan# 2744

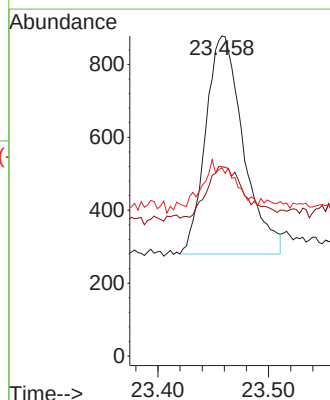
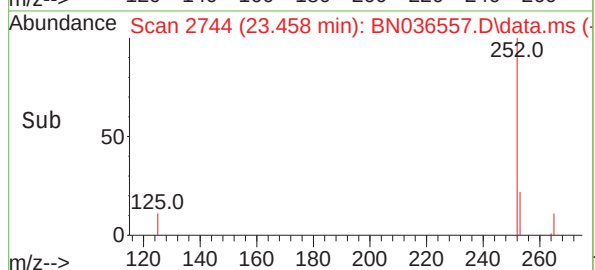
Delta R.T. 0.003 min

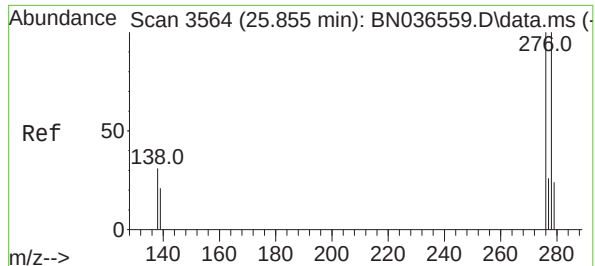
Lab File: BN036557.D

Acq: 10 Mar 2025 11:42



Tgt Ion	Ratio	Lower	Upper
252	100		
253	59.1	27.8	41.8
125	58.8	22.7	34.1





#40

Dibenzo(a,h)anthracene

Concen: 0.079 ng

RT: 25.861 min Scan# 3566

Delta R.T. 0.006 min

Lab File: BN036557.D

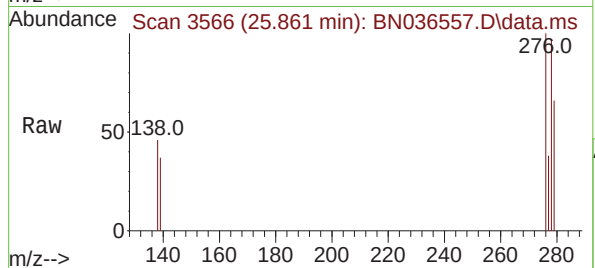
Acq: 10 Mar 2025 11:42

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1



Tgt Ion:278 Resp: 1163

Ion Ratio Lower Upper

278 100

139 37.8 20.8 31.2#

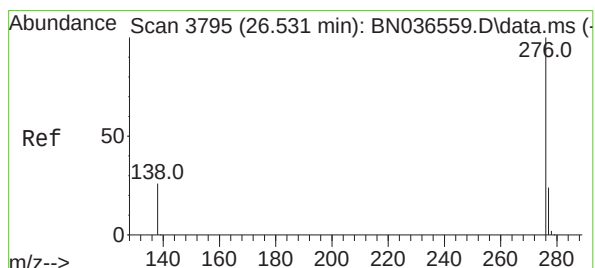
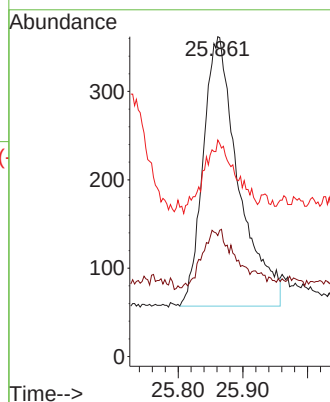
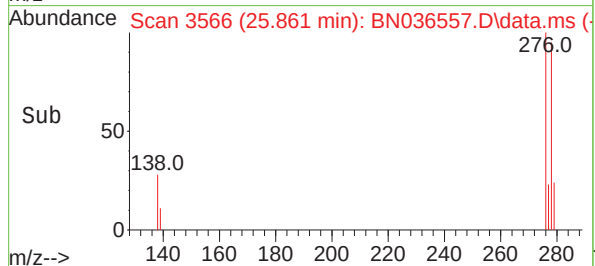
279 67.7 28.8 43.2#

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/11/2025

Supervised By :Jagrut Upadhyay 03/11/2025



#41

Benzo(g,h,i)perylene

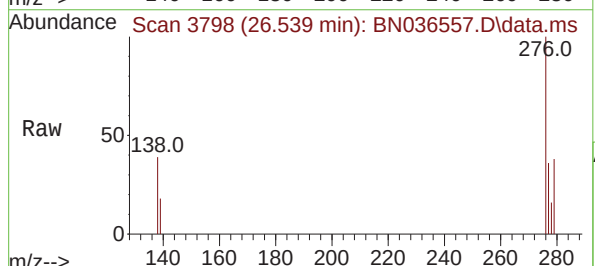
Concen: 0.089 ng

RT: 26.539 min Scan# 3798

Delta R.T. 0.009 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42



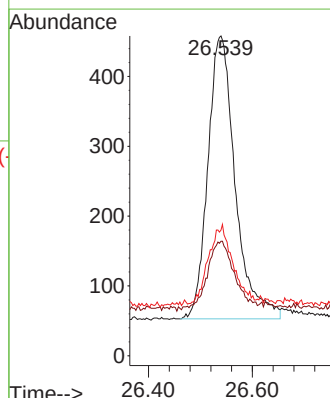
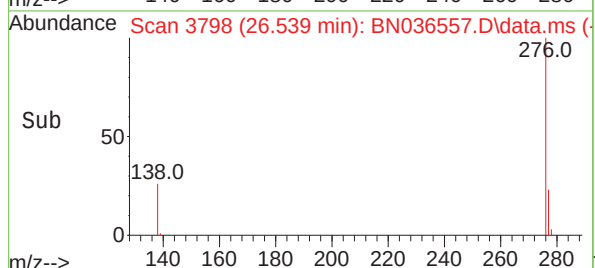
Tgt Ion:276 Resp: 1482

Ion Ratio Lower Upper

276 100

277 35.8 22.2 33.4#

138 39.3 24.1 36.1#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
 Data File : BN036558.D
 Acq On : 10 Mar 2025 12:18
 Operator : RC/JU
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/11/2025

Supervised By :Jagrut Upadhyay 03/11/2025

Quant Time: Mar 10 16:00:58 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Mon Mar 10 15:54:23 2025

Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2504	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	5844	0.400	ng	0.00
13) Acenaphthene-d10	14.366	164	3516	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	7506	0.400	ng	0.00
29) Chrysene-d12	21.295	240	4730	0.400	ng	0.00
35) Perylene-d12	23.554	264	4241	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	1137	0.195	ng	0.00
5) Phenol-d6	6.901	99	1323	0.184	ng	0.00
8) Nitrobenzene-d5	8.875	82	1156	0.182	ng	0.00
11) 2-Methylnaphthalene-d10	12.111	152	1603	0.184	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	282	0.177	ng	0.00
15) 2-Fluorobiphenyl	12.993	172	3485	0.170	ng	0.00
27) Fluoranthene-d10	19.146	212	3583	0.186	ng	0.00
31) Terphenyl-d14	19.745	244	2283	0.201	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.247	88	550m	0.198	ng	Qvalue
3) n-Nitrosodimethylamine	3.557	42	1094	0.195	ng	92
6) bis(2-Chloroethyl)ether	7.154	93	1440	0.193	ng	99
9) Naphthalene	10.562	128	3286	0.191	ng	97
10) Hexachlorobutadiene	10.850	225	828	0.205	ng	# 97
12) 2-Methylnaphthalene	12.187	142	2034	0.186	ng	97
16) Acenaphthylene	14.088	152	3087	0.186	ng	100
17) Acenaphthene	14.430	154	2038	0.188	ng	99
18) Fluorene	15.414	166	2813	0.191	ng	99
20) 4,6-Dinitro-2-methylph...	15.510	198	214	0.258	ng	# 69
21) 4-Bromophenyl-phenylether	16.304	248	853	0.181	ng	93
22) Hexachlorobenzene	16.416	284	1079	0.190	ng	99
23) Atrazine	16.578	200	716	0.190	ng	97
24) Pentachlorophenol	16.776	266	435	0.168	ng	98
25) Phenanthrene	17.148	178	4171	0.185	ng	100
26) Anthracene	17.248	178	3645	0.179	ng	99
28) Fluoranthene	19.174	202	4666	0.184	ng	99
30) Pyrene	19.536	202	4742	0.205	ng	100
32) Benzo(a)anthracene	21.286	228	3111	0.189	ng	97
33) Chrysene	21.331	228	3568	0.199	ng	97
34) Bis(2-ethylhexyl)phtha...	21.214	149	2601	0.222	ng	# 97
36) Indeno(1,2,3-cd)pyrene	25.844	276	2790	0.182	ng	98
37) Benzo(b)fluoranthene	22.876	252	2883	0.187	ng	# 83
38) Benzo(k)fluoranthene	22.917	252	2962	0.183	ng	# 86
39) Benzo(a)pyrene	23.458	252	2443	0.188	ng	# 76
40) Dibenzo(a,h)anthracene	25.858	278	2080	0.175	ng	# 83
41) Benzo(g,h,i)perylene	26.536	276	2573	0.189	ng	95

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

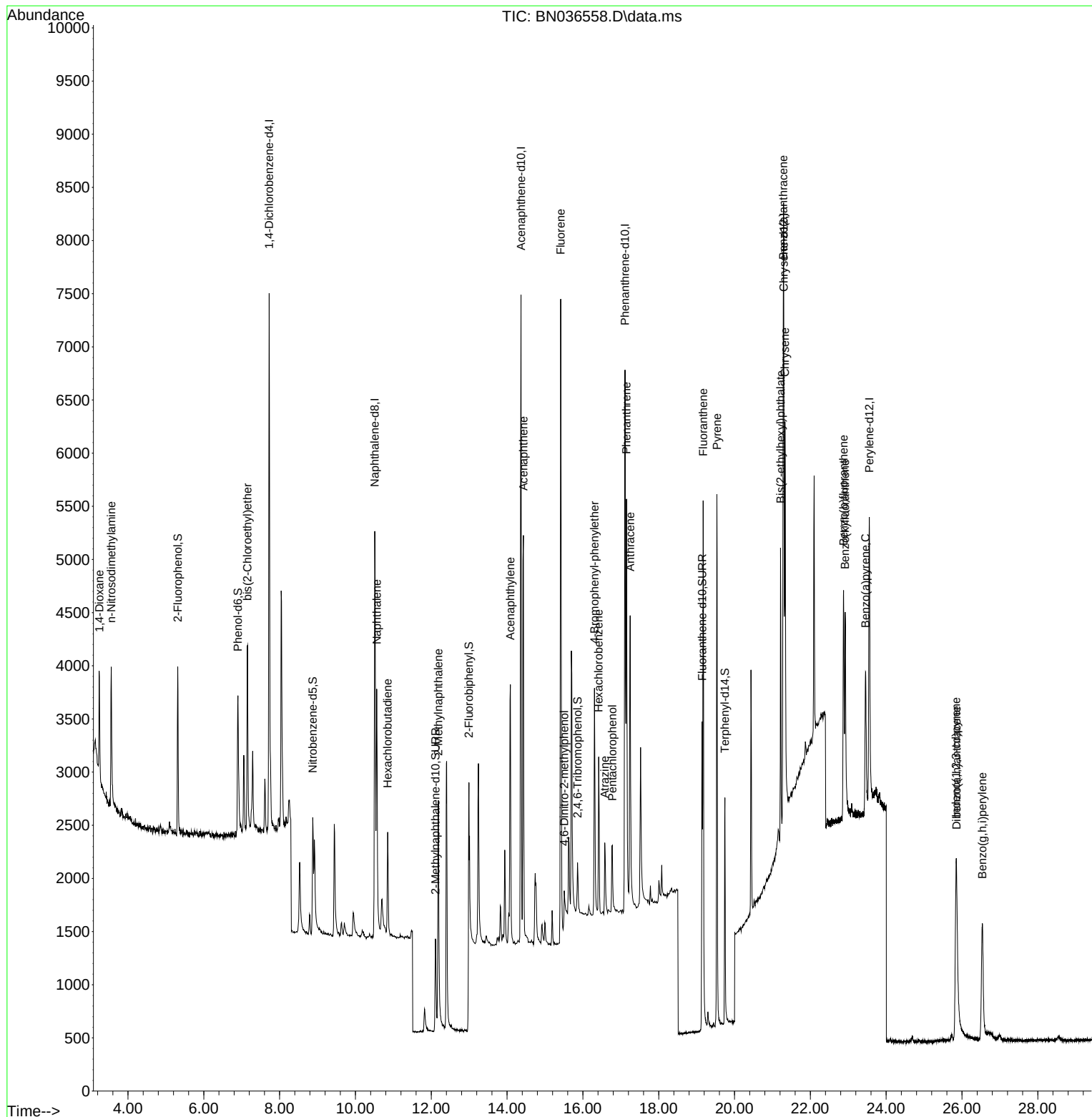
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036558.D
Acq On : 10 Mar 2025 12:18
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

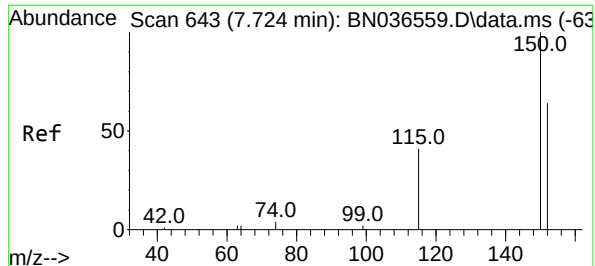
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Mar 10 16:00:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

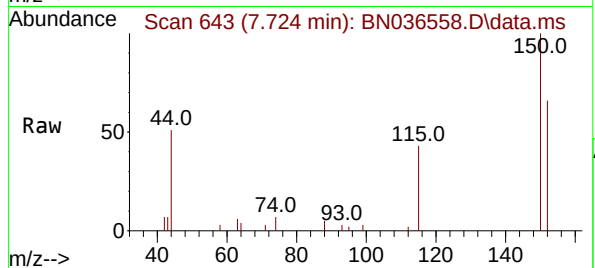
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

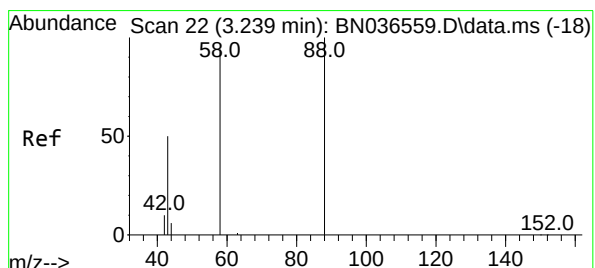
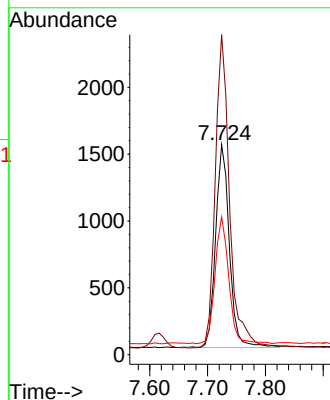
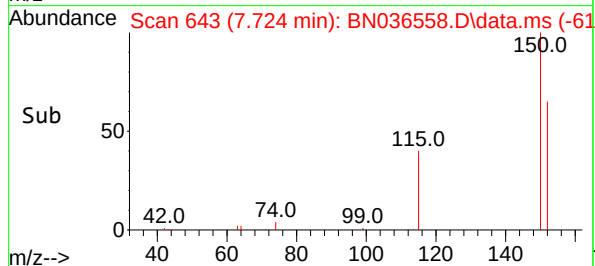
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion: 152 Resp: 2504
Ion Ratio Lower Upper
152 100
150 152.3 123.7 185.5
115 65.5 54.3 81.5

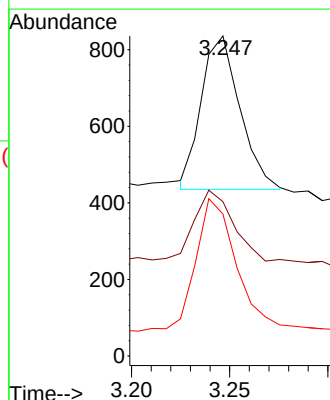
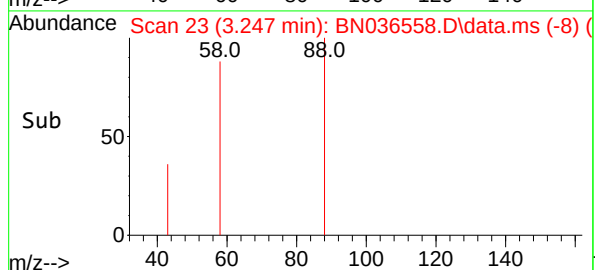
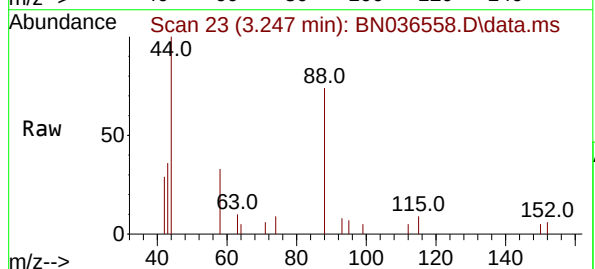
Manual Integrations
APPROVED

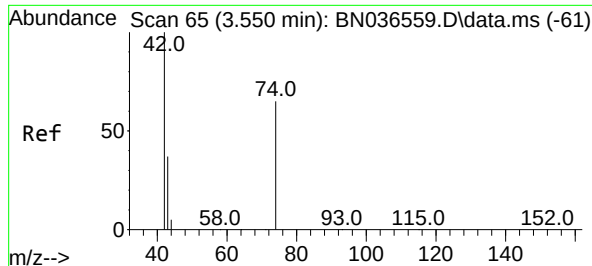
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#2
1,4-Dioxane
Concen: 0.198 ng m
RT: 3.247 min Scan# 23
Delta R.T. 0.007 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion: 88 Resp: 550
Ion Ratio Lower Upper
88 100
43 56.5 37.8 56.8
58 93.8 67.4 101.2





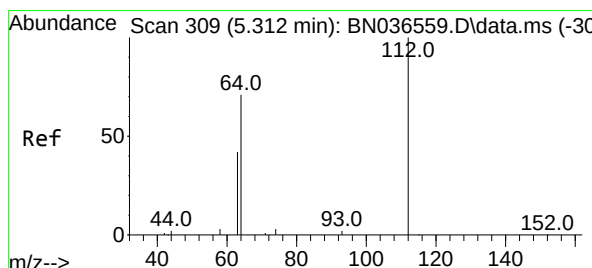
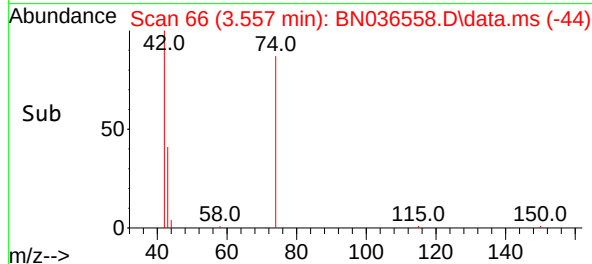
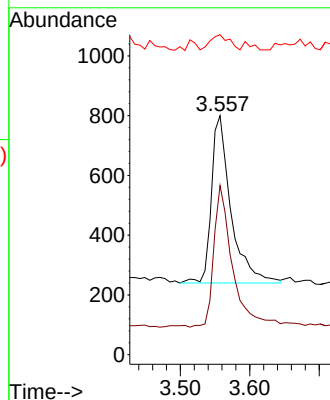
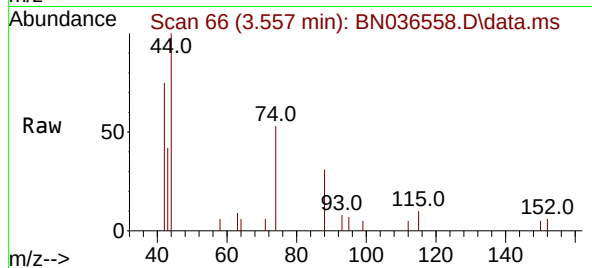
#3
n-Nitrosodimethylamine
Concen: 0.195 ng
RT: 3.557 min Scan# 60
Delta R.T. 0.007 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion: 42 Resp: 1094
Ion Ratio Lower Upper
42 100
74 83.2 60.6 90.8
44 8.5 6.3 9.5

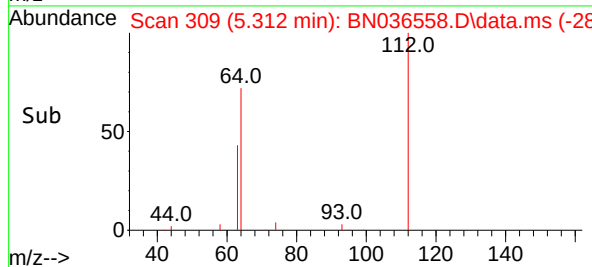
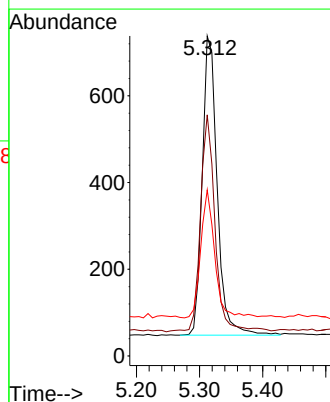
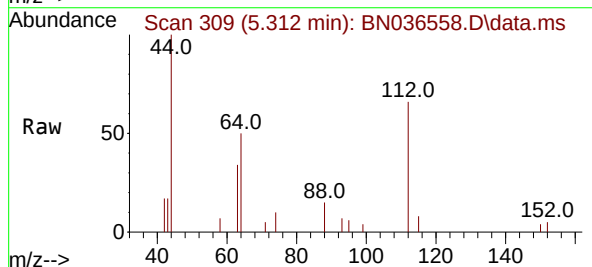
Manual Integrations
APPROVED

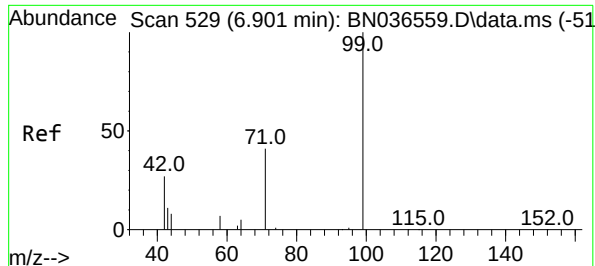
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#4
2-Fluorophenol
Concen: 0.195 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:112 Resp: 1137
Ion Ratio Lower Upper
112 100
64 70.6 53.1 79.7
63 40.3 31.8 47.8





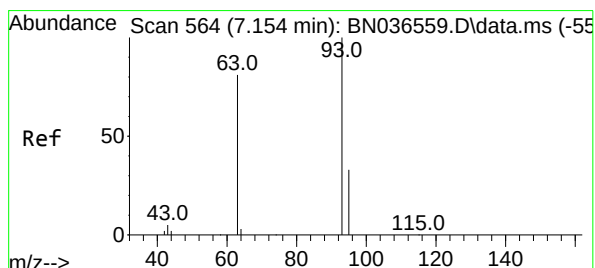
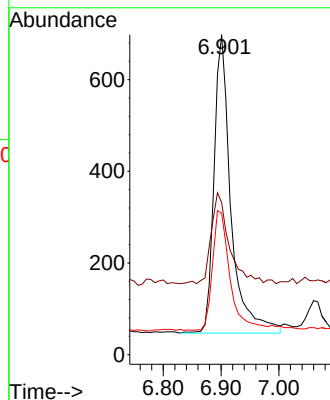
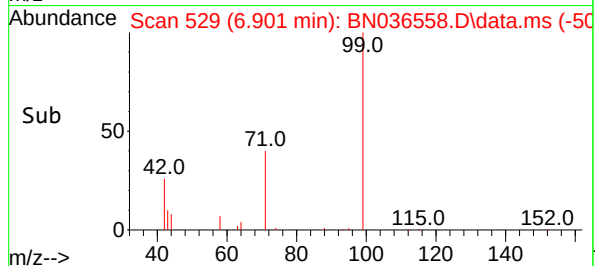
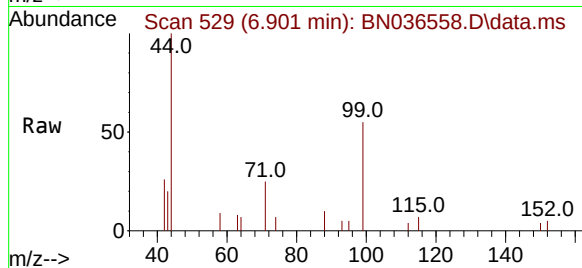
#5
Phenol-d6
Concen: 0.184 ng
RT: 6.901 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion: 99 Resp: 132
Ion Ratio Lower Upper
99 100
42 32.7 26.5 39.7
71 41.3 34.1 51.1

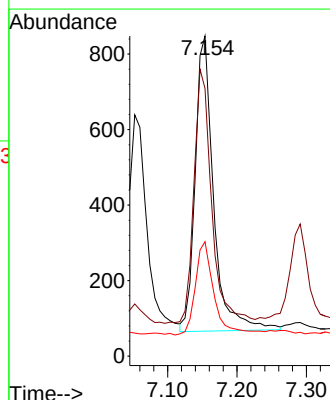
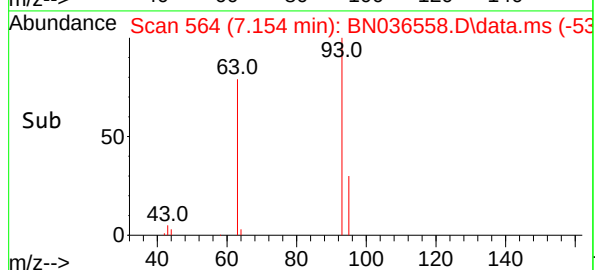
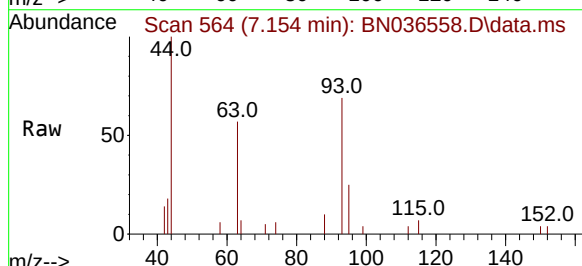
Manual Integrations
APPROVED

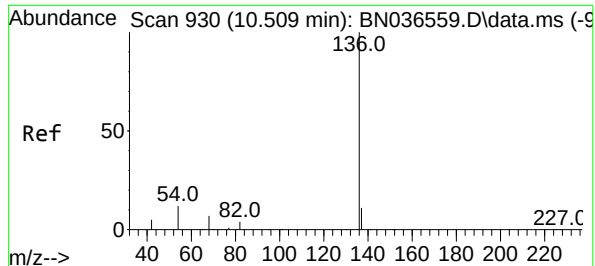
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#6
bis(2-Chloroethyl)ether
Concen: 0.193 ng
RT: 7.154 min Scan# 564
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

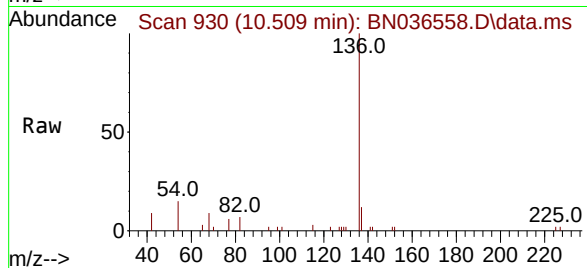
Tgt Ion: 93 Resp: 1440
Ion Ratio Lower Upper
93 100
63 82.9 67.7 101.5
95 31.9 25.6 38.4





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

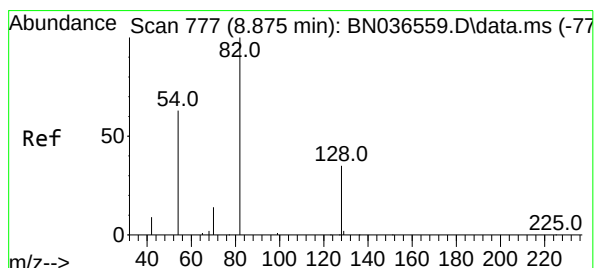
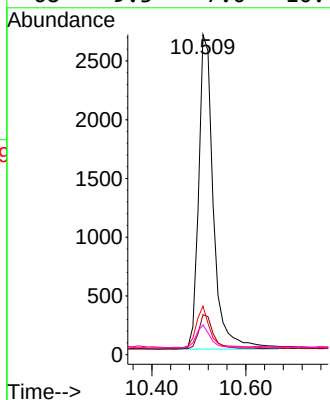
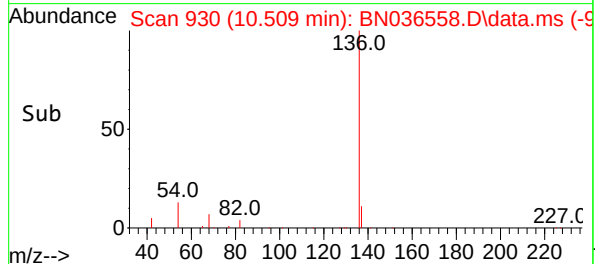
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:136 Resp: 584
Ion Ratio Lower Upper
136 100
137 12.5 10.3 15.5
54 15.1 11.5 17.3
68 9.3 7.0 10.4

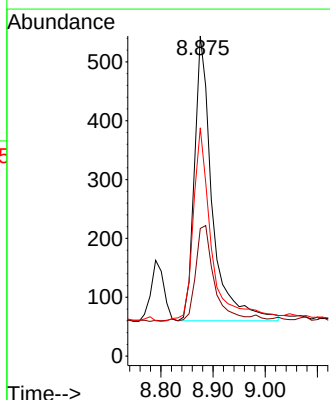
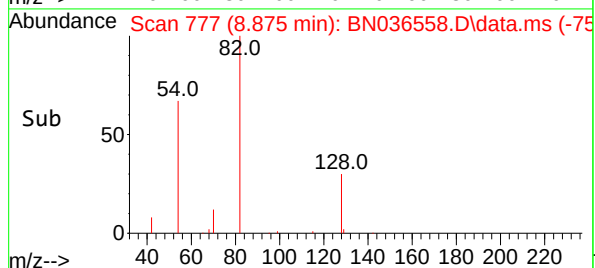
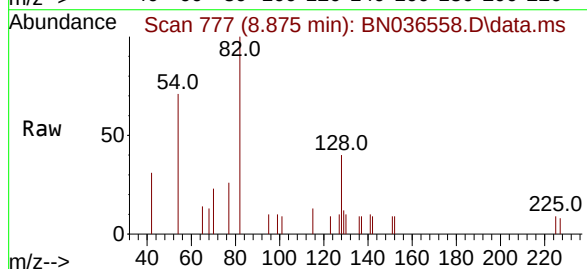
Manual Integrations
APPROVED

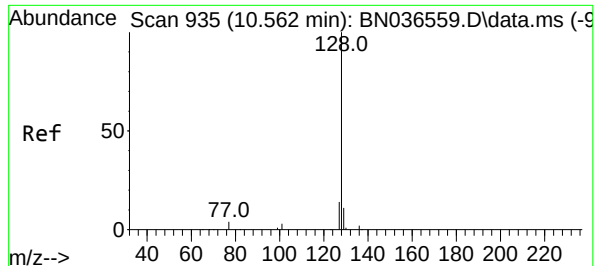
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#8
Nitrobenzene-d5
Concen: 0.182 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion: 82 Resp: 1156
Ion Ratio Lower Upper
82 100
128 39.9 30.6 45.8
54 71.3 52.2 78.4





#9

Naphthalene

Concen: 0.191 ng

RT: 10.562 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

Instrument :

BNA_N

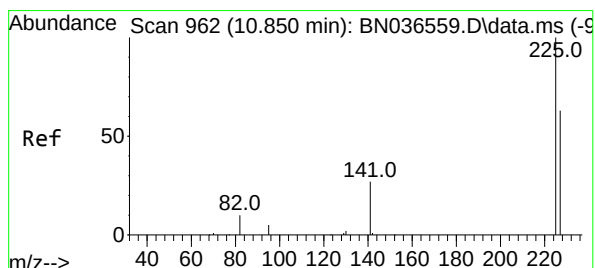
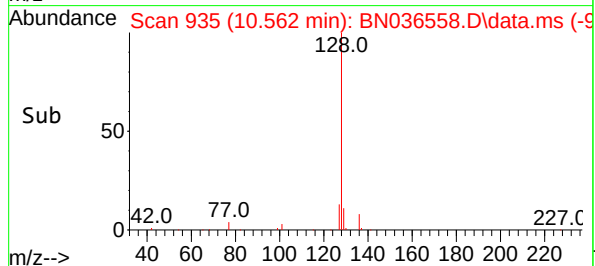
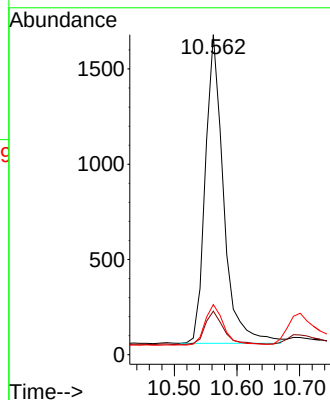
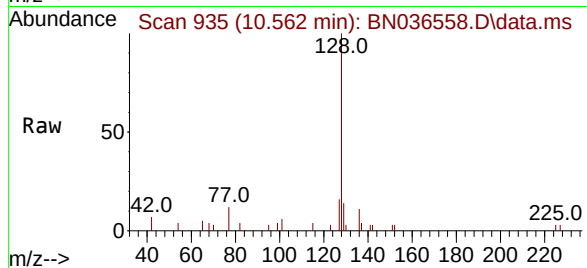
ClientSampleId :

SSTDICC0.2

Tgt Ion:	128	Resp:	328
Ion	Ratio	Lower	Upper
128	100		
129	13.6	9.8	14.6
127	15.7	11.8	17.8

Manual Integrations
APPROVED

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



#10

Hexachlorobutadiene

Concen: 0.205 ng

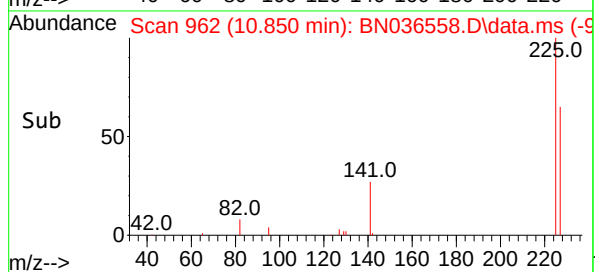
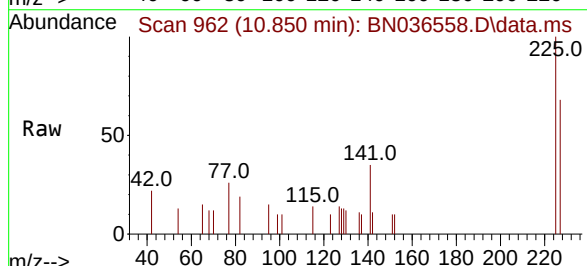
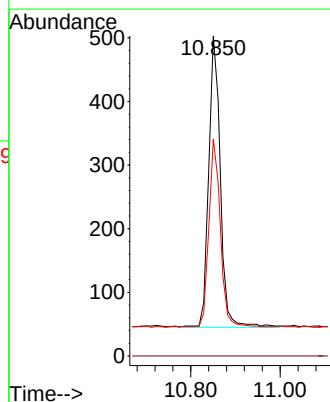
RT: 10.850 min Scan# 962

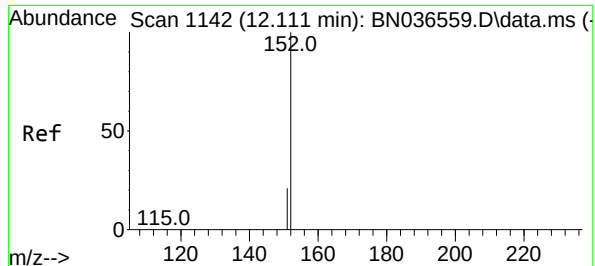
Delta R.T. 0.000 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

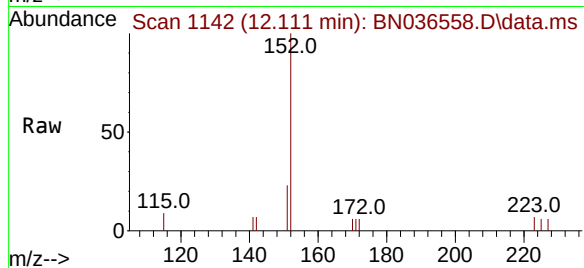
Tgt Ion:	225	Resp:	828
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	62.6	51.8	77.8





#11
2-Methylnaphthalene-d10
Concen: 0.184 ng
RT: 12.111 min Scan# 1142
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

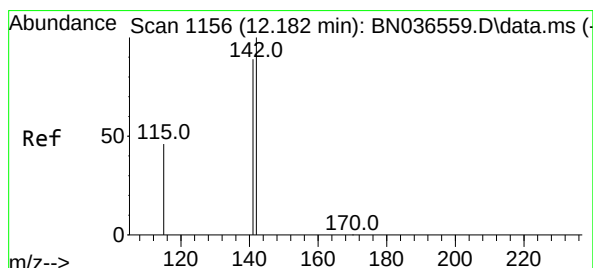
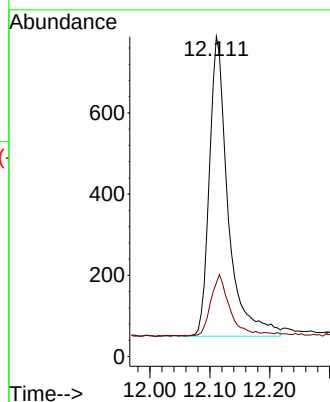
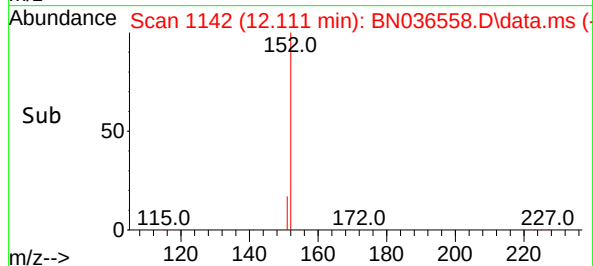
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:152 Resp: 160
Ion Ratio Lower Upper
152 100
151 21.0 17.0 25.6

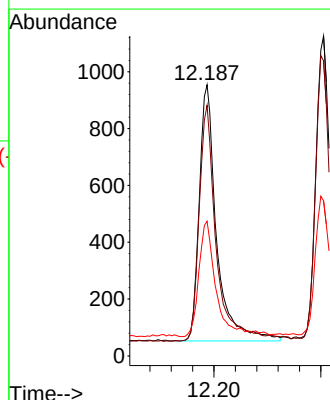
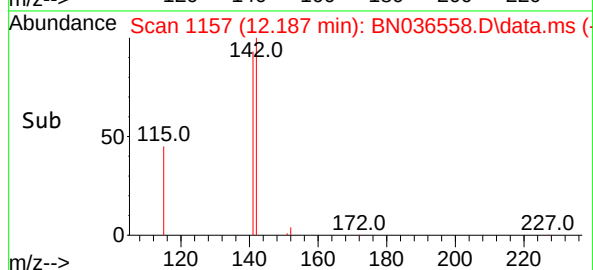
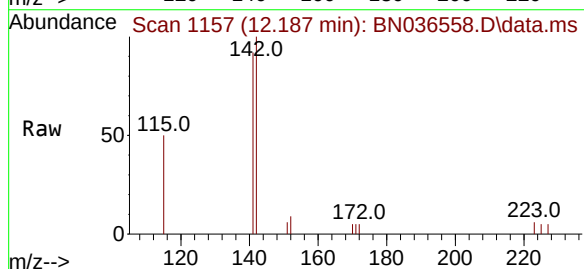
Manual Integrations
APPROVED

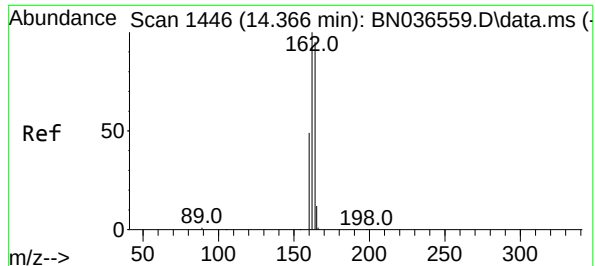
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#12
2-Methylnaphthalene
Concen: 0.186 ng
RT: 12.187 min Scan# 1157
Delta R.T. 0.005 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

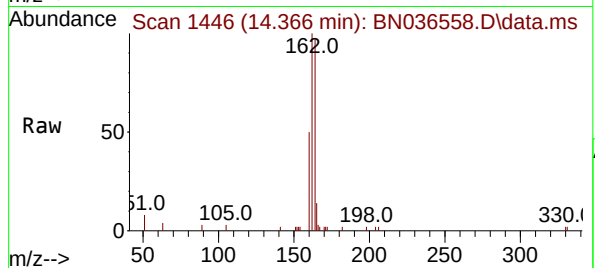
Tgt Ion:142 Resp: 2034
Ion Ratio Lower Upper
142 100
141 92.5 71.7 107.5
115 49.7 38.3 57.5





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

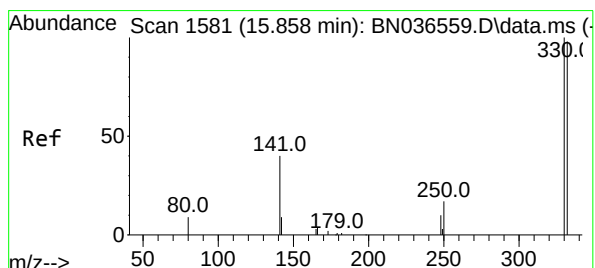
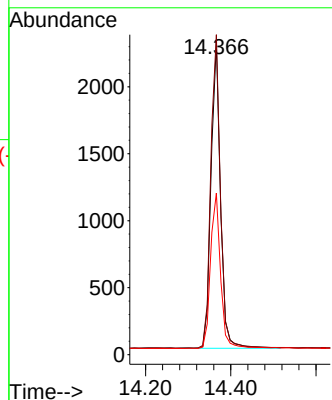
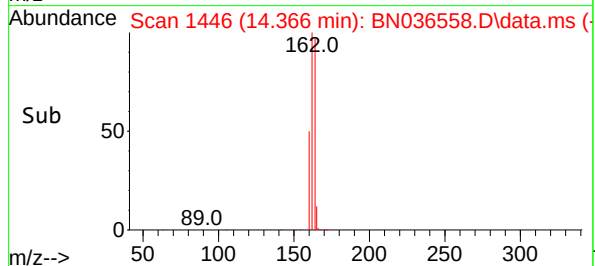
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



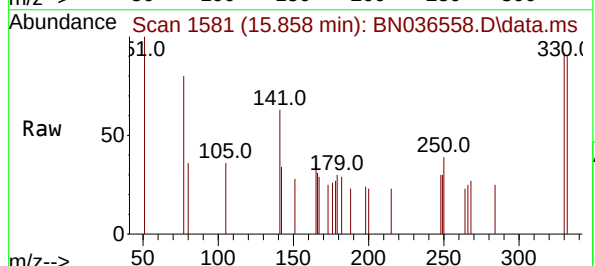
Tgt Ion:164 Resp: 3510
Ion Ratio Lower Upper
164 100
162 102.6 84.2 126.2
160 51.8 42.2 63.2

Manual Integrations
APPROVED

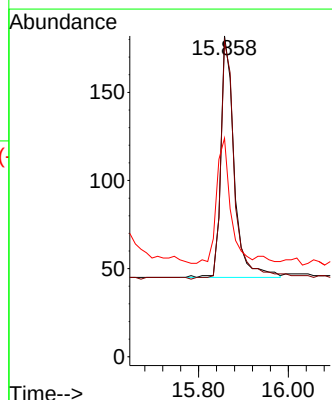
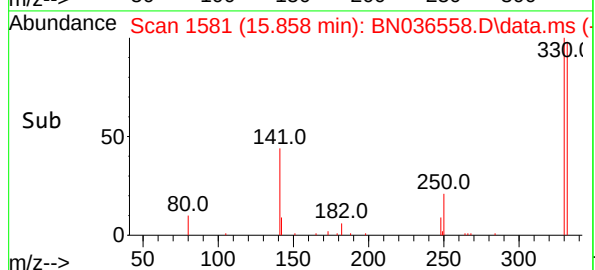
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

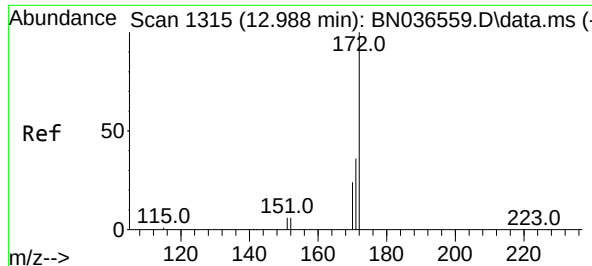


#14
2,4,6-Tribromophenol
Concen: 0.177 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18



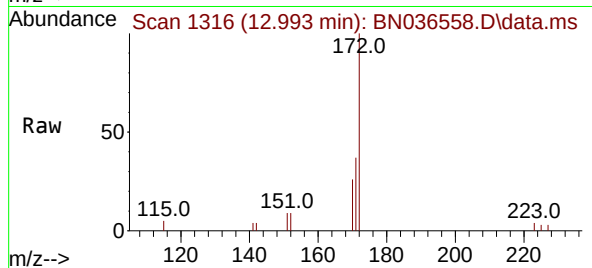
Tgt Ion:330 Resp: 282
Ion Ratio Lower Upper
330 100
332 103.5 75.2 112.8
141 53.9 43.4 65.2





#15
2-Fluorobiphenyl
Concen: 0.170 ng
RT: 12.993 min Scan# 11
Delta R.T. 0.005 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

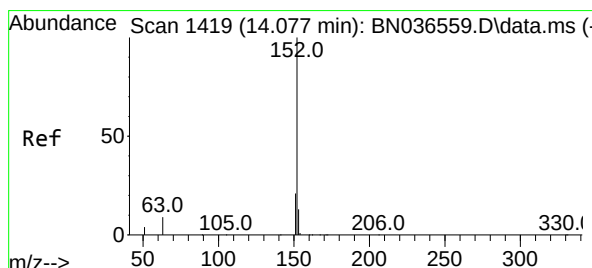
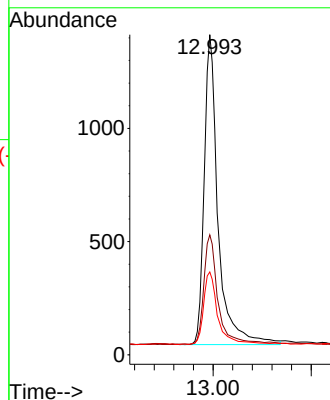
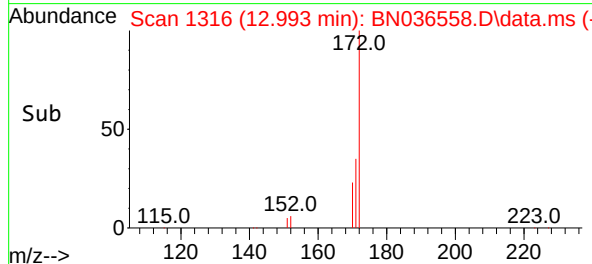
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:172 Resp: 348
Ion Ratio Lower Upper
172 100
171 37.5 29.5 44.3
170 25.9 20.2 30.4

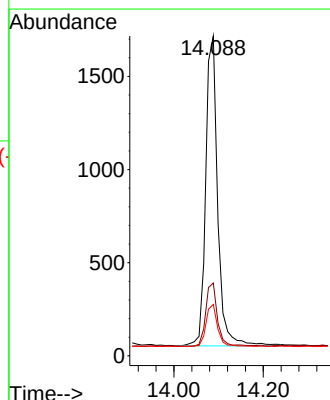
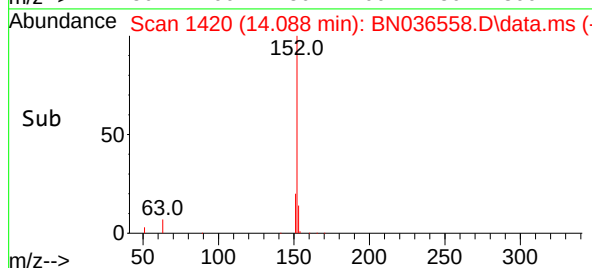
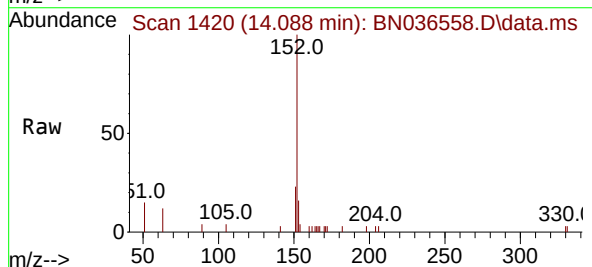
Manual Integrations
APPROVED

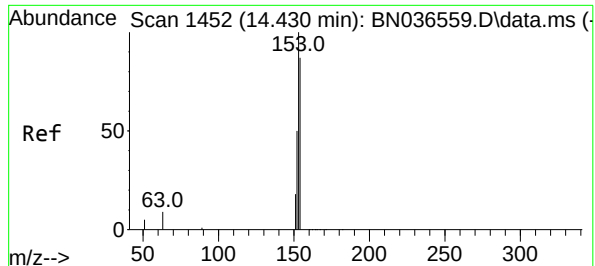
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#16
Acenaphthylene
Concen: 0.186 ng
RT: 14.088 min Scan# 1420
Delta R.T. 0.011 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:152 Resp: 3087
Ion Ratio Lower Upper
152 100
151 20.4 16.2 24.4
153 13.0 10.6 15.8





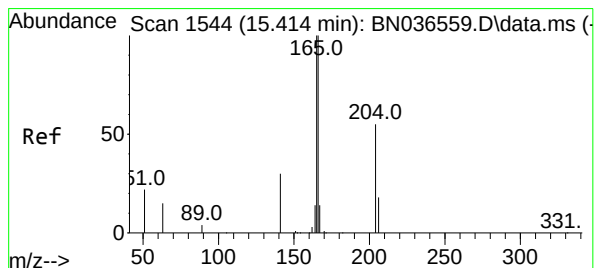
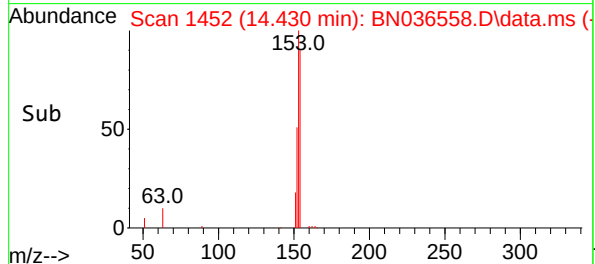
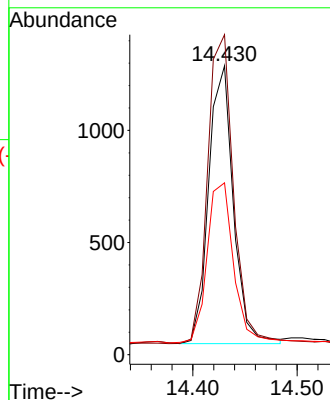
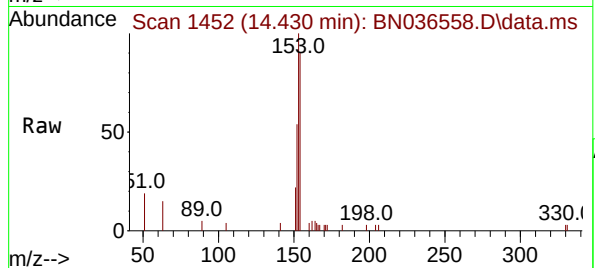
#17
Acenaphthene
Concen: 0.188 ng
RT: 14.430 min Scan# 1452
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:154 Resp: 2038
Ion Ratio Lower Upper
154 100
153 117.8 94.1 141.1
152 63.1 49.8 74.6

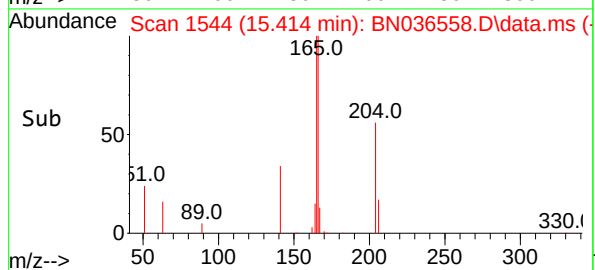
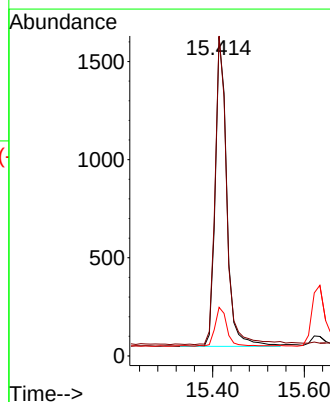
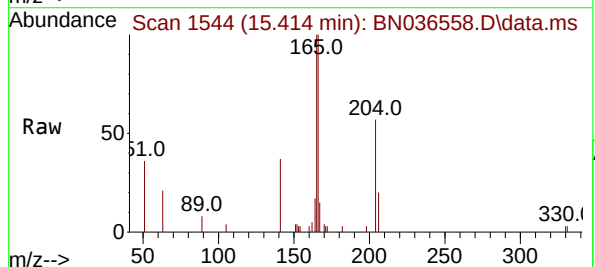
Manual Integrations
APPROVED

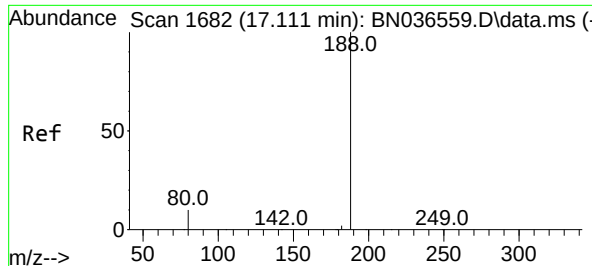
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#18
Fluorene
Concen: 0.191 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:166 Resp: 2813
Ion Ratio Lower Upper
166 100
165 101.1 79.8 119.8
167 12.6 10.6 15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.111 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

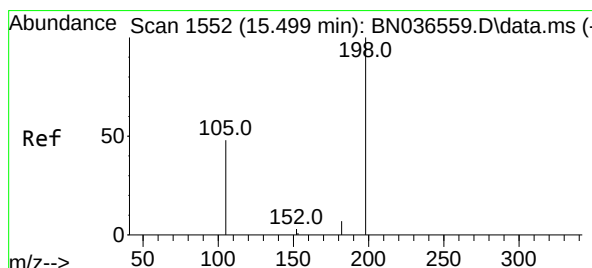
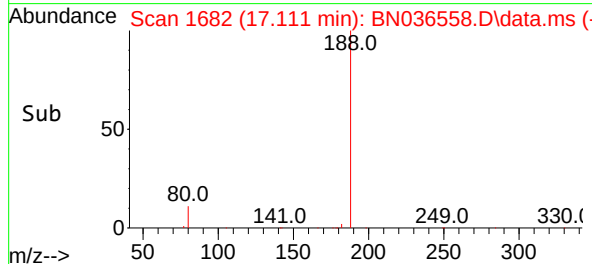
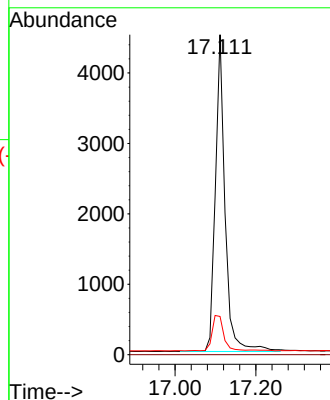
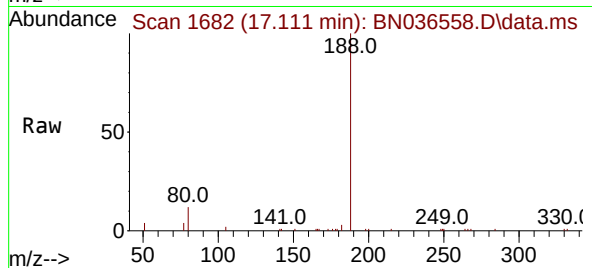
Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.9	8.8	13.2

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

#20

4,6-Dinitro-2-methylphenol

Concen: 0.258 ng

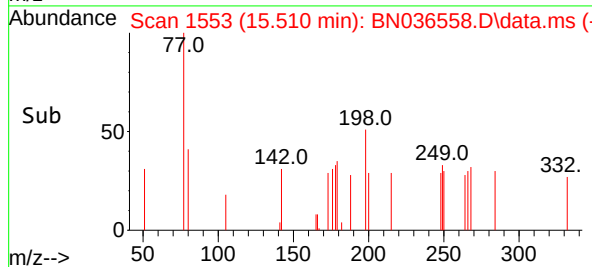
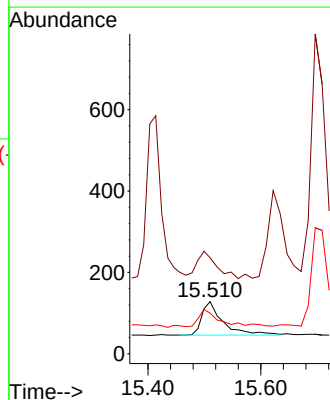
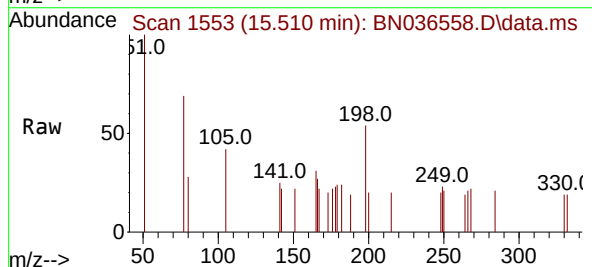
RT: 15.510 min Scan# 1553

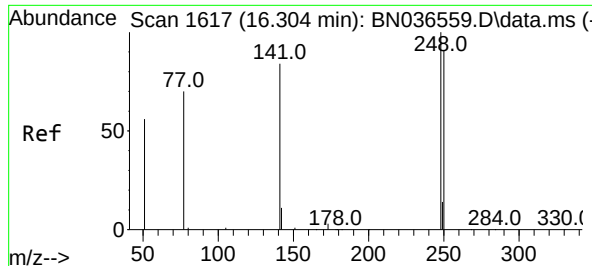
Delta R.T. 0.011 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

Tgt Ion	Ratio	Lower	Upper
198	100		
51	184.4	107.9	161.9#
105	78.1	56.2	84.2





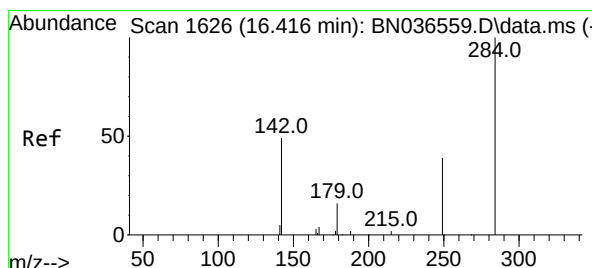
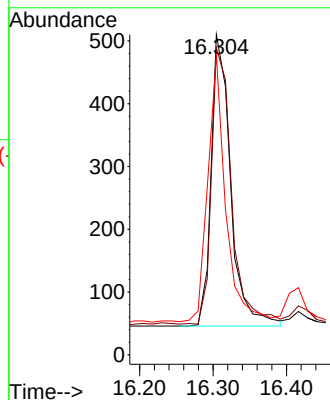
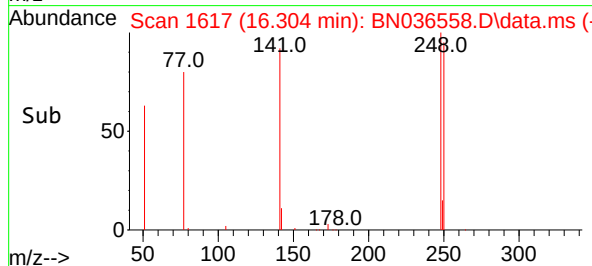
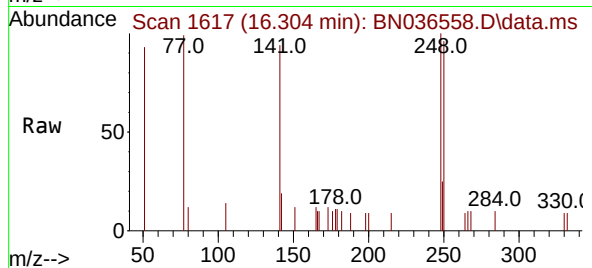
#21
4-Bromophenyl-phenylether
Concen: 0.181 ng
RT: 16.304 min Scan# 1617
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:248 Resp: 85
Ion Ratio Lower Upper
248 100
250 95.9 73.0 109.6
141 93.7 68.6 103.0

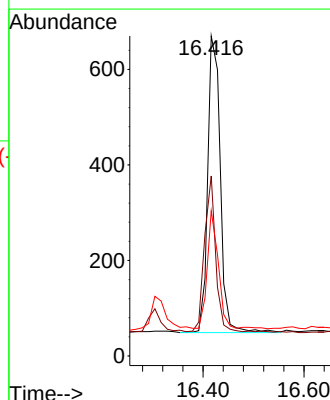
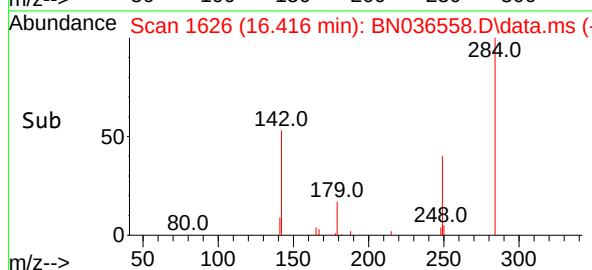
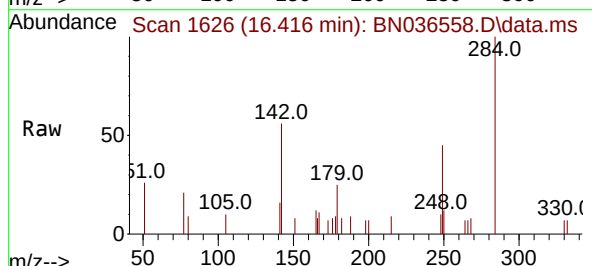
Manual Integrations
APPROVED

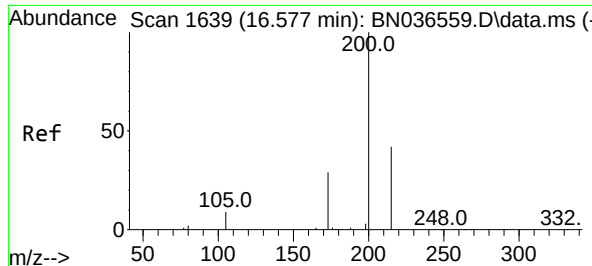
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#22
Hexachlorobenzene
Concen: 0.190 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

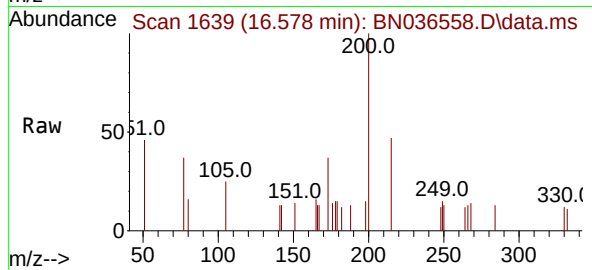
Tgt Ion:284 Resp: 1079
Ion Ratio Lower Upper
284 100
142 47.0 37.0 55.4
249 34.8 28.1 42.1





#23
Atrazine
Concen: 0.190 ng
RT: 16.578 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

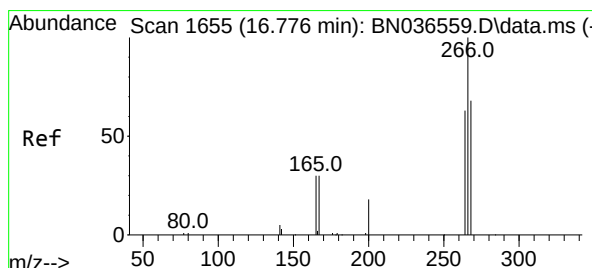
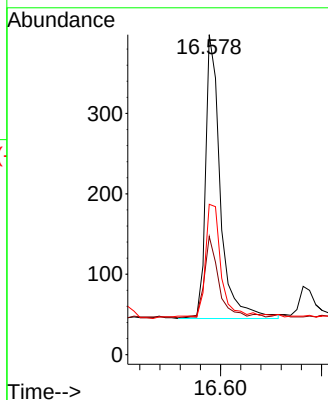
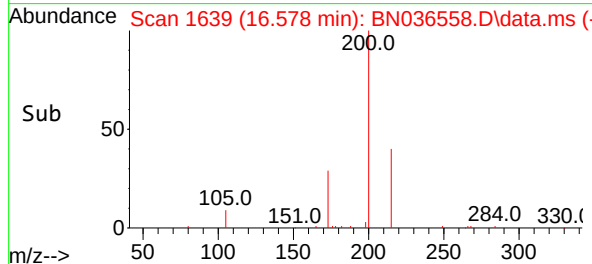
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion: 200 Resp: 710
Ion Ratio Lower Upper
200 100
173 36.9 27.3 40.9
215 47.0 36.8 55.2

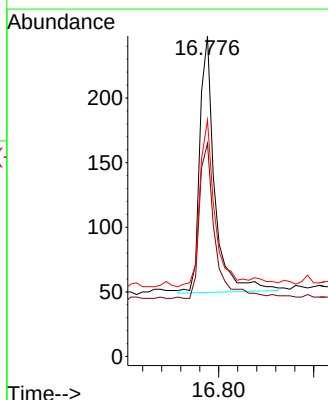
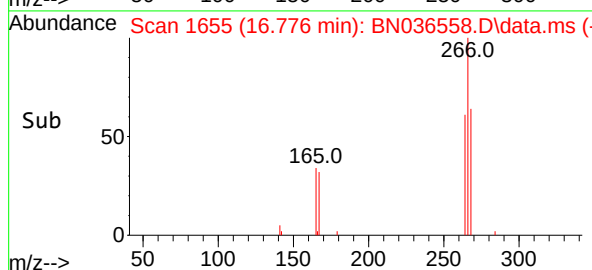
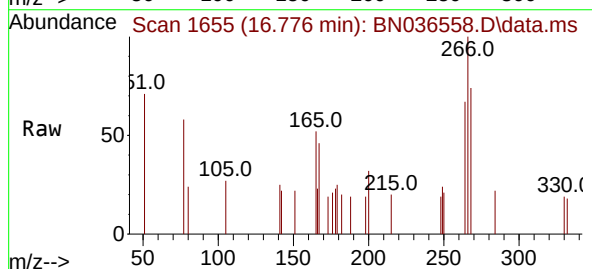
Manual Integrations
APPROVED

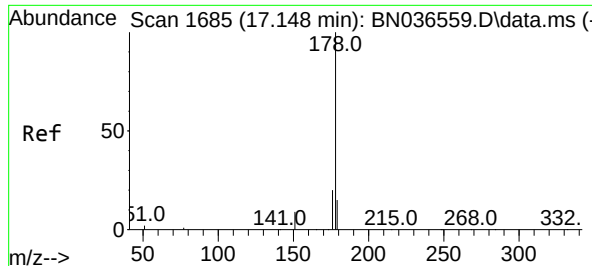
Reviewed By : Anahy Claudio 03/11/2025
Supervised By : Jagrut Upadhyay 03/11/2025



#24
Pentachlorophenol
Concen: 0.168 ng
RT: 16.776 min Scan# 1655
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

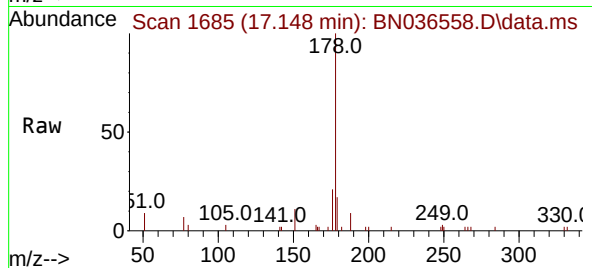
Tgt Ion: 266 Resp: 435
Ion Ratio Lower Upper
266 100
264 63.4 49.6 74.4
268 65.7 50.9 76.3





#25
Phenanthrene
Concen: 0.185 ng
RT: 17.148 min Scan# 1685
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

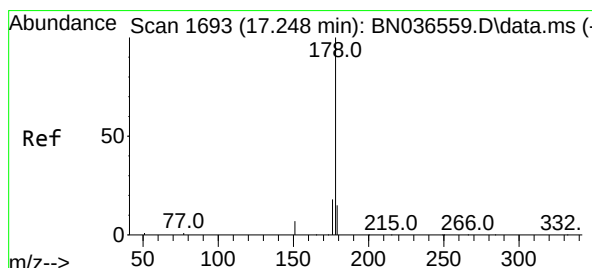
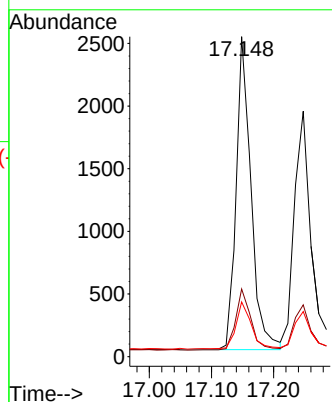
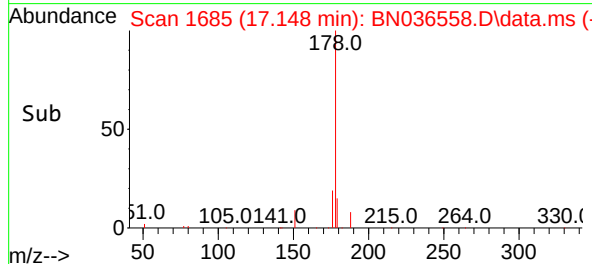
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:178 Resp: 417
Ion Ratio Lower Upper
178 100
176 20.0 15.9 23.9
179 15.5 12.2 18.4

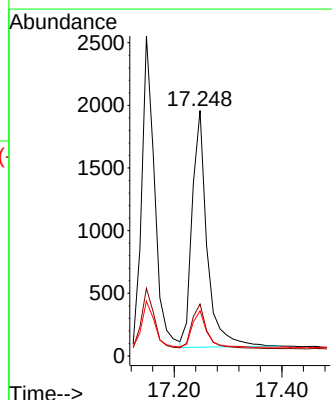
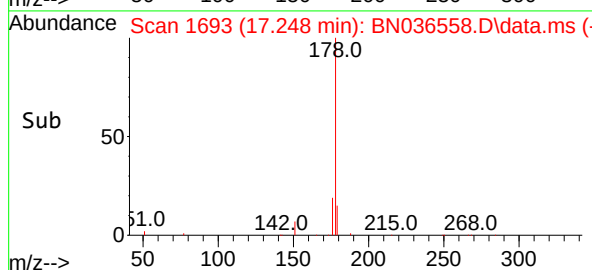
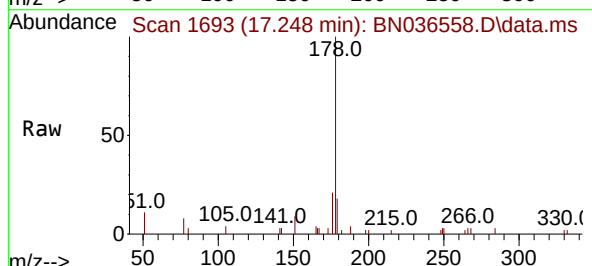
Manual Integrations
APPROVED

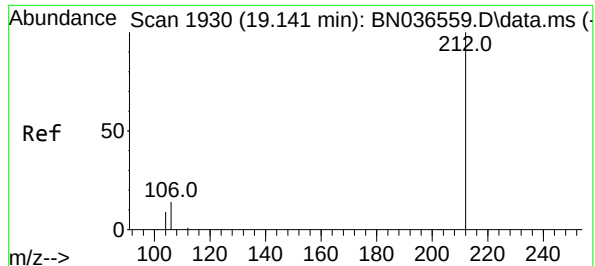
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#26
Anthracene
Concen: 0.179 ng
RT: 17.248 min Scan# 1693
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:178 Resp: 3645
Ion Ratio Lower Upper
178 100
176 19.1 15.4 23.2
179 15.1 12.6 18.8





#27

Fluoranthene-d10

Concen: 0.186 ng

RT: 19.146 min Scan# 1930

Delta R.T. 0.005 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

Instrument :

BNA_N

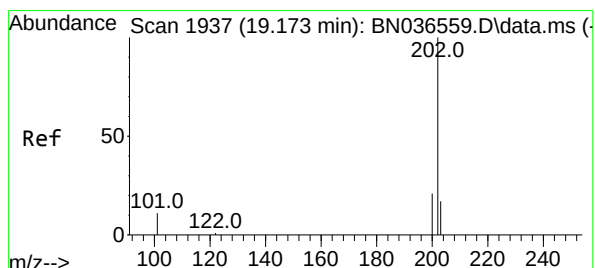
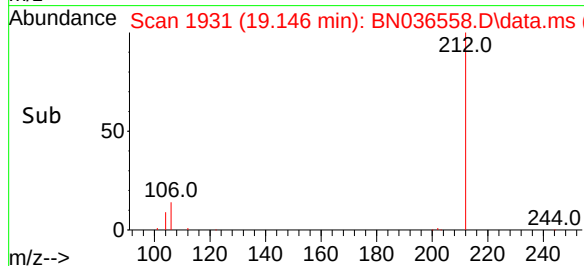
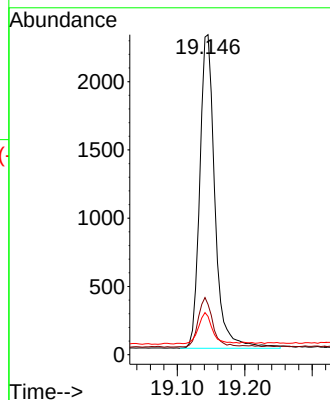
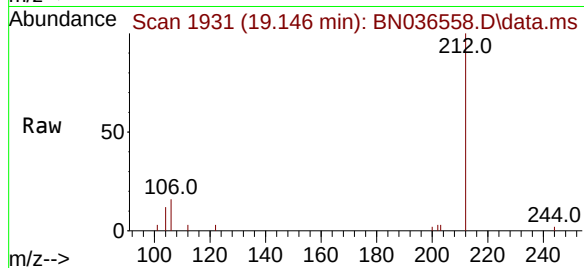
ClientSampleId :

SSTDIC0.2

Tgt Ion:	212	Resp:	358
Ion	Ratio	Lower	Upper
212	100		
106	15.0	11.8	17.6
104	9.3	7.3	10.9

Manual Integrations
APPROVED

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



#28

Fluoranthene

Concen: 0.184 ng

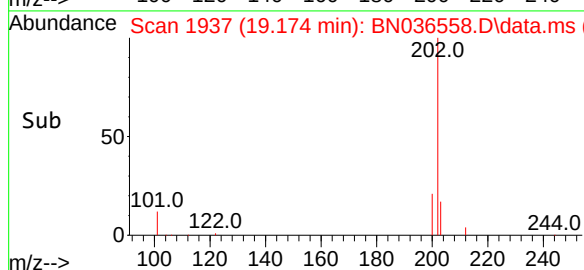
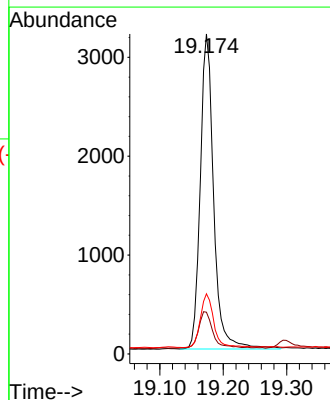
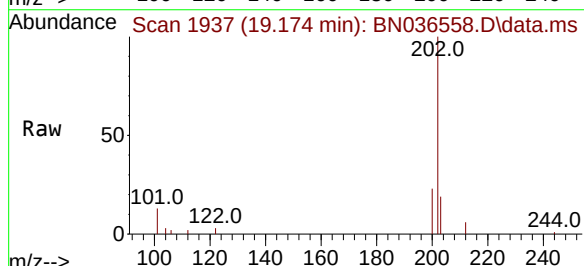
RT: 19.174 min Scan# 1937

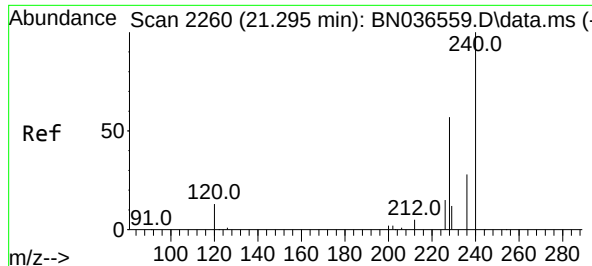
Delta R.T. 0.000 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

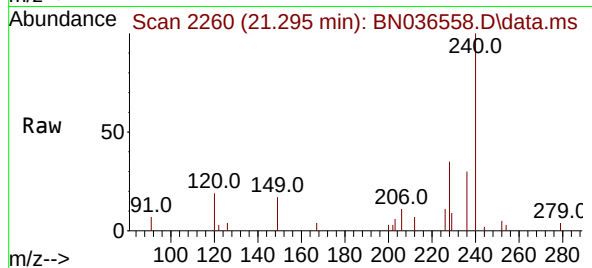
Tgt Ion:	202	Resp:	4666
Ion	Ratio	Lower	Upper
202	100		
101	12.1	9.4	14.0
203	17.1	13.5	20.3





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2126
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

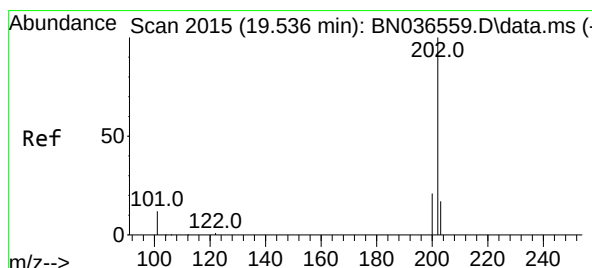
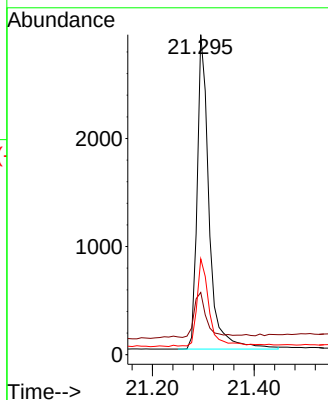
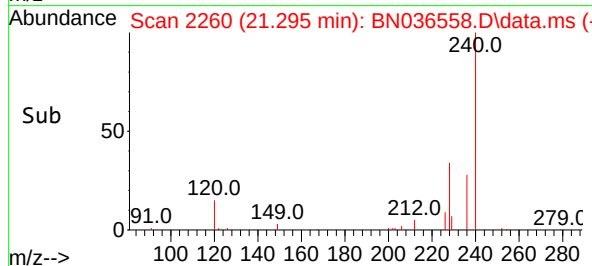
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:240 Resp: 4730
Ion Ratio Lower Upper
240 100
120 19.5 14.6 22.0
236 29.9 24.1 36.1

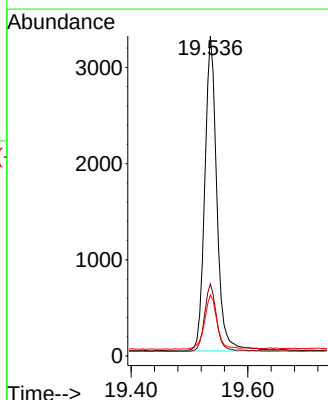
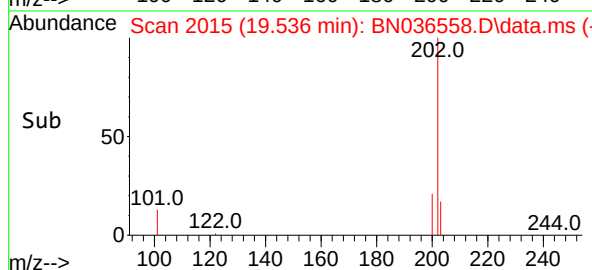
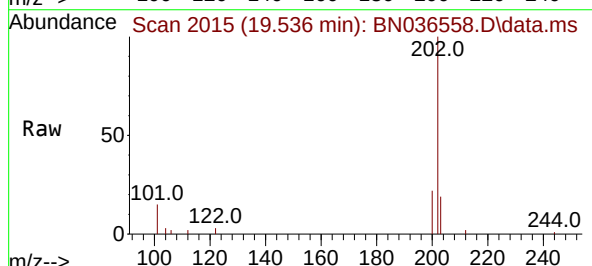
Manual Integrations
APPROVED

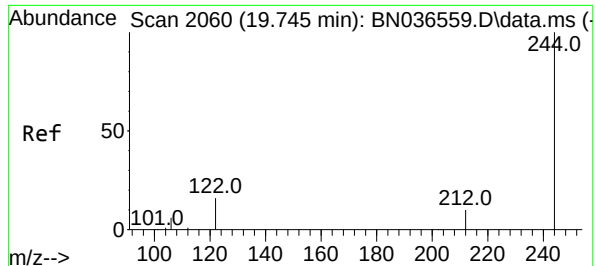
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#30
Pyrene
Concen: 0.205 ng
RT: 19.536 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:202 Resp: 4742
Ion Ratio Lower Upper
202 100
200 21.1 17.1 25.7
203 17.7 14.1 21.1





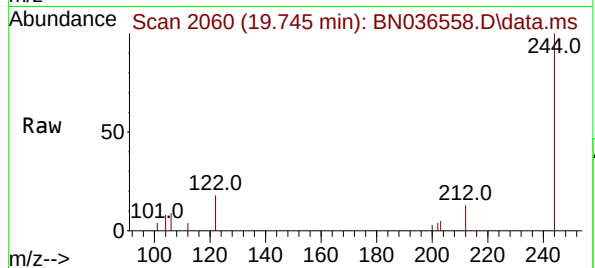
#31
Terphenyl-d14
Concen: 0.201 ng
RT: 19.745 min Scan# 2060
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Instrument :

BNA_N

ClientSampleId :

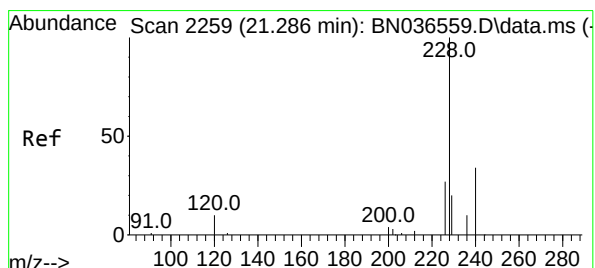
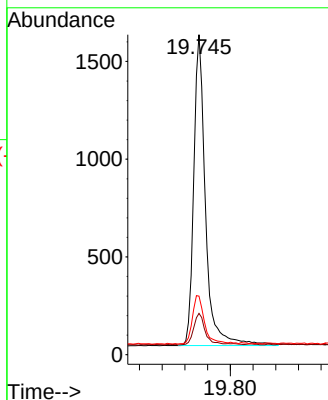
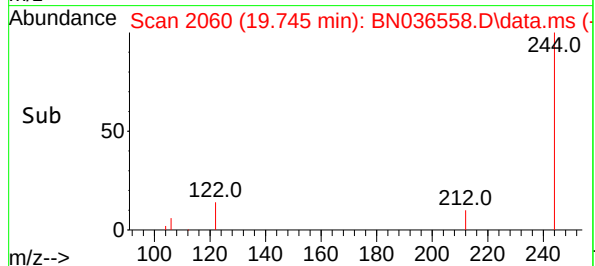
SSTDICC0.2



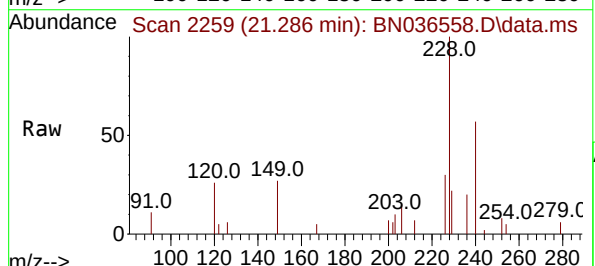
Tgt Ion:244 Resp: 228
Ion Ratio Lower Upper
244 100
212 12.9 9.6 14.4
122 18.3 13.9 20.9

Manual Integrations
APPROVED

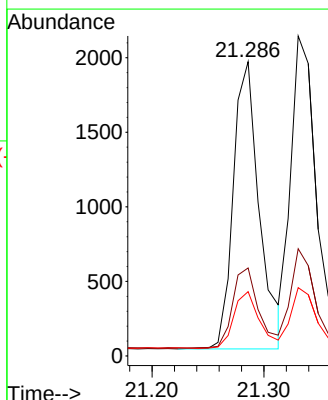
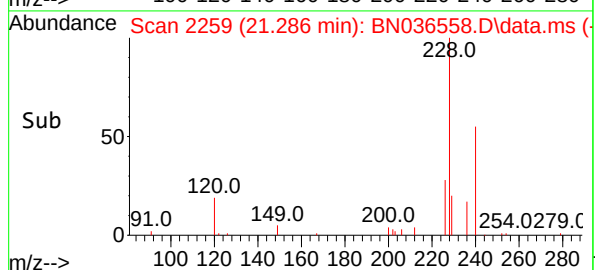
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

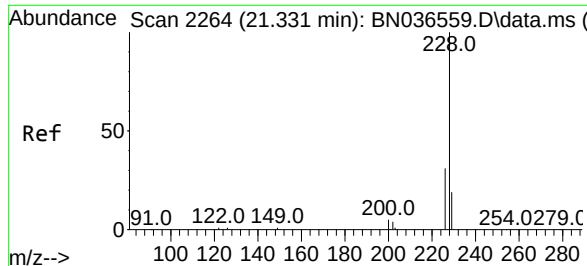


#32
Benzo(a)anthracene
Concen: 0.189 ng
RT: 21.286 min Scan# 2259
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18



Tgt Ion:228 Resp: 3111
Ion Ratio Lower Upper
228 100
226 29.9 22.5 33.7
229 21.9 16.6 25.0





#33

Chrysene

Concen: 0.199 ng

RT: 21.331 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

Tgt Ion:228 Resp: 356

Ion Ratio Lower Upper

228 100

226 33.5 25.3 37.9

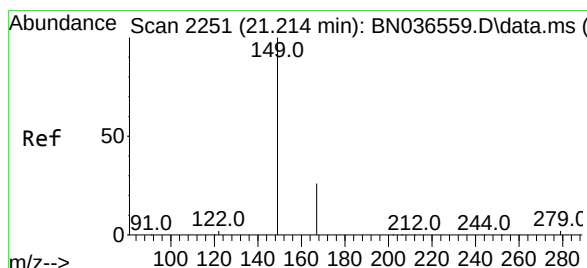
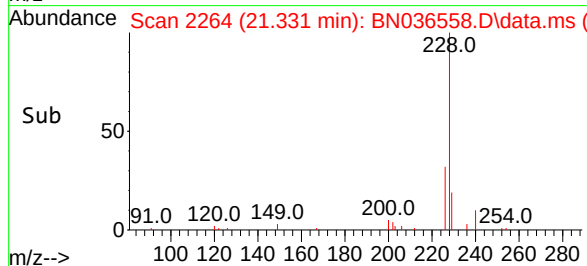
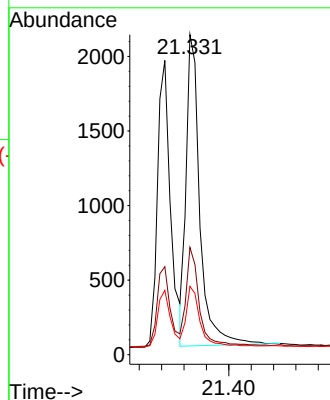
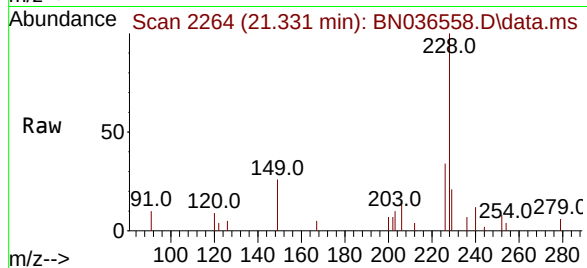
229 21.4 15.8 23.8

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/11/2025

Supervised By :Jagrut Upadhyay 03/11/2025



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.222 ng

RT: 21.214 min Scan# 2251

Delta R.T. 0.000 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

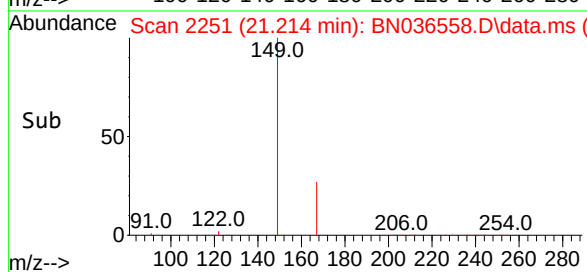
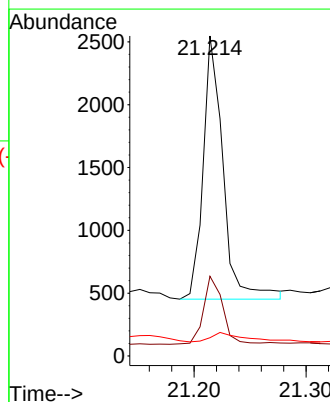
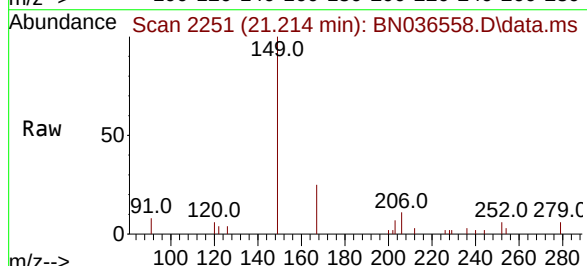
Tgt Ion:149 Resp: 2601

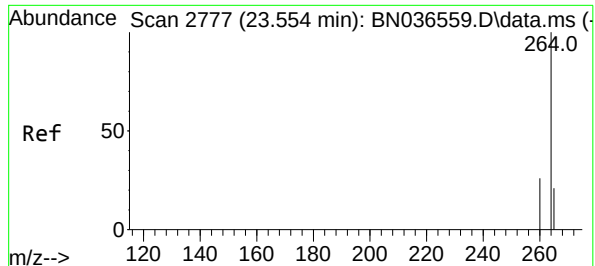
Ion Ratio Lower Upper

149 100

167 24.7 20.7 31.1

279 5.7 3.6 5.4#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.554 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

Tgt Ion:264 Resp: 424

Ion Ratio Lower Upper

264 100

260 26.8 22.6 33.8

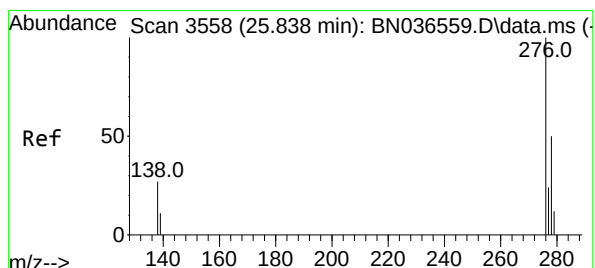
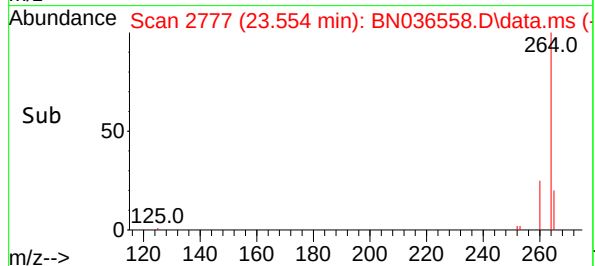
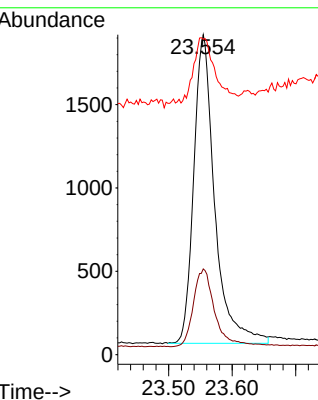
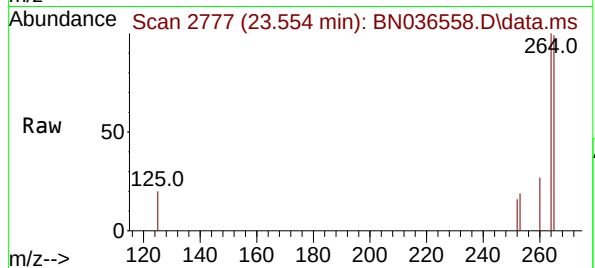
265 98.5 88.1 132.1

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/11/2025

Supervised By :Jagrut Upadhyay 03/11/2025



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.182 ng

RT: 25.844 min Scan# 3560

Delta R.T. 0.006 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

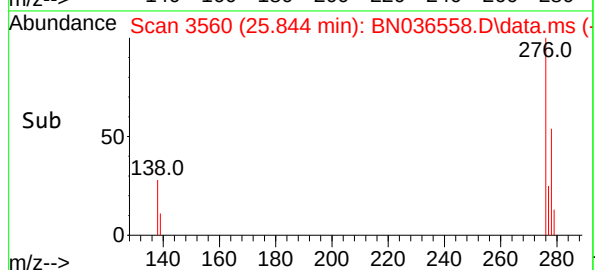
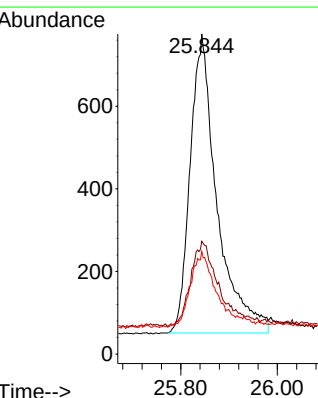
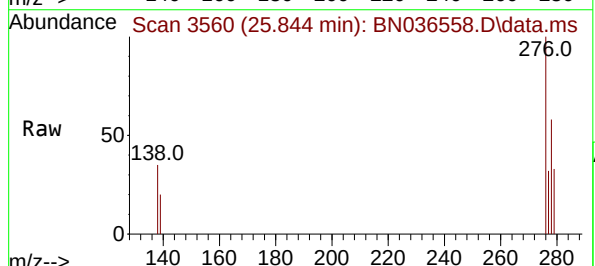
Tgt Ion:276 Resp: 2790

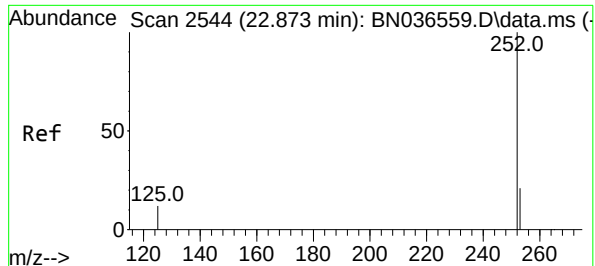
Ion Ratio Lower Upper

276 100

138 29.1 23.4 35.2

277 23.4 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.187 ng

RT: 22.876 min Scan# 2544

Delta R.T. 0.003 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

Instrument :

BNA_N

ClientSampleId :

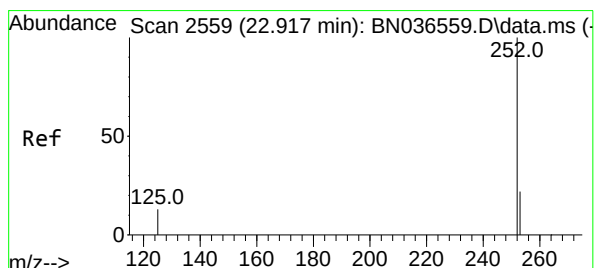
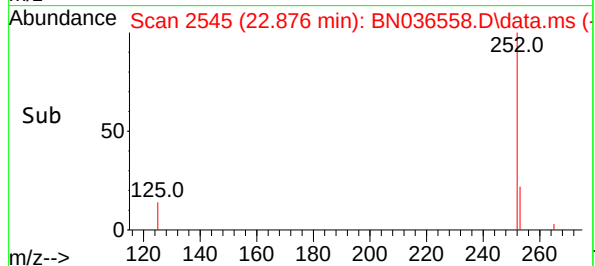
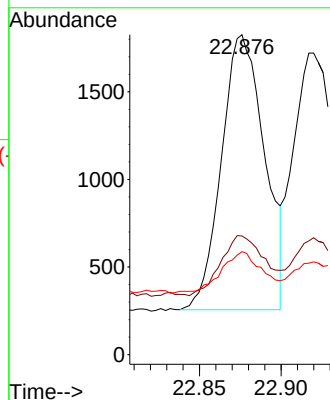
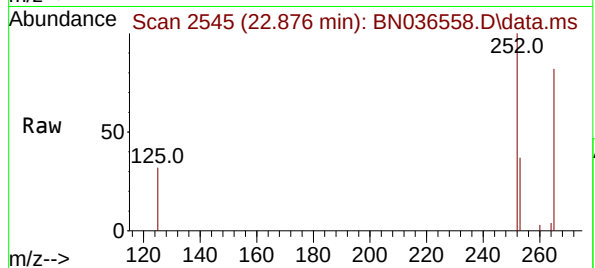
SSTDICC0.2

Tgt Ion:252	Resp:	288
Ion Ratio	Lower	Upper
252	100	
253	37.1	23.9 35.9
125	32.2	17.4 26.2

Manual Integrations

APPROVED

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



#38

Benzo(k)fluoranthene

Concen: 0.183 ng

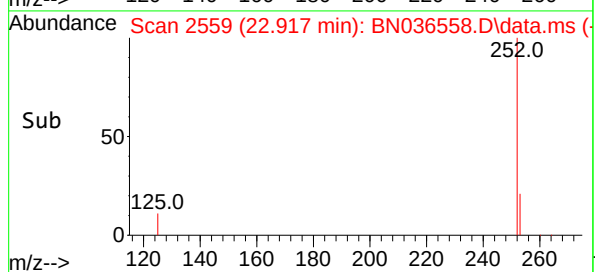
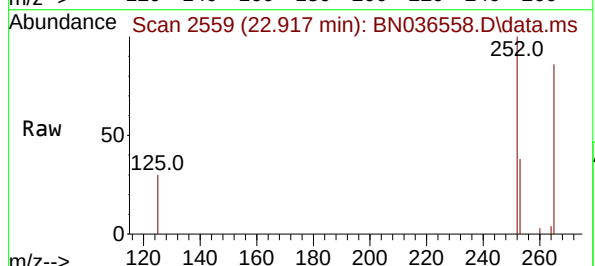
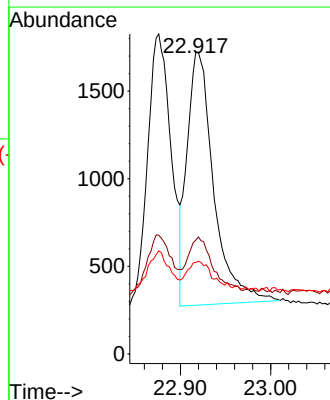
RT: 22.917 min Scan# 2559

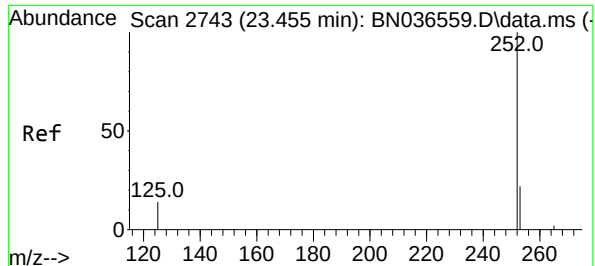
Delta R.T. 0.000 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

Tgt Ion:252	Resp:	2962
Ion Ratio	Lower	Upper
252	100	
253	37.7	24.6 36.8
125	30.3	17.8 26.8





#39

Benzo(a)pyrene

Concen: 0.188 ng

RT: 23.458 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

Instrument :

BNA_N

ClientSampleId :

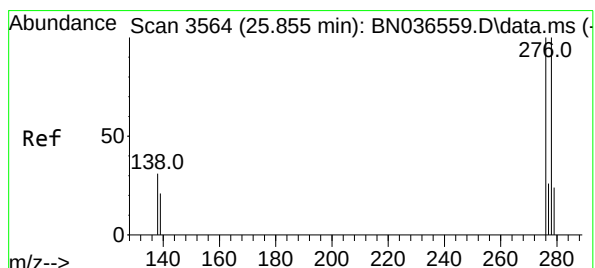
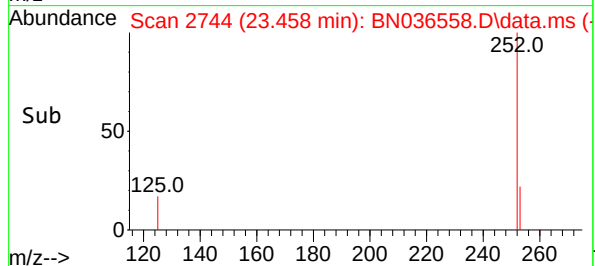
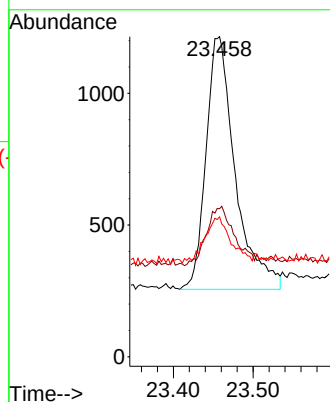
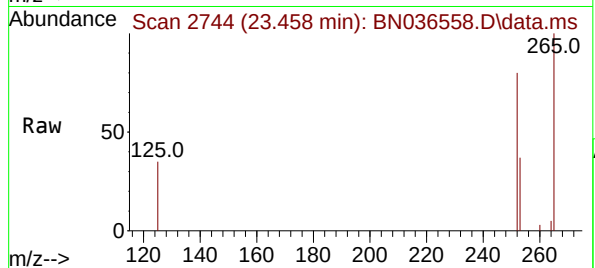
SSTDIC0.2

Tgt Ion:	252	Resp:	244
Ion Ratio	Lower	Upper	
252	100		
253	46.3	27.8	41.8
125	43.7	22.7	34.1

Manual Integrations

APPROVED

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



#40

Dibenzo(a,h)anthracene

Concen: 0.175 ng

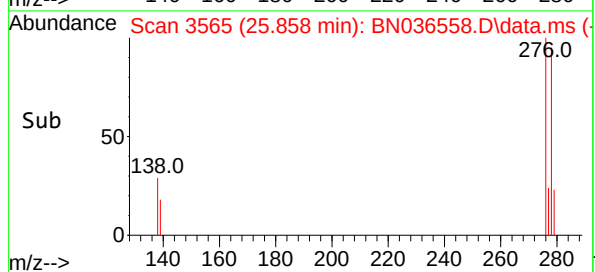
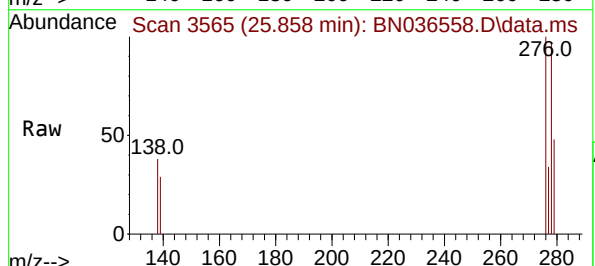
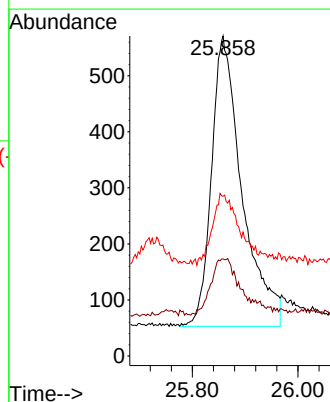
RT: 25.858 min Scan# 3565

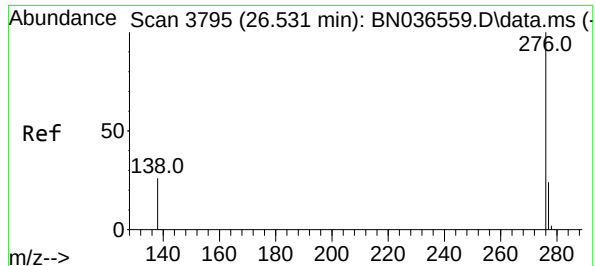
Delta R.T. 0.003 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

Tgt Ion:	278	Resp:	2080
Ion Ratio	Lower	Upper	
278	100		
139	30.3	20.8	31.2
279	49.9	28.8	43.2





#41

Benzo(g,h,i)perylene

Concen: 0.189 ng

RT: 26.536 min Scan# 31

Delta R.T. 0.006 min

Lab File: BN036558.D

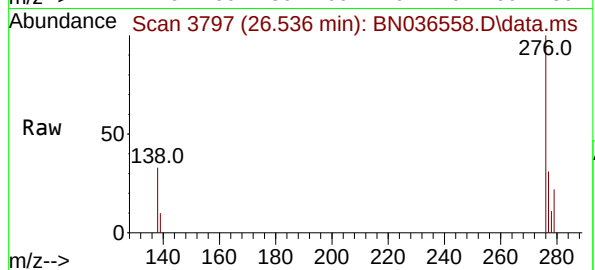
Acq: 10 Mar 2025 12:18

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



Tgt Ion: 276 Resp: 257

Ion Ratio Lower Upper

276 100

277 31.2 22.2 33.4

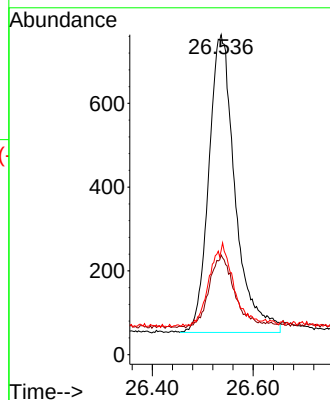
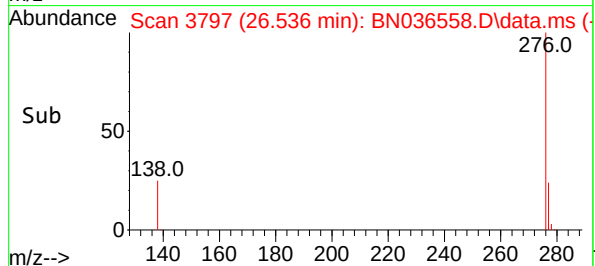
138 32.6 24.1 36.1

Manual Integrations

APPROVED

Reviewed By : Anahy Claudio 03/11/2025

Supervised By : Jagrut Upadhyay 03/11/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
 Data File : BN036559.D
 Acq On : 10 Mar 2025 12:54
 Operator : RC/JU
 Sample : SSTDICCC0.4
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCC0.4

Quant Time: Mar 10 16:01:26 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 15:54:23 2025
 Response via : Initial Calibration

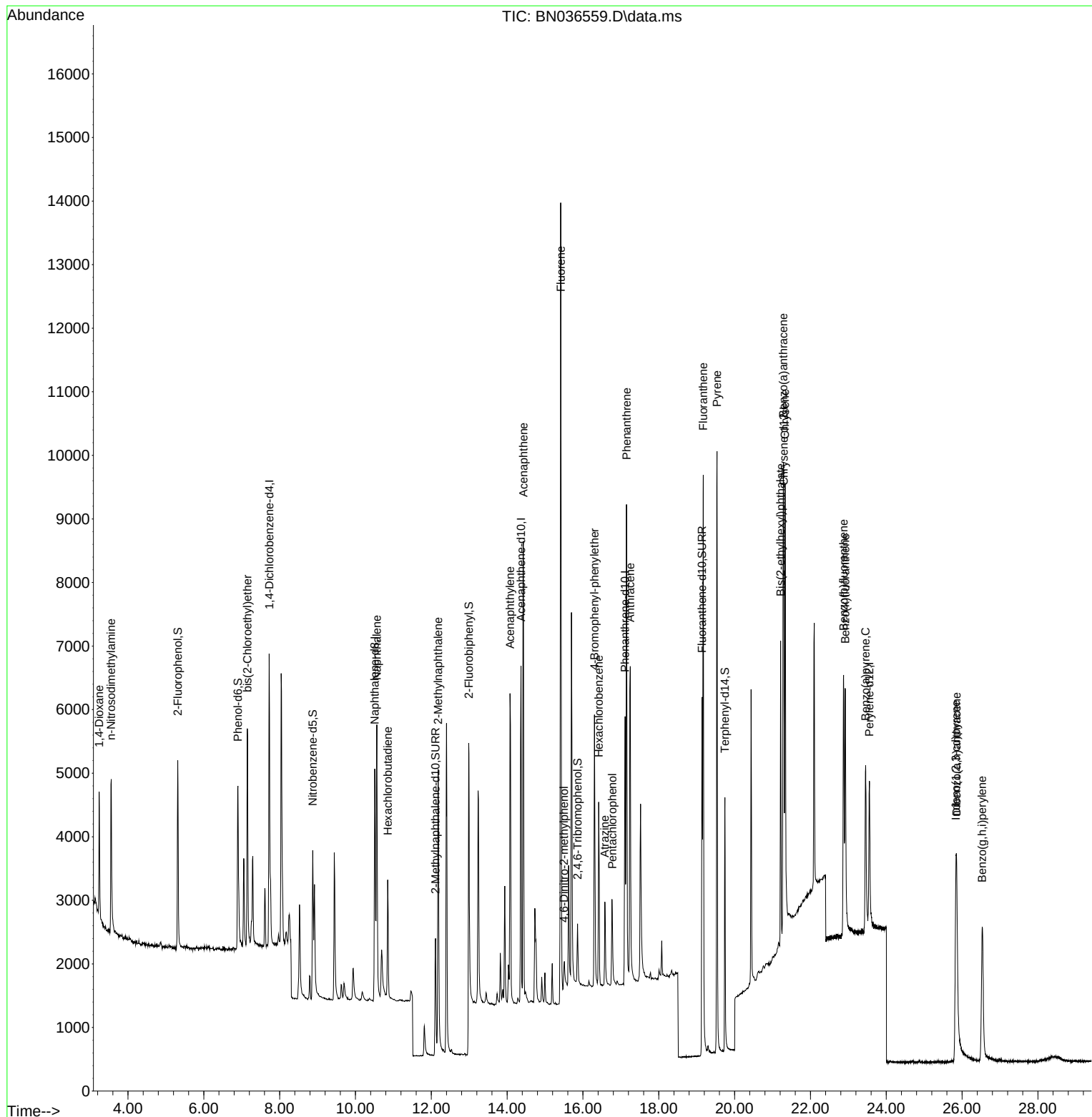
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2207	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	5091	0.400	ng	0.00
13) Acenaphthene-d10	14.366	164	3026	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	6005	0.400	ng	0.00
29) Chrysene-d12	21.295	240	4110	0.400	ng	0.00
35) Perylene-d12	23.554	264	3539	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	2178	0.423	ng	0.00
5) Phenol-d6	6.901	99	2489	0.392	ng	0.00
8) Nitrobenzene-d5	8.875	82	2113	0.382	ng	0.00
11) 2-Methylnaphthalene-d10	12.111	152	3085	0.407	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	567	0.413	ng	0.00
15) 2-Fluorobiphenyl	12.988	172	7257	0.412	ng	0.00
27) Fluoranthene-d10	19.141	212	6699	0.435	ng	0.00
31) Terphenyl-d14	19.745	244	4226	0.429	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.239	88	1099	0.449	ng	100
3) n-Nitrosodimethylamine	3.550	42	2063	0.417	ng	100
6) bis(2-Chloroethyl)ether	7.154	93	2610	0.397	ng	100
9) Naphthalene	10.562	128	6139	0.410	ng	100
10) Hexachlorobutadiene	10.850	225	1498	0.425	ng	# 100
12) 2-Methylnaphthalene	12.182	142	3897	0.409	ng	100
16) Acenaphthylene	14.077	152	5865	0.411	ng	100
17) Acenaphthene	14.430	154	3877	0.415	ng	100
18) Fluorene	15.414	166	5338	0.422	ng	100
20) 4,6-Dinitro-2-methylph...	15.499	198	462	0.447	ng	100
21) 4-Bromophenyl-phenylether	16.304	248	1644	0.437	ng	100
22) Hexachlorobenzene	16.416	284	2018	0.444	ng	100
23) Atrazine	16.577	200	1279	0.424	ng	100
24) Pentachlorophenol	16.776	266	821	0.396	ng	100
25) Phenanthrene	17.148	178	7786	0.432	ng	100
26) Anthracene	17.248	178	6886	0.424	ng	100
28) Fluoranthene	19.173	202	8717	0.431	ng	100
30) Pyrene	19.536	202	8759	0.436	ng	100
32) Benzo(a)anthracene	21.286	228	5908	0.413	ng	100
33) Chrysene	21.331	228	6617	0.424	ng	100
34) Bis(2-ethylhexyl)phtha...	21.214	149	4291	0.422	ng	100
36) Indeno(1,2,3-cd)pyrene	25.838	276	5470	0.428	ng	100
37) Benzo(b)fluoranthene	22.873	252	5475	0.425	ng	100
38) Benzo(k)fluoranthene	22.917	252	5732	0.424	ng	100
39) Benzo(a)pyrene	23.455	252	4612	0.425	ng	100
40) Dibenzo(a,h)anthracene	25.855	278	4117	0.414	ng	100
41) Benzo(g,h,i)perylene	26.531	276	4891	0.430	ng	100

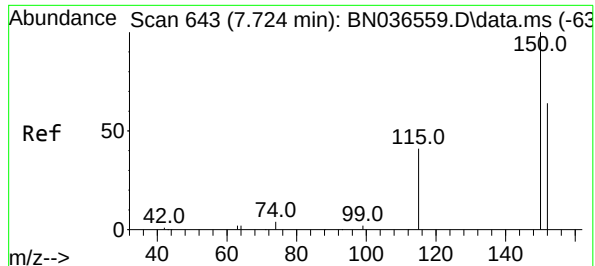
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036559.D
Acq On : 10 Mar 2025 12:54
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Mar 10 16:01:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration

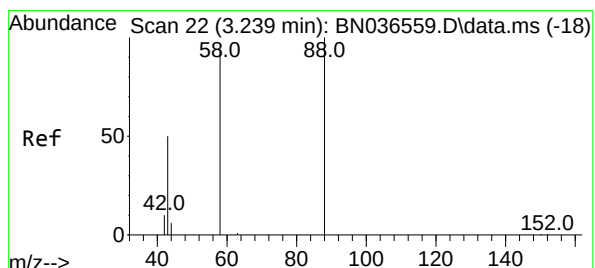
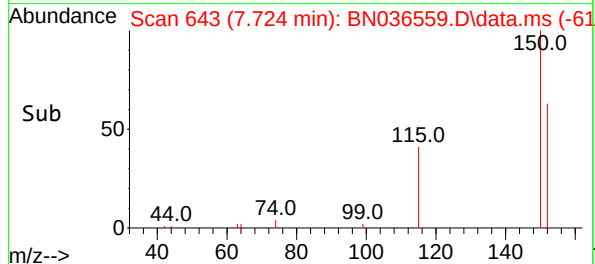
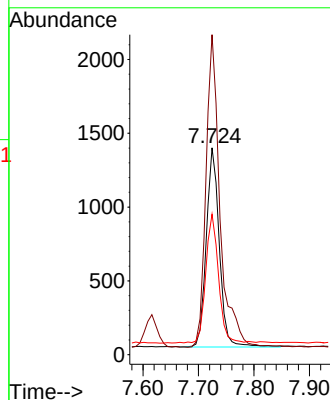
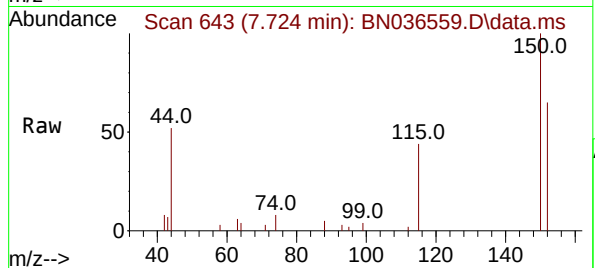




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

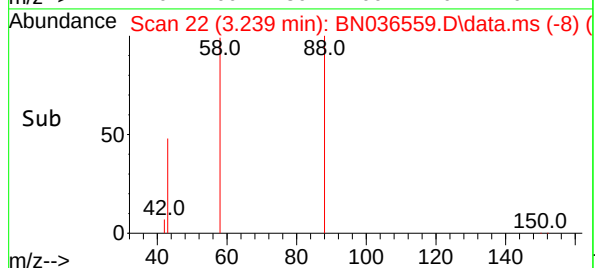
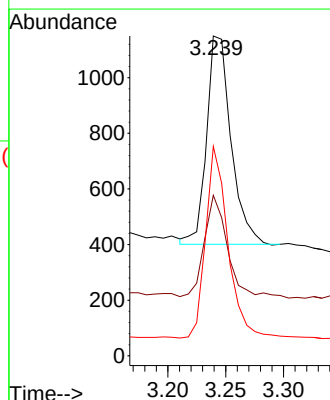
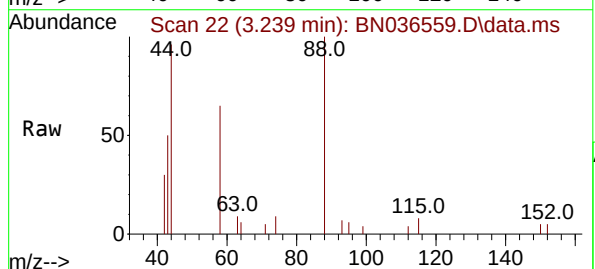
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

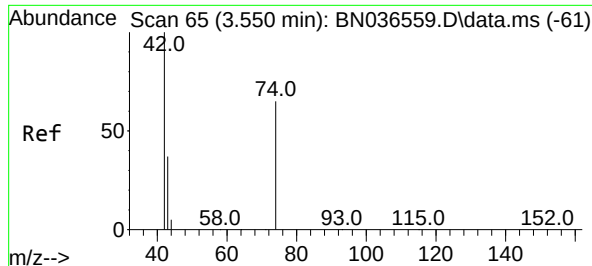
Tgt Ion:152 Resp: 2207
Ion Ratio Lower Upper
152 100
150 154.6 123.7 185.5
115 67.9 54.3 81.5



#2
1,4-Dioxane
Concen: 0.449 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion: 88 Resp: 1099
Ion Ratio Lower Upper
88 100
43 47.3 37.8 56.8
58 84.3 67.4 101.2

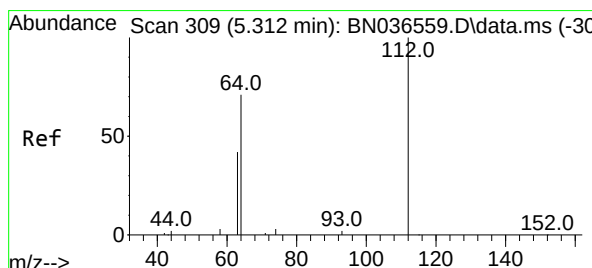
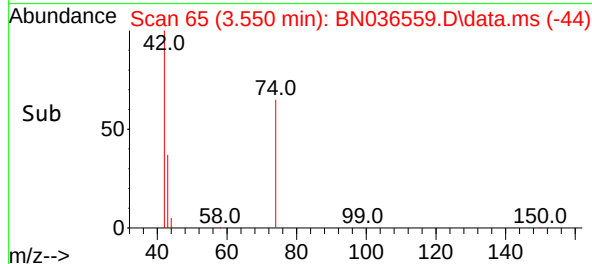
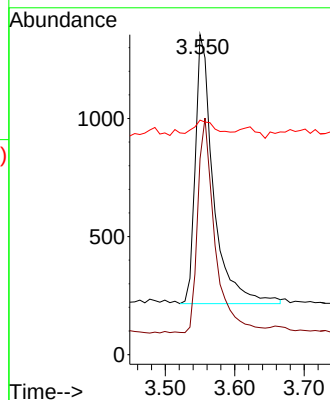
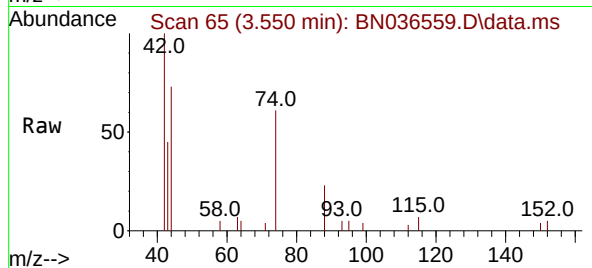




#3
n-Nitrosodimethylamine
Concen: 0.417 ng
RT: 3.550 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

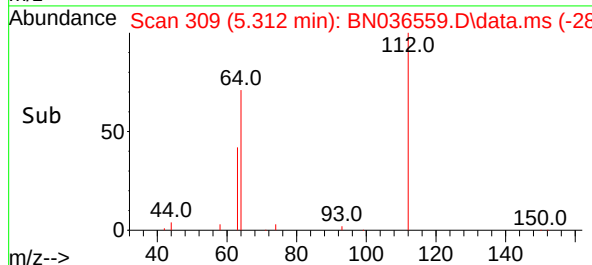
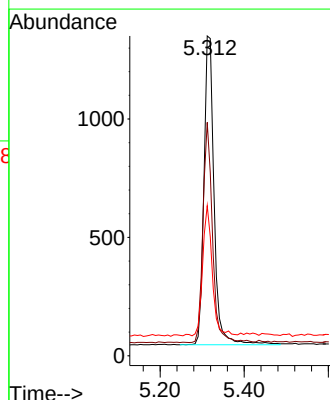
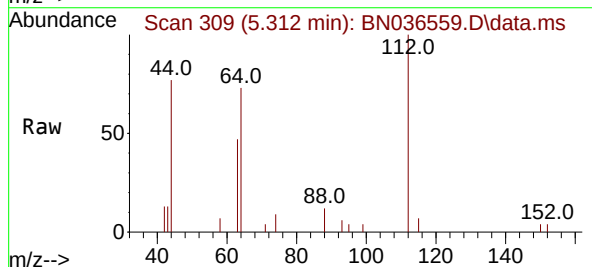
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

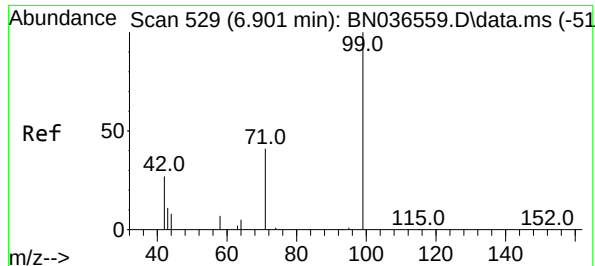
Tgt Ion: 42 Resp: 2063
Ion Ratio Lower Upper
42 100
74 75.7 60.6 90.8
44 7.9 6.3 9.5



#4
2-Fluorophenol
Concen: 0.423 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion: 112 Resp: 2178
Ion Ratio Lower Upper
112 100
64 66.4 53.1 79.7
63 39.8 31.8 47.8





#5

Phenol-d6

Concen: 0.392 ng

RT: 6.901 min Scan# 51

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

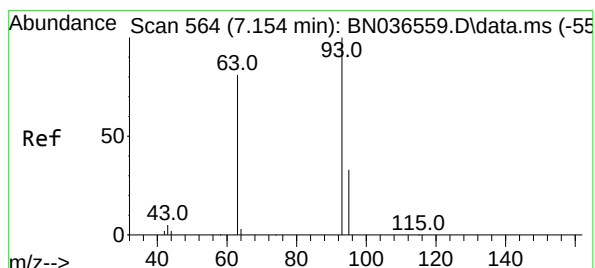
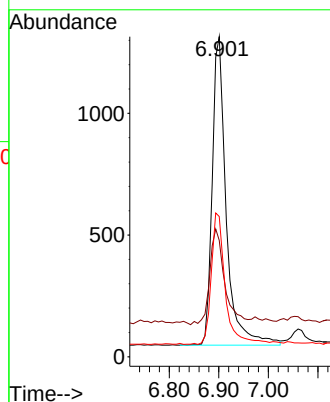
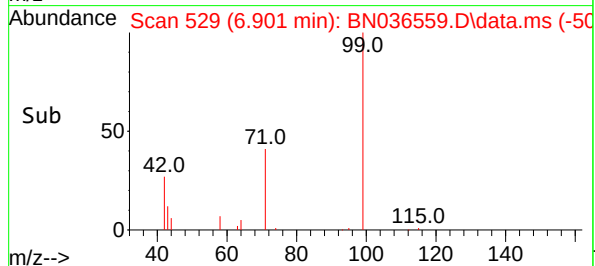
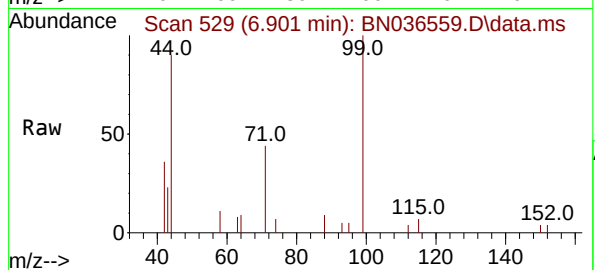
Tgt Ion: 99 Resp: 2489

Ion Ratio Lower Upper

99 100

42 33.1 26.5 39.7

71 42.6 34.1 51.1



#6

bis(2-Chloroethyl)ether

Concen: 0.397 ng

RT: 7.154 min Scan# 564

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

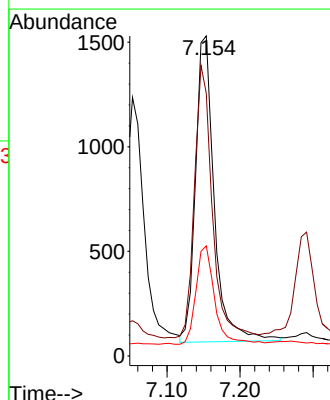
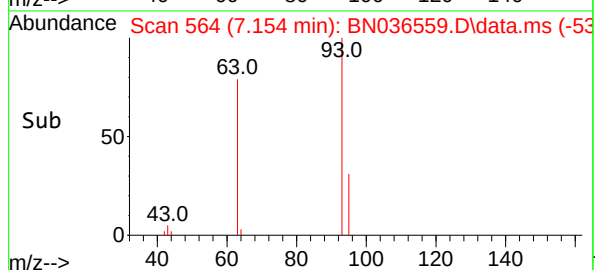
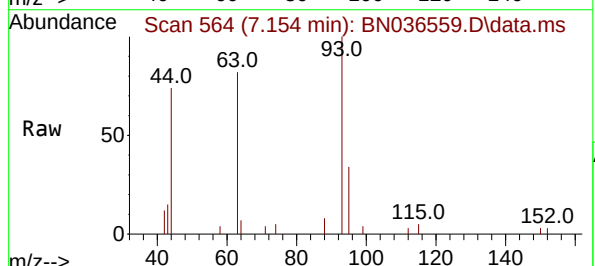
Tgt Ion: 93 Resp: 2610

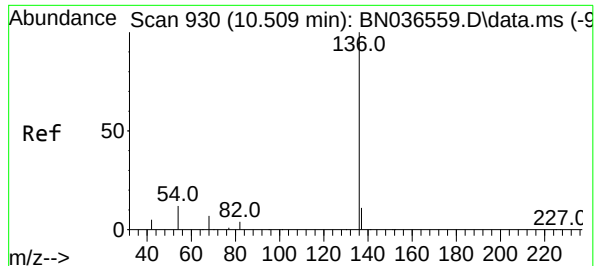
Ion Ratio Lower Upper

93 100

63 84.6 67.7 101.5

95 32.0 25.6 38.4

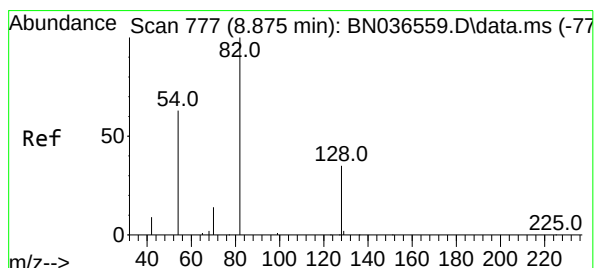
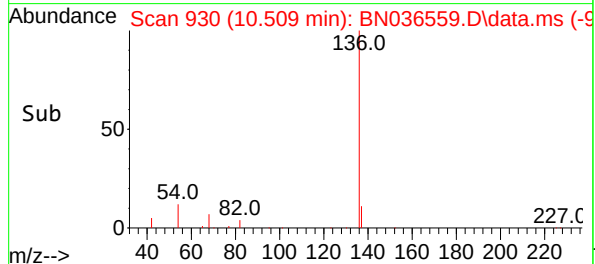
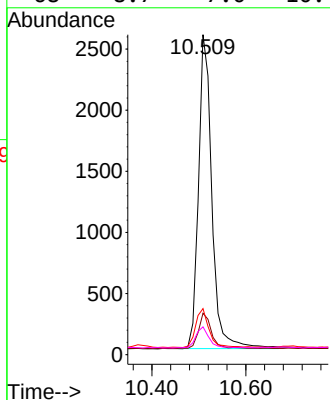
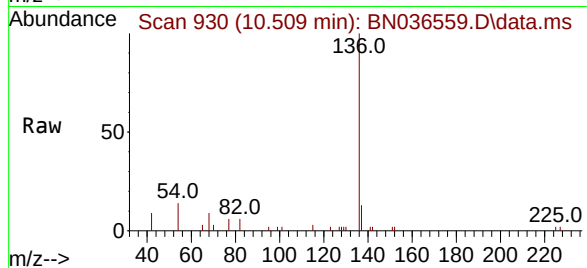




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

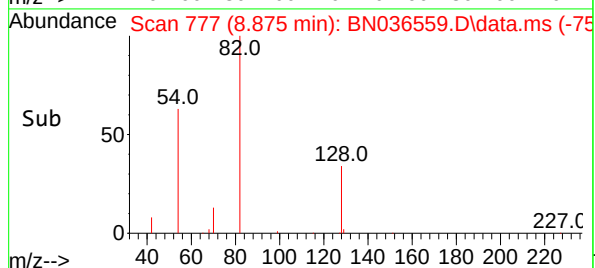
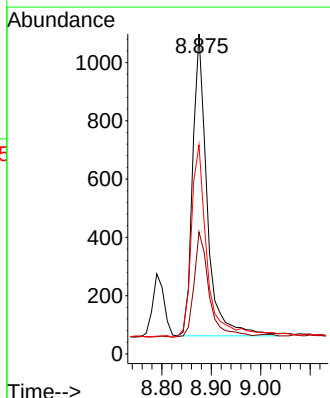
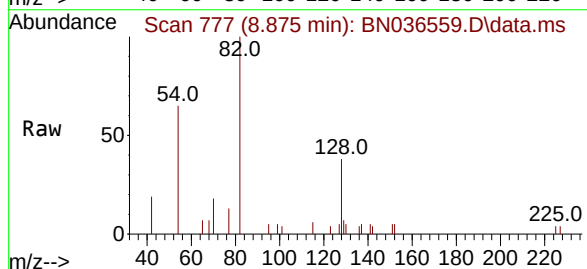
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

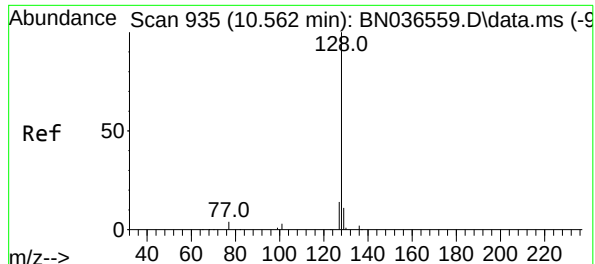
Tgt Ion:	136	Resp:	5091
Ion	Ratio	Lower	Upper
136	100		
137	12.9	10.3	15.5
54	14.4	11.5	17.3
68	8.7	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.382 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:	82	Resp:	2113
Ion	Ratio	Lower	Upper
82	100		
128	38.2	30.6	45.8
54	65.3	52.2	78.4

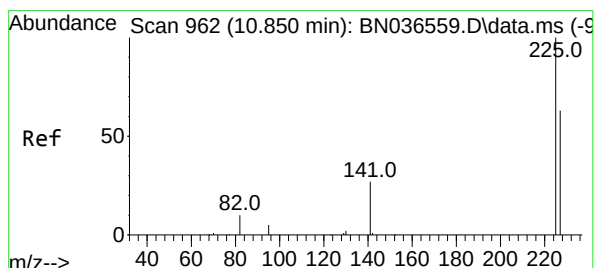
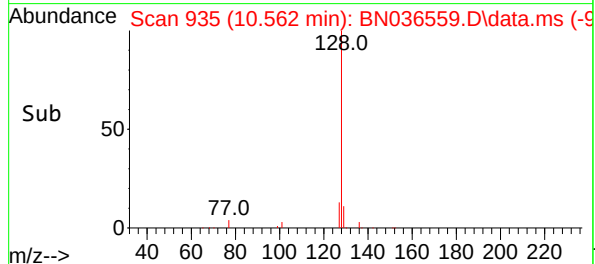
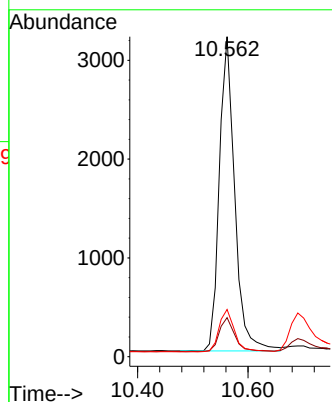
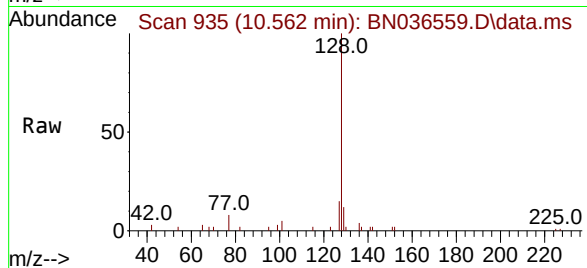




#9
Naphthalene
Concen: 0.410 ng
RT: 10.562 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

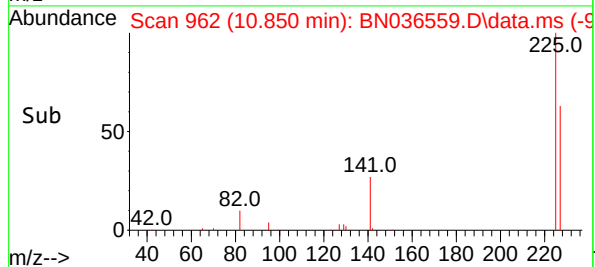
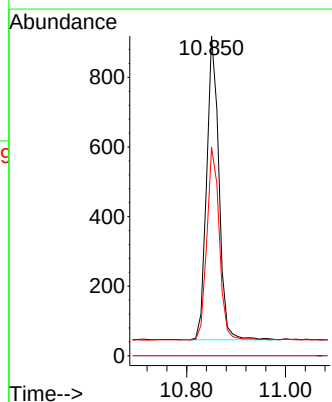
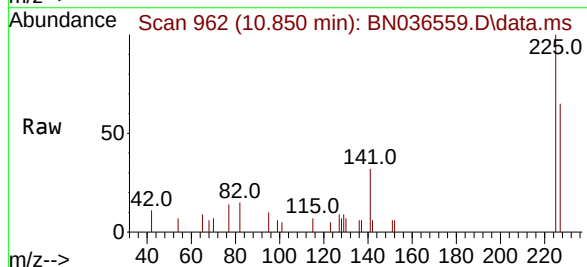
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

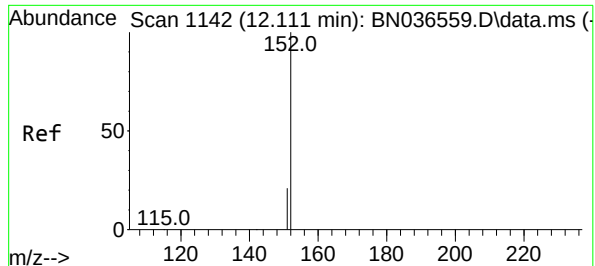
Tgt Ion:128 Resp: 6139
Ion Ratio Lower Upper
128 100
129 12.2 9.8 14.6
127 14.8 11.8 17.8



#10
Hexachlorobutadiene
Concen: 0.425 ng
RT: 10.850 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:225 Resp: 1498
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.8 51.8 77.8

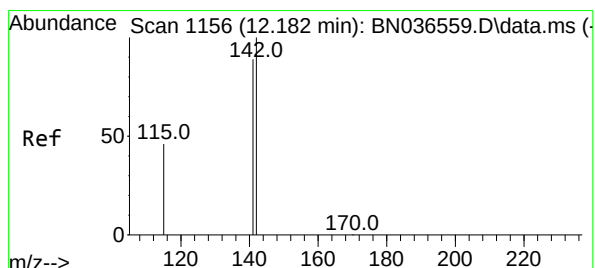
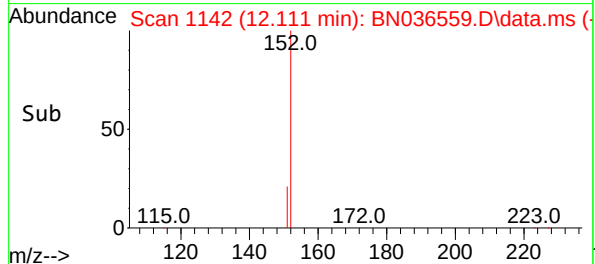
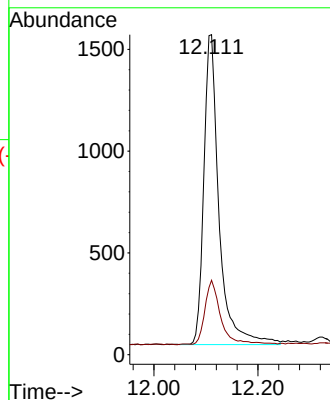
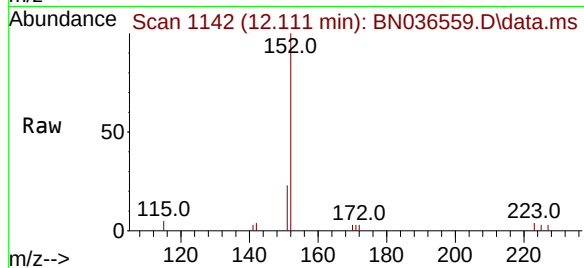




#11
2-Methylnaphthalene-d10
Concen: 0.407 ng
RT: 12.111 min Scan# 1142
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

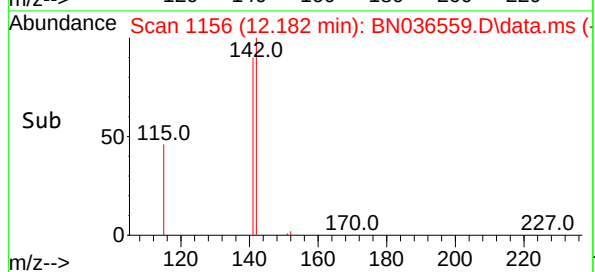
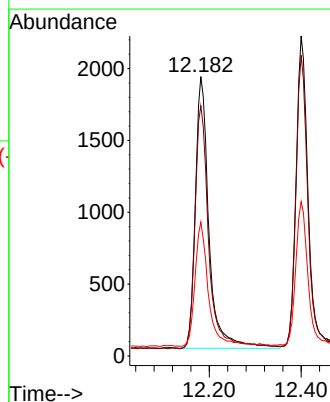
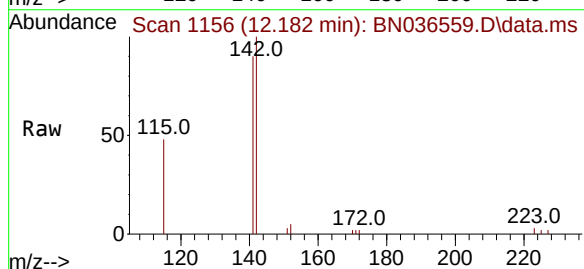
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

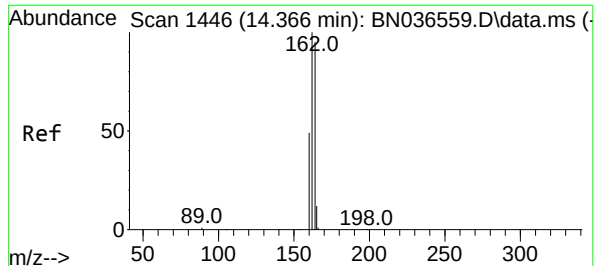
Tgt Ion:152 Resp: 3085
Ion Ratio Lower Upper
152 100
151 21.3 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.409 ng
RT: 12.182 min Scan# 1156
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:142 Resp: 3897
Ion Ratio Lower Upper
142 100
141 89.6 71.7 107.5
115 47.9 38.3 57.5

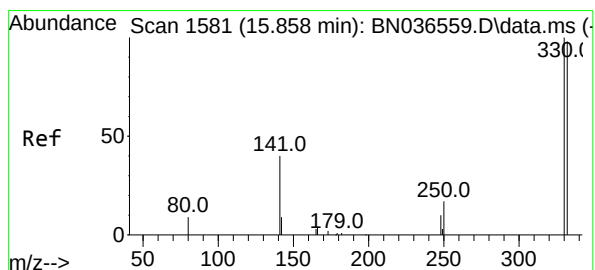
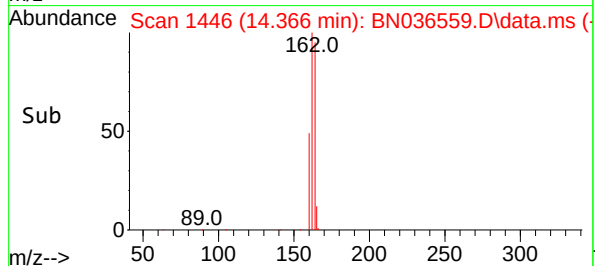
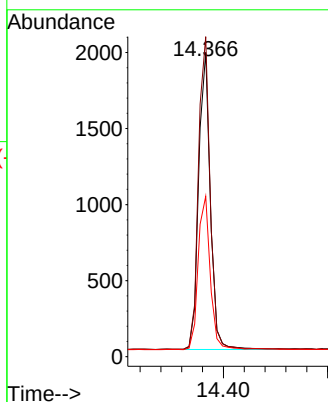
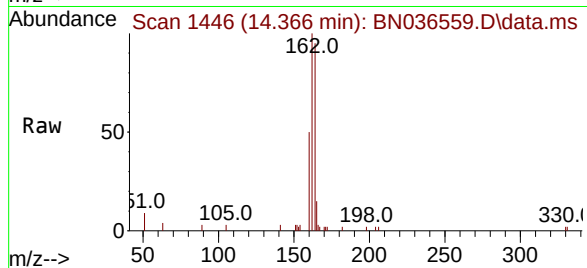




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

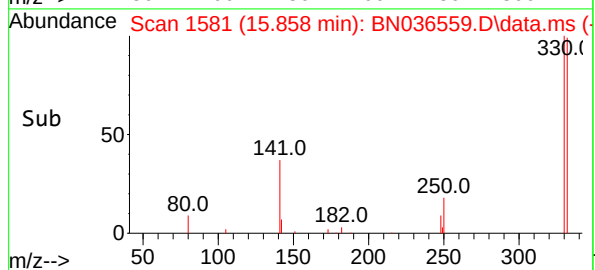
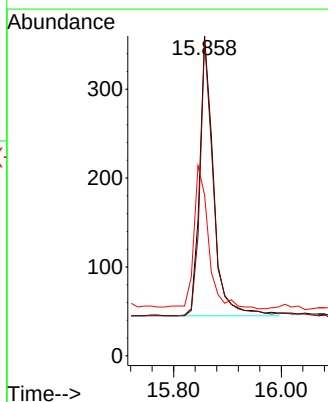
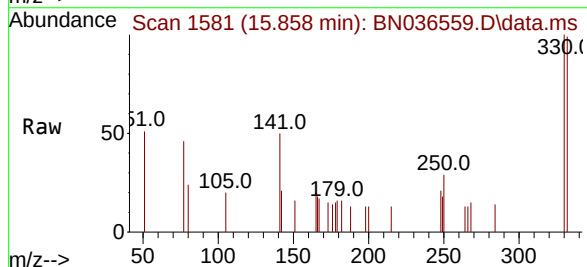
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

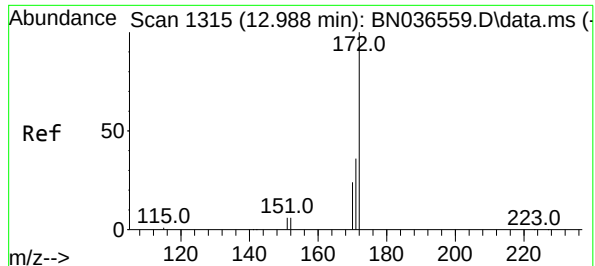
Tgt Ion:164 Resp: 3026
Ion Ratio Lower Upper
164 100
162 105.2 84.2 126.2
160 52.7 42.2 63.2



#14
2,4,6-Tribromophenol
Concen: 0.413 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:330 Resp: 567
Ion Ratio Lower Upper
330 100
332 94.0 75.2 112.8
141 54.3 43.4 65.2





#15

2-Fluorobiphenyl

Concen: 0.412 ng

RT: 12.988 min Scan# 1315

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

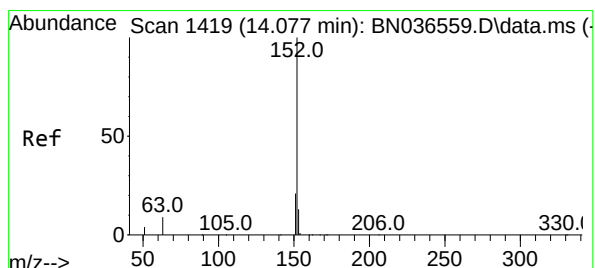
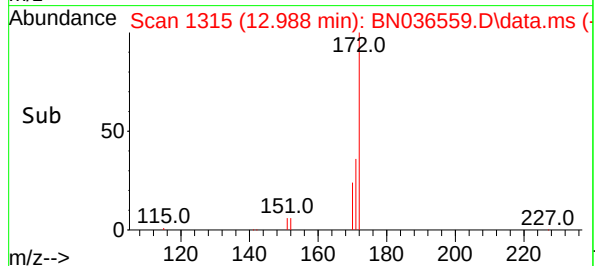
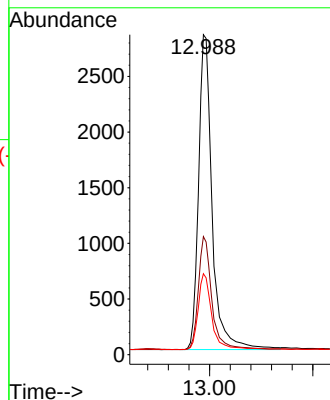
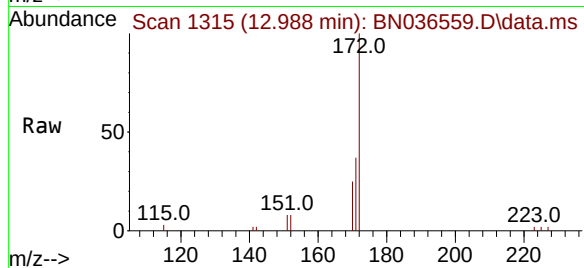
Tgt Ion:172 Resp: 7257

Ion Ratio Lower Upper

172 100

171 36.9 29.5 44.3

170 25.3 20.2 30.4



#16

Acenaphthylene

Concen: 0.411 ng

RT: 14.077 min Scan# 1419

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

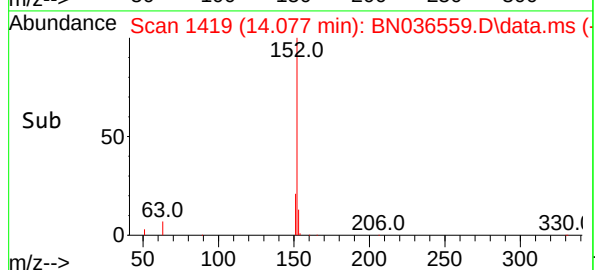
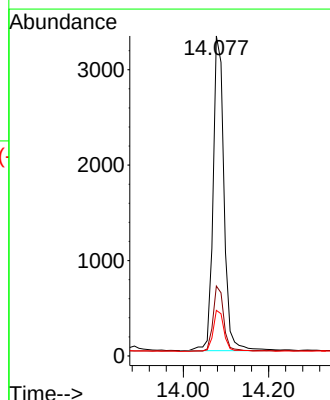
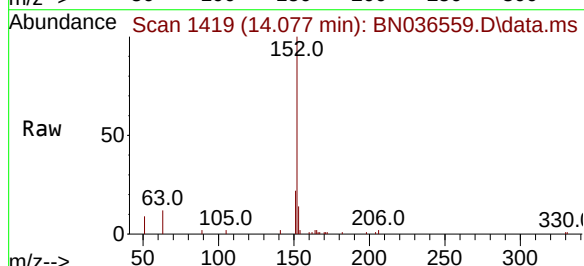
Tgt Ion:152 Resp: 5865

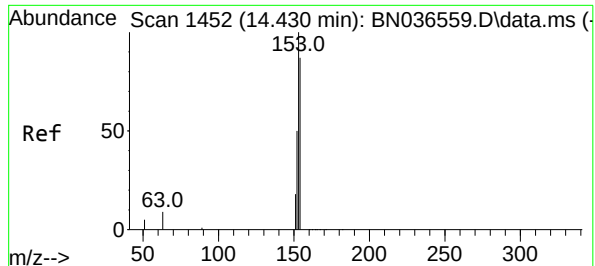
Ion Ratio Lower Upper

152 100

151 20.3 16.2 24.4

153 13.2 10.6 15.8

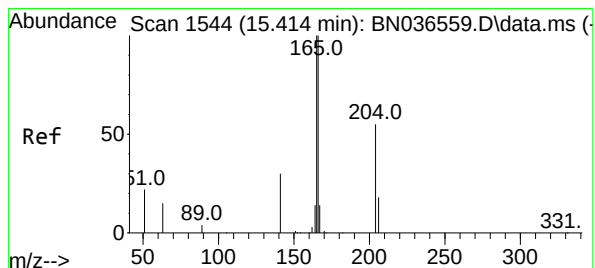
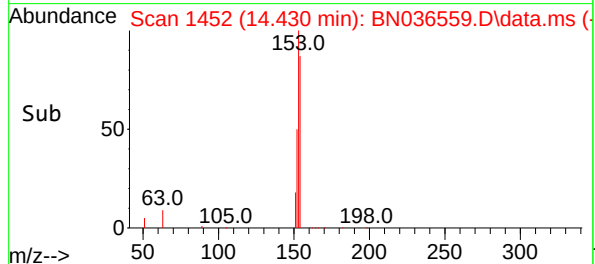
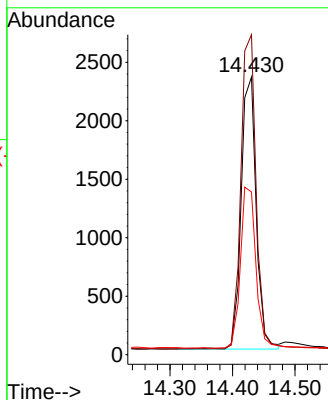
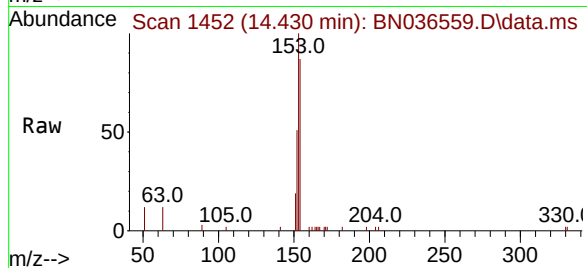




#17
Acenaphthene
Concen: 0.415 ng
RT: 14.430 min Scan# 1452
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

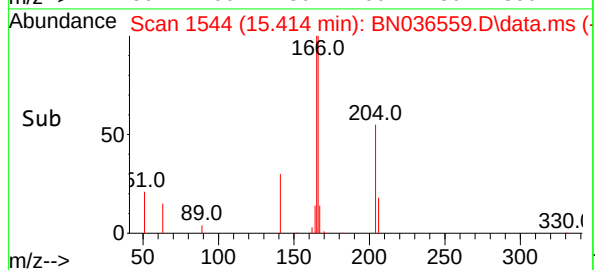
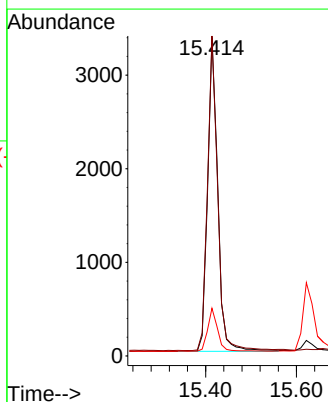
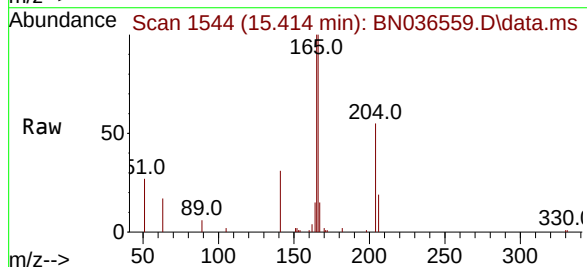
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

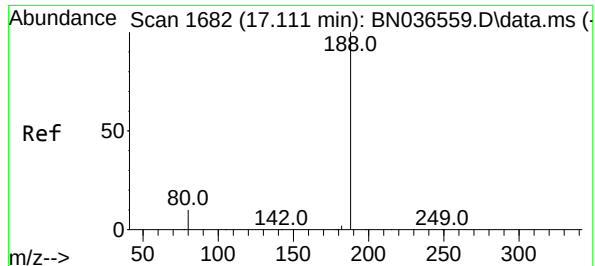
Tgt Ion:154 Resp: 3877
Ion Ratio Lower Upper
154 100
153 117.6 94.1 141.1
152 62.2 49.8 74.6



#18
Fluorene
Concen: 0.422 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:166 Resp: 5338
Ion Ratio Lower Upper
166 100
165 99.8 79.8 119.8
167 13.2 10.6 15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.111 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

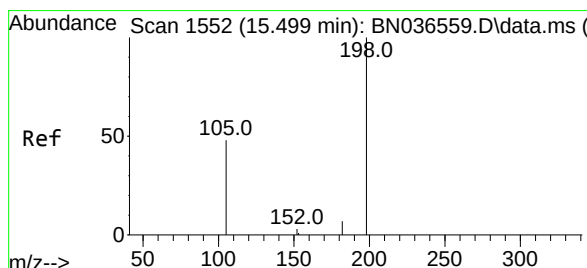
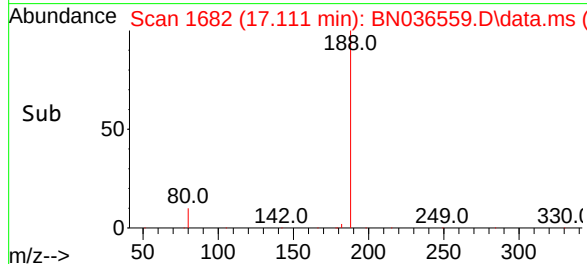
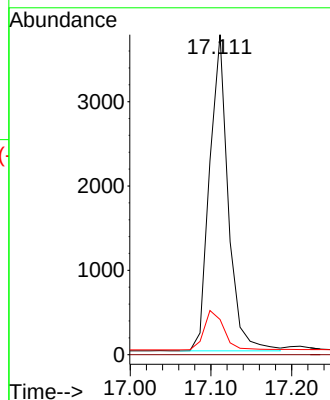
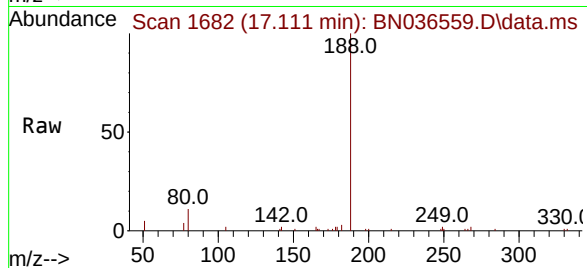
Tgt Ion:188 Resp: 6005

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.0 8.8 13.2



#20

4,6-Dinitro-2-methylphenol

Concen: 0.447 ng

RT: 15.499 min Scan# 1552

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

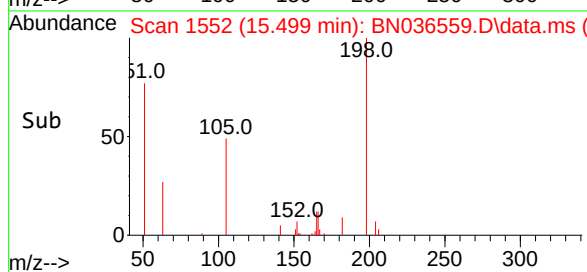
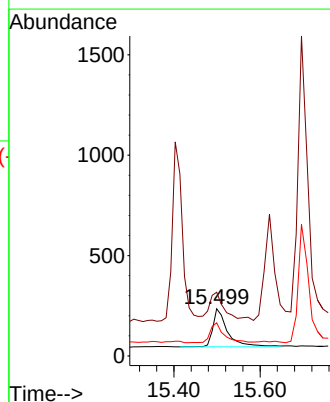
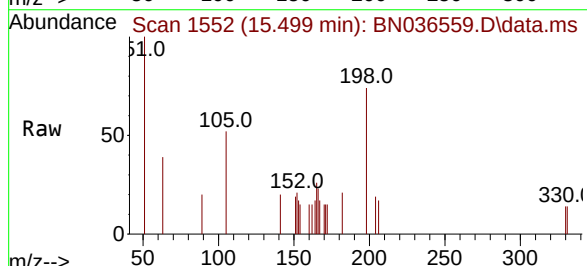
Tgt Ion:198 Resp: 462

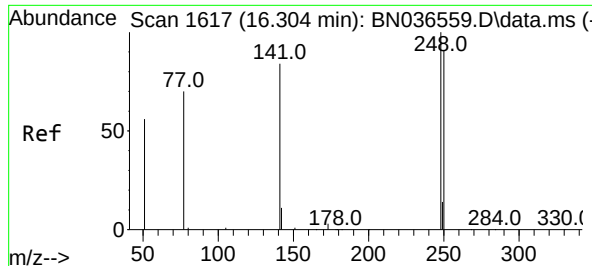
Ion Ratio Lower Upper

198 100

51 134.9 107.9 161.9

105 70.2 56.2 84.2

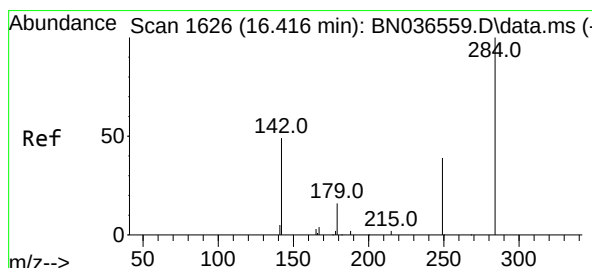
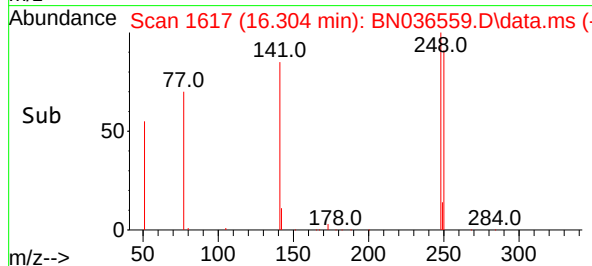
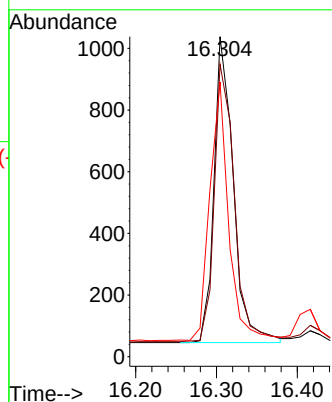
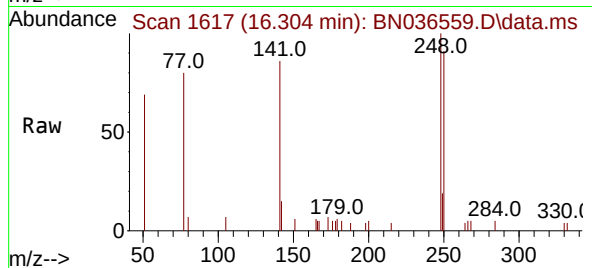




#21
4-Bromophenyl-phenylether
Concen: 0.437 ng
RT: 16.304 min Scan# 1617
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

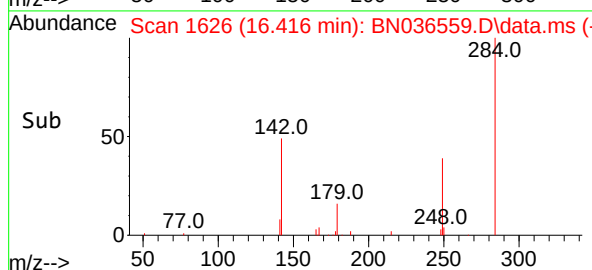
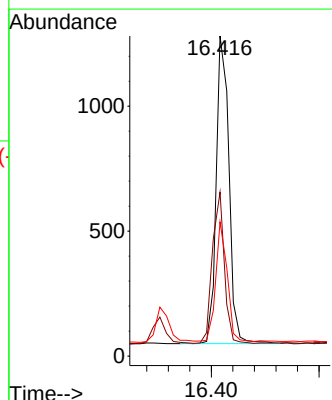
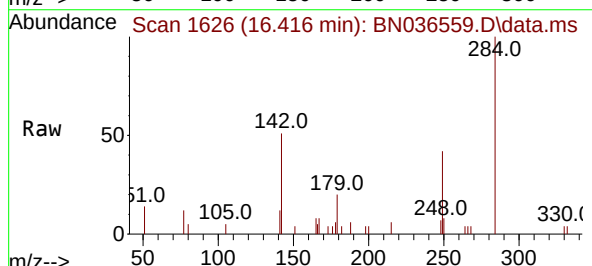
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

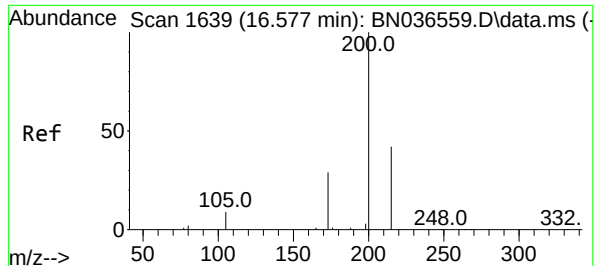
Tgt Ion:	248	Resp:	1644
Ion	Ratio	Lower	Upper
248	100		
250	91.3	73.0	109.6
141	85.8	68.6	103.0



#22
Hexachlorobenzene
Concen: 0.444 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:	284	Resp:	2018
Ion	Ratio	Lower	Upper
284	100		
142	46.2	37.0	55.4
249	35.1	28.1	42.1





#23

Atrazine

Concen: 0.424 ng

RT: 16.577 min Scan# 1639

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

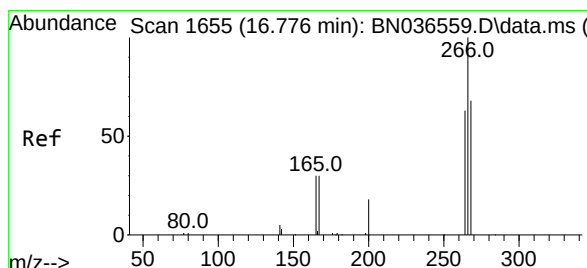
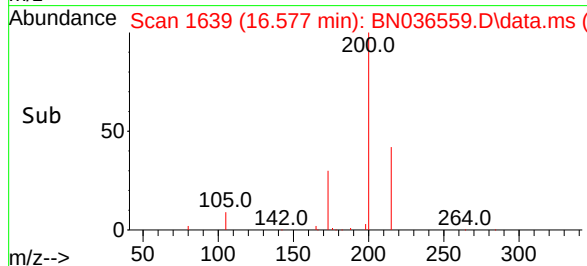
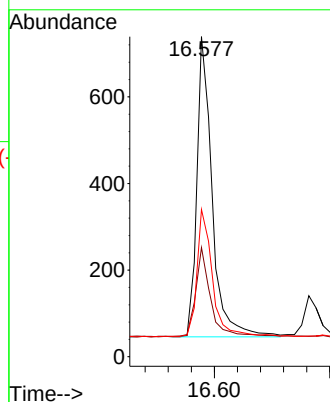
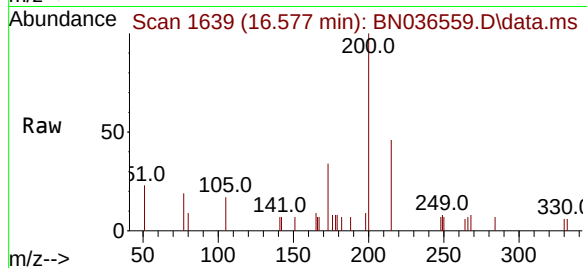
Tgt Ion:200 Resp: 1279

Ion Ratio Lower Upper

200 100

173 34.1 27.3 40.9

215 46.0 36.8 55.2



#24

Pentachlorophenol

Concen: 0.396 ng

RT: 16.776 min Scan# 1655

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

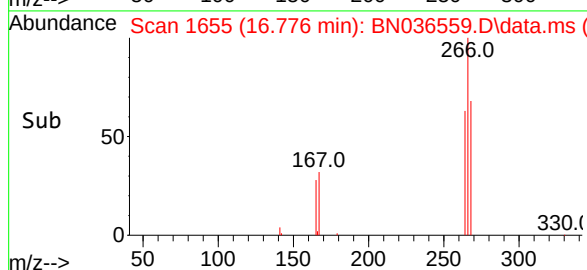
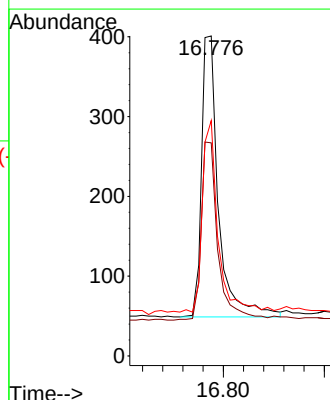
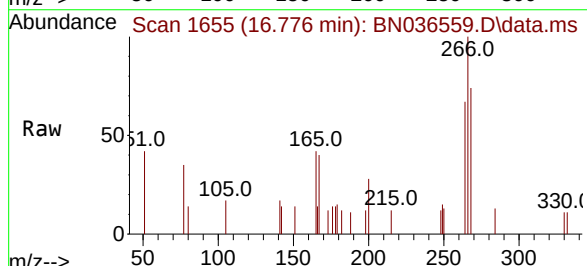
Tgt Ion:266 Resp: 821

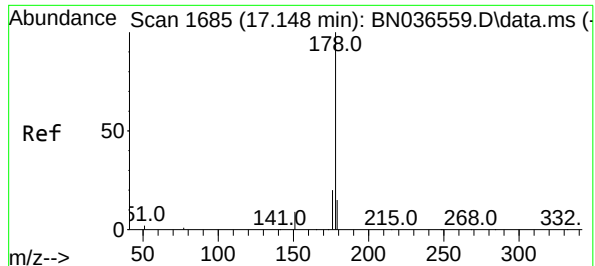
Ion Ratio Lower Upper

266 100

264 62.0 49.6 74.4

268 63.6 50.9 76.3

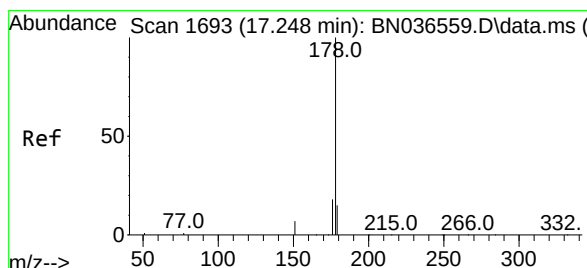
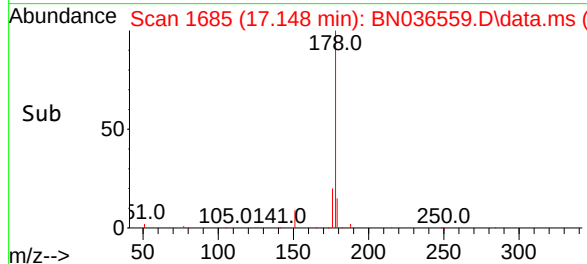
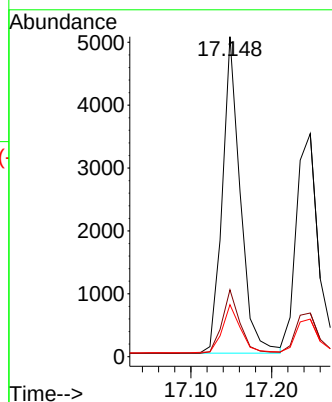
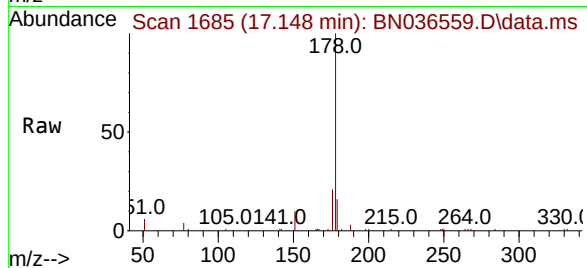




#25
Phenanthrene
Concen: 0.432 ng
RT: 17.148 min Scan# 1685
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

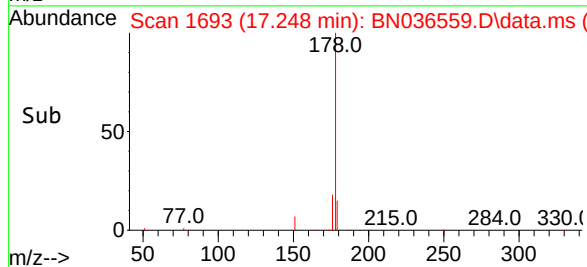
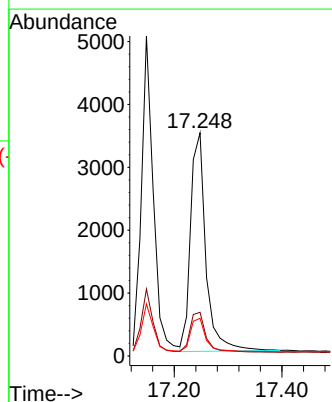
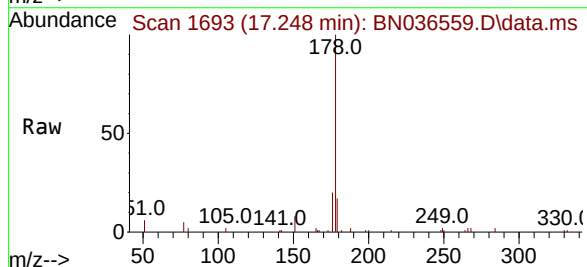
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

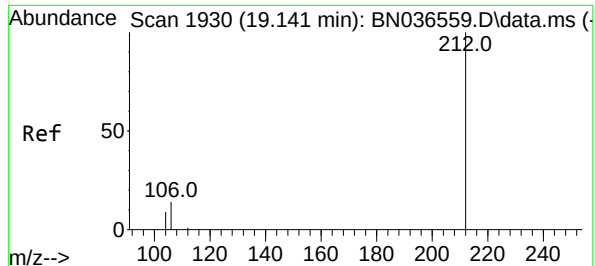
Tgt Ion:178 Resp: 7786
Ion Ratio Lower Upper
178 100
176 19.9 15.9 23.9
179 15.3 12.2 18.4



#26
Anthracene
Concen: 0.424 ng
RT: 17.248 min Scan# 1693
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:178 Resp: 6886
Ion Ratio Lower Upper
178 100
176 19.3 15.4 23.2
179 15.7 12.6 18.8





#27

Fluoranthene-d10

Concen: 0.435 ng

RT: 19.141 min Scan# 1930

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

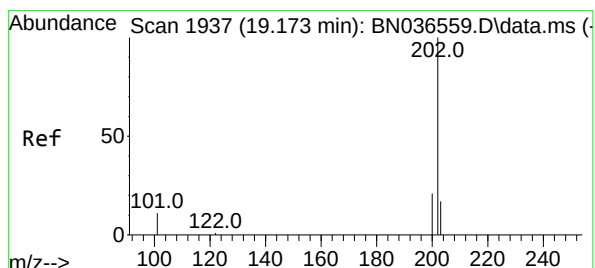
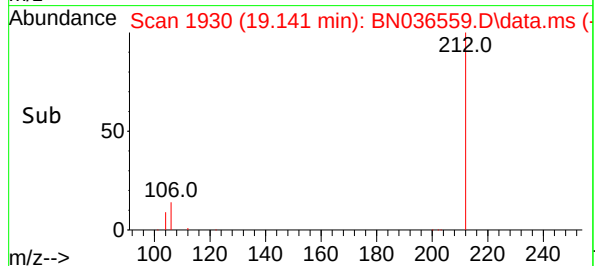
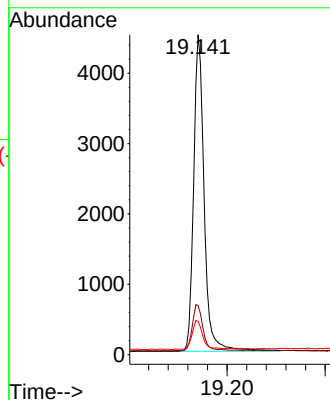
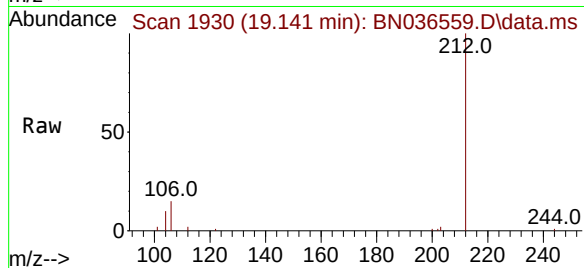
Tgt Ion:212 Resp: 6699

Ion Ratio Lower Upper

212 100

106 14.7 11.8 17.6

104 9.1 7.3 10.9



#28

Fluoranthene

Concen: 0.431 ng

RT: 19.173 min Scan# 1937

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

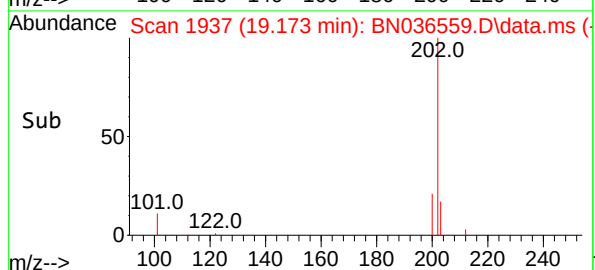
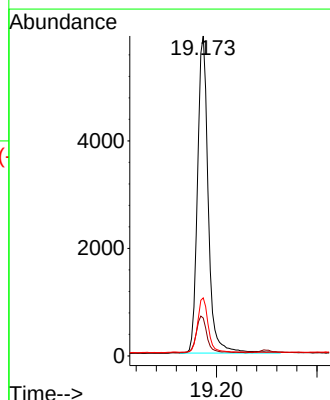
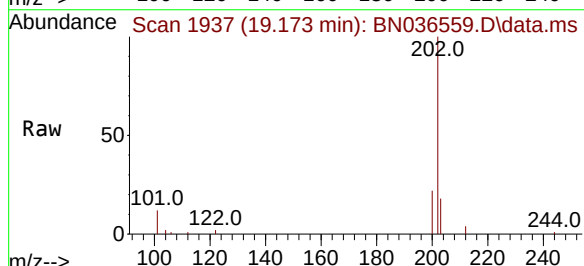
Tgt Ion:202 Resp: 8717

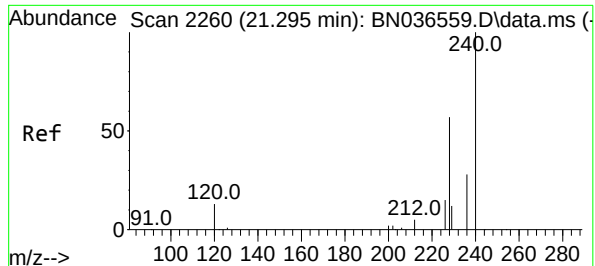
Ion Ratio Lower Upper

202 100

101 11.7 9.4 14.0

203 16.9 13.5 20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.295 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

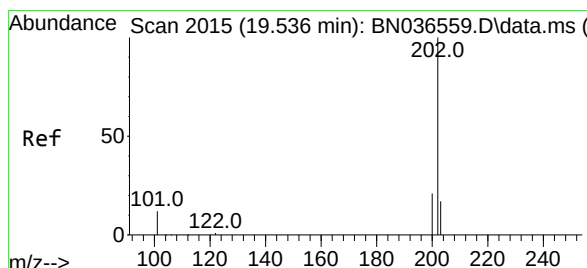
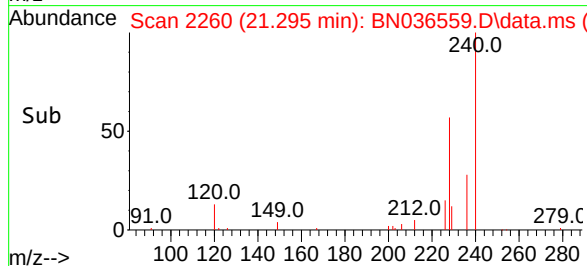
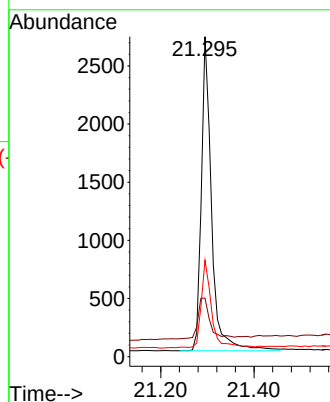
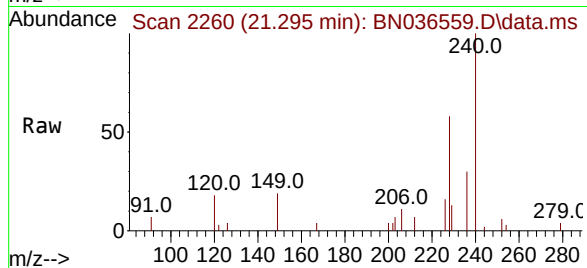
Tgt Ion:240 Resp: 4110

Ion Ratio Lower Upper

240 100

120 18.3 14.6 22.0

236 30.1 24.1 36.1



#30

Pyrene

Concen: 0.436 ng

RT: 19.536 min Scan# 2015

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

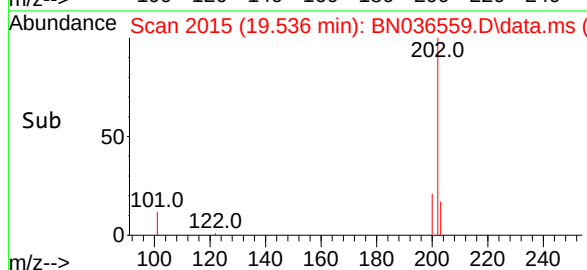
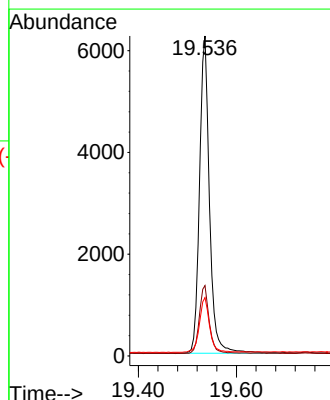
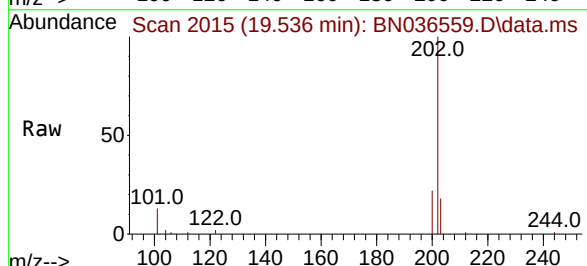
Tgt Ion:202 Resp: 8759

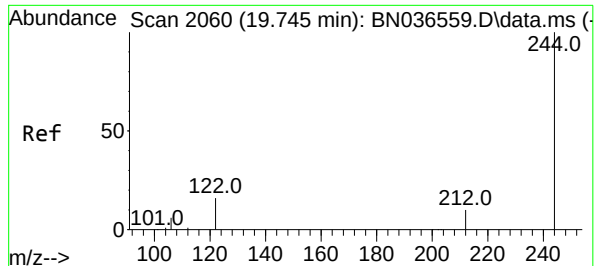
Ion Ratio Lower Upper

202 100

200 21.4 17.1 25.7

203 17.6 14.1 21.1

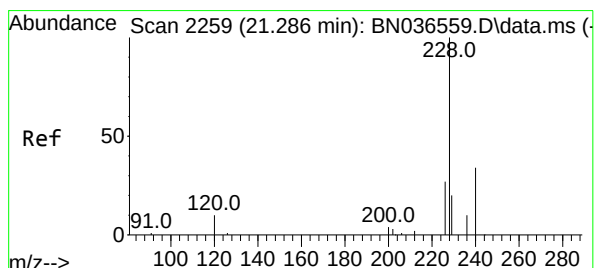
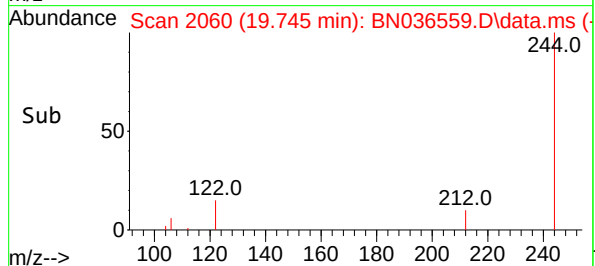
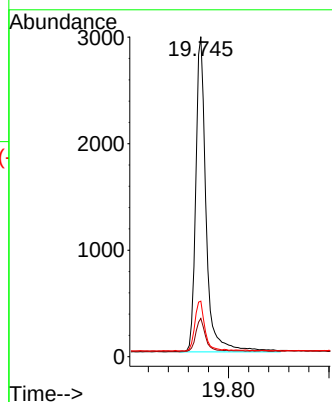
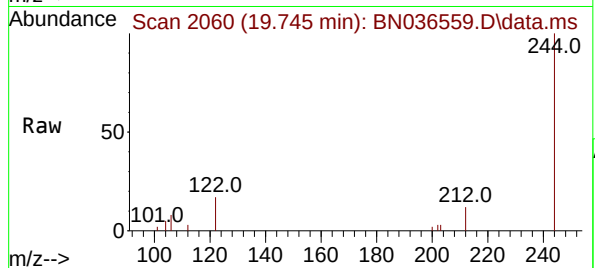




#31
Terphenyl-d14
Concen: 0.429 ng
RT: 19.745 min Scan# 2060
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

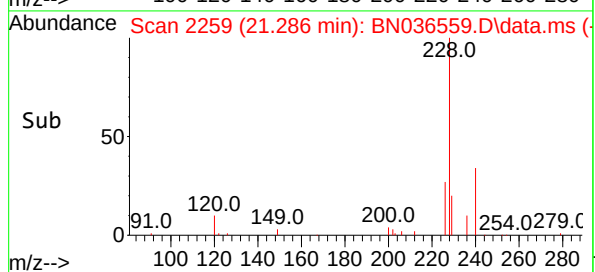
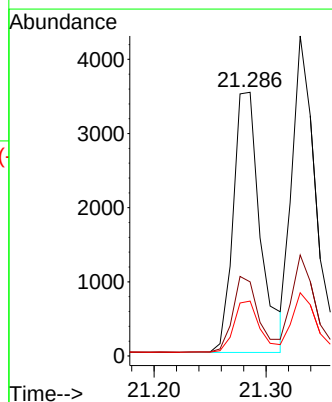
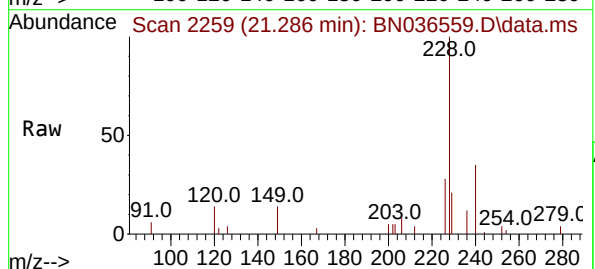
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

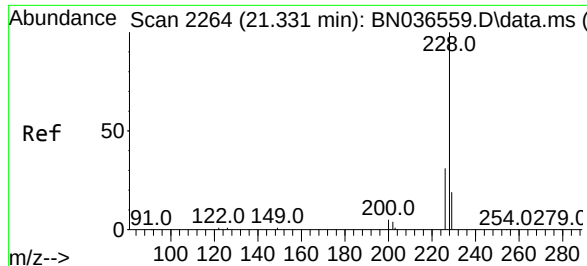
Tgt Ion:244 Resp: 4226
Ion Ratio Lower Upper
244 100
212 12.0 9.6 14.4
122 17.4 13.9 20.9



#32
Benzo(a)anthracene
Concen: 0.413 ng
RT: 21.286 min Scan# 2259
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:228 Resp: 5908
Ion Ratio Lower Upper
228 100
226 28.1 22.5 33.7
229 20.8 16.6 25.0





#33

Chrysene

Concen: 0.424 ng

RT: 21.331 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

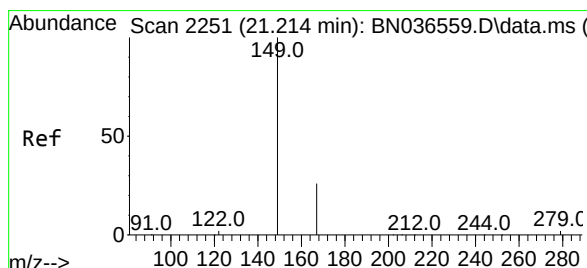
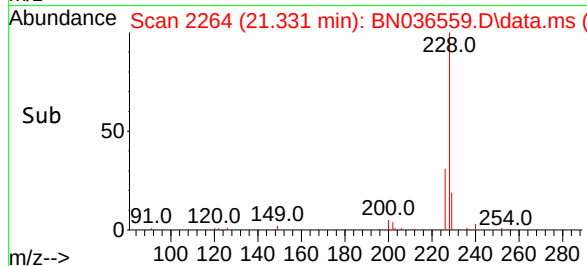
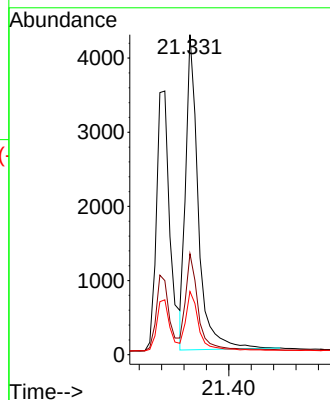
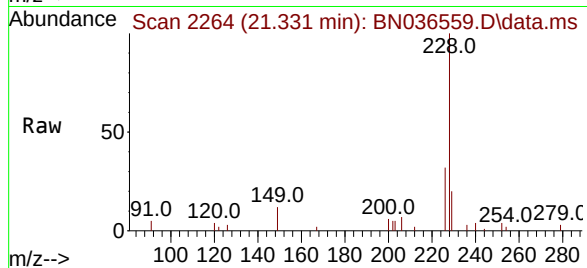
Tgt Ion:228 Resp: 6617

Ion Ratio Lower Upper

228 100

226 31.6 25.3 37.9

229 19.8 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.422 ng

RT: 21.214 min Scan# 2251

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

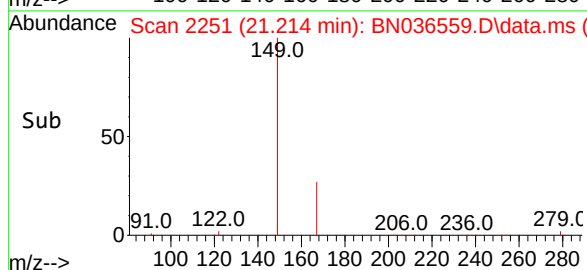
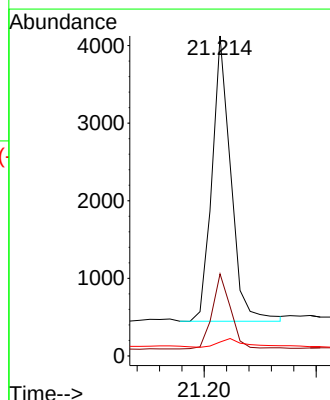
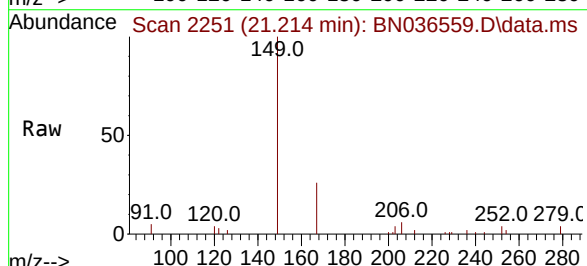
Tgt Ion:149 Resp: 4291

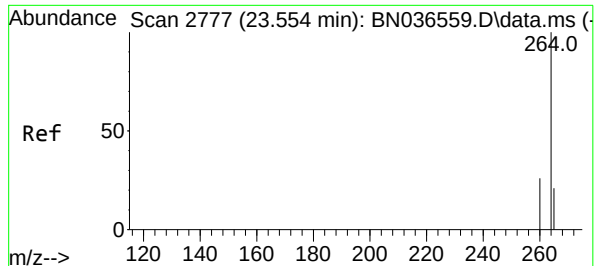
Ion Ratio Lower Upper

149 100

167 25.9 20.7 31.1

279 4.5 3.6 5.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.554 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

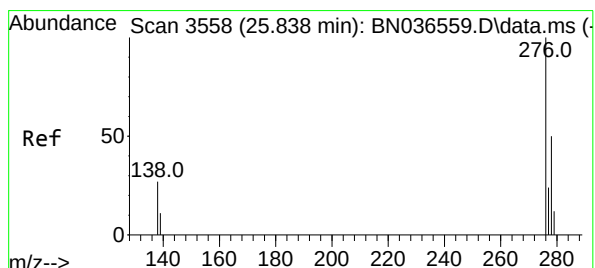
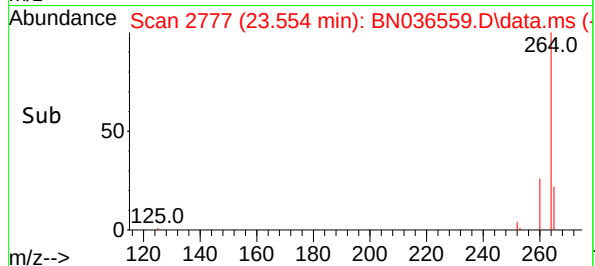
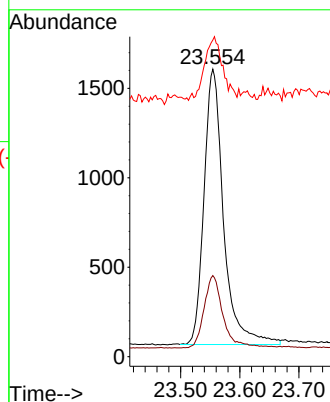
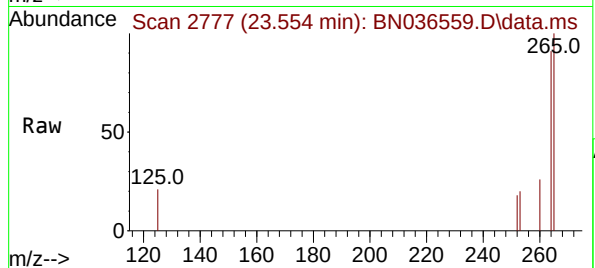
Tgt Ion:264 Resp: 3539

Ion Ratio Lower Upper

264 100

260 28.2 22.6 33.8

265 110.1 88.1 132.1



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.428 ng

RT: 25.838 min Scan# 3558

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

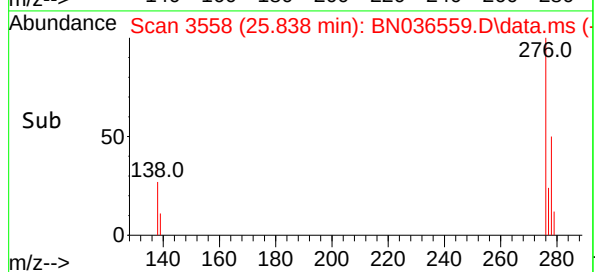
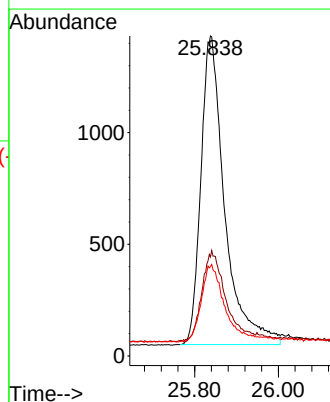
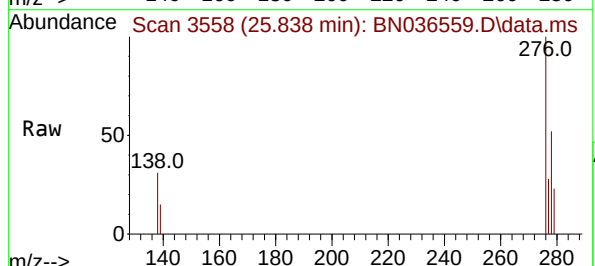
Tgt Ion:276 Resp: 5470

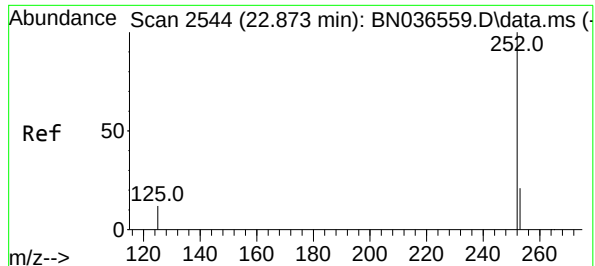
Ion Ratio Lower Upper

276 100

138 29.3 23.4 35.2

277 25.0 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.425 ng

RT: 22.873 min Scan# 2544

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

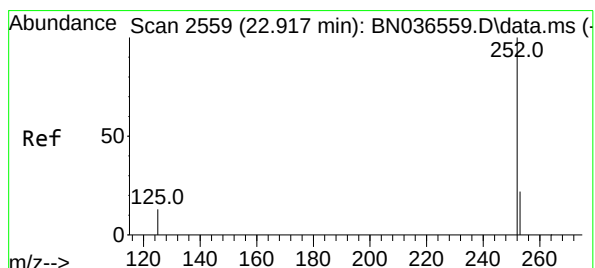
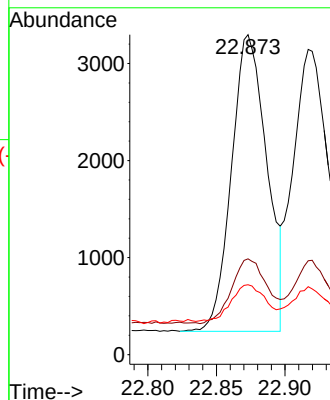
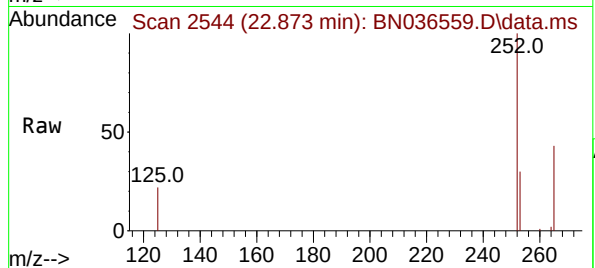
Tgt Ion:252 Resp: 5475

Ion Ratio Lower Upper

252 100

253 29.9 23.9 35.9

125 21.8 17.4 26.2



#38

Benzo(k)fluoranthene

Concen: 0.424 ng

RT: 22.917 min Scan# 2559

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

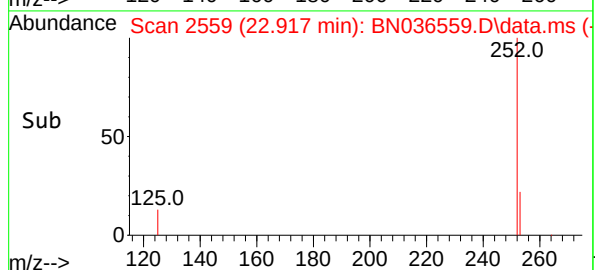
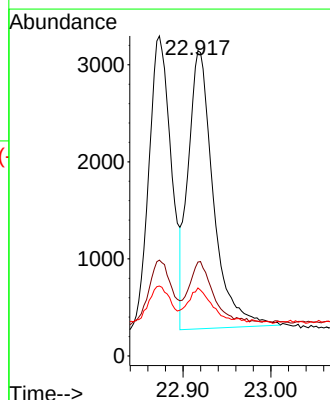
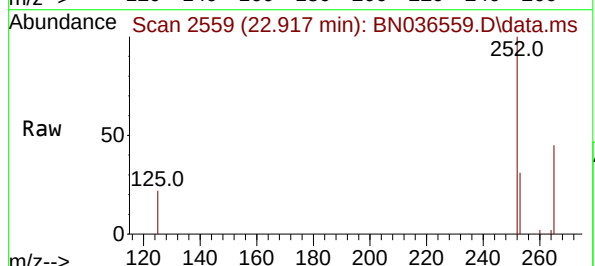
Tgt Ion:252 Resp: 5732

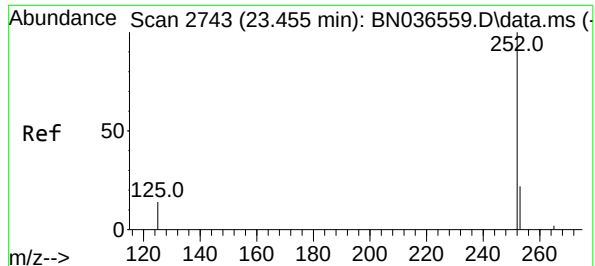
Ion Ratio Lower Upper

252 100

253 30.7 24.6 36.8

125 22.3 17.8 26.8





#39

Benzo(a)pyrene

Concen: 0.425 ng

RT: 23.455 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

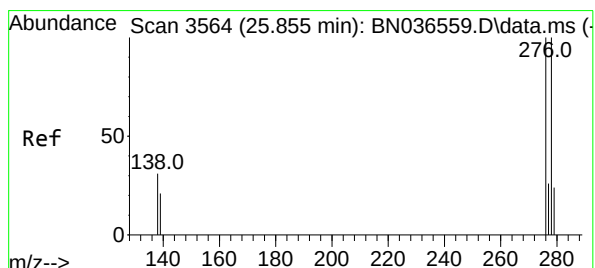
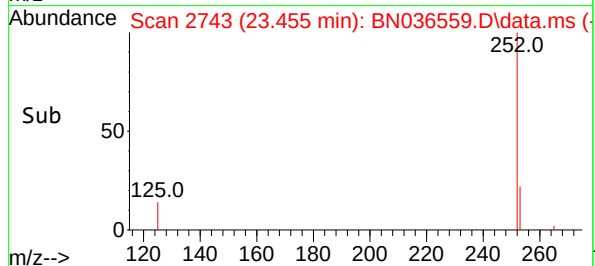
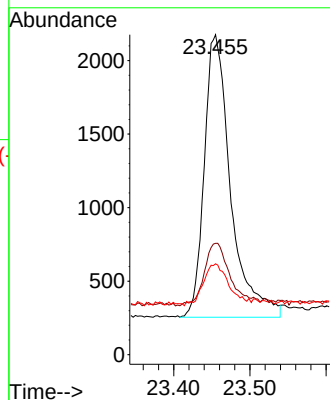
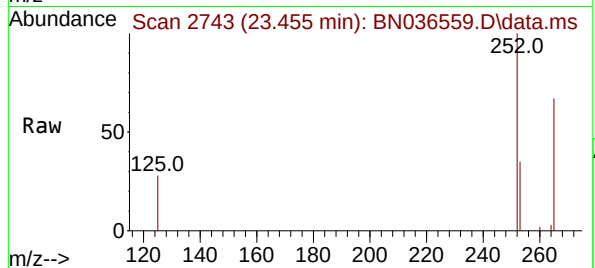
Tgt Ion:252 Resp: 4612

Ion Ratio Lower Upper

252 100

253 34.8 27.8 41.8

125 28.4 22.7 34.1



#40

Dibenzo(a,h)anthracene

Concen: 0.414 ng

RT: 25.855 min Scan# 3564

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

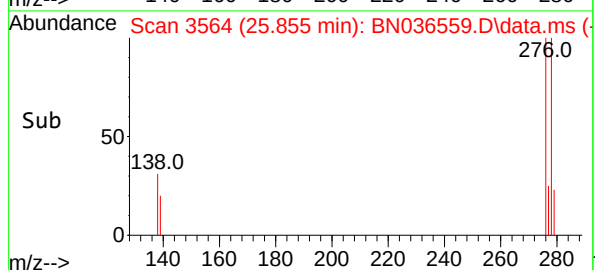
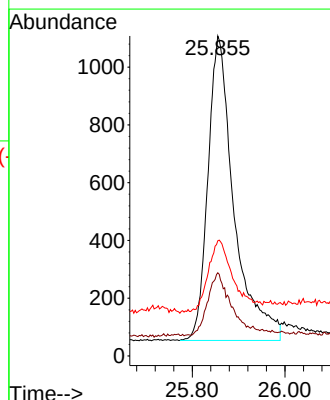
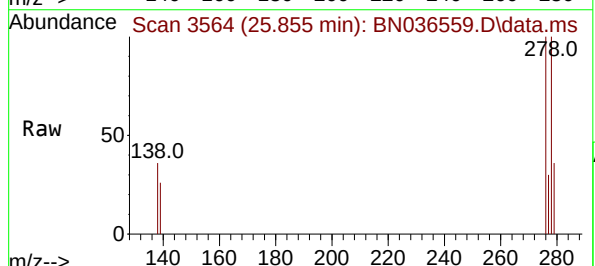
Tgt Ion:278 Resp: 4117

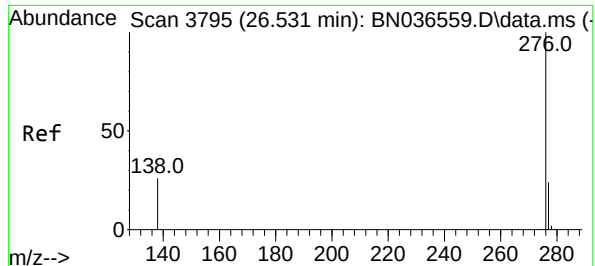
Ion Ratio Lower Upper

278 100

139 26.0 20.8 31.2

279 36.0 28.8 43.2





#41

Benzo(g,h,i)perylene

Concen: 0.430 ng

RT: 26.531 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN036559.D

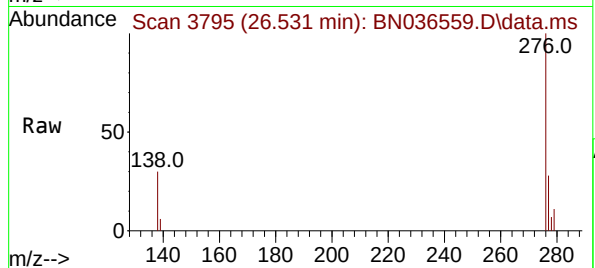
Acq: 10 Mar 2025 12:54

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4



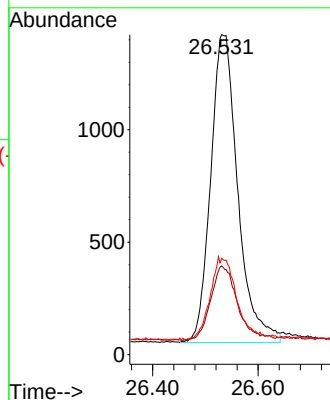
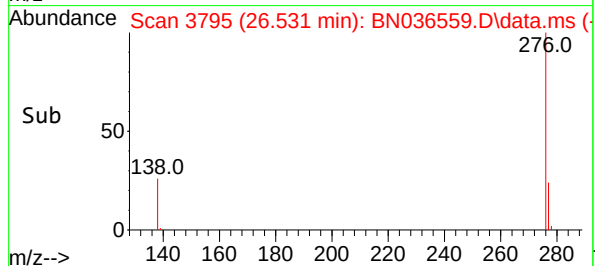
Tgt Ion:276 Resp: 4891

Ion Ratio Lower Upper

276 100

277 27.8 22.2 33.4

138 30.1 24.1 36.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
 Data File : BN036560.D
 Acq On : 10 Mar 2025 13:31
 Operator : RC/JU
 Sample : SSTDICC0.8
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.8

Quant Time: Mar 10 16:01:54 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 15:54:23 2025
 Response via : Initial Calibration

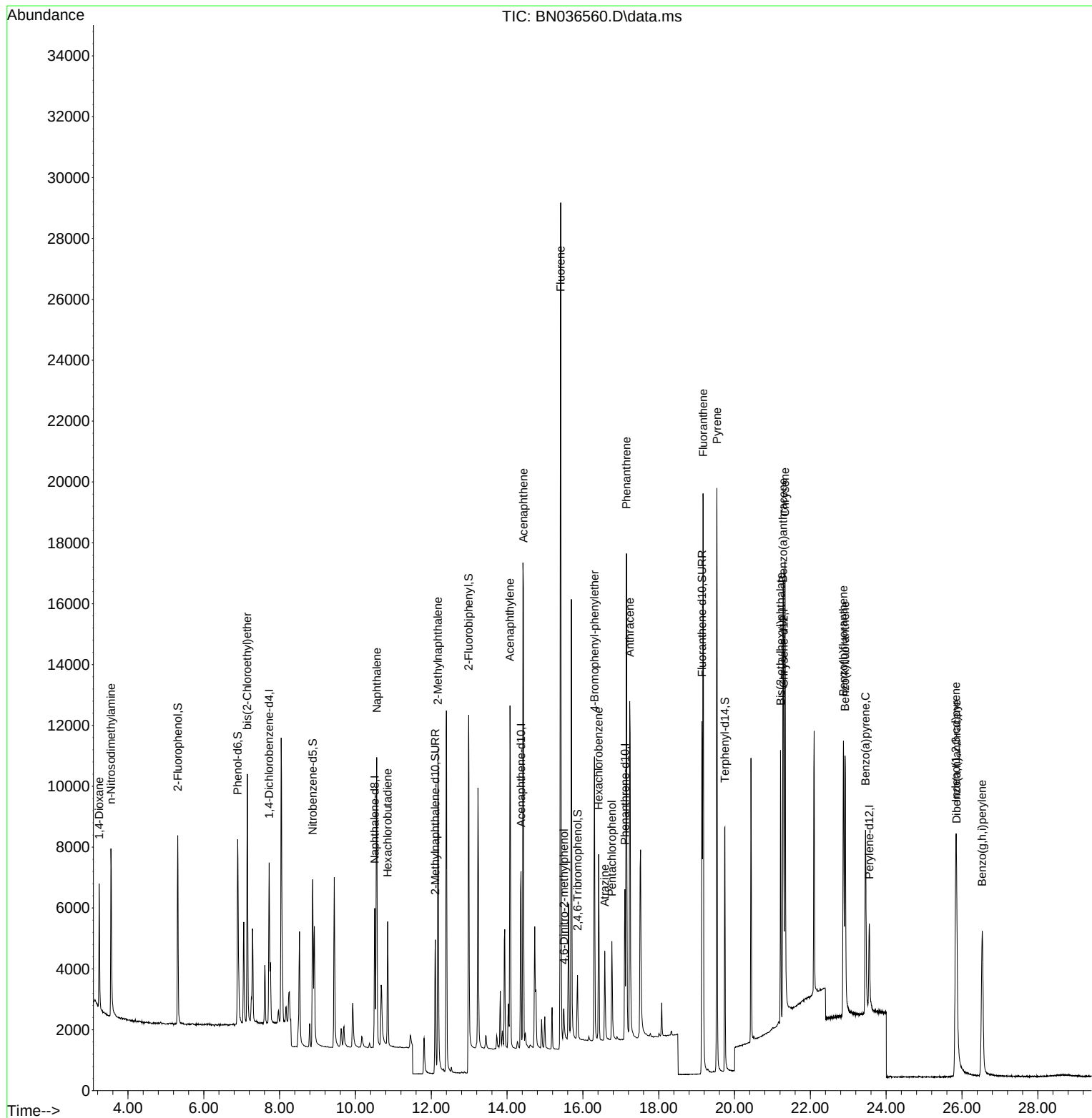
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2495	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	5884	0.400	ng	0.00
13) Acenaphthene-d10	14.366	164	3456	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	6971	0.400	ng	0.00
29) Chrysene-d12	21.295	240	4636	0.400	ng	0.00
35) Perylene-d12	23.554	264	4198	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	4381	0.753	ng	0.00
5) Phenol-d6	6.894	99	5324	0.741	ng	0.00
8) Nitrobenzene-d5	8.875	82	4717	0.737	ng	0.00
11) 2-Methylnaphthalene-d10	12.106	152	6616	0.756	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	1166	0.744	ng	0.00
15) 2-Fluorobiphenyl	12.988	172	16243	0.808	ng	0.00
27) Fluoranthene-d10	19.141	212	13330	0.746	ng	0.00
31) Terphenyl-d14	19.745	244	8571	0.772	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	2251	0.813	ng	99
3) n-Nitrosodimethylamine	3.550	42	4197	0.750	ng	96
6) bis(2-Chloroethyl)ether	7.147	93	5632	0.759	ng	99
9) Naphthalene	10.562	128	13078	0.756	ng	98
10) Hexachlorobutadiene	10.851	225	3147	0.772	ng	# 99
12) 2-Methylnaphthalene	12.177	142	8272	0.751	ng	98
16) Acenaphthylene	14.078	152	12403	0.760	ng	100
17) Acenaphthene	14.430	154	8096	0.758	ng	99
18) Fluorene	15.414	166	11120	0.770	ng	100
20) 4,6-Dinitro-2-methylph...	15.499	198	1039	0.724	ng	# 59
21) 4-Bromophenyl-phenylether	16.305	248	3324	0.761	ng	93
22) Hexachlorobenzene	16.416	284	4115	0.780	ng	99
23) Atrazine	16.578	200	2677	0.764	ng	94
24) Pentachlorophenol	16.764	266	1701	0.707	ng	98
25) Phenanthrene	17.149	178	15910	0.761	ng	99
26) Anthracene	17.236	178	14403	0.763	ng	99
28) Fluoranthene	19.174	202	17738	0.755	ng	99
30) Pyrene	19.536	202	17714	0.781	ng	100
32) Benzo(a)anthracene	21.277	228	12089	0.750	ng	98
33) Chrysene	21.331	228	13974	0.793	ng	100
34) Bis(2-ethylhexyl)phtha...	21.214	149	8021	0.699	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.838	276	11785	0.778	ng	99
37) Benzo(b)fluoranthene	22.873	252	11771	0.770	ng	# 91
38) Benzo(k)fluoranthene	22.917	252	12432	0.776	ng	# 90
39) Benzo(a)pyrene	23.455	252	10036	0.780	ng	# 87
40) Dibenzo(a,h)anthracene	25.858	278	9450	0.801	ng	91
41) Benzo(g,h,i)perylene	26.534	276	10494	0.778	ng	96

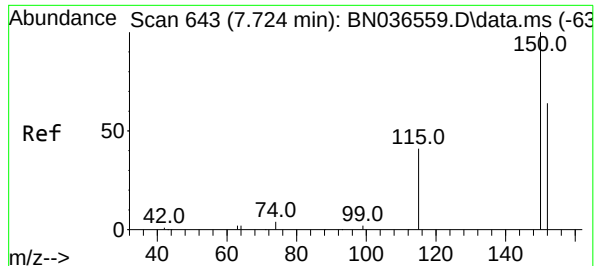
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036560.D
Acq On : 10 Mar 2025 13:31
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Mar 10 16:01:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration

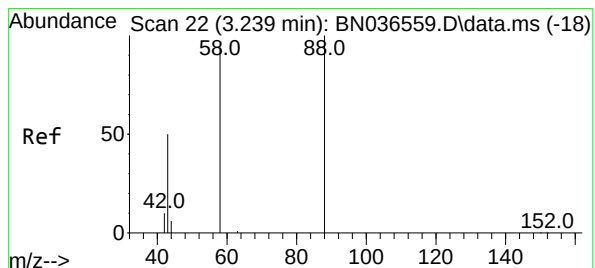
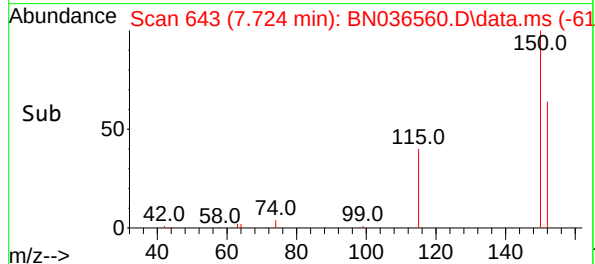
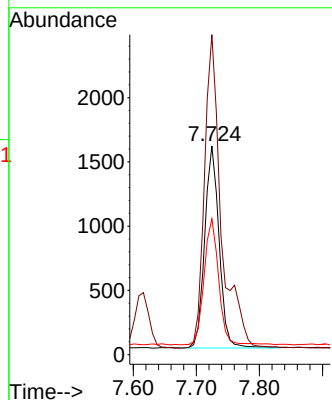
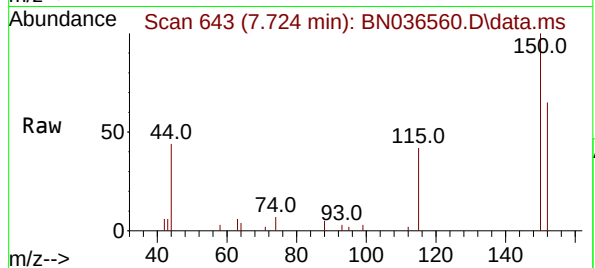




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

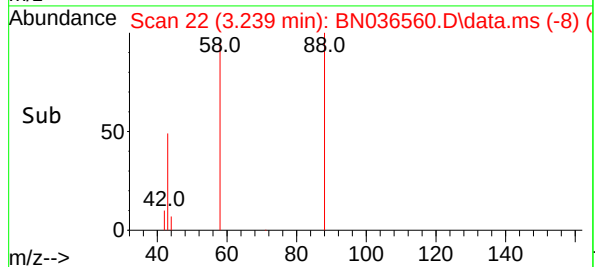
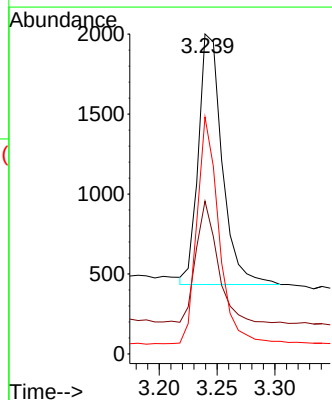
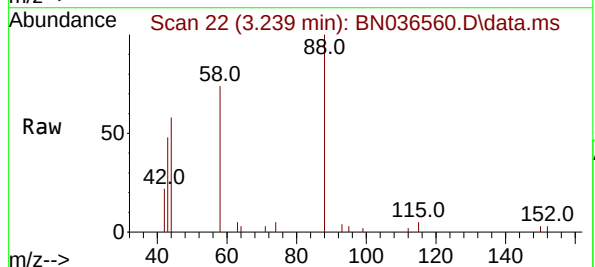
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

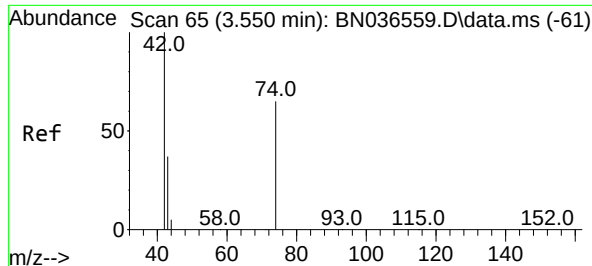
Tgt Ion:152 Resp: 2495
Ion Ratio Lower Upper
152 100
150 153.3 123.7 185.5
115 65.1 54.3 81.5



#2
1,4-Dioxane
Concen: 0.813 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion: 88 Resp: 2251
Ion Ratio Lower Upper
88 100
43 45.6 37.8 56.8
58 84.5 67.4 101.2

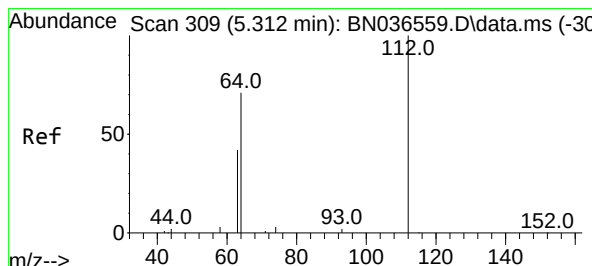
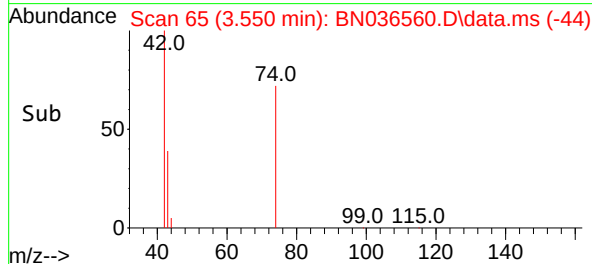
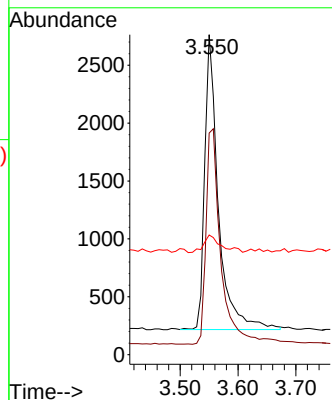
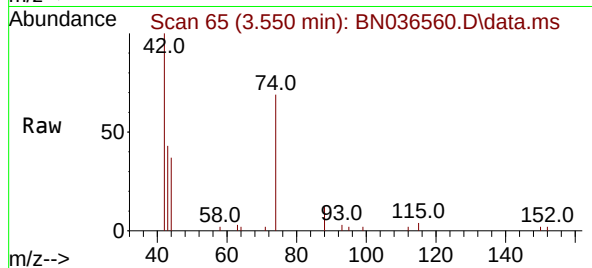




#3
n-Nitrosodimethylamine
Concen: 0.750 ng
RT: 3.550 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

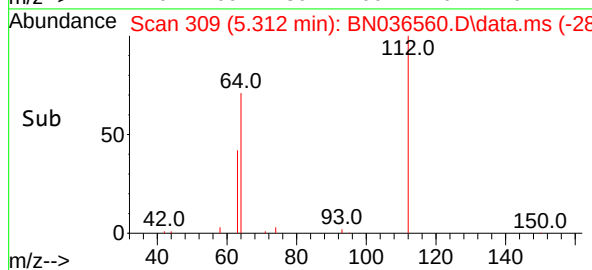
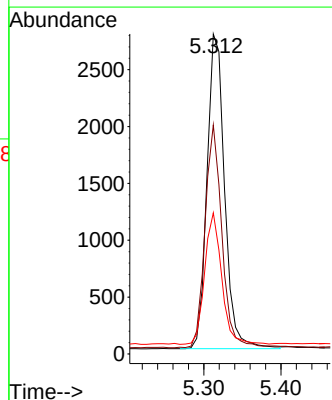
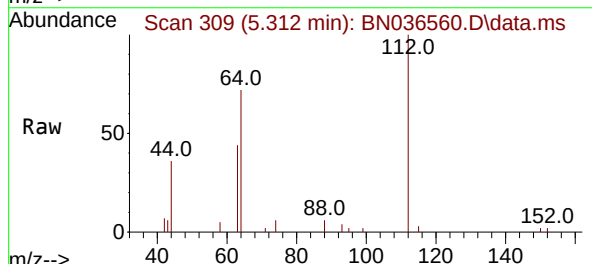
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

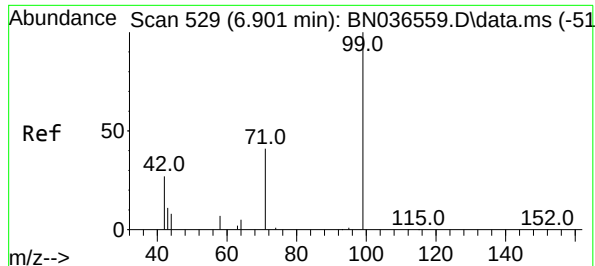
Tgt Ion: 42 Resp: 4197
Ion Ratio Lower Upper
42 100
74 79.3 60.6 90.8
44 7.4 6.3 9.5



#4
2-Fluorophenol
Concen: 0.753 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion: 112 Resp: 4381
Ion Ratio Lower Upper
112 100
64 68.8 53.1 79.7
63 40.4 31.8 47.8

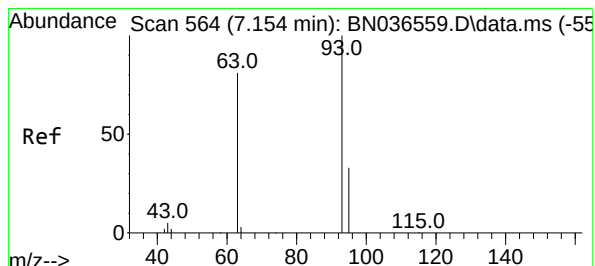
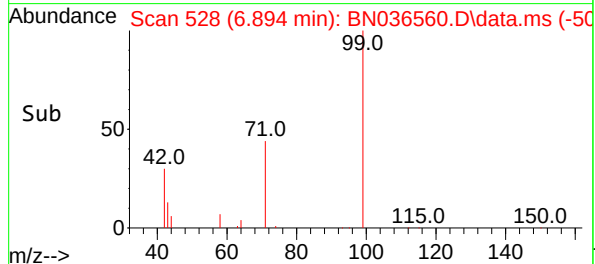
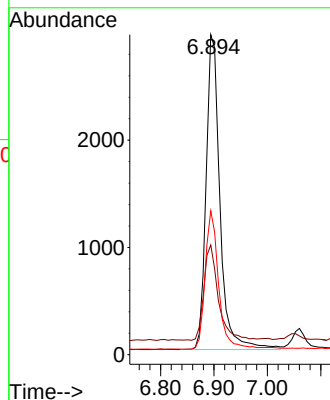
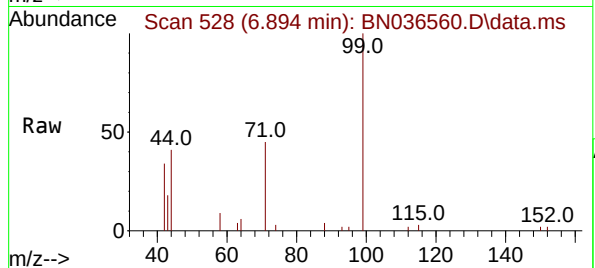




#5
Phenol-d6
Concen: 0.741 ng
RT: 6.894 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

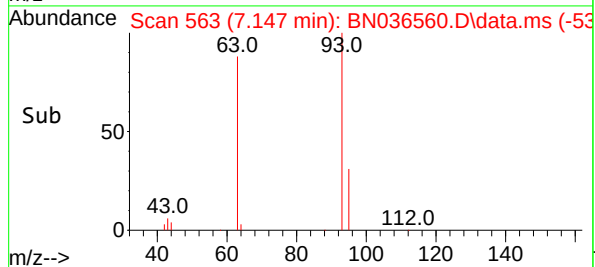
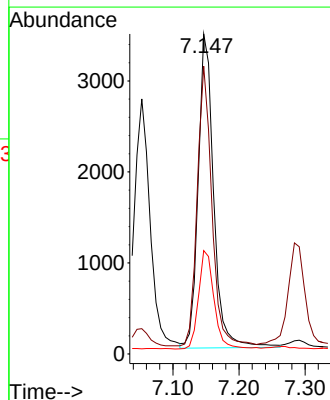
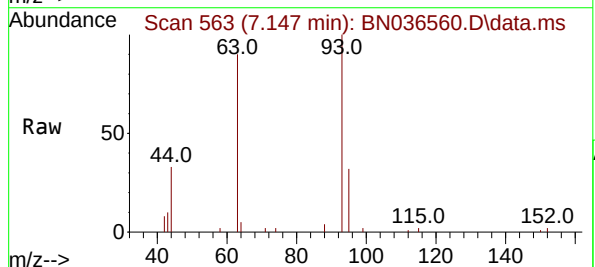
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

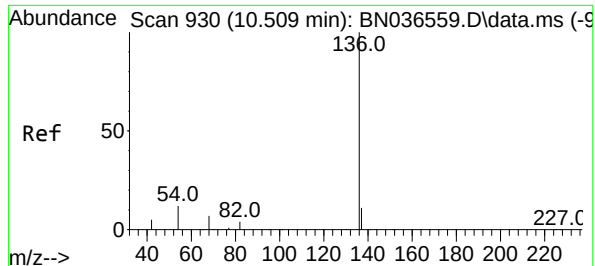
Tgt Ion: 99 Resp: 5324
Ion Ratio Lower Upper
99 100
42 31.3 26.5 39.7
71 42.6 34.1 51.1



#6
bis(2-Chloroethyl)ether
Concen: 0.759 ng
RT: 7.147 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion: 93 Resp: 5632
Ion Ratio Lower Upper
93 100
63 84.0 67.7 101.5
95 31.6 25.6 38.4

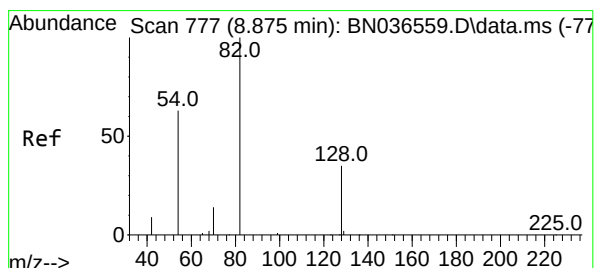
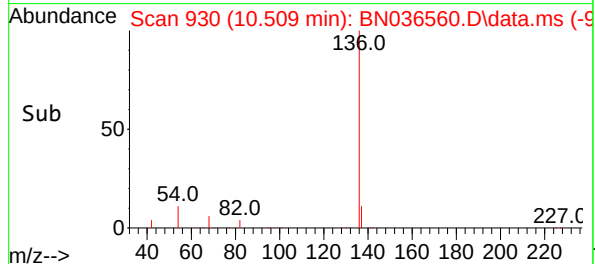
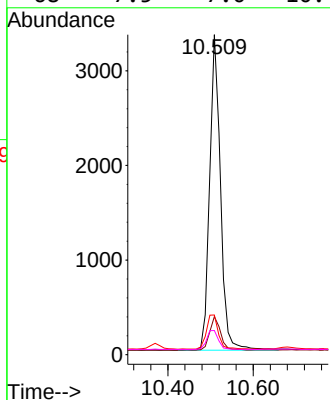
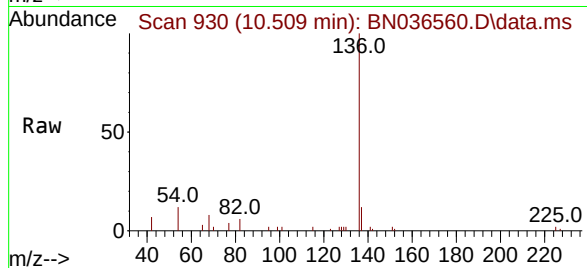




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

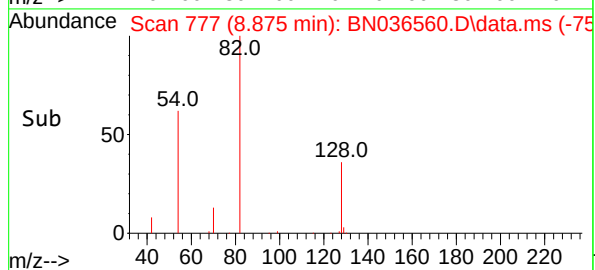
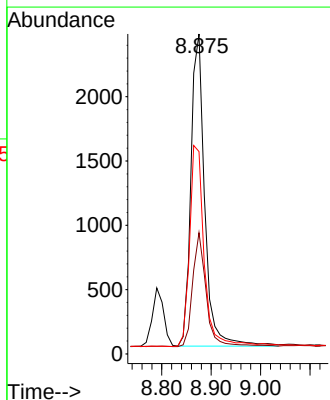
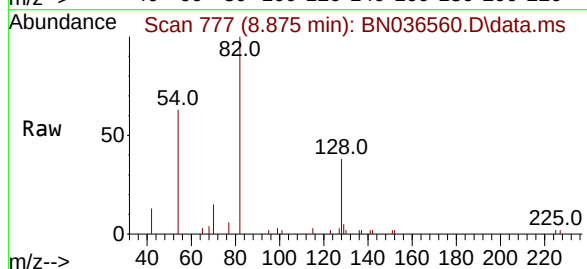
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

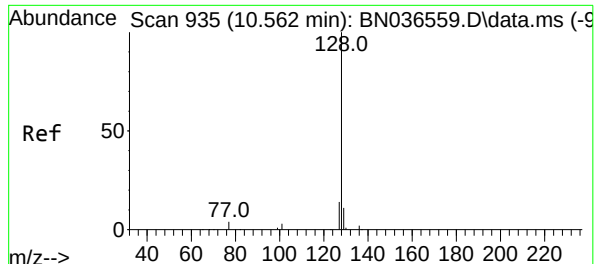
Tgt Ion:	136	Resp:	5884
Ion	Ratio	Lower	Upper
136	100		
137	11.9	10.3	15.5
54	12.4	11.5	17.3
68	7.5	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.737 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:	82	Resp:	4717
Ion	Ratio	Lower	Upper
82	100		
128	37.9	30.6	45.8
54	63.2	52.2	78.4





#9

Naphthalene

Concen: 0.756 ng

RT: 10.562 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

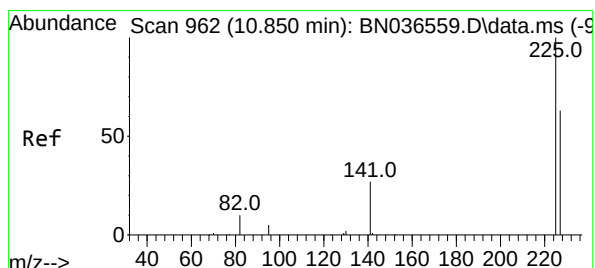
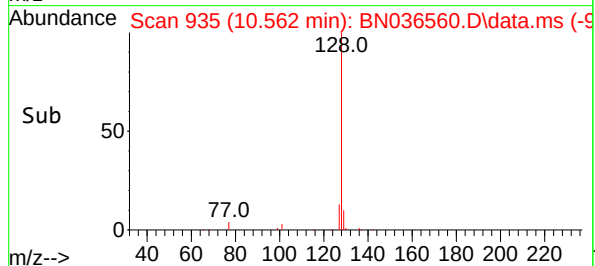
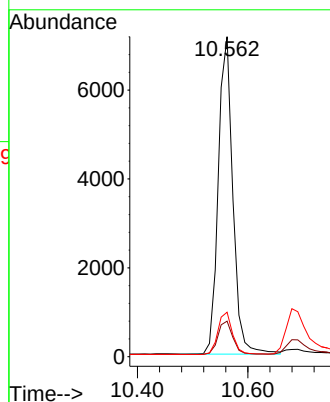
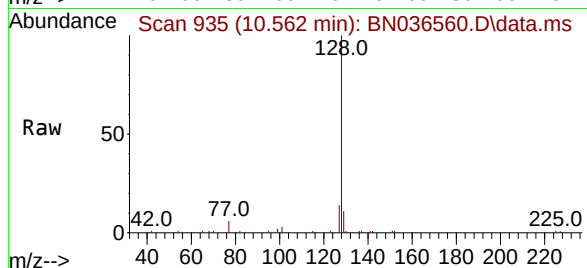
Tgt Ion:128 Resp: 13078

Ion Ratio Lower Upper

128 100

129 11.1 9.8 14.6

127 13.9 11.8 17.8



#10

Hexachlorobutadiene

Concen: 0.772 ng

RT: 10.851 min Scan# 962

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

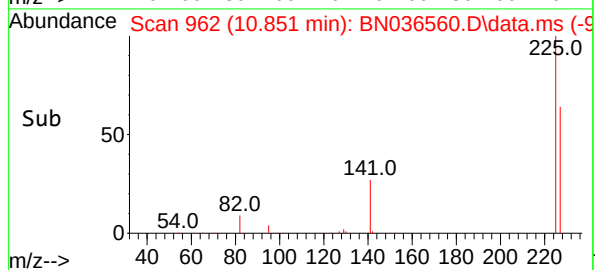
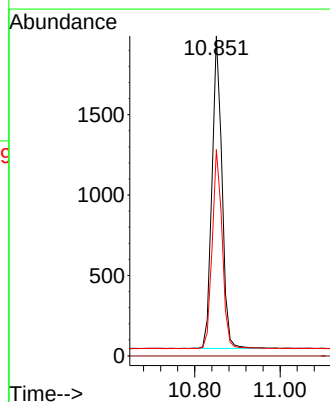
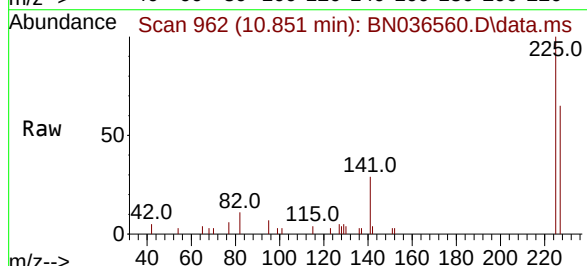
Tgt Ion:225 Resp: 3147

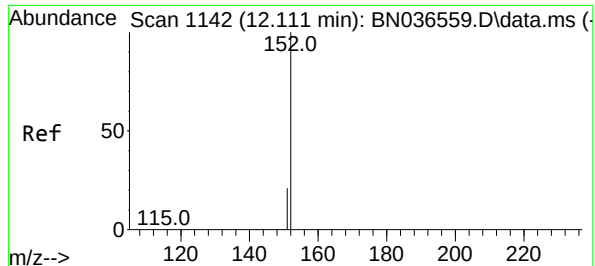
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.7 51.8 77.8

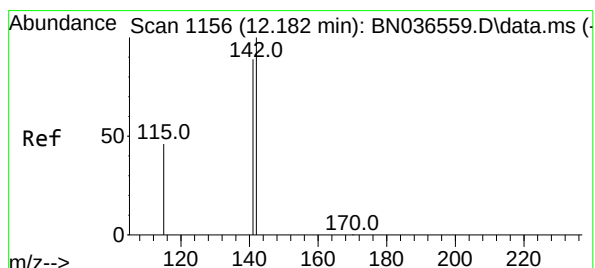
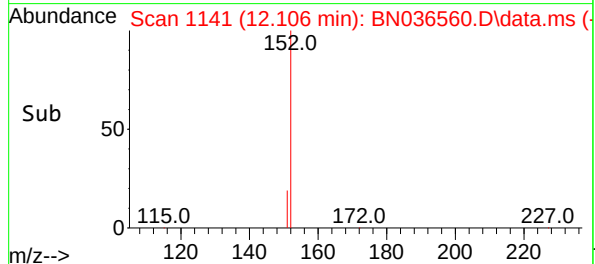
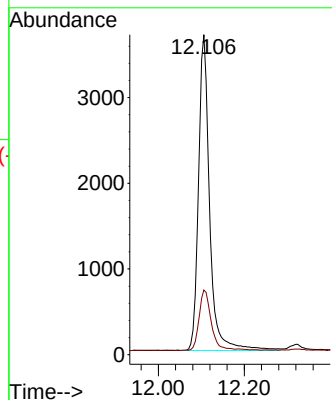
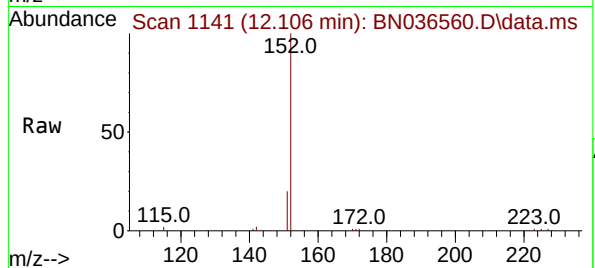




#11
2-Methylnaphthalene-d10
Concen: 0.756 ng
RT: 12.106 min Scan# 1141
Delta R.T. -0.005 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

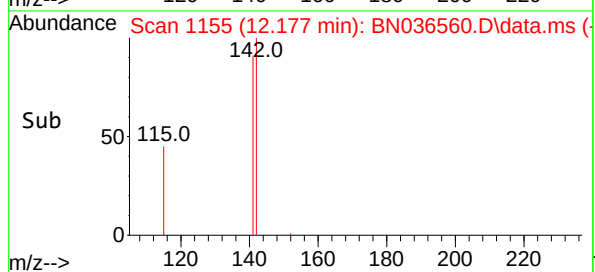
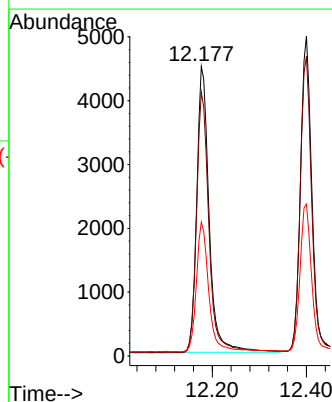
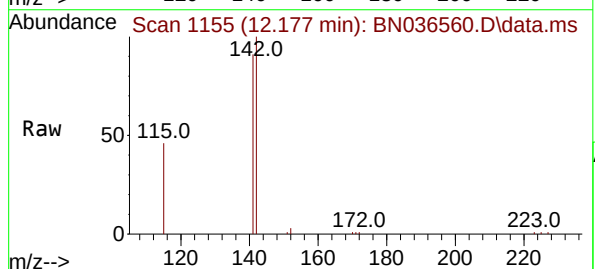
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.8

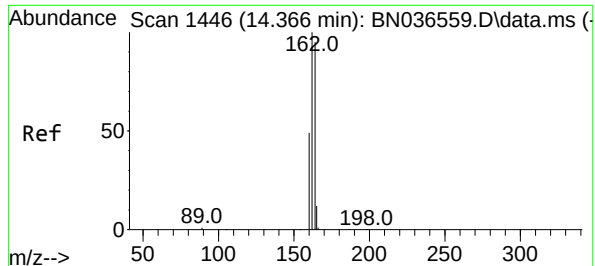
Tgt Ion:152 Resp: 6616
Ion Ratio Lower Upper
152 100
151 20.8 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.751 ng
RT: 12.177 min Scan# 1155
Delta R.T. -0.005 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:142 Resp: 8272
Ion Ratio Lower Upper
142 100
141 91.0 71.7 107.5
115 46.2 38.3 57.5

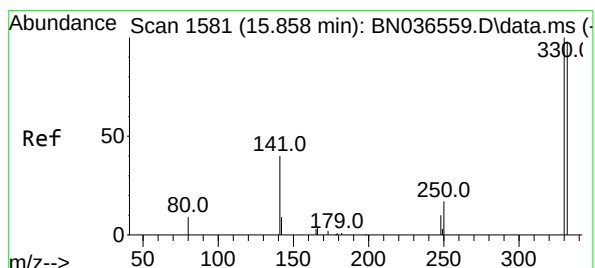
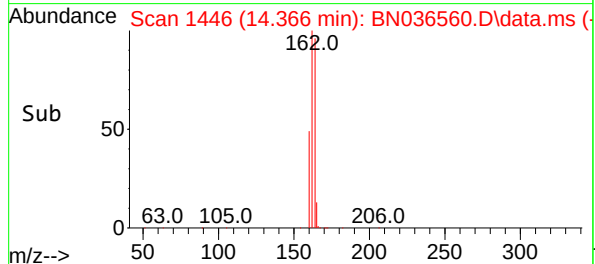
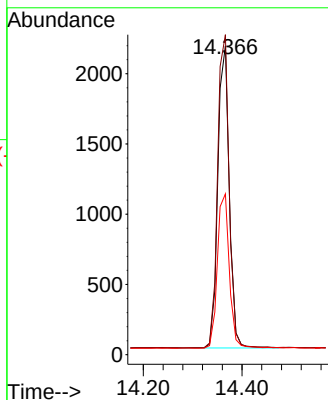
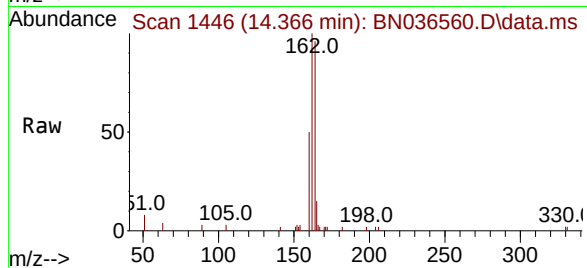




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

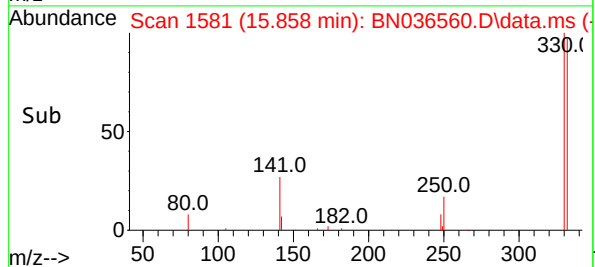
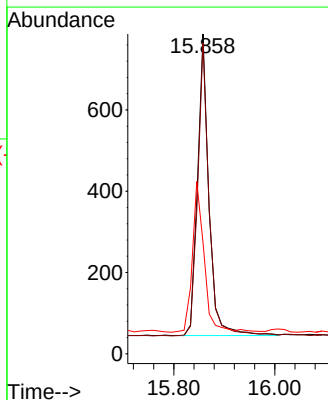
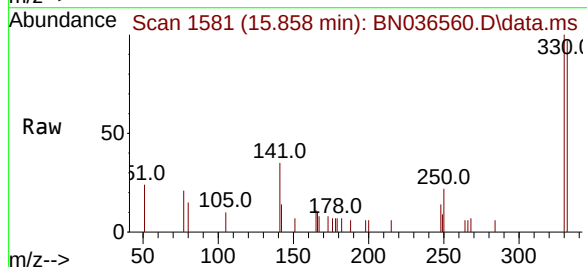
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

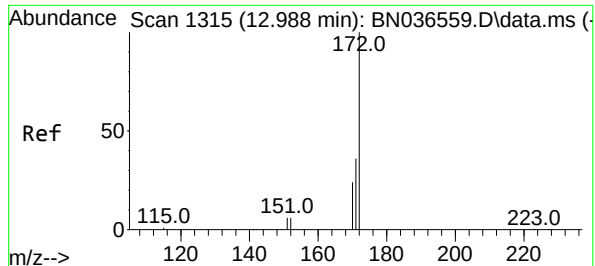
Tgt Ion:164 Resp: 3456
Ion Ratio Lower Upper
164 100
162 103.6 84.2 126.2
160 52.1 42.2 63.2



#14
2,4,6-Tribromophenol
Concen: 0.744 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:330 Resp: 1166
Ion Ratio Lower Upper
330 100
332 97.6 75.2 112.8
141 51.8 43.4 65.2





#15

2-Fluorobiphenyl

Concen: 0.808 ng

RT: 12.988 min Scan# 1315

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

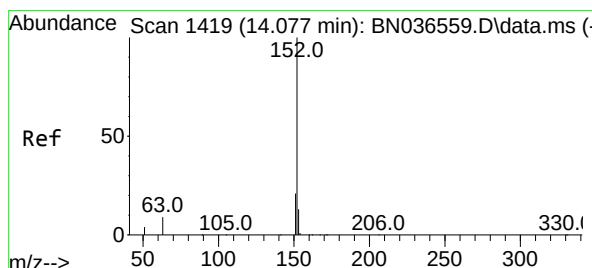
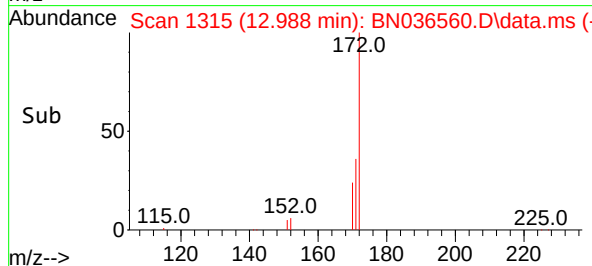
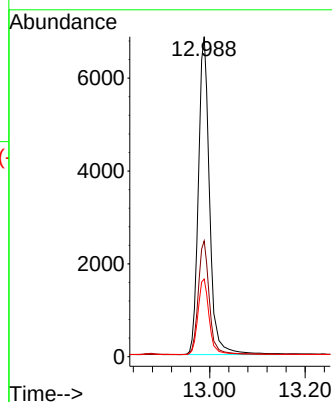
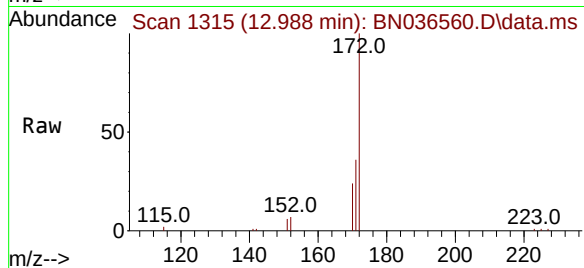
Tgt Ion:172 Resp: 16243

Ion Ratio Lower Upper

172 100

171 36.2 29.5 44.3

170 24.3 20.2 30.4



#16

Acenaphthylene

Concen: 0.760 ng

RT: 14.078 min Scan# 1419

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

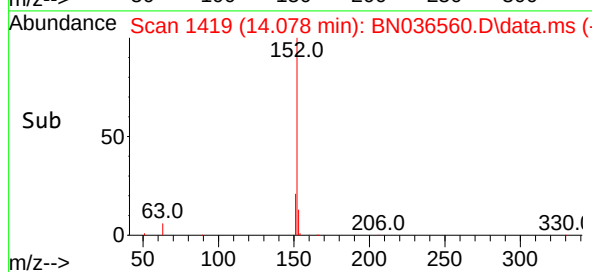
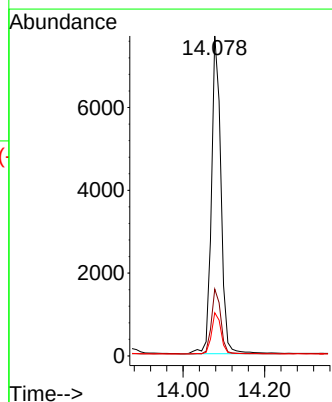
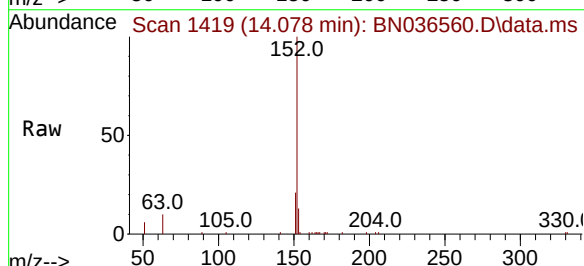
Tgt Ion:152 Resp: 12403

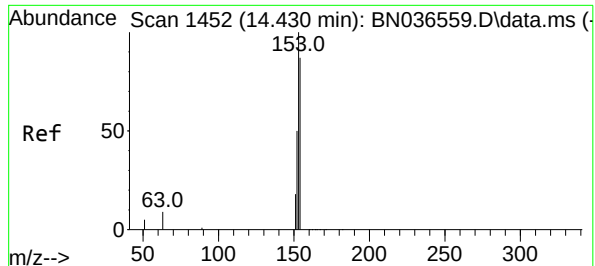
Ion Ratio Lower Upper

152 100

151 20.1 16.2 24.4

153 13.1 10.6 15.8





#17

Acenaphthene

Concen: 0.758 ng

RT: 14.430 min Scan# 1452

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

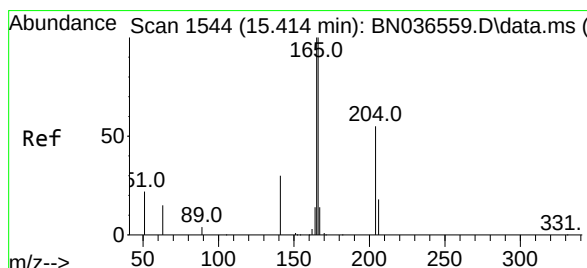
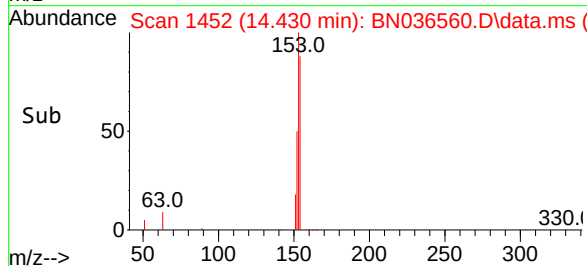
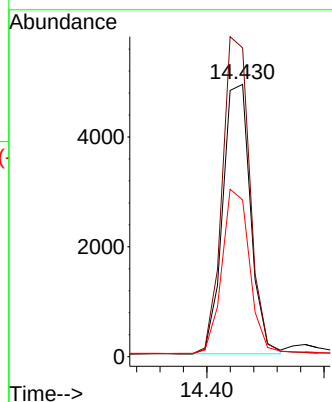
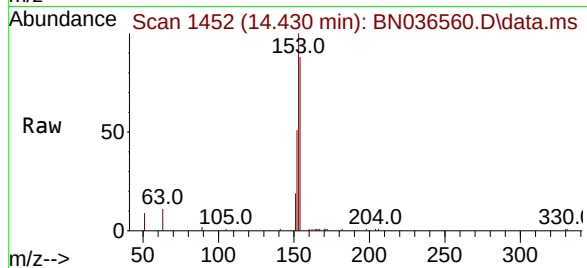
Tgt Ion:154 Resp: 8096

Ion Ratio Lower Upper

154 100

153 117.8 94.1 141.1

152 60.9 49.8 74.6



#18

Fluorene

Concen: 0.770 ng

RT: 15.414 min Scan# 1544

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

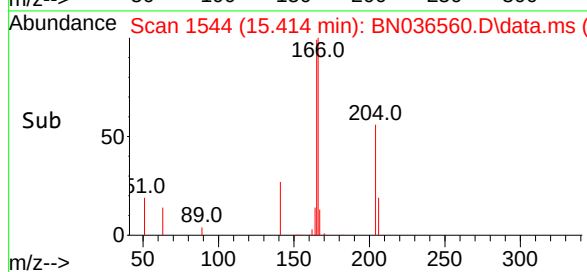
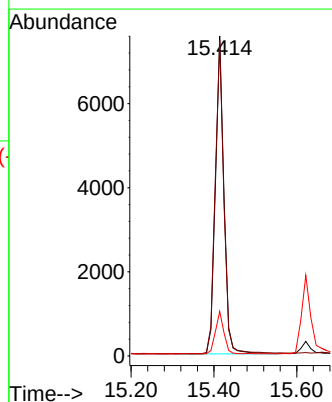
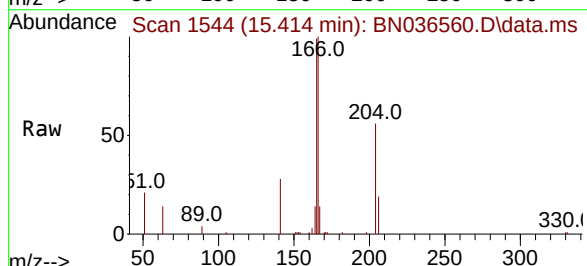
Tgt Ion:166 Resp: 11120

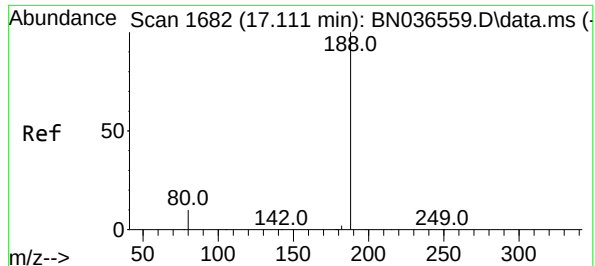
Ion Ratio Lower Upper

166 100

165 99.8 79.8 119.8

167 13.3 10.6 15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.111 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

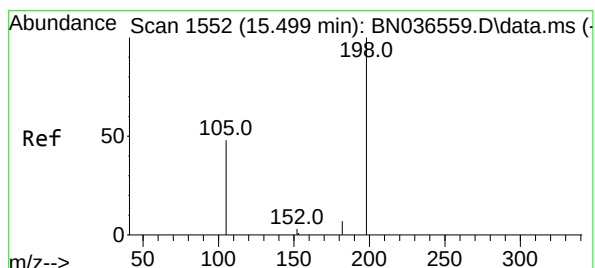
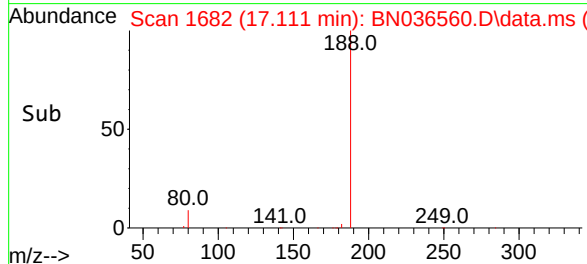
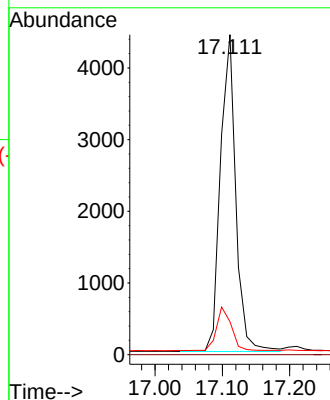
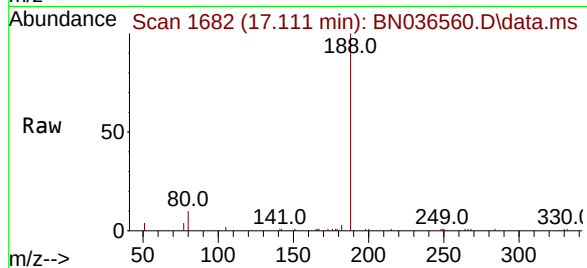
Tgt Ion:188 Resp: 6971

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.3 8.8 13.2



#20

4,6-Dinitro-2-methylphenol

Concen: 0.724 ng

RT: 15.499 min Scan# 1552

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

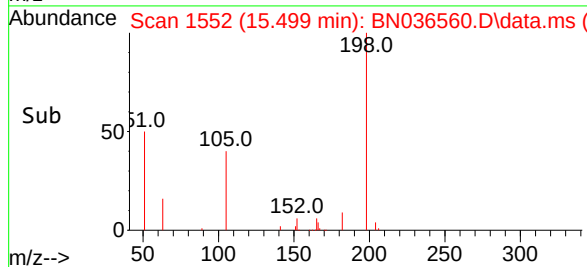
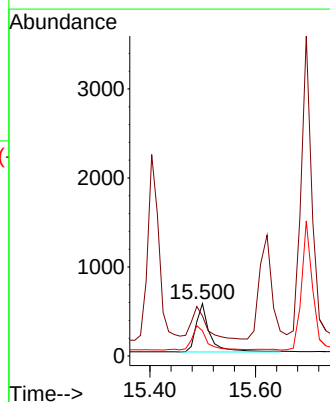
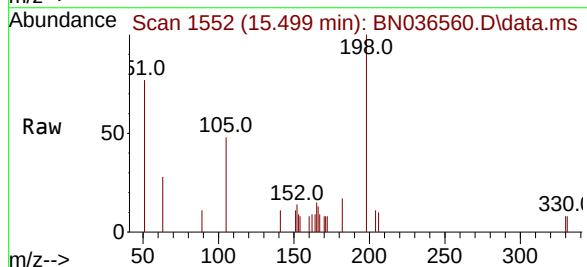
Tgt Ion:198 Resp: 1039

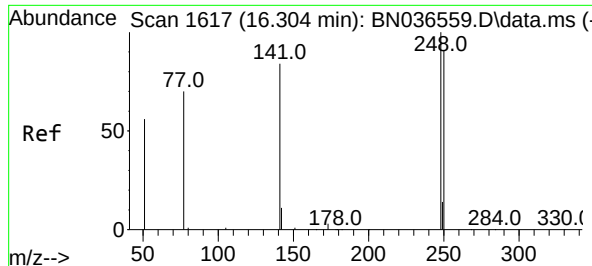
Ion Ratio Lower Upper

198 100

51 76.5 107.9 161.9#

105 48.1 56.2 84.2#

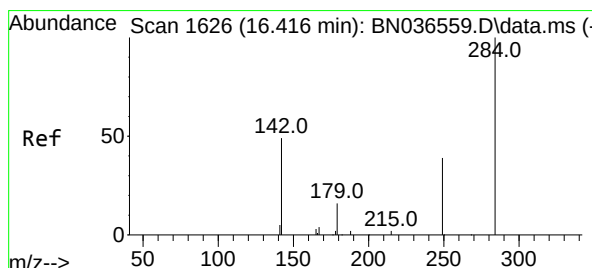
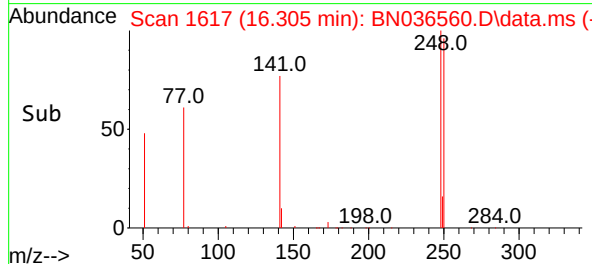
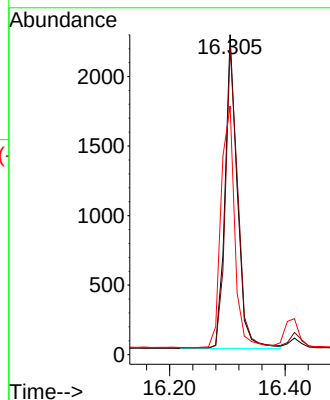
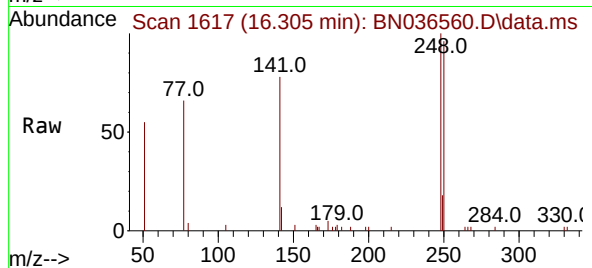




#21
4-Bromophenyl-phenylether
Concen: 0.761 ng
RT: 16.305 min Scan# 1617
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

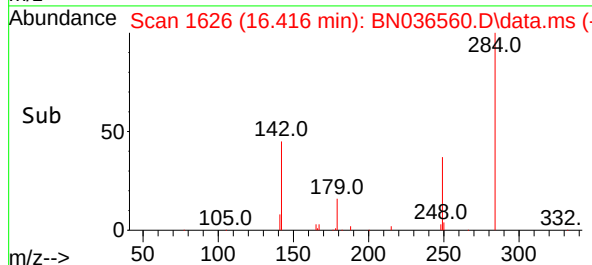
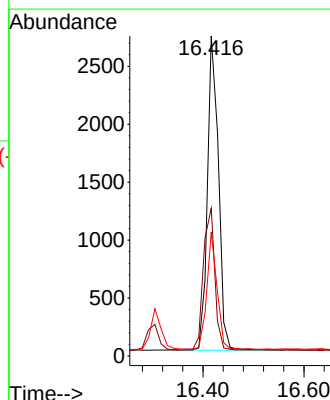
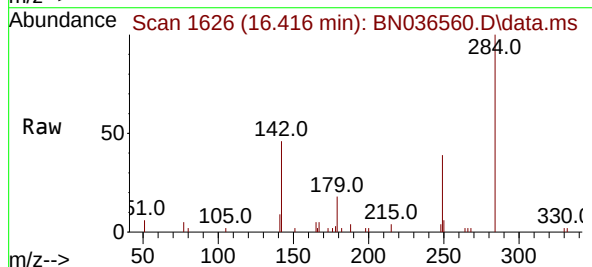
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

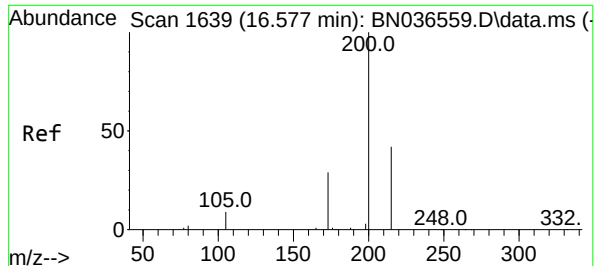
Tgt Ion:248 Resp: 3324
Ion Ratio Lower Upper
248 100
250 96.2 73.0 109.6
141 77.7 68.6 103.0



#22
Hexachlorobenzene
Concen: 0.780 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:284 Resp: 4115
Ion Ratio Lower Upper
284 100
142 47.2 37.0 55.4
249 34.7 28.1 42.1





#23

Atrazine

Concen: 0.764 ng

RT: 16.578 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

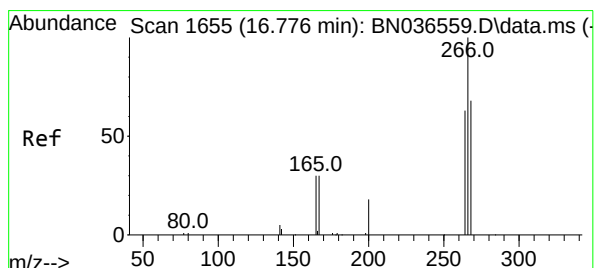
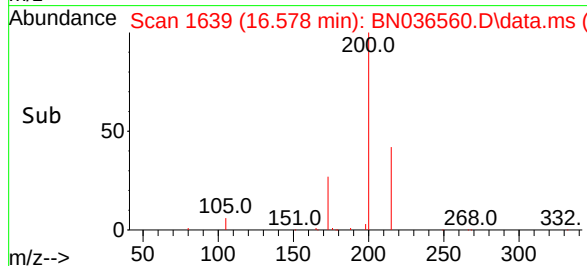
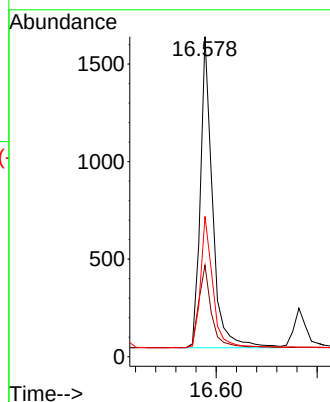
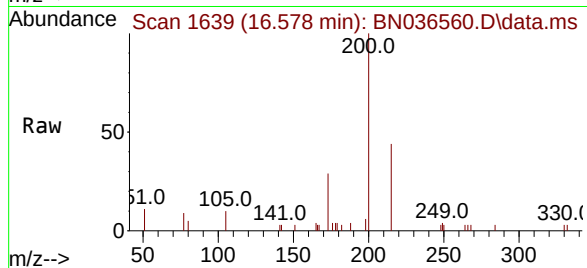
Tgt Ion:200 Resp: 2677

Ion Ratio Lower Upper

200 100

173 28.6 27.3 40.9

215 43.8 36.8 55.2



#24

Pentachlorophenol

Concen: 0.707 ng

RT: 16.764 min Scan# 1654

Delta R.T. -0.012 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

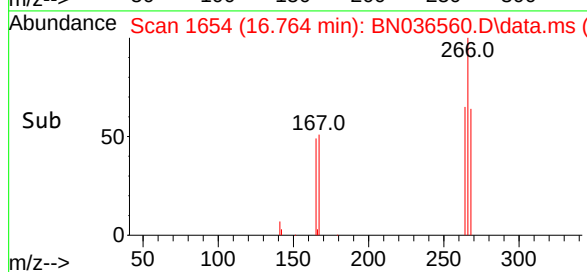
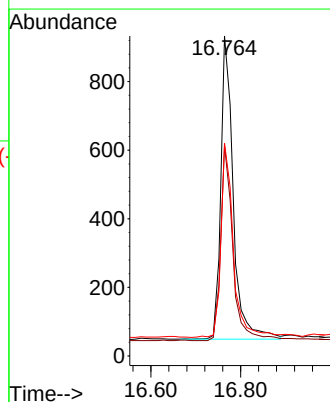
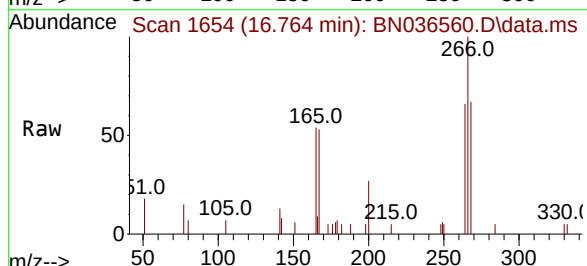
Tgt Ion:266 Resp: 1701

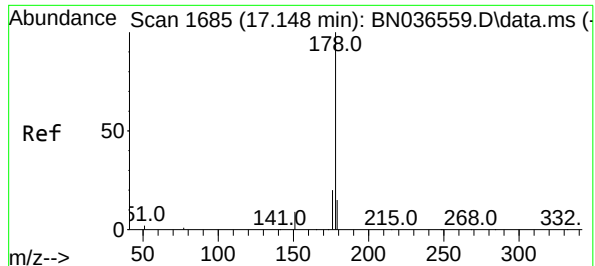
Ion Ratio Lower Upper

266 100

264 63.5 49.6 74.4

268 65.1 50.9 76.3





#25

Phenanthrene

Concen: 0.761 ng

RT: 17.149 min Scan# 1685

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

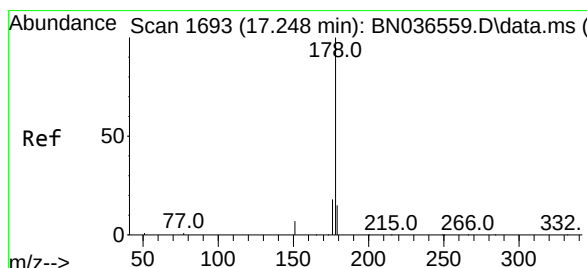
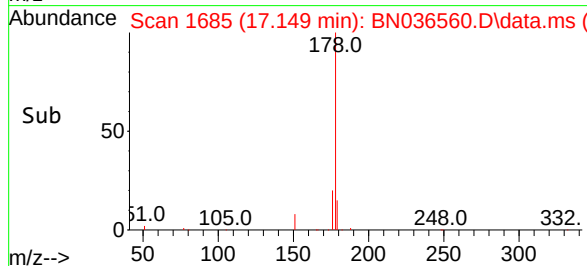
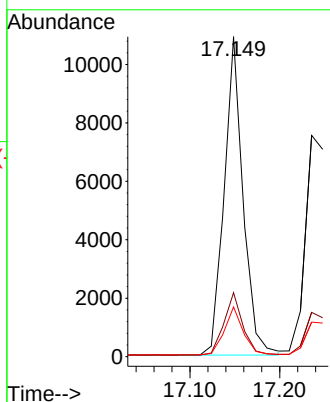
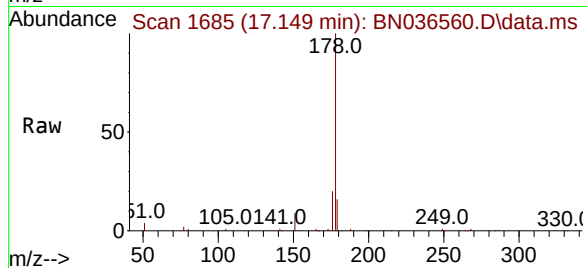
Tgt Ion:178 Resp: 15910

Ion Ratio Lower Upper

178 100

176 19.6 15.9 23.9

179 15.1 12.2 18.4



#26

Anthracene

Concen: 0.763 ng

RT: 17.236 min Scan# 1692

Delta R.T. -0.012 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

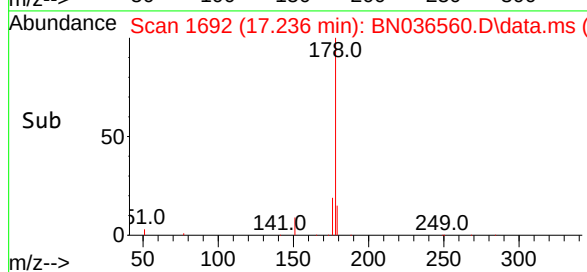
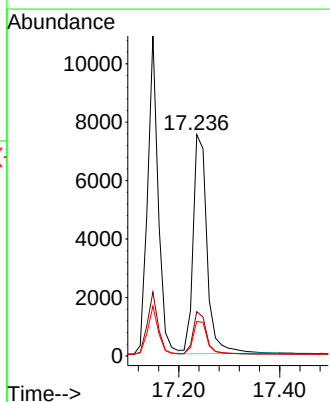
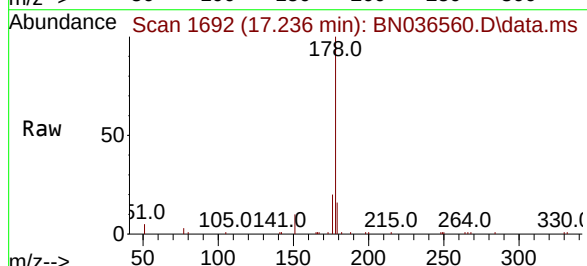
Tgt Ion:178 Resp: 14403

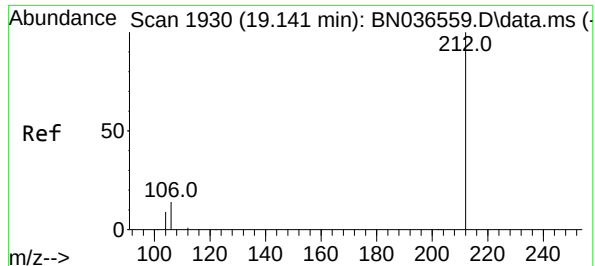
Ion Ratio Lower Upper

178 100

176 18.8 15.4 23.2

179 15.1 12.6 18.8





#27

Fluoranthene-d10

Concen: 0.746 ng

RT: 19.141 min Scan# 1930

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

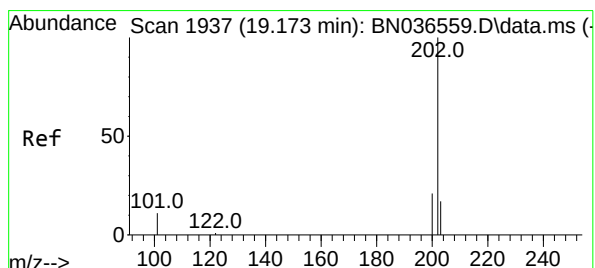
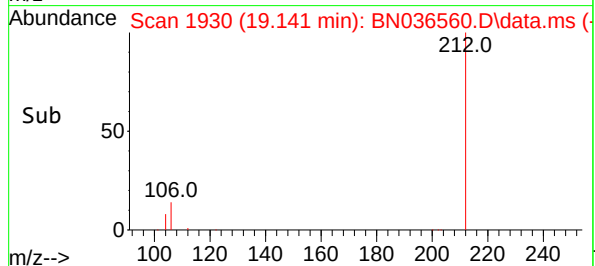
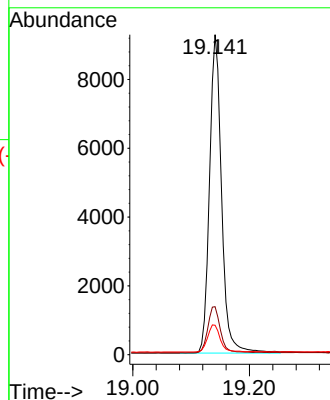
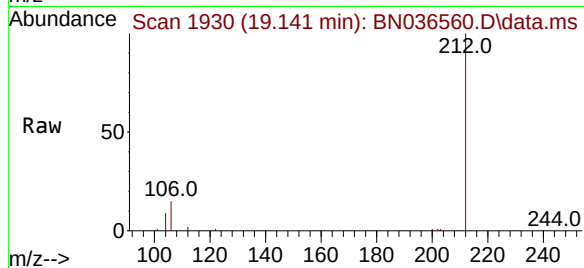
Tgt Ion:212 Resp: 13330

Ion Ratio Lower Upper

212 100

106 15.2 11.8 17.6

104 8.9 7.3 10.9



#28

Fluoranthene

Concen: 0.755 ng

RT: 19.174 min Scan# 1937

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

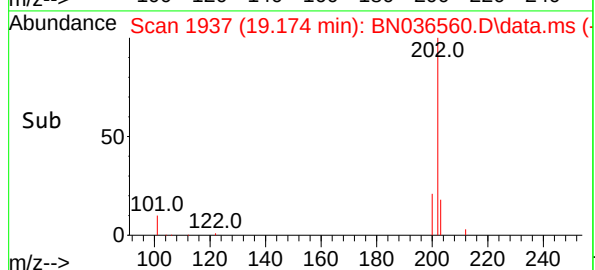
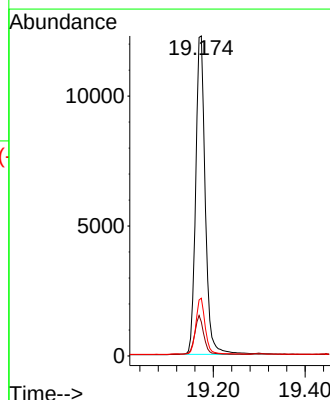
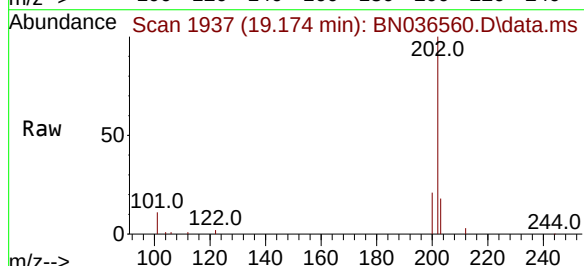
Tgt Ion:202 Resp: 17738

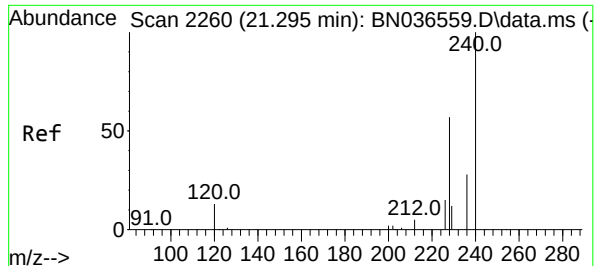
Ion Ratio Lower Upper

202 100

101 12.1 9.4 14.0

203 17.0 13.5 20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.295 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

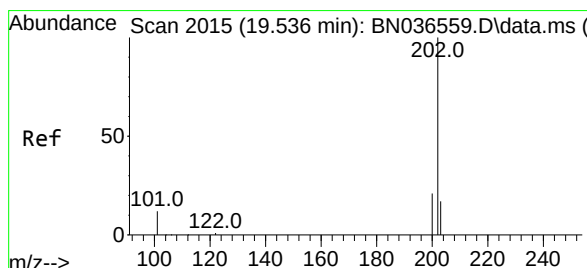
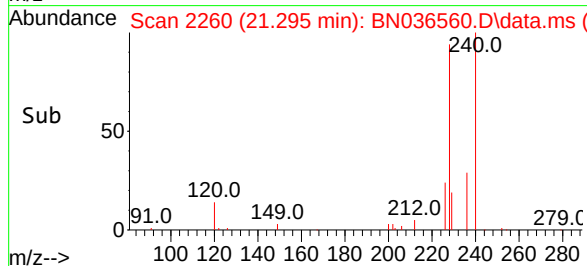
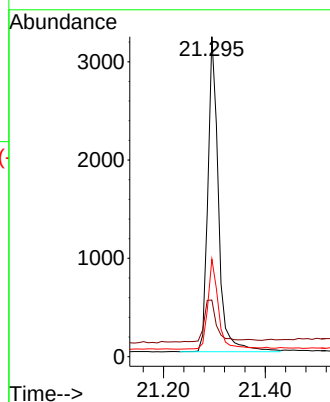
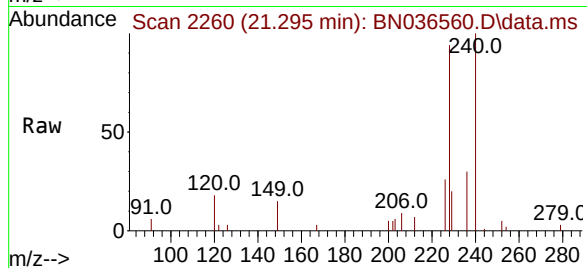
Tgt Ion:240 Resp: 4636

Ion Ratio Lower Upper

240 100

120 17.7 14.6 22.0

236 30.5 24.1 36.1



#30

Pyrene

Concen: 0.781 ng

RT: 19.536 min Scan# 2015

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

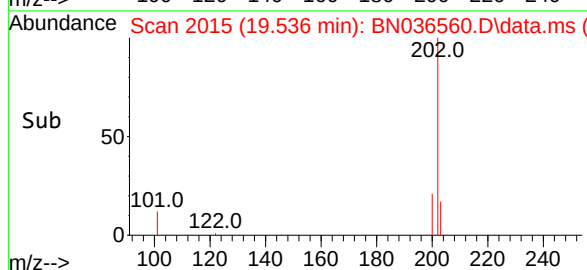
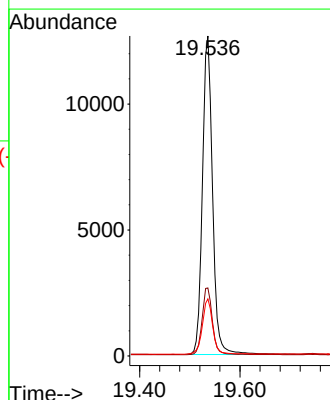
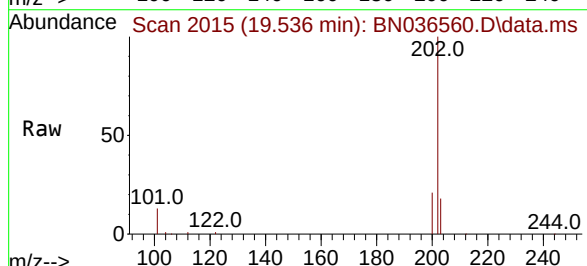
Tgt Ion:202 Resp: 17714

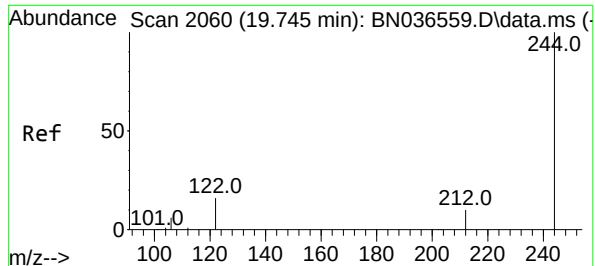
Ion Ratio Lower Upper

202 100

200 21.4 17.1 25.7

203 17.5 14.1 21.1

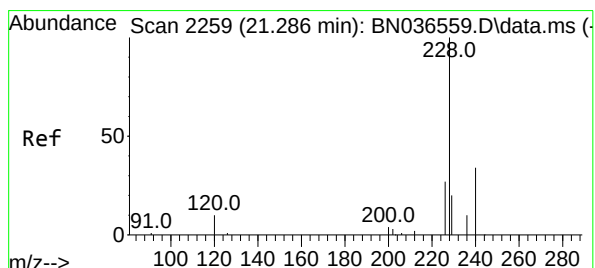
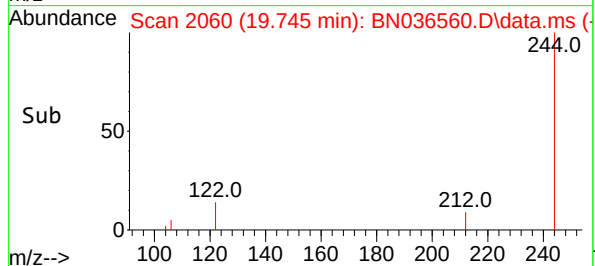
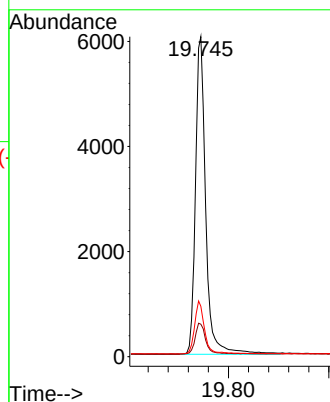
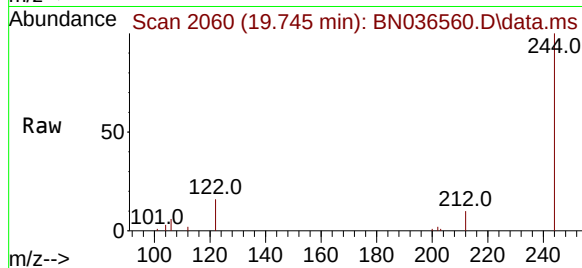




#31
Terphenyl-d14
Concen: 0.772 ng
RT: 19.745 min Scan# 2060
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

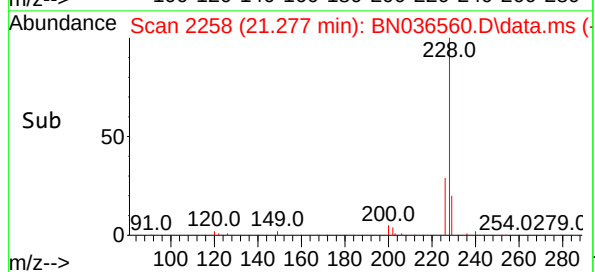
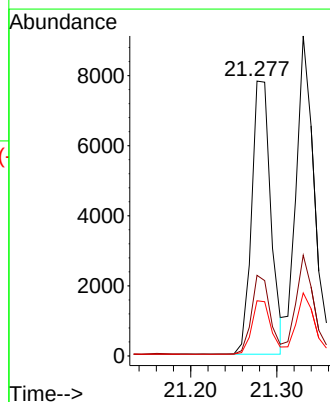
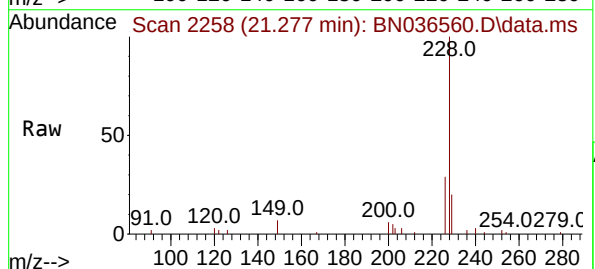
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.8

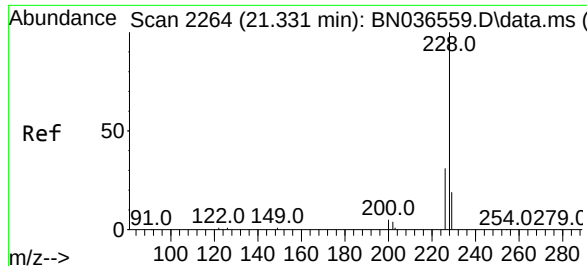
Tgt Ion:244 Resp: 8571
Ion Ratio Lower Upper
244 100
212 10.1 9.6 14.4
122 15.8 13.9 20.9



#32
Benzo(a)anthracene
Concen: 0.750 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.009 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:228 Resp: 12089
Ion Ratio Lower Upper
228 100
226 29.3 22.5 33.7
229 20.1 16.6 25.0





#33

Chrysene

Concen: 0.793 ng

RT: 21.331 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

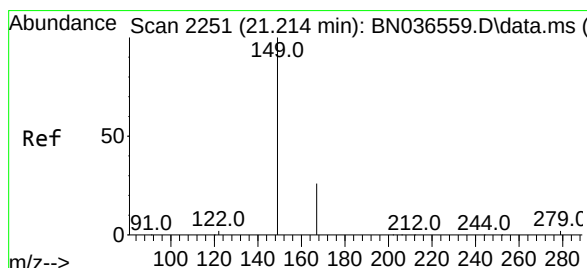
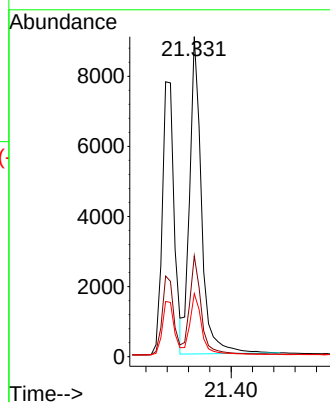
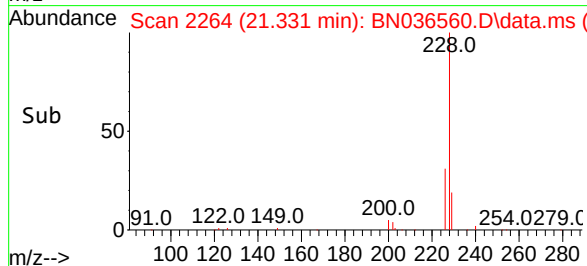
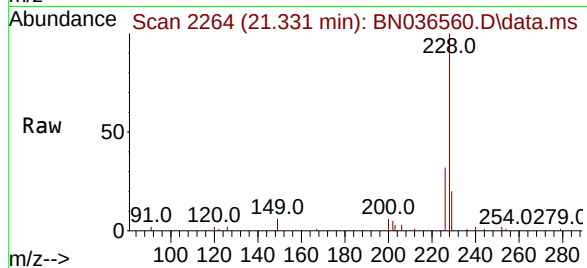
Tgt Ion:228 Resp: 13974

Ion Ratio Lower Upper

228 100

226 31.5 25.3 37.9

229 19.7 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.699 ng

RT: 21.214 min Scan# 2251

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

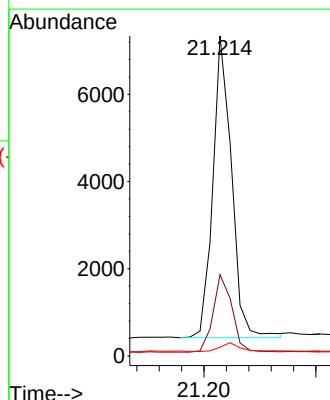
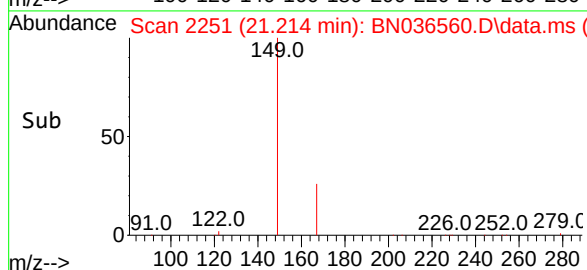
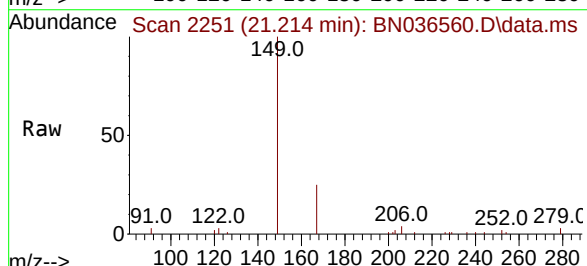
Tgt Ion:149 Resp: 8021

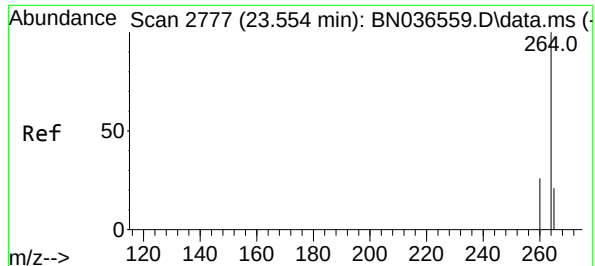
Ion Ratio Lower Upper

149 100

167 25.9 20.7 31.1

279 3.2 3.6 5.4#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.554 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

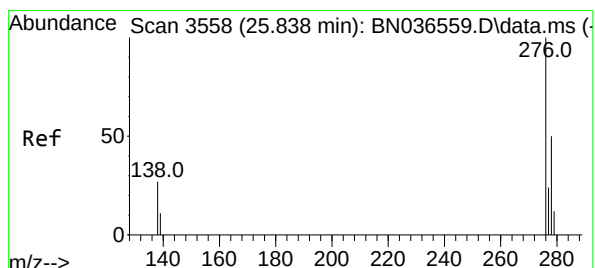
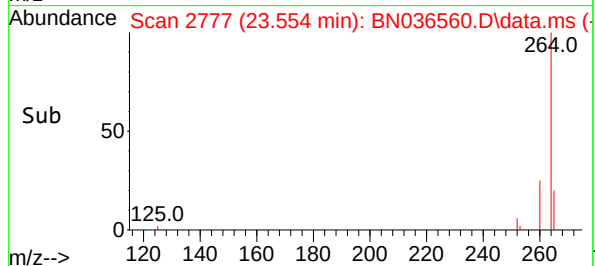
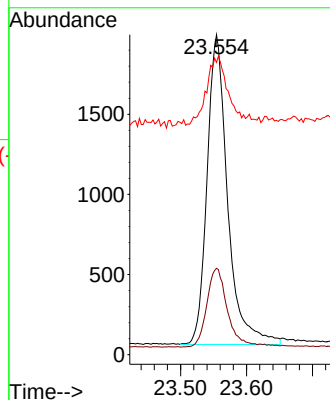
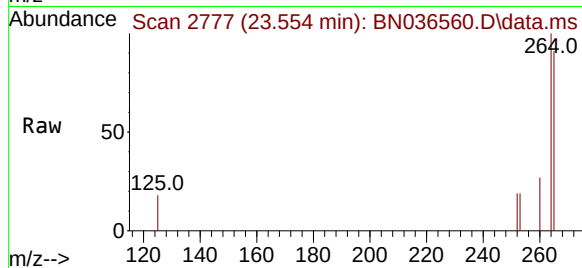
Tgt Ion:264 Resp: 4198

Ion Ratio Lower Upper

264 100

260 27.0 22.6 33.8

265 91.3 88.1 132.1



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.778 ng

RT: 25.838 min Scan# 3558

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

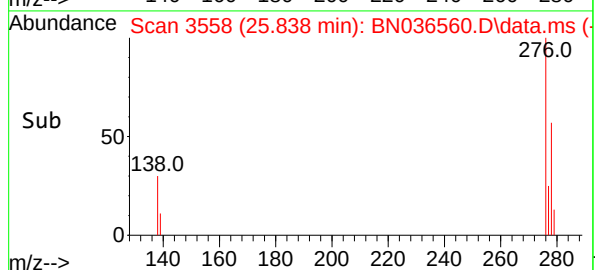
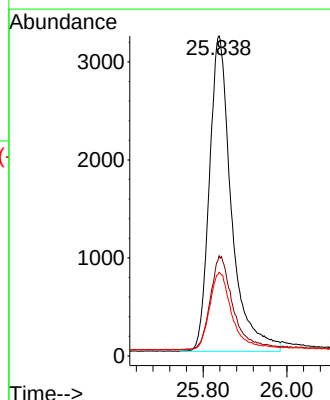
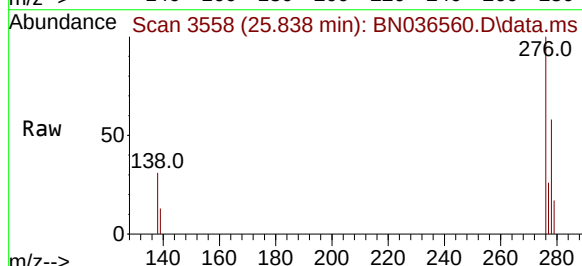
Tgt Ion:276 Resp: 11785

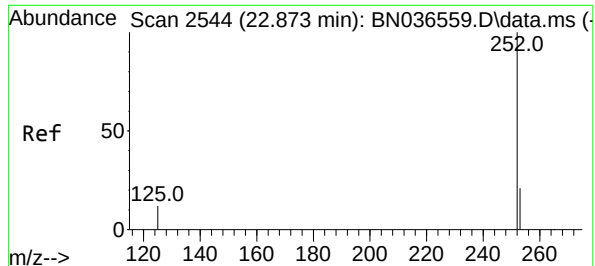
Ion Ratio Lower Upper

276 100

138 29.6 23.4 35.2

277 24.7 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.770 ng

RT: 22.873 min Scan# 2544

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

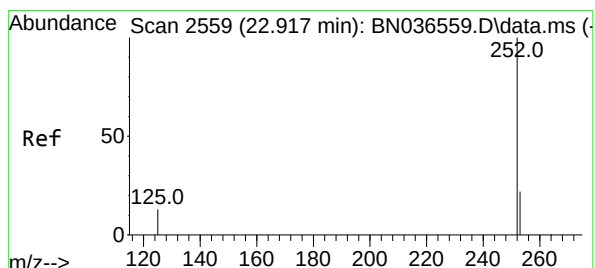
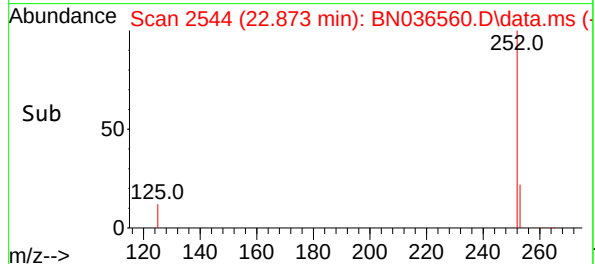
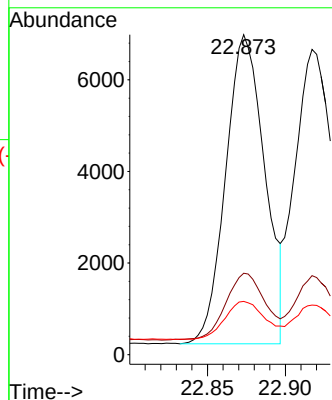
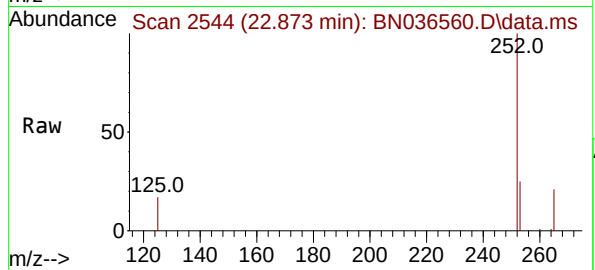
Tgt Ion:252 Resp: 11771

Ion Ratio Lower Upper

252 100

253 25.5 23.9 35.9

125 16.7 17.4 26.2#



#38

Benzo(k)fluoranthene

Concen: 0.776 ng

RT: 22.917 min Scan# 2559

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

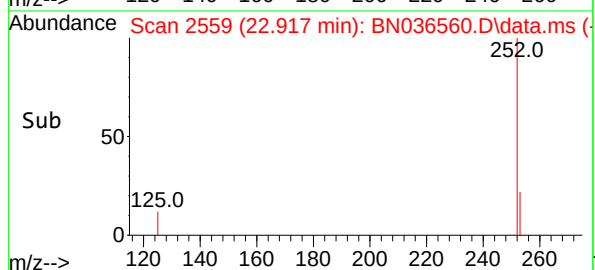
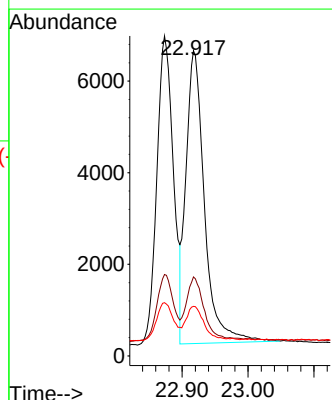
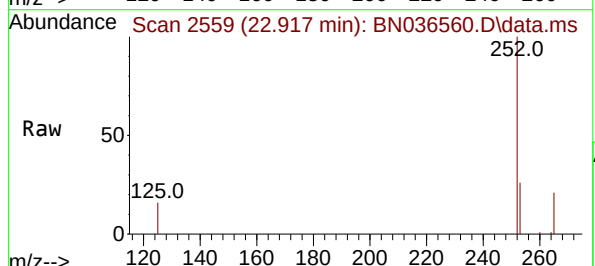
Tgt Ion:252 Resp: 12432

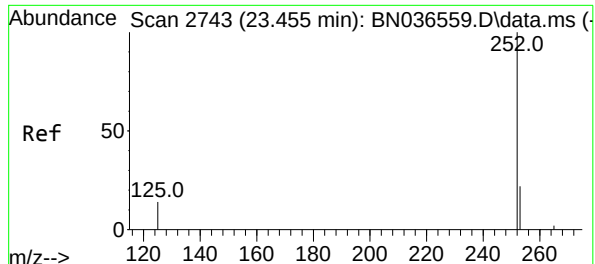
Ion Ratio Lower Upper

252 100

253 25.9 24.6 36.8

125 16.2 17.8 26.8#





#39

Benzo(a)pyrene

Concen: 0.780 ng

RT: 23.455 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

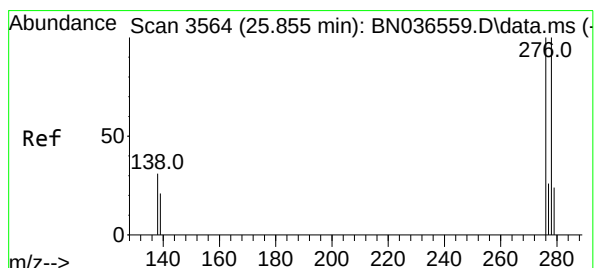
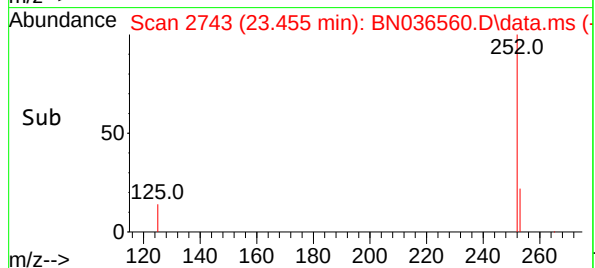
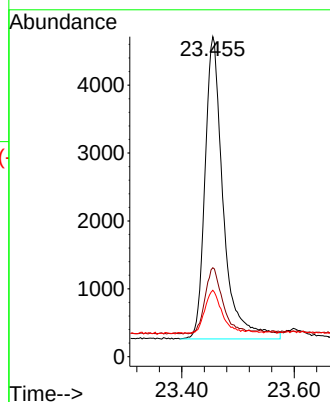
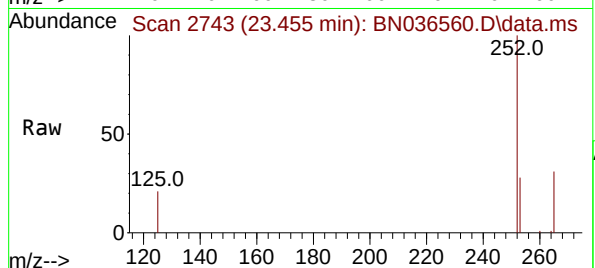
Tgt Ion:252 Resp: 10036

Ion Ratio Lower Upper

252 100

253 27.8 27.8 41.8#

125 20.7 22.7 34.1#



#40

Dibenzo(a,h)anthracene

Concen: 0.801 ng

RT: 25.858 min Scan# 3565

Delta R.T. 0.003 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

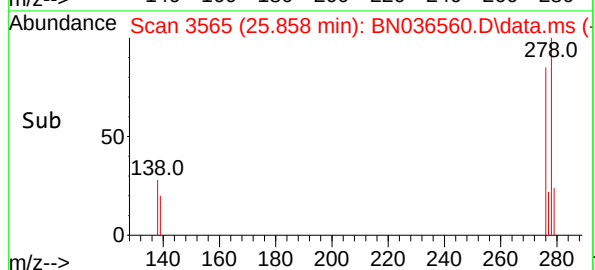
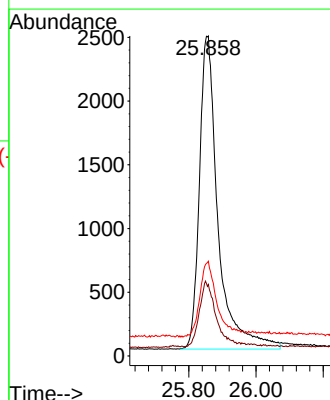
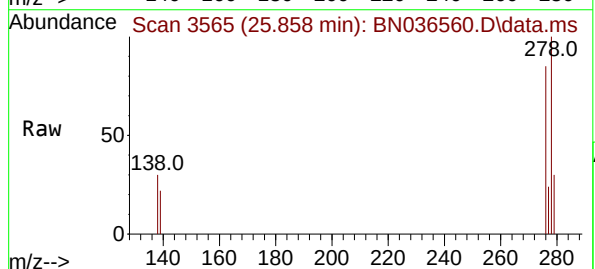
Tgt Ion:278 Resp: 9450

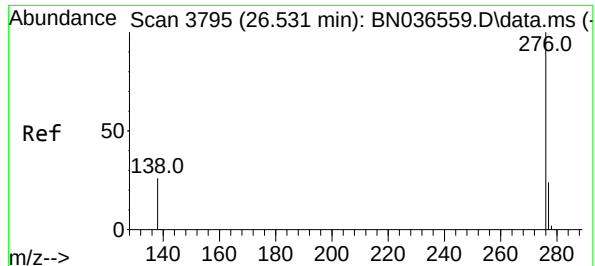
Ion Ratio Lower Upper

278 100

139 22.3 20.8 31.2

279 29.6 28.8 43.2





#41

Benzo(g,h,i)perylene

Concen: 0.778 ng

RT: 26.534 min Scan# 31

Delta R.T. 0.003 min

Lab File: BN036560.D

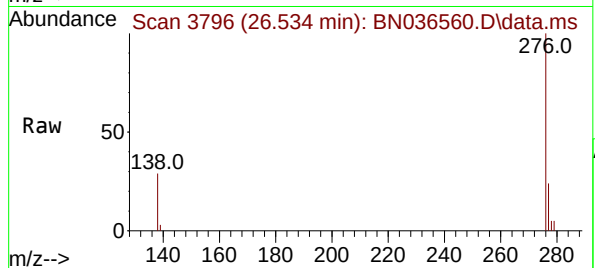
Acq: 10 Mar 2025 13:31

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



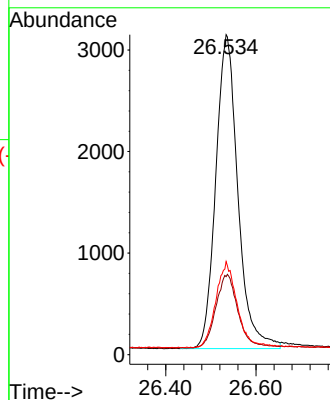
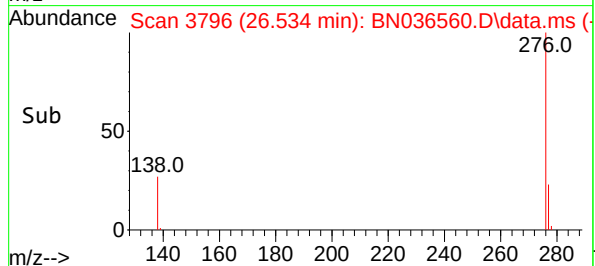
Tgt Ion:276 Resp: 10494

Ion Ratio Lower Upper

276 100

277 24.4 22.2 33.4

138 29.1 24.1 36.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
 Data File : BN036561.D
 Acq On : 10 Mar 2025 14:07
 Operator : RC/JU
 Sample : SSTDICC1.6
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC1.6

Quant Time: Mar 10 16:02:21 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 15:54:23 2025
 Response via : Initial Calibration

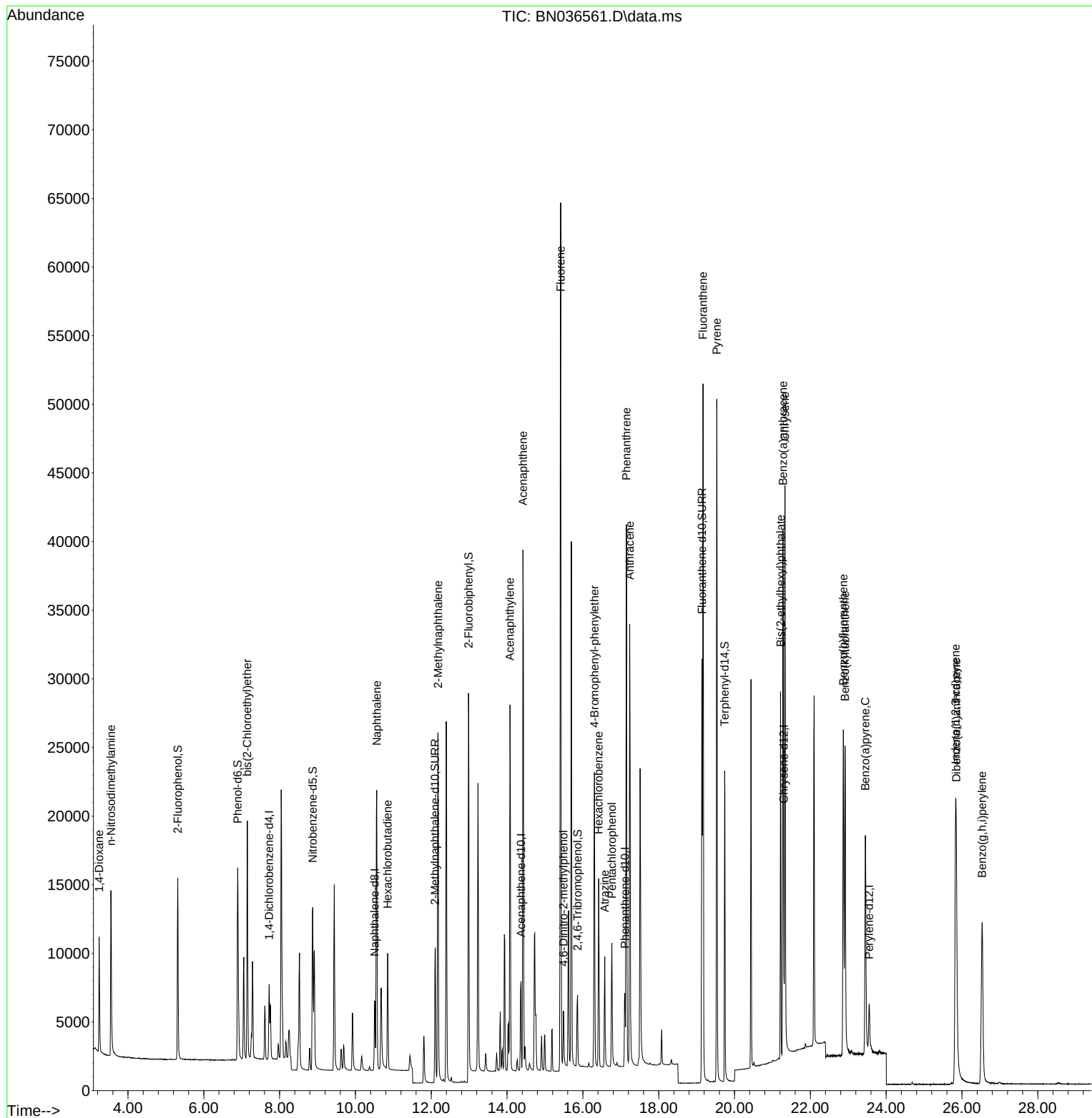
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2537	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	6200	0.400	ng	0.00
13) Acenaphthene-d10	14.366	164	3827	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	8149	0.400	ng	0.00
29) Chrysene-d12	21.295	240	5977	0.400	ng	# 0.00
35) Perylene-d12	23.552	264	5048	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	9276	1.569	ng	0.00
5) Phenol-d6	6.894	99	11493	1.574	ng	0.00
8) Nitrobenzene-d5	8.875	82	9959	1.477	ng	0.00
11) 2-Methylnaphthalene-d10	12.101	152	14319	1.553	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	2872	1.654	ng	0.00
15) 2-Fluorobiphenyl	12.983	172	36192	1.626	ng	0.00
27) Fluoranthene-d10	19.141	212	33414	1.600	ng	0.00
31) Terphenyl-d14	19.740	244	21872	1.527	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	4464	1.586	ng	98
3) n-Nitrosodimethylamine	3.550	42	8625	1.515	ng	# 96
6) bis(2-Chloroethyl)ether	7.147	93	11485	1.521	ng	99
9) Naphthalene	10.562	128	27473	1.506	ng	97
10) Hexachlorobutadiene	10.851	225	6466	1.506	ng	# 99
12) 2-Methylnaphthalene	12.177	142	18206	1.569	ng	98
16) Acenaphthylene	14.078	152	28080	1.555	ng	100
17) Acenaphthene	14.420	154	18355	1.553	ng	98
18) Fluorene	15.414	166	25565	1.599	ng	99
20) 4,6-Dinitro-2-methylph...	15.489	198	2879	1.488	ng	# 64
21) 4-Bromophenyl-phenylether	16.305	248	7859	1.539	ng	# 85
22) Hexachlorobenzene	16.416	284	9216	1.495	ng	100
23) Atrazine	16.578	200	6530	1.595	ng	# 91
24) Pentachlorophenol	16.764	266	4395	1.563	ng	99
25) Phenanthrene	17.149	178	37989	1.554	ng	99
26) Anthracene	17.235	178	35054	1.589	ng	99
28) Fluoranthene	19.169	202	44451	1.619	ng	99
30) Pyrene	19.531	202	44705	1.530	ng	100
32) Benzo(a)anthracene	21.277	228	32205	1.550	ng	98
33) Chrysene	21.331	228	34953	1.539	ng	99
34) Bis(2-ethylhexyl)phtha...	21.214	149	22621	1.529	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.832	276	28605	1.570	ng	99
37) Benzo(b)fluoranthene	22.870	252	29819	1.623	ng	# 86
38) Benzo(k)fluoranthene	22.917	252	30710	1.593	ng	# 85
39) Benzo(a)pyrene	23.452	252	24696	1.596	ng	# 79
40) Dibenzo(a,h)anthracene	25.850	278	22248	1.569	ng	# 85
41) Benzo(g,h,i)perylene	26.531	276	24906	1.535	ng	93

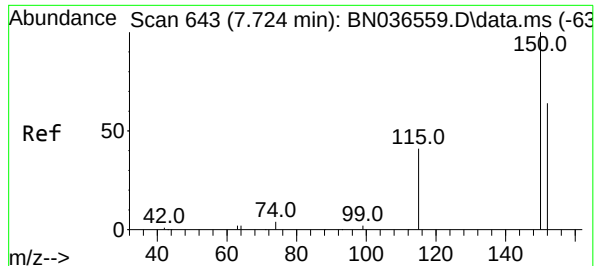
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036561.D
Acq On : 10 Mar 2025 14:07
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Mar 10 16:02:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration

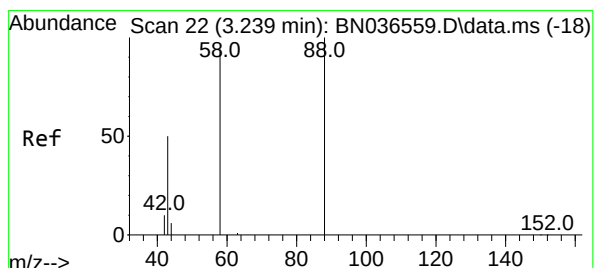
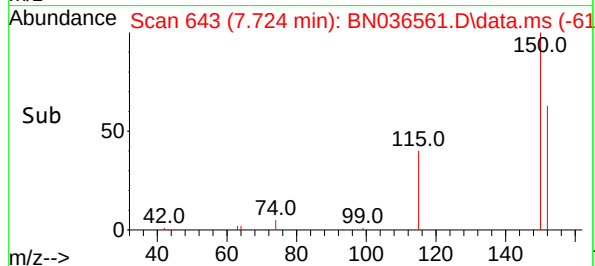
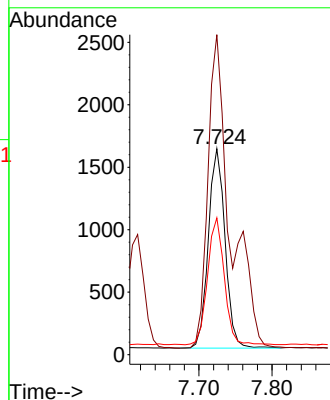
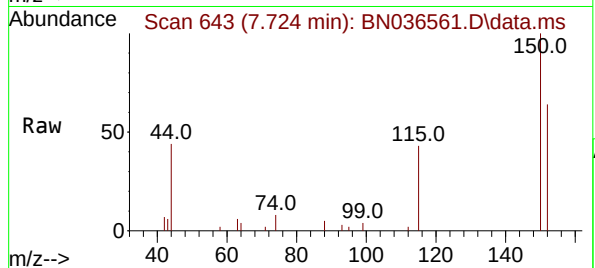




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

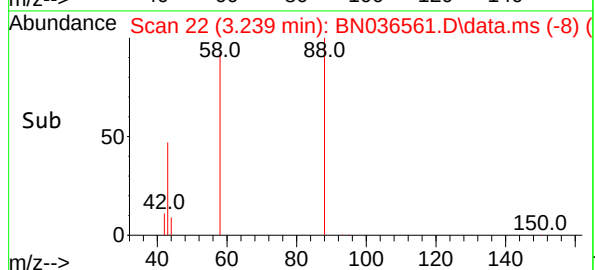
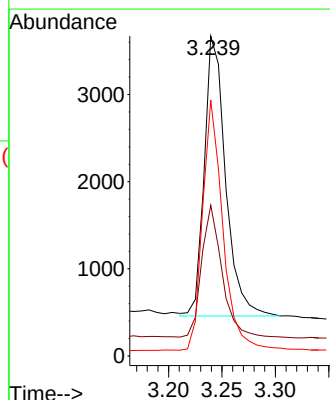
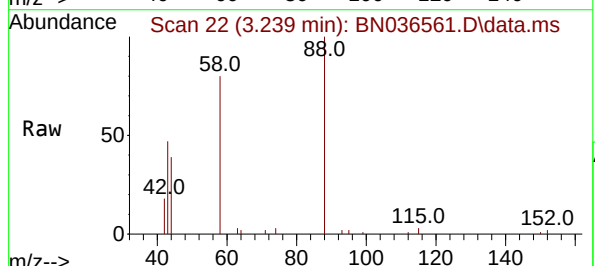
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

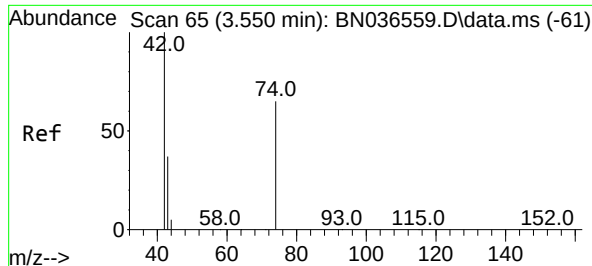
Tgt Ion:152 Resp: 2537
Ion Ratio Lower Upper
152 100
150 155.4 123.7 185.5
115 66.4 54.3 81.5



#2
1,4-Dioxane
Concen: 1.586 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion: 88 Resp: 4464
Ion Ratio Lower Upper
88 100
43 45.1 37.8 56.8
58 85.6 67.4 101.2

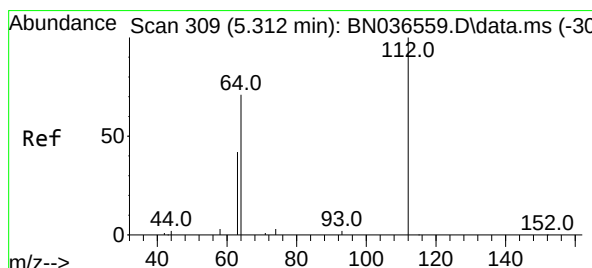
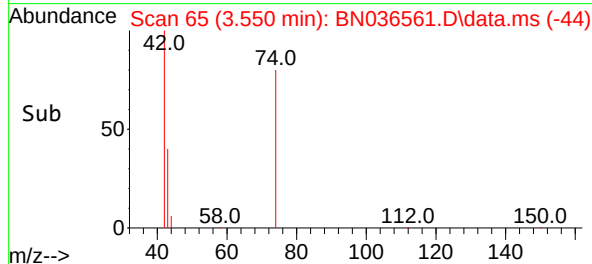
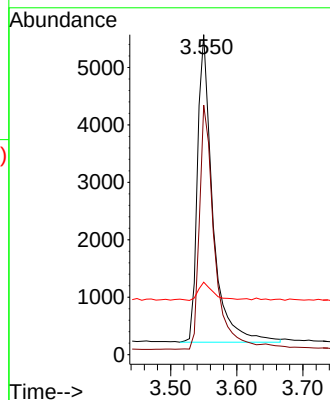
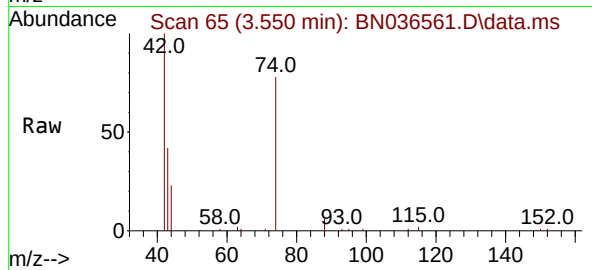




#3
n-Nitrosodimethylamine
Concen: 1.515 ng
RT: 3.550 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

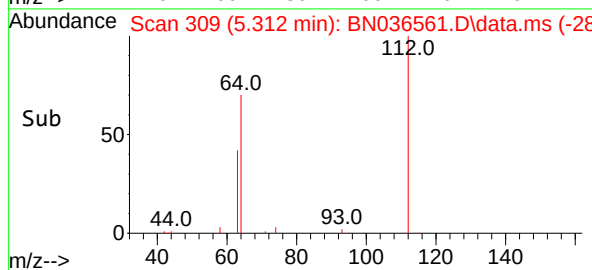
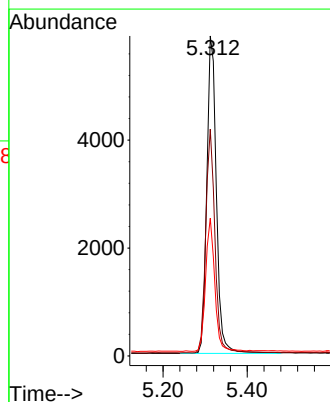
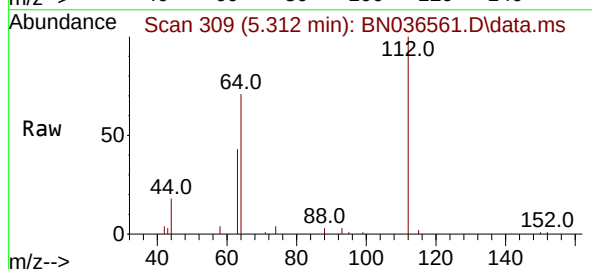
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

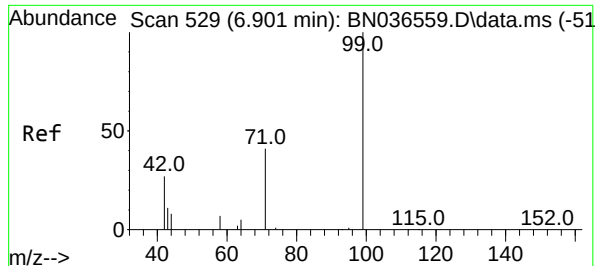
Tgt Ion: 42 Resp: 8625
Ion Ratio Lower Upper
42 100
74 79.2 60.6 90.8
44 5.8 6.3 9.5#



#4
2-Fluorophenol
Concen: 1.569 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion: 112 Resp: 9276
Ion Ratio Lower Upper
112 100
64 68.3 53.1 79.7
63 40.1 31.8 47.8

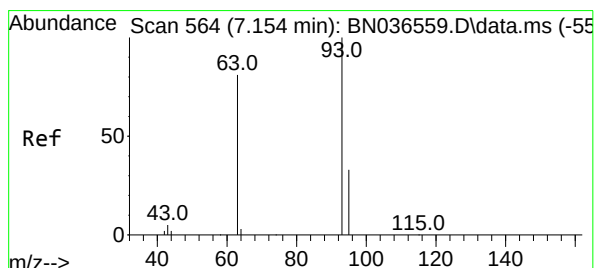
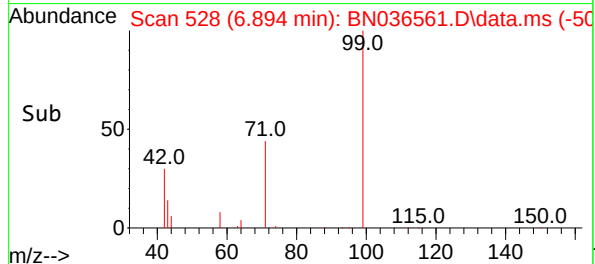
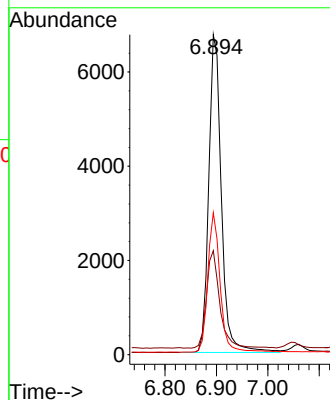
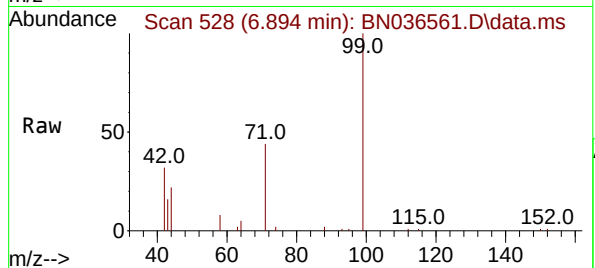




#5
Phenol-d6
Concen: 1.574 ng
RT: 6.894 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

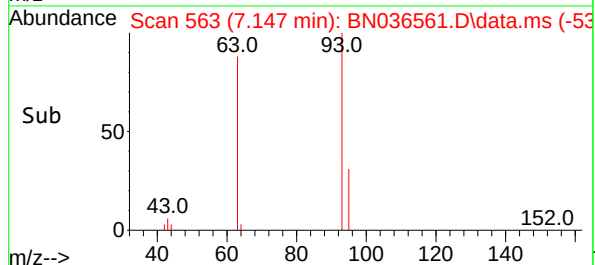
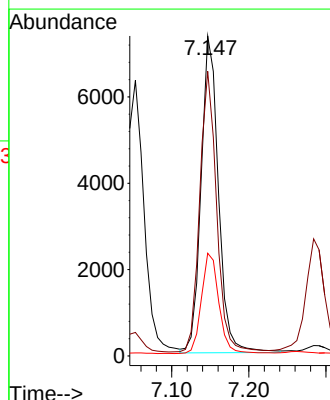
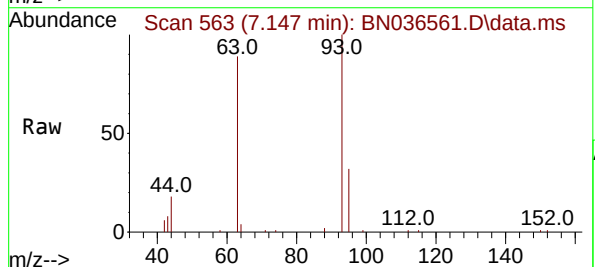
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

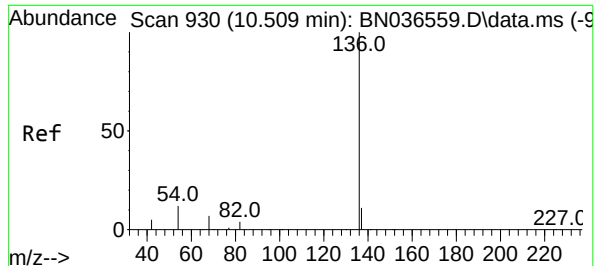
Tgt Ion: 99 Resp: 11493
Ion Ratio Lower Upper
99 100
42 32.6 26.5 39.7
71 43.3 34.1 51.1



#6
bis(2-Chloroethyl)ether
Concen: 1.521 ng
RT: 7.147 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion: 93 Resp: 11485
Ion Ratio Lower Upper
93 100
63 85.8 67.7 101.5
95 31.8 25.6 38.4

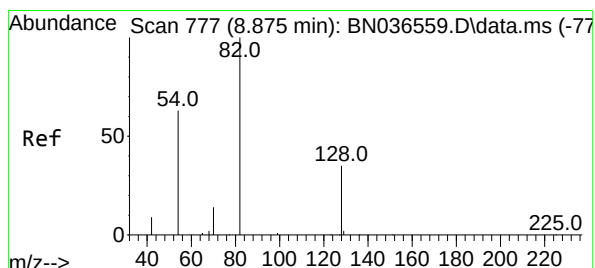
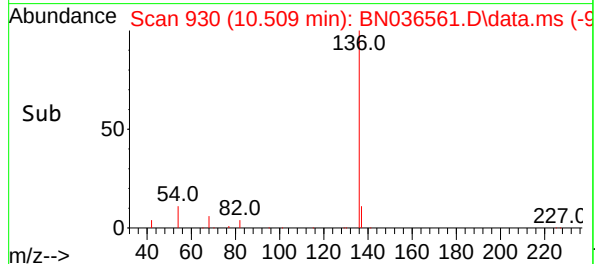
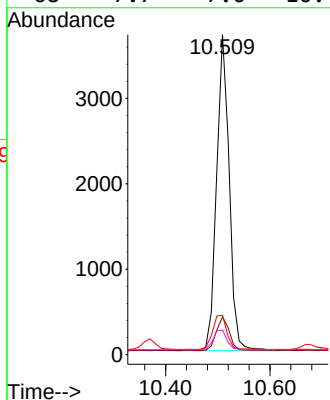
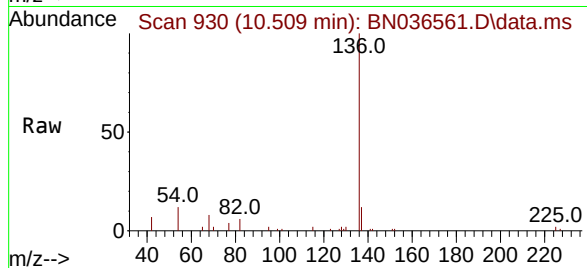




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

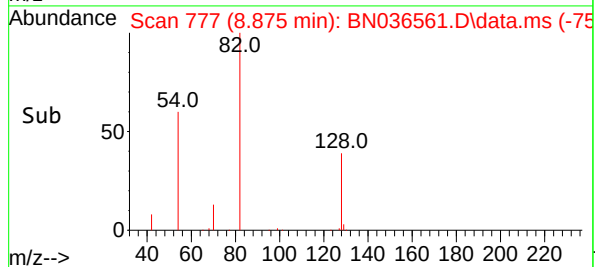
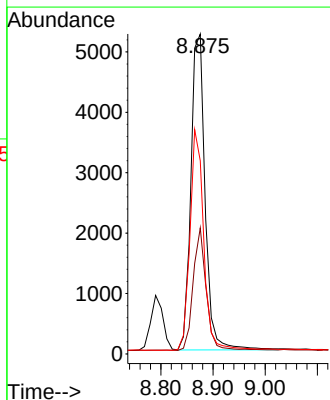
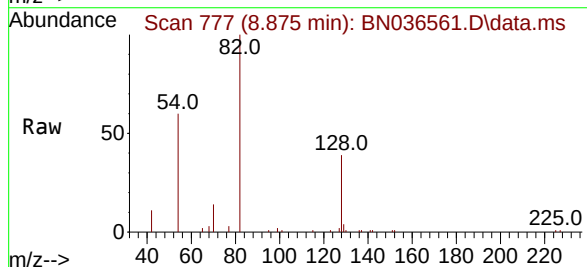
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

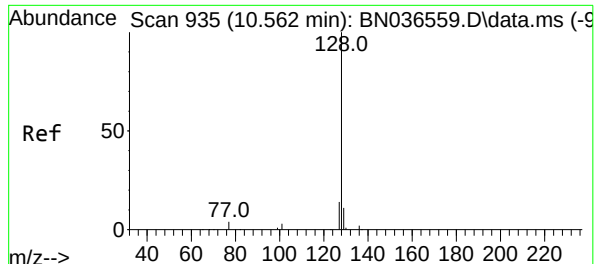
Tgt Ion:	136	Resp:	6200
Ion	Ratio	Lower	Upper
136	100		
137	11.9	10.3	15.5
54	12.3	11.5	17.3
68	7.7	7.0	10.4



#8
Nitrobenzene-d5
Concen: 1.477 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:	82	Resp:	9959
Ion	Ratio	Lower	Upper
82	100		
128	39.4	30.6	45.8
54	60.4	52.2	78.4





#9

Naphthalene

Concen: 1.506 ng

RT: 10.562 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

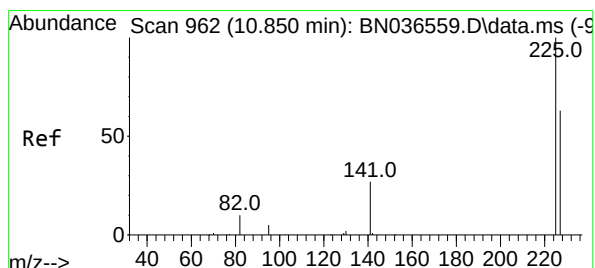
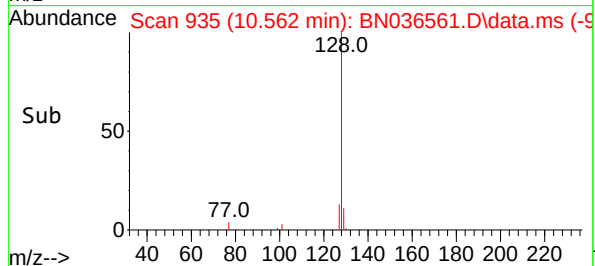
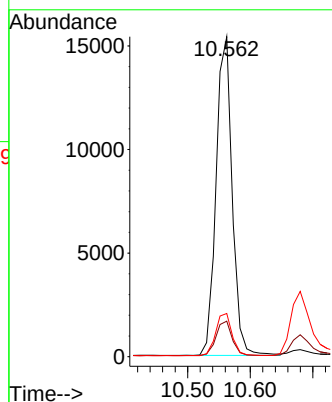
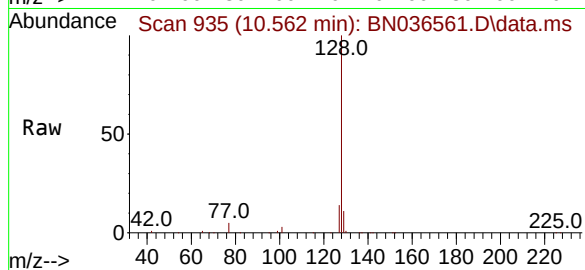
Tgt Ion:128 Resp: 27473

Ion Ratio Lower Upper

128 100

129 11.1 9.8 14.6

127 13.5 11.8 17.8



#10

Hexachlorobutadiene

Concen: 1.506 ng

RT: 10.851 min Scan# 962

Delta R.T. 0.000 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

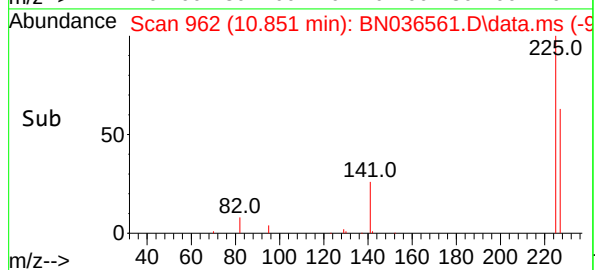
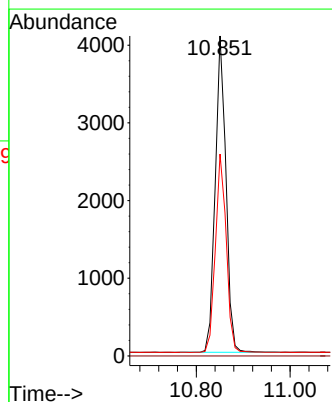
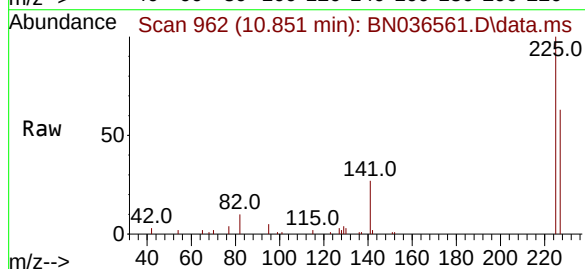
Tgt Ion:225 Resp: 6466

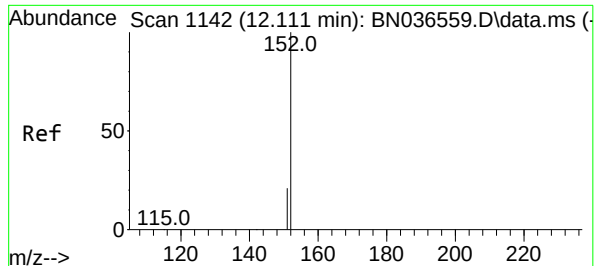
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.8 51.8 77.8

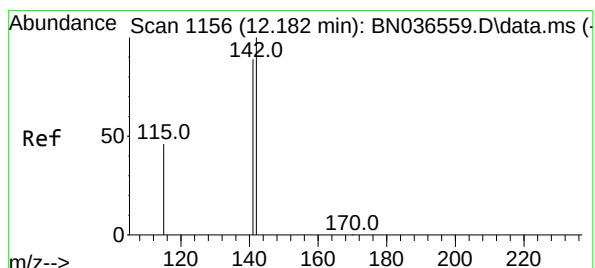
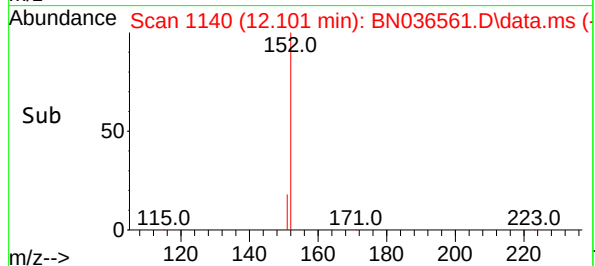
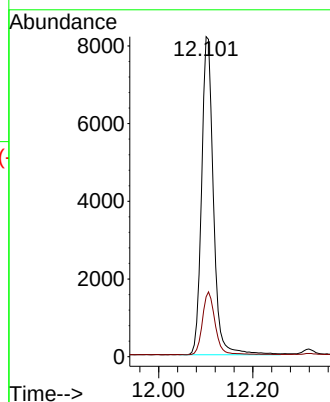
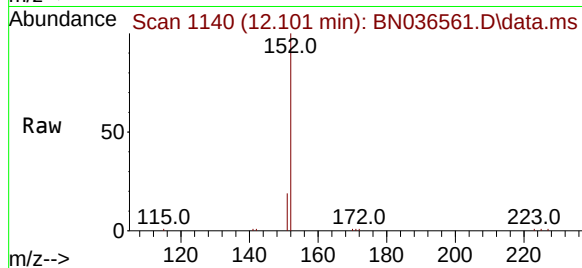




#11
2-Methylnaphthalene-d10
Concen: 1.553 ng
RT: 12.101 min Scan# 1142
Delta R.T. -0.010 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

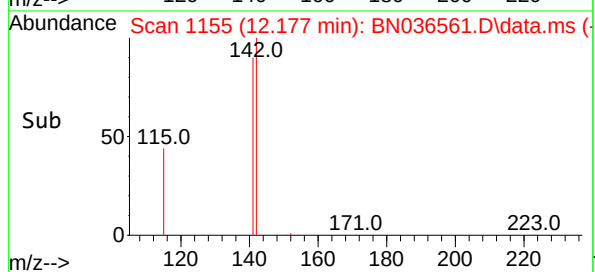
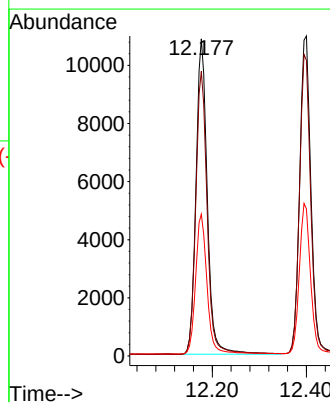
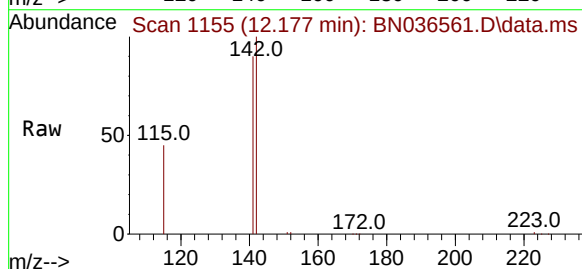
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

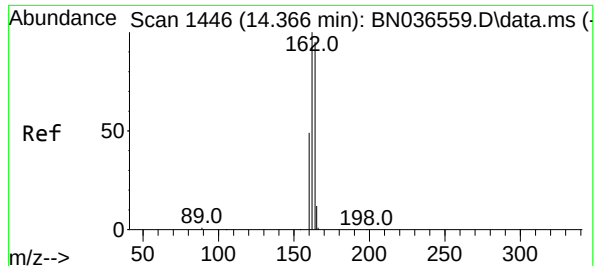
Tgt Ion:152 Resp: 14319
Ion Ratio Lower Upper
152 100
151 21.3 17.0 25.6



#12
2-Methylnaphthalene
Concen: 1.569 ng
RT: 12.177 min Scan# 1155
Delta R.T. -0.005 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:142 Resp: 18206
Ion Ratio Lower Upper
142 100
141 89.7 71.7 107.5
115 44.7 38.3 57.5

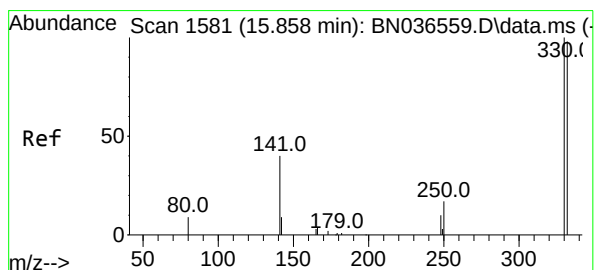
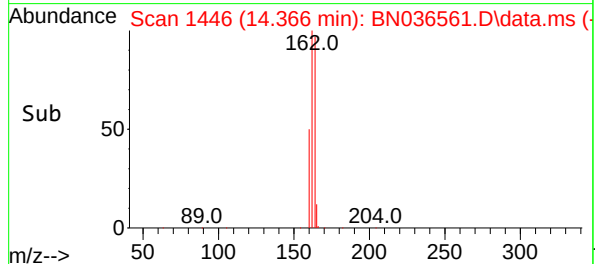
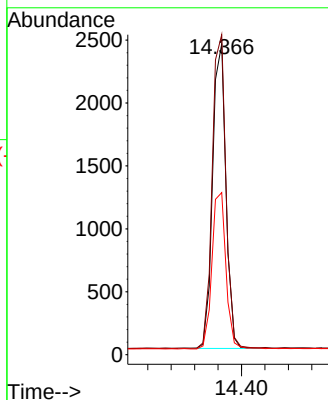
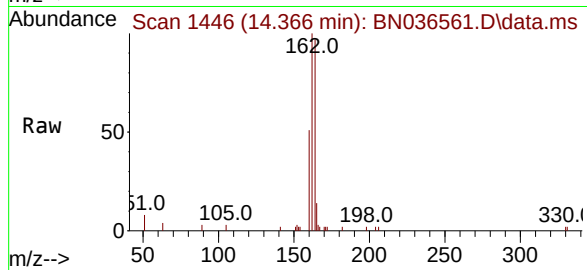




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

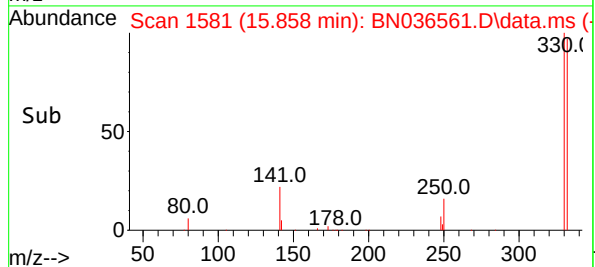
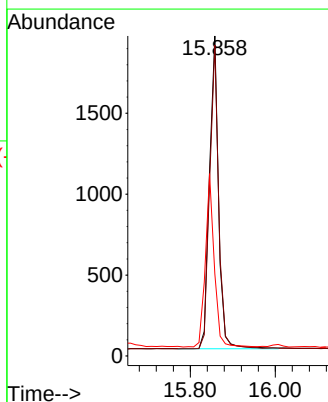
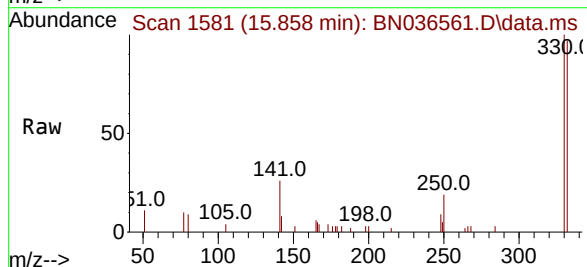
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

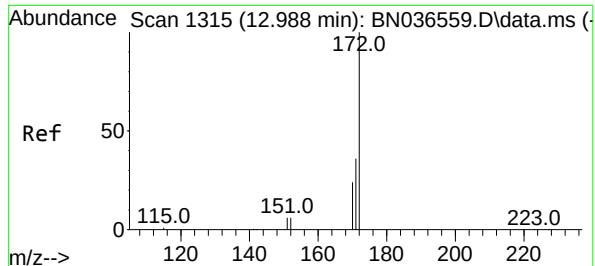
Tgt Ion:164 Resp: 3827
Ion Ratio Lower Upper
164 100
162 102.9 84.2 126.2
160 52.1 42.2 63.2



#14
2,4,6-Tribromophenol
Concen: 1.654 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:330 Resp: 2872
Ion Ratio Lower Upper
330 100
332 96.3 75.2 112.8
141 53.8 43.4 65.2





#15

2-Fluorobiphenyl

Concen: 1.626 ng

RT: 12.983 min Scan# 1314

Delta R.T. -0.005 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

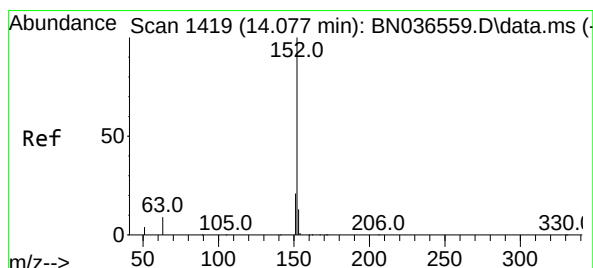
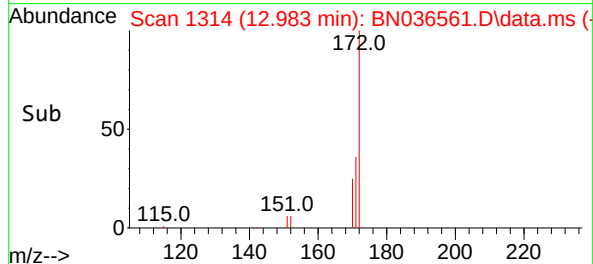
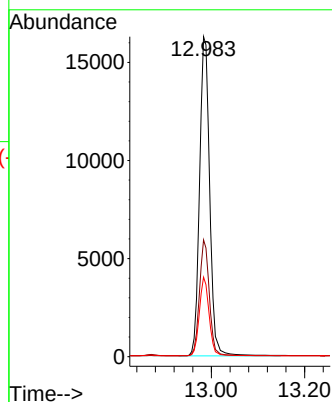
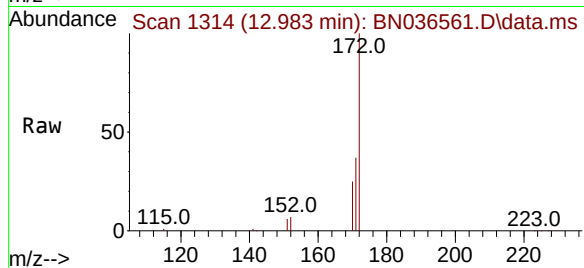
Tgt Ion:172 Resp: 36192

Ion Ratio Lower Upper

172 100

171 36.5 29.5 44.3

170 24.9 20.2 30.4



#16

Acenaphthylene

Concen: 1.555 ng

RT: 14.078 min Scan# 1419

Delta R.T. 0.000 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

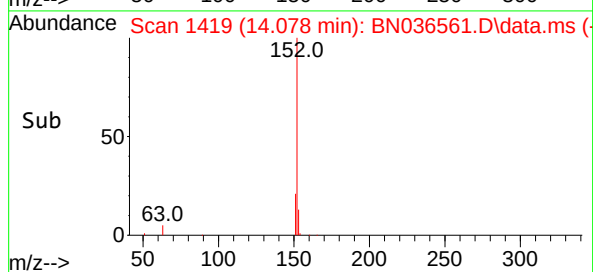
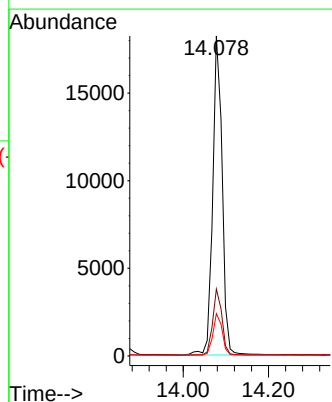
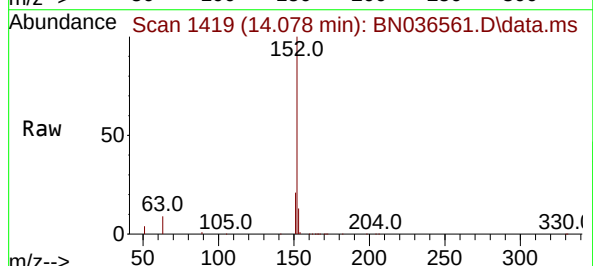
Tgt Ion:152 Resp: 28080

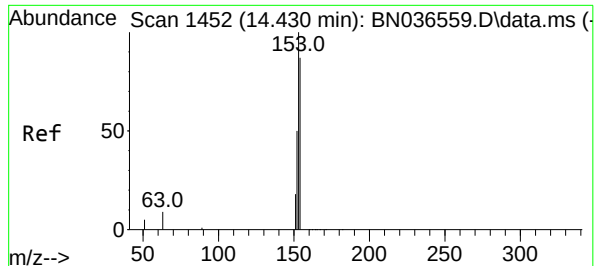
Ion Ratio Lower Upper

152 100

151 20.3 16.2 24.4

153 13.0 10.6 15.8





#17

Acenaphthene

Concen: 1.553 ng

RT: 14.420 min Scan# 1451

Delta R.T. -0.011 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

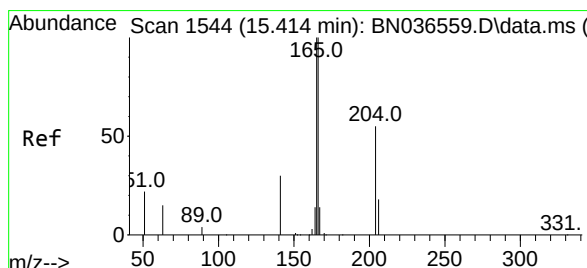
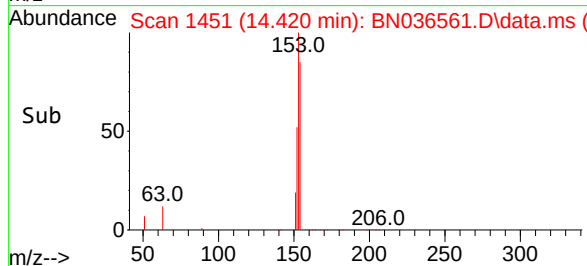
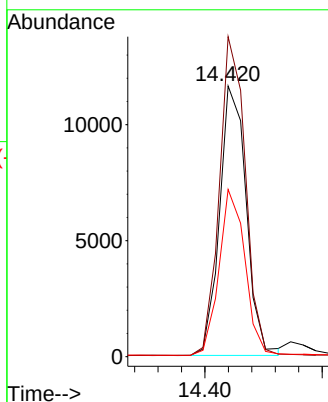
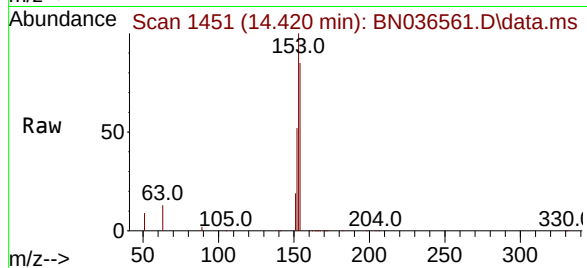
Tgt Ion:154 Resp: 18355

Ion Ratio Lower Upper

154 100

153 115.7 94.1 141.1

152 60.3 49.8 74.6



#18

Fluorene

Concen: 1.599 ng

RT: 15.414 min Scan# 1544

Delta R.T. 0.000 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

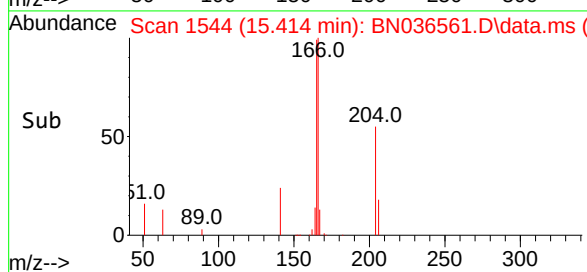
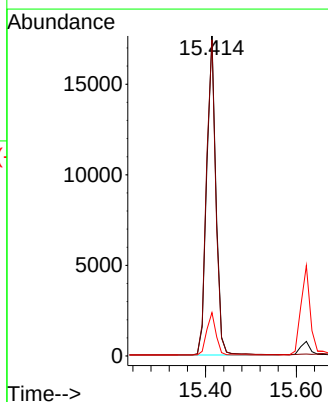
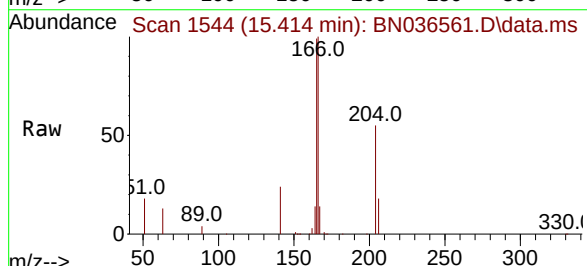
Tgt Ion:166 Resp: 25565

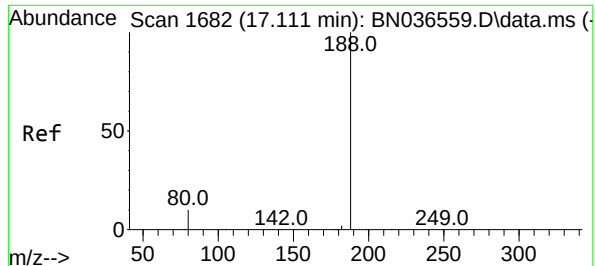
Ion Ratio Lower Upper

166 100

165 100.5 79.8 119.8

167 13.1 10.6 15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.111 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

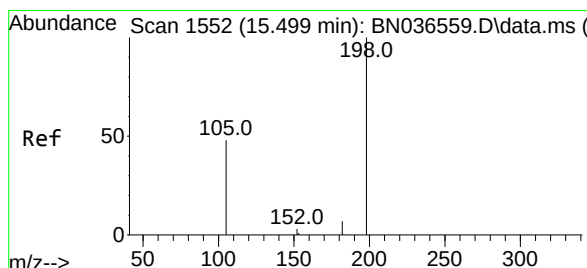
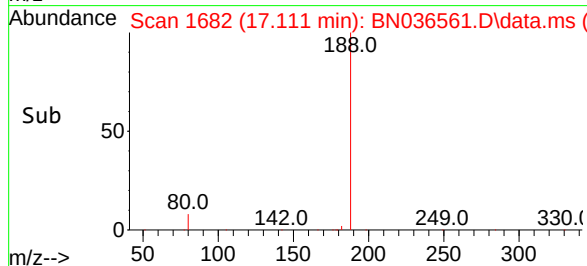
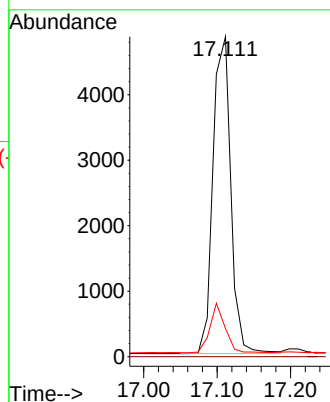
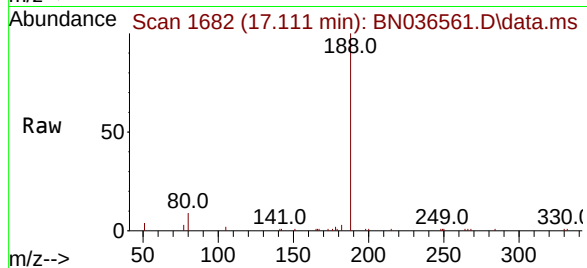
Tgt Ion:188 Resp: 8149

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.8 8.8 13.2



#20

4,6-Dinitro-2-methylphenol

Concen: 1.488 ng

RT: 15.489 min Scan# 1551

Delta R.T. -0.010 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

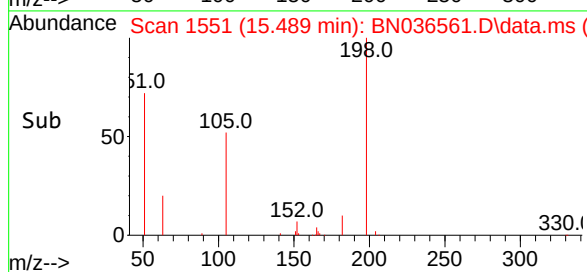
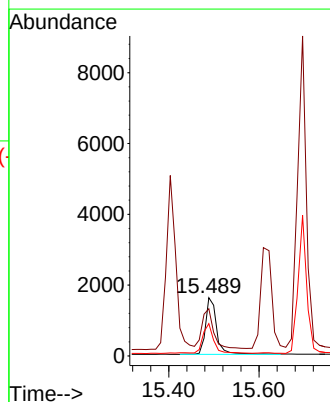
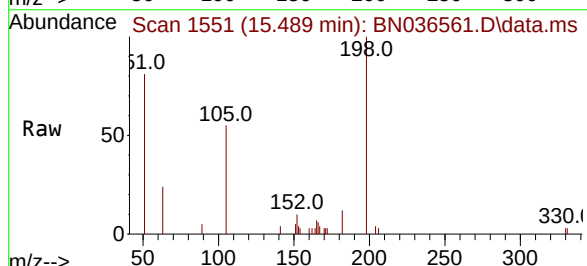
Tgt Ion:198 Resp: 2879

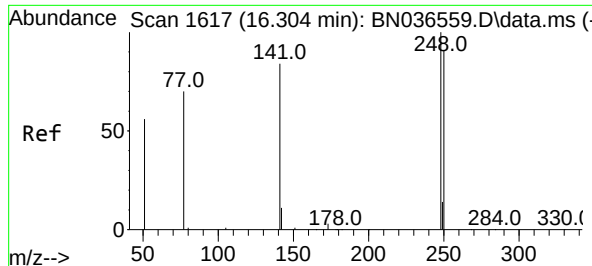
Ion Ratio Lower Upper

198 100

51 81.2 107.9 161.9#

105 55.5 56.2 84.2#

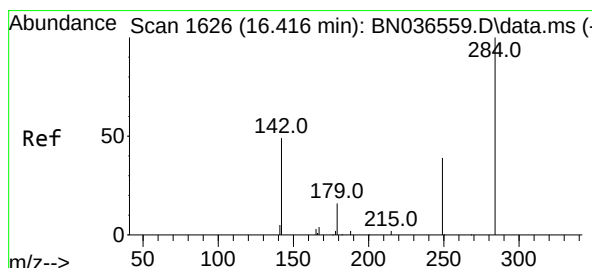
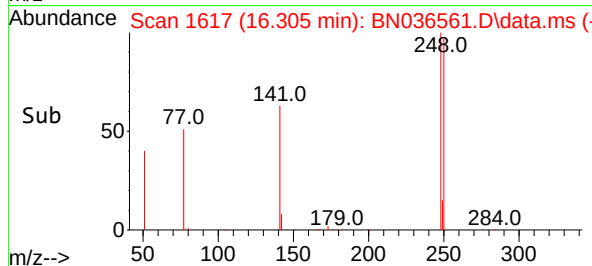
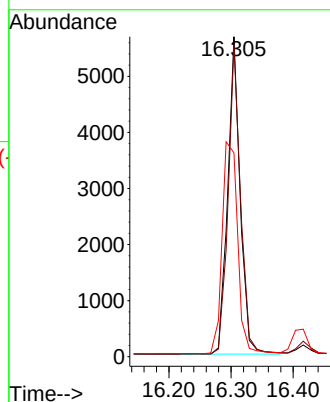
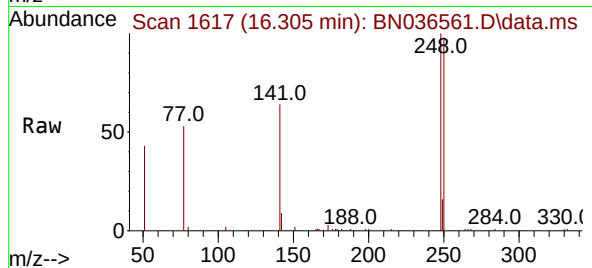




#21
4-Bromophenyl-phenylether
Concen: 1.539 ng
RT: 16.305 min Scan# 1617
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

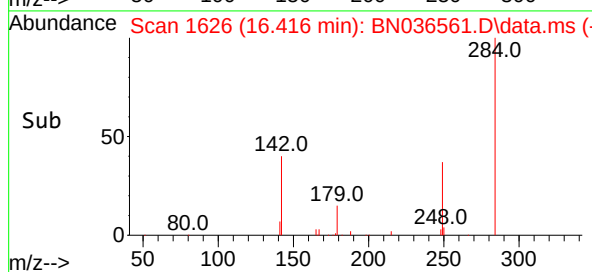
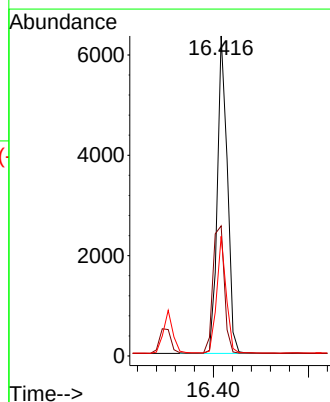
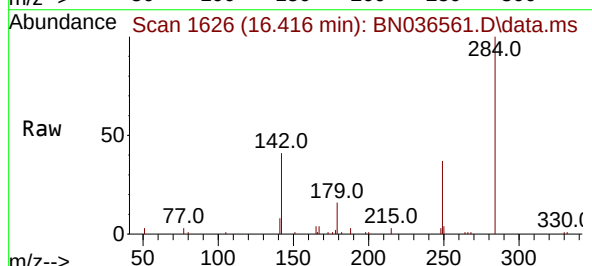
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

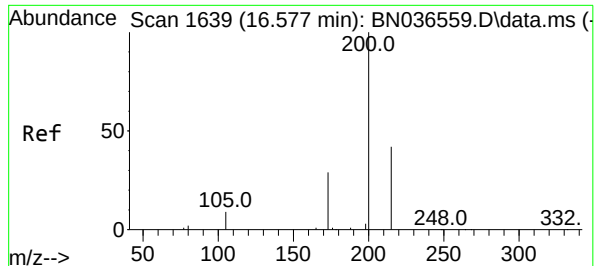
Tgt Ion	Ratio	Lower	Upper
248	100		
250	97.5	73.0	109.6
141	63.7	68.6	103.0#



#22
Hexachlorobenzene
Concen: 1.495 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion	Ratio	Lower	Upper
284	100		
142	46.6	37.0	55.4
249	35.1	28.1	42.1

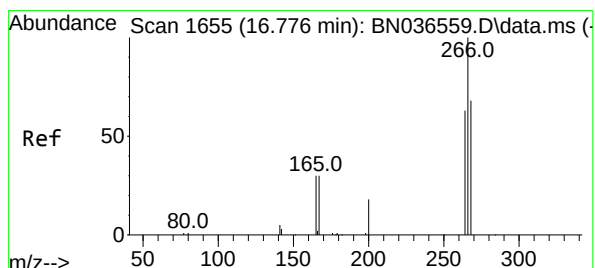
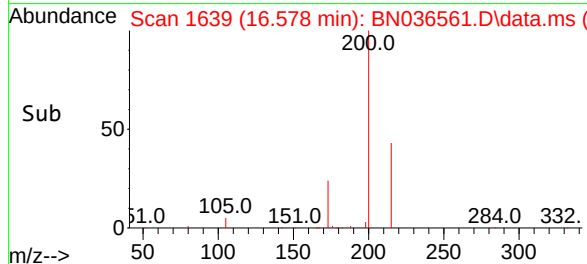
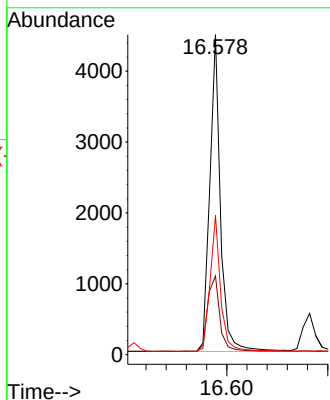
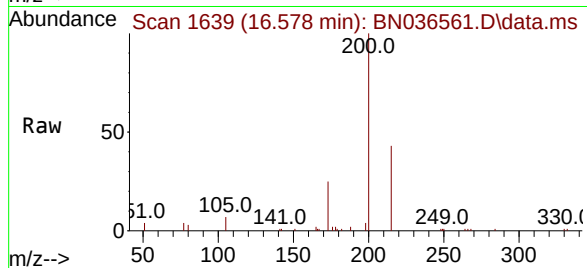




#23
Atrazine
Concen: 1.595 ng
RT: 16.578 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

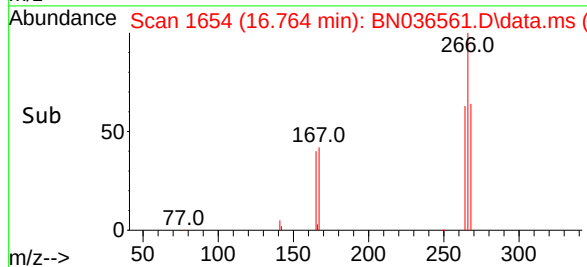
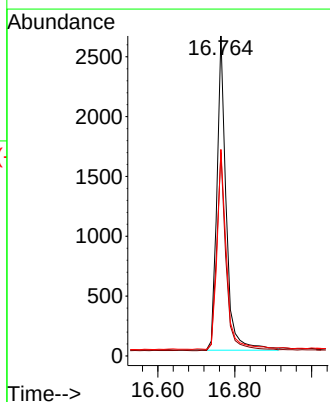
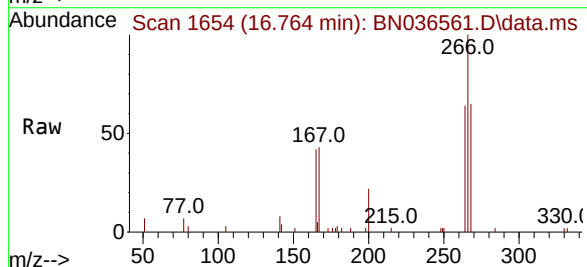
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

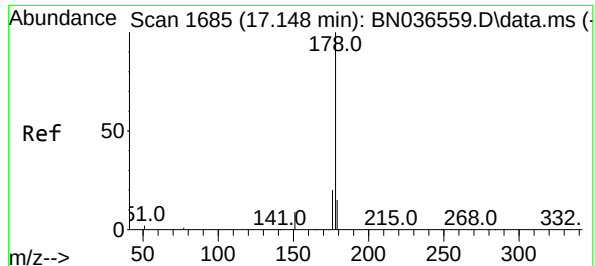
Tgt Ion:200 Resp: 6530
Ion Ratio Lower Upper
200 100
173 24.6 27.3 40.9#
215 43.5 36.8 55.2



#24
Pentachlorophenol
Concen: 1.563 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:266 Resp: 4395
Ion Ratio Lower Upper
266 100
264 63.5 49.6 74.4
268 64.4 50.9 76.3





#25

Phenanthrene

Concen: 1.554 ng

RT: 17.149 min Scan# 1685

Delta R.T. 0.000 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

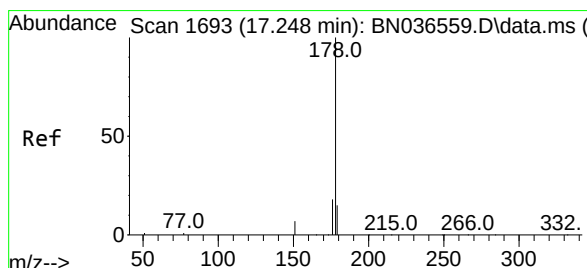
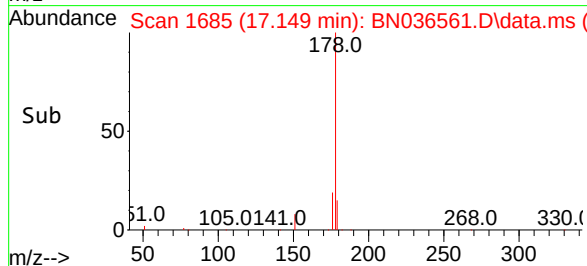
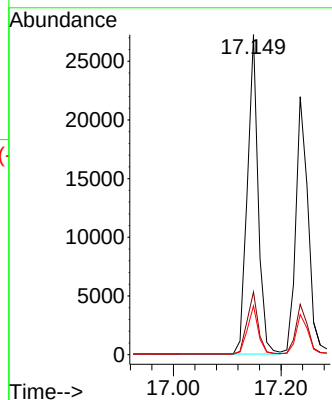
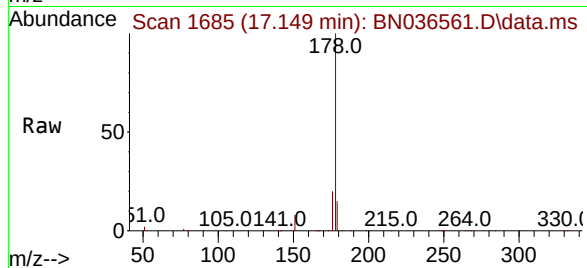
Tgt Ion:178 Resp: 37989

Ion Ratio Lower Upper

178 100

176 19.7 15.9 23.9

179 15.1 12.2 18.4



#26

Anthracene

Concen: 1.589 ng

RT: 17.235 min Scan# 1692

Delta R.T. -0.012 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

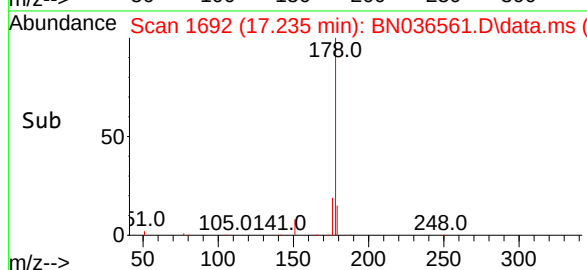
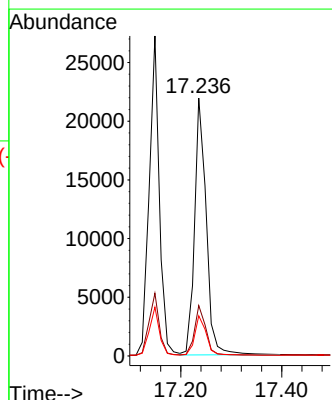
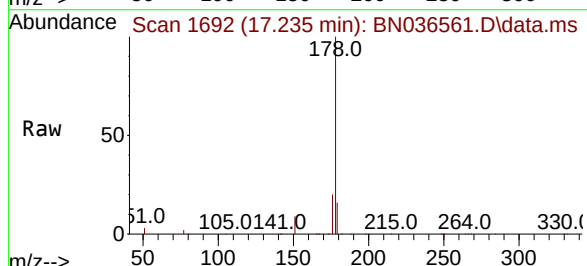
Tgt Ion:178 Resp: 35054

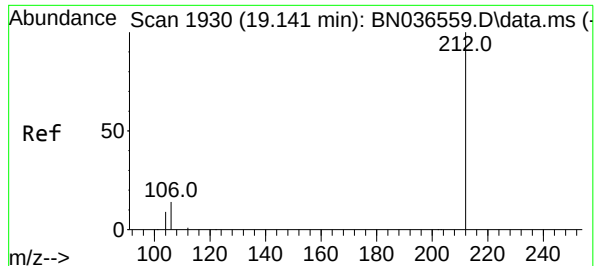
Ion Ratio Lower Upper

178 100

176 19.0 15.4 23.2

179 15.3 12.6 18.8





#27

Fluoranthene-d10

Concen: 1.600 ng

RT: 19.141 min Scan# 1930

Delta R.T. 0.000 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

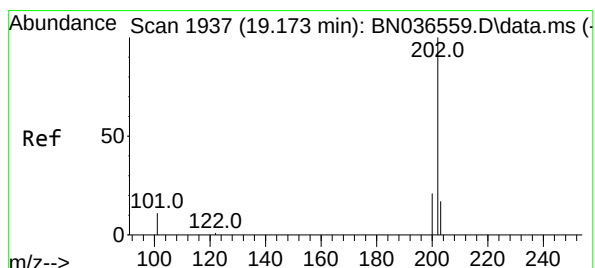
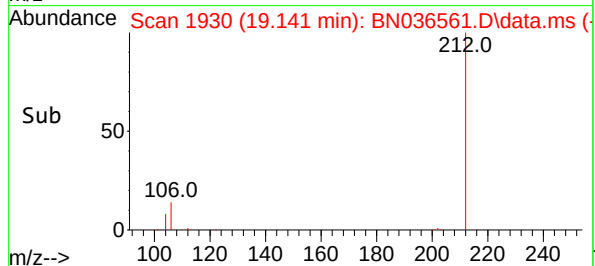
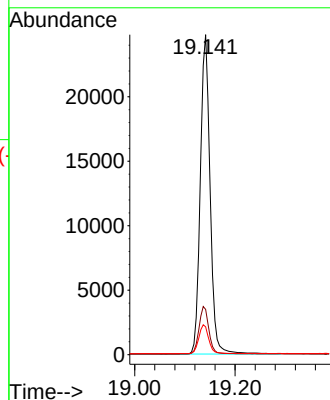
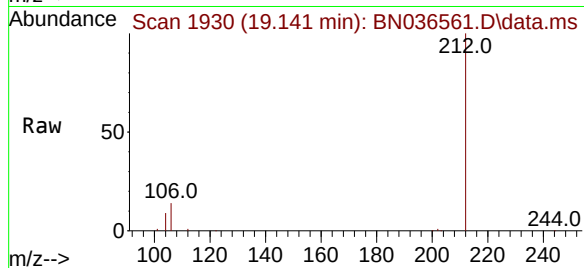
Tgt Ion:212 Resp: 33414

Ion Ratio Lower Upper

212 100

106 15.0 11.8 17.6

104 9.1 7.3 10.9



#28

Fluoranthene

Concen: 1.619 ng

RT: 19.169 min Scan# 1936

Delta R.T. -0.004 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

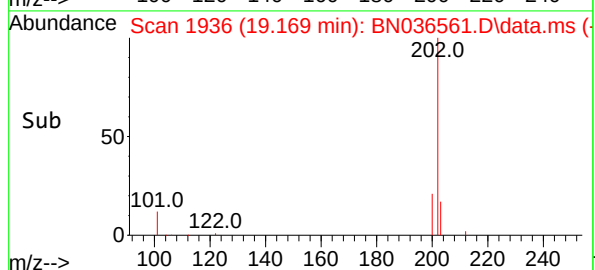
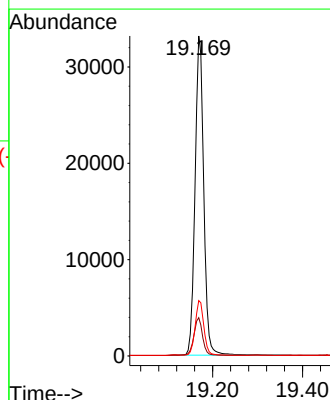
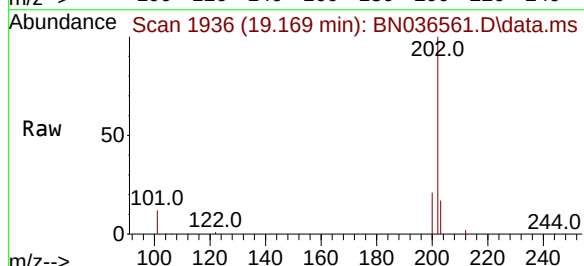
Tgt Ion:202 Resp: 44451

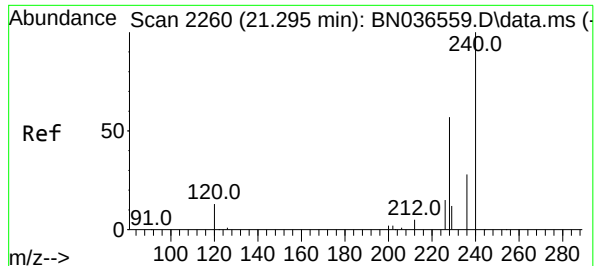
Ion Ratio Lower Upper

202 100

101 12.0 9.4 14.0

203 17.2 13.5 20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.295 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

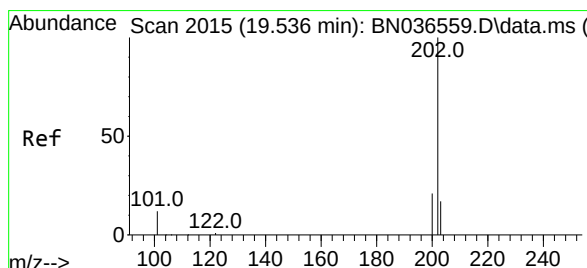
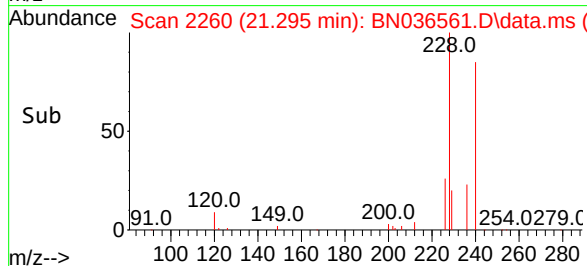
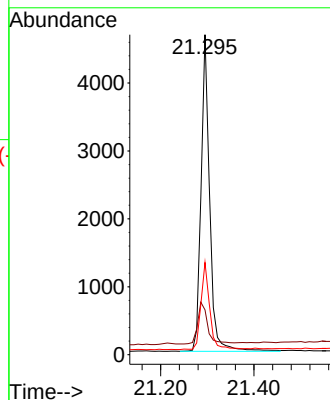
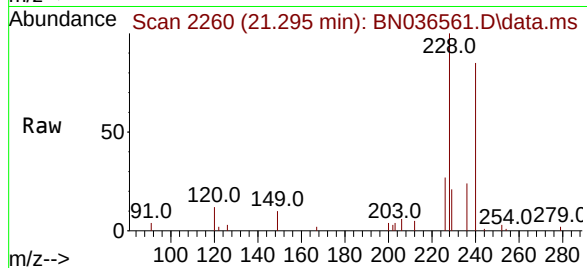
Tgt Ion:240 Resp: 5977

Ion Ratio Lower Upper

240 100

120 14.0 14.6 22.0#

236 28.9 24.1 36.1



#30

Pyrene

Concen: 1.530 ng

RT: 19.531 min Scan# 2014

Delta R.T. -0.004 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

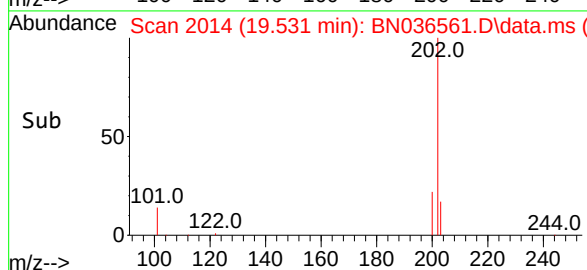
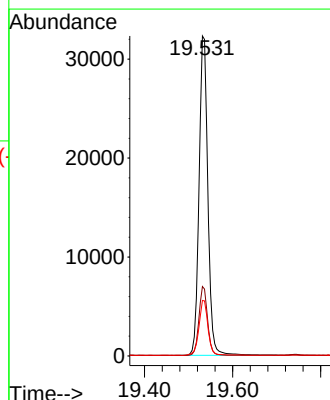
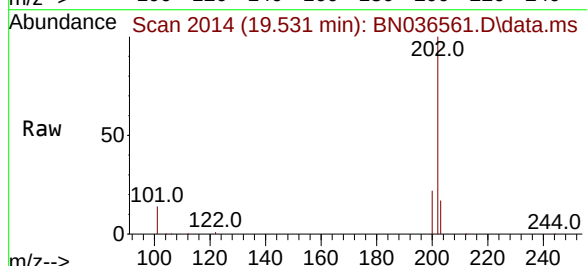
Tgt Ion:202 Resp: 44705

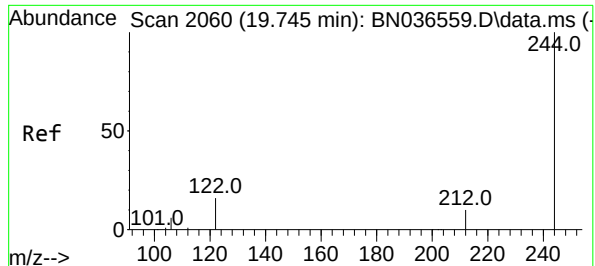
Ion Ratio Lower Upper

202 100

200 21.3 17.1 25.7

203 17.5 14.1 21.1

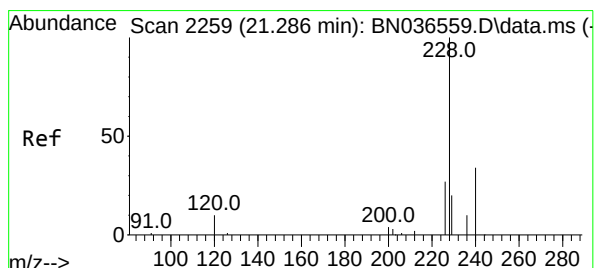
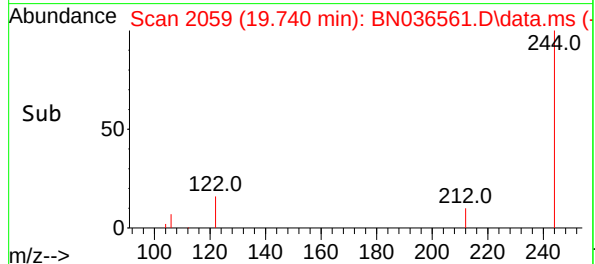
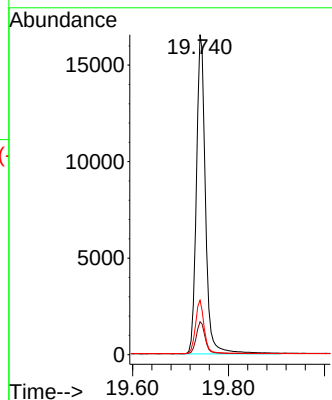
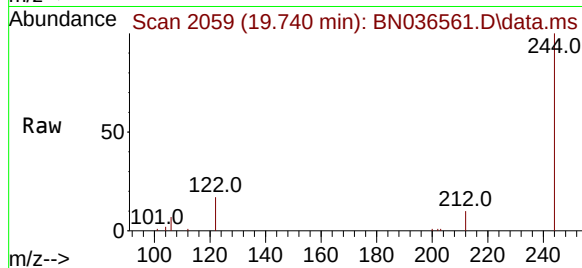




#31
Terphenyl-d14
Concen: 1.527 ng
RT: 19.740 min Scan# 2060
Delta R.T. -0.004 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

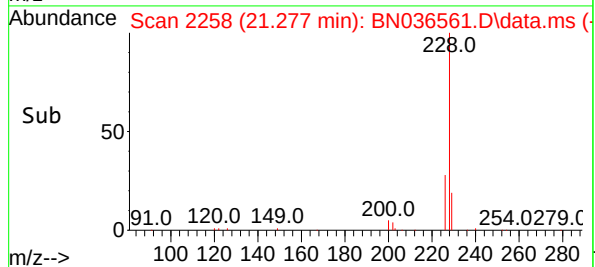
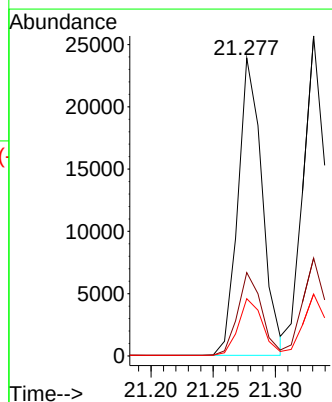
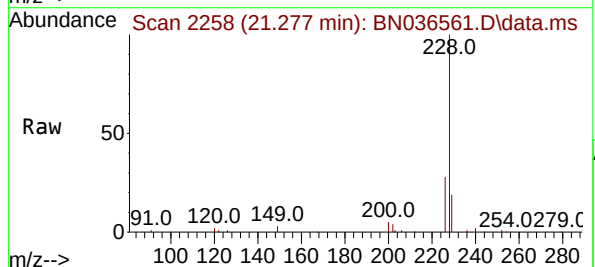
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

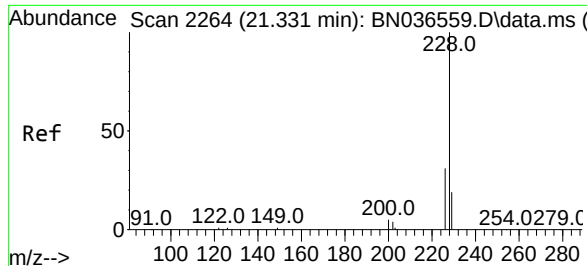
Tgt Ion:244 Resp: 21872
Ion Ratio Lower Upper
244 100
212 10.3 9.6 14.4
122 17.0 13.9 20.9



#32
Benzo(a)anthracene
Concen: 1.550 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.009 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:228 Resp: 32205
Ion Ratio Lower Upper
228 100
226 28.0 22.5 33.7
229 19.2 16.6 25.0





#33

Chrysene

Concen: 1.539 ng

RT: 21.331 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

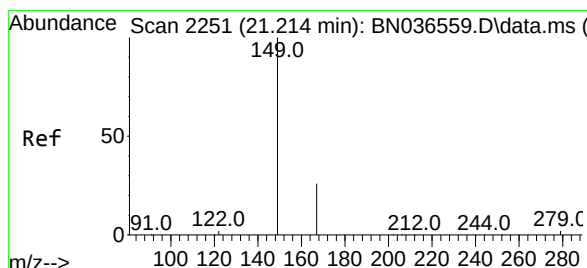
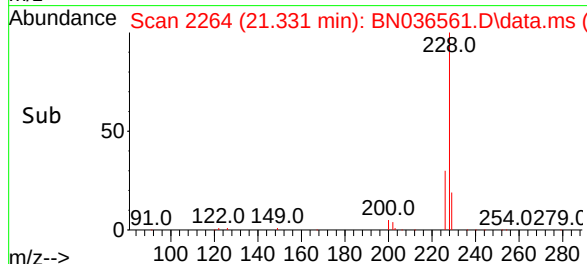
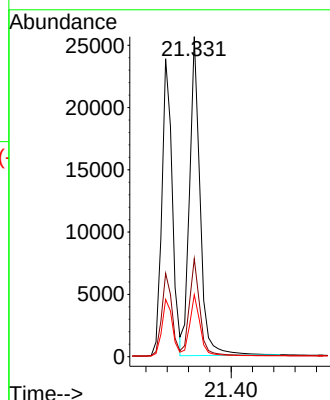
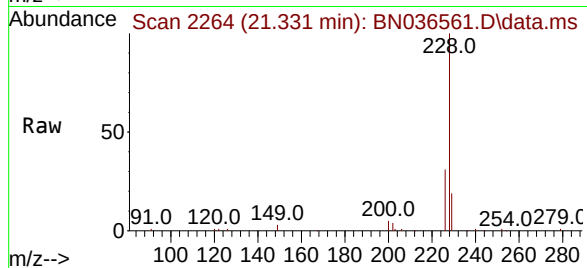
Tgt Ion:228 Resp: 34953

Ion Ratio Lower Upper

228 100

226 30.6 25.3 37.9

229 19.3 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 1.529 ng

RT: 21.214 min Scan# 2251

Delta R.T. 0.000 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

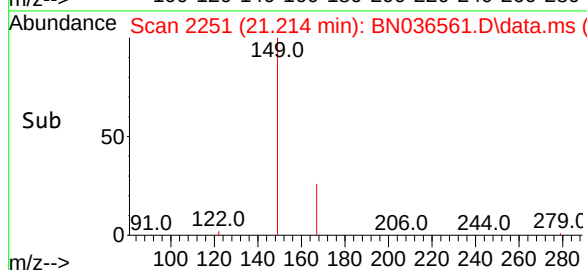
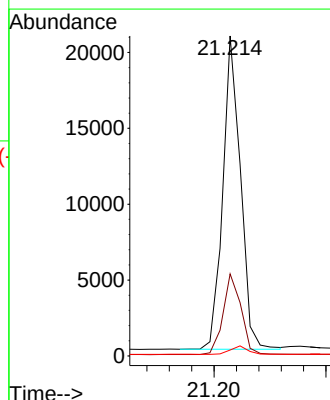
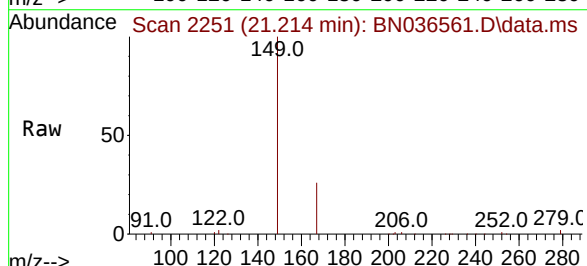
Tgt Ion:149 Resp: 22621

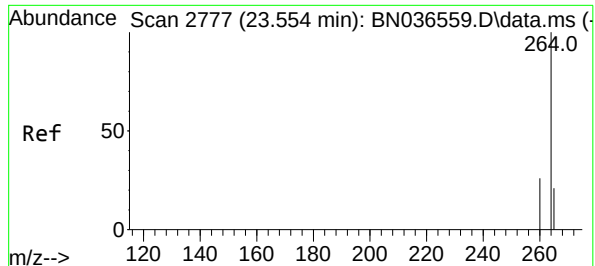
Ion Ratio Lower Upper

149 100

167 26.3 20.7 31.1

279 2.7 3.6 5.4#

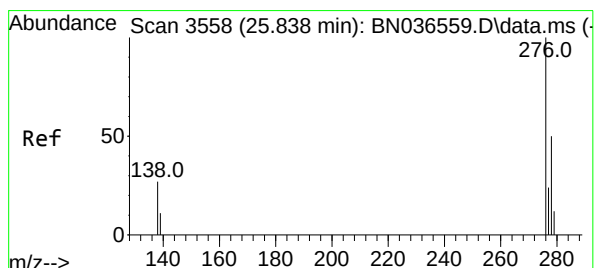
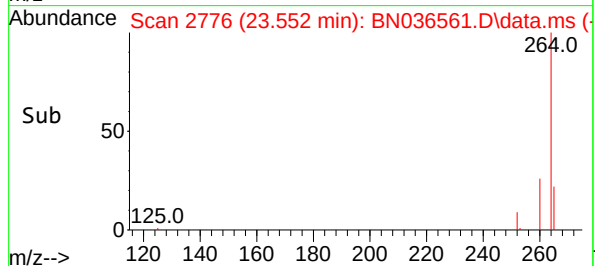
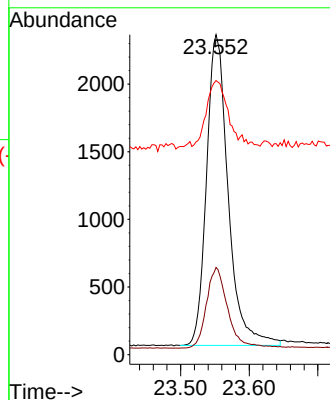
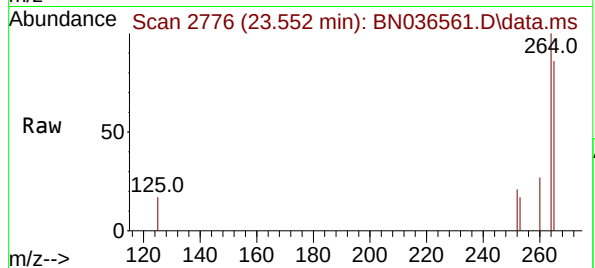




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.552 min Scan# 21
Delta R.T. -0.003 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

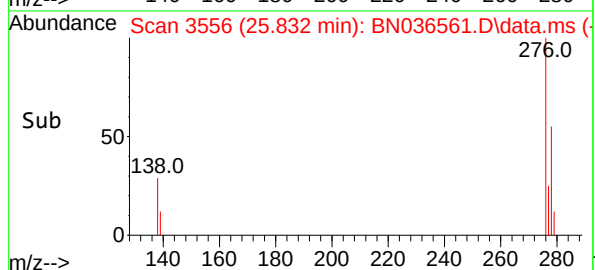
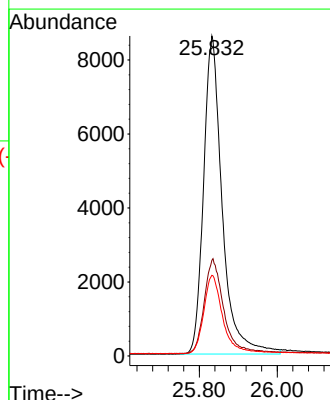
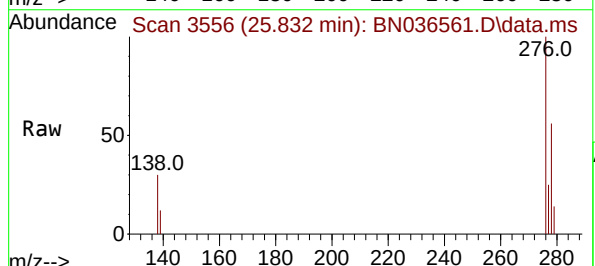
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

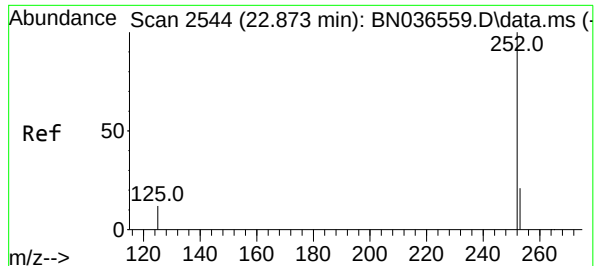
Tgt Ion	264	260	265
Resp:	5048		
Ion Ratio	100	27.2	85.7
Lower		22.6	88.1
Upper		33.8	132.1



#36
Indeno(1,2,3-cd)pyrene
Concen: 1.570 ng
RT: 25.832 min Scan# 3556
Delta R.T. -0.006 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion	276	277
Resp:	28605	
Ion Ratio	100	24.9
Lower		20.0
Upper		30.0





#37

Benzo(b)fluoranthene

Concen: 1.623 ng

RT: 22.870 min Scan# 2544

Delta R.T. -0.003 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

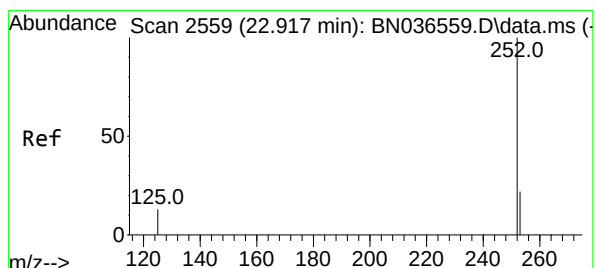
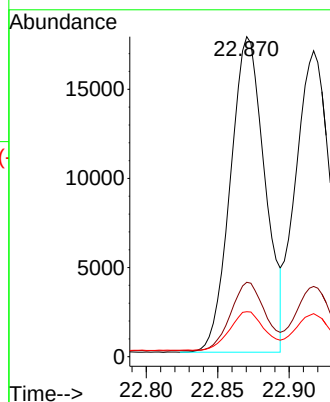
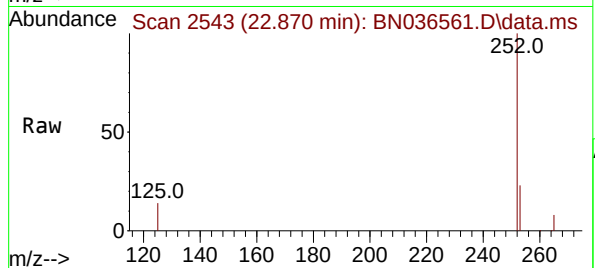
Tgt Ion:252 Resp: 29819

Ion Ratio Lower Upper

252 100

253 23.3 23.9 35.9#

125 14.0 17.4 26.2#



#38

Benzo(k)fluoranthene

Concen: 1.593 ng

RT: 22.917 min Scan# 2559

Delta R.T. 0.000 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

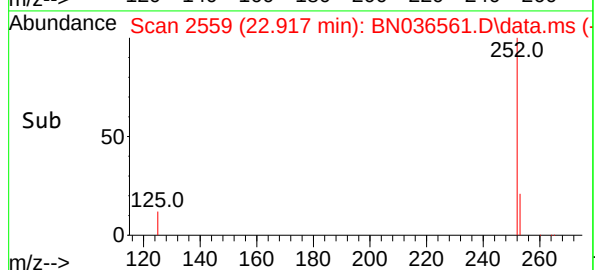
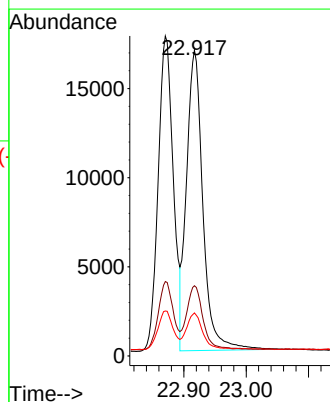
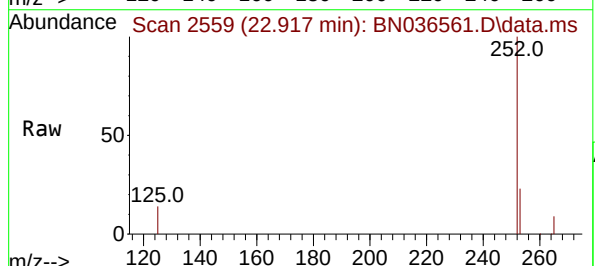
Tgt Ion:252 Resp: 30710

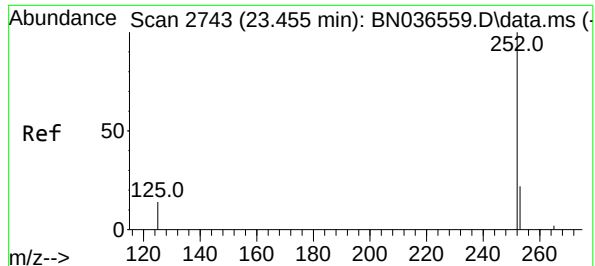
Ion Ratio Lower Upper

252 100

253 23.0 24.6 36.8#

125 14.1 17.8 26.8#





#39

Benzo(a)pyrene

Concen: 1.596 ng

RT: 23.452 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

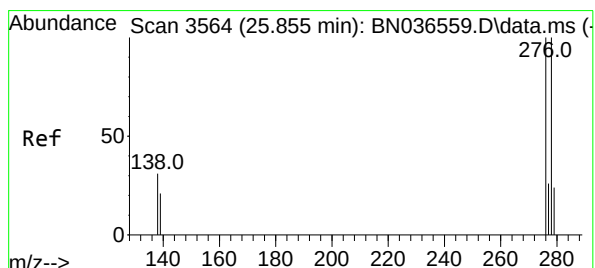
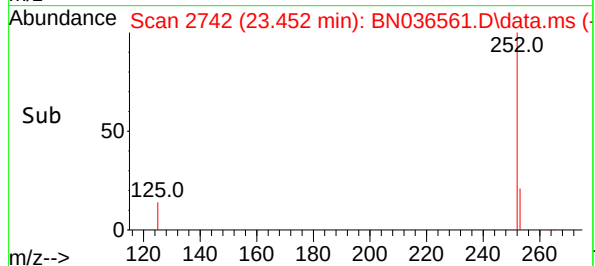
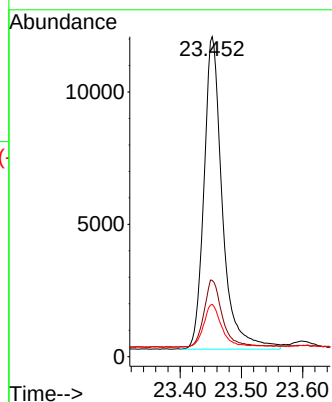
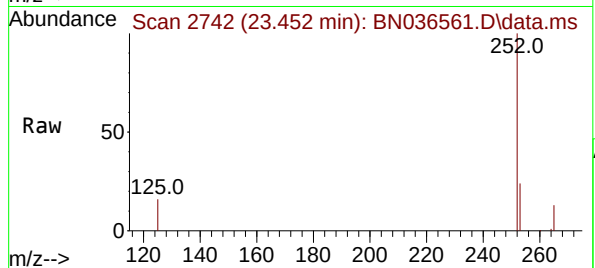
Tgt Ion:252 Resp: 24696

Ion Ratio Lower Upper

252 100

253 23.9 27.8 41.8#

125 16.3 22.7 34.1#



#40

Dibenzo(a,h)anthracene

Concen: 1.569 ng

RT: 25.850 min Scan# 3562

Delta R.T. -0.006 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

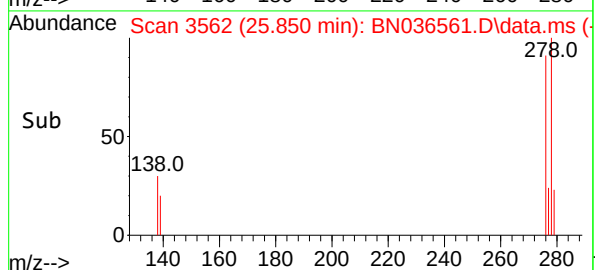
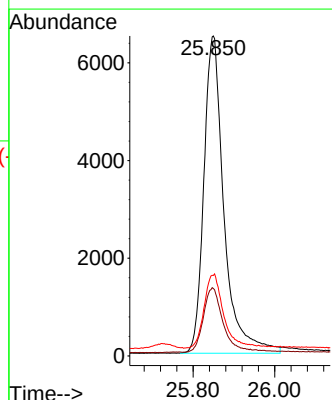
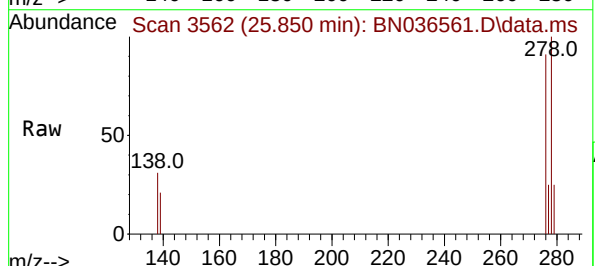
Tgt Ion:278 Resp: 22248

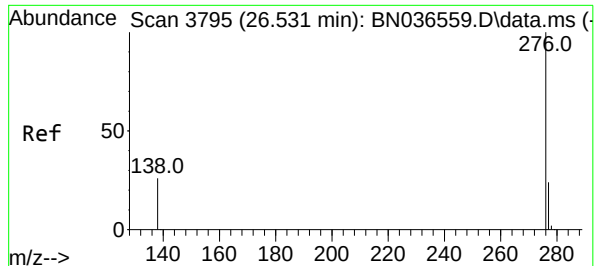
Ion Ratio Lower Upper

278 100

139 21.1 20.8 31.2

279 25.1 28.8 43.2#





#41

Benzo(g,h,i)perylene

Concen: 1.535 ng

RT: 26.531 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN036561.D

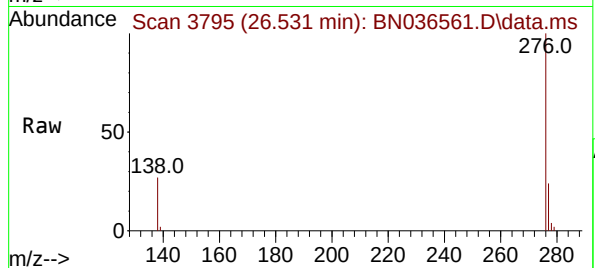
Acq: 10 Mar 2025 14:07

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



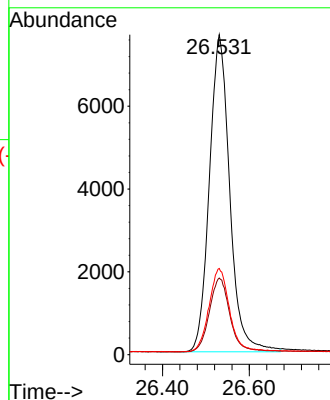
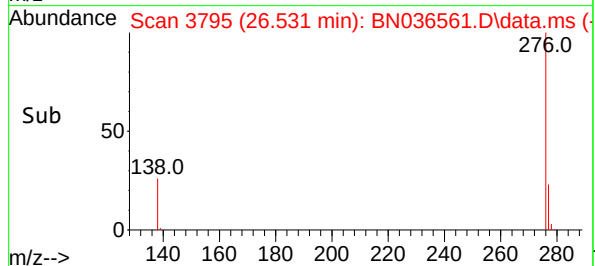
Tgt Ion:276 Resp: 24906

Ion Ratio Lower Upper

276 100

277 23.9 22.2 33.4

138 26.9 24.1 36.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
 Data File : BN036562.D
 Acq On : 10 Mar 2025 14:43
 Operator : RC/JU
 Sample : SSTDICC3.2
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

Quant Time: Mar 10 16:02:50 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 15:54:23 2025
 Response via : Initial Calibration

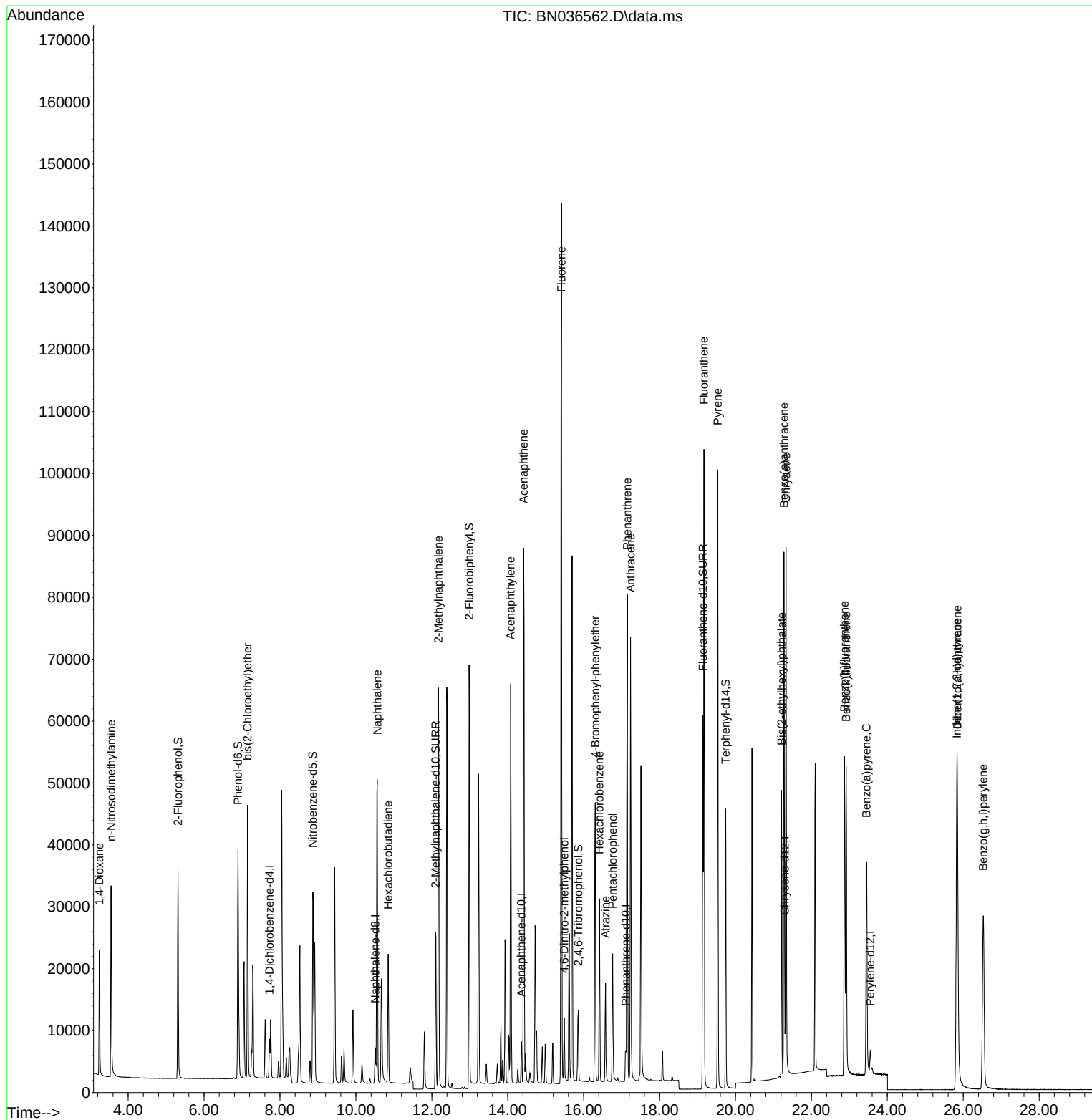
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2890	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	6824	0.400	ng	0.00
13) Acenaphthene-d10	14.355	164	3957	0.400	ng	-0.01
19) Phenanthrene-d10	17.111	188	7488	0.400	ng	0.00
29) Chrysene-d12	21.295	240	5439	0.400	ng	0.00
35) Perylene-d12	23.551	264	5002	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	23032	3.420	ng	0.00
5) Phenol-d6	6.894	99	28996	3.485	ng	0.00
8) Nitrobenzene-d5	8.864	82	24586	3.312	ng	-0.01
11) 2-Methylnaphthalene-d10	12.101	152	34578	3.407	ng	-0.01
14) 2,4,6-Tribromophenol	15.858	330	6252	3.482	ng	0.00
15) 2-Fluorobiphenyl	12.983	172	81236	3.529	ng	0.00
27) Fluoranthene-d10	19.141	212	65134	3.394	ng	0.00
31) Terphenyl-d14	19.740	244	42959	3.297	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	10288	3.209	ng	97
3) n-Nitrosodimethylamine	3.550	42	20412	3.147	ng	# 96
6) bis(2-Chloroethyl)ether	7.146	93	27978	3.253	ng	99
9) Naphthalene	10.562	128	66694	3.323	ng	96
10) Hexachlorobutadiene	10.850	225	15618	3.305	ng	# 99
12) 2-Methylnaphthalene	12.177	142	43768	3.427	ng	97
16) Acenaphthylene	14.077	152	65654	3.516	ng	99
17) Acenaphthene	14.420	154	42378	3.467	ng	97
18) Fluorene	15.414	166	56295	3.404	ng	100
20) 4,6-Dinitro-2-methylph...	15.489	198	6567	3.315	ng	# 58
21) 4-Bromophenyl-phenylether	16.304	248	16652	3.549	ng	# 82
22) Hexachlorobenzene	16.416	284	19287	3.406	ng	100
23) Atrazine	16.577	200	12969	3.448	ng	# 90
24) Pentachlorophenol	16.764	266	9625	3.726	ng	99
25) Phenanthrene	17.148	178	77903	3.468	ng	99
26) Anthracene	17.235	178	72775	3.590	ng	99
28) Fluoranthene	19.169	202	86688	3.436	ng	99
30) Pyrene	19.531	202	86694	3.260	ng	100
32) Benzo(a)anthracene	21.277	228	66496	3.516	ng	99
33) Chrysene	21.331	228	70334	3.403	ng	99
34) Bis(2-ethylhexyl)phtha...	21.214	149	39682	2.947	ng	# 98
36) Indeno(1,2,3-cd)pyrene	25.829	276	67767	3.754	ng	98
37) Benzo(b)fluoranthene	22.870	252	63823	3.506	ng	# 84
38) Benzo(k)fluoranthene	22.914	252	65410	3.425	ng	# 83
39) Benzo(a)pyrene	23.452	252	54009	3.523	ng	# 77
40) Dibenzo(a,h)anthracene	25.843	278	54058	3.846	ng	# 84
41) Benzo(g,h,i)perylene	26.528	276	57986	3.606	ng	94

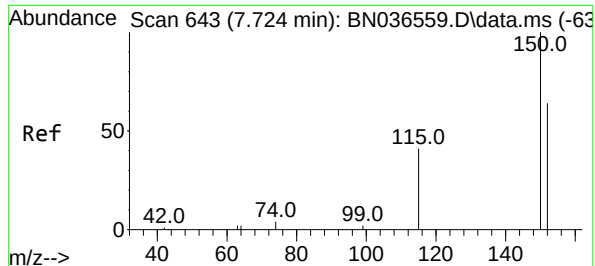
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036562.D
Acq On : 10 Mar 2025 14:43
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Mar 10 16:02:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration

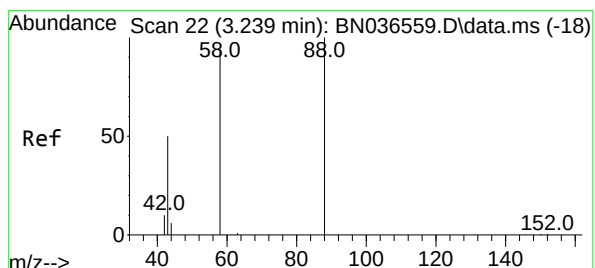
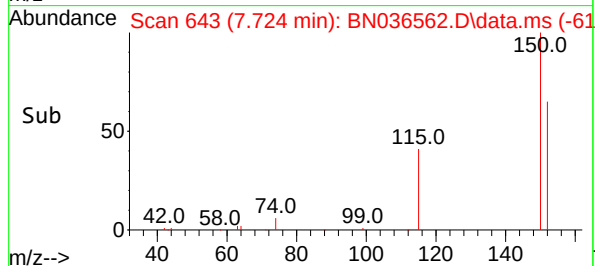
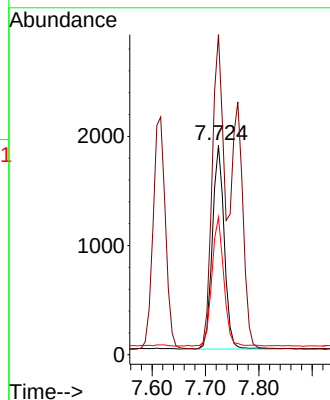
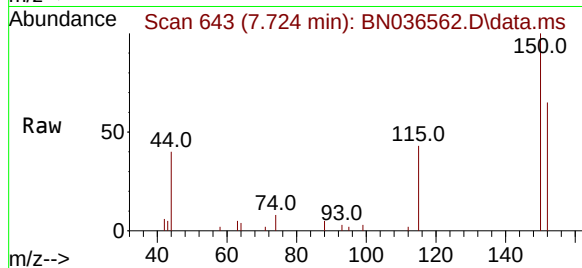




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

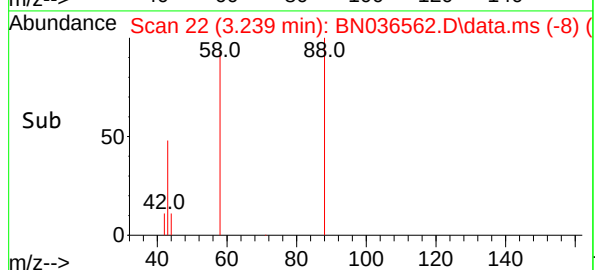
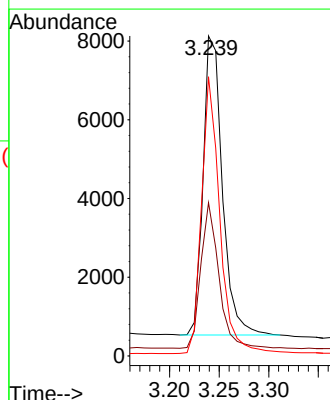
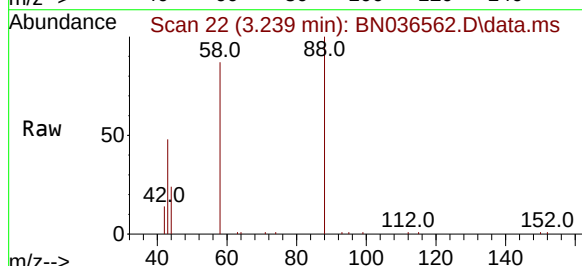
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

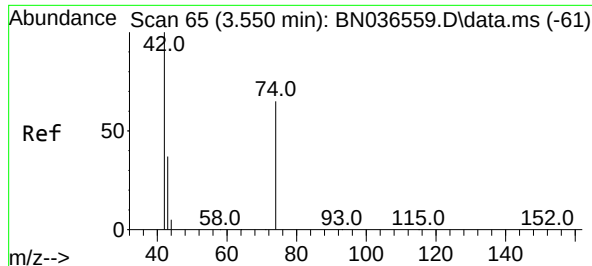
Tgt Ion:152 Resp: 2890
Ion Ratio Lower Upper
152 100
150 152.9 123.7 185.5
115 65.7 54.3 81.5



#2
1,4-Dioxane
Concen: 3.209 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion: 88 Resp: 10288
Ion Ratio Lower Upper
88 100
43 45.2 37.8 56.8
58 87.2 67.4 101.2

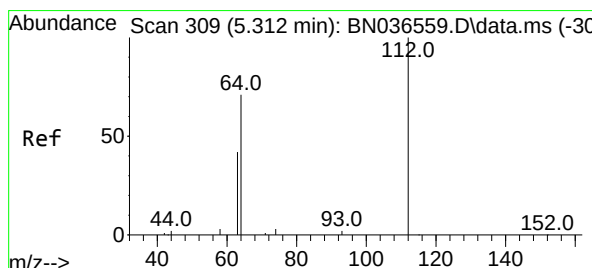
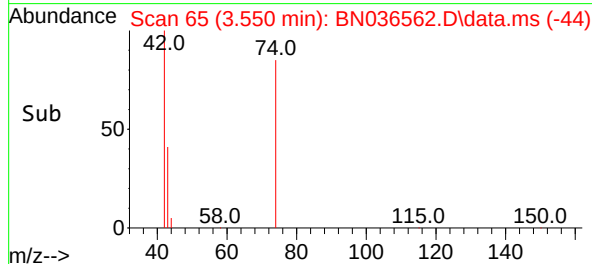
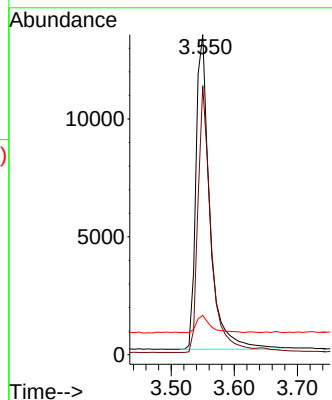
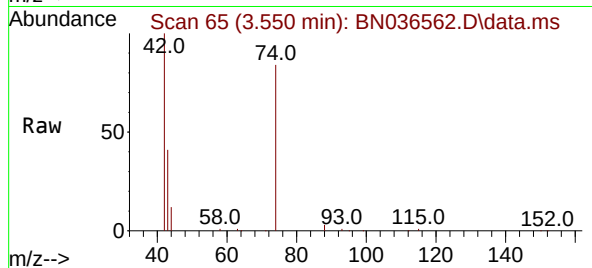




#3
n-Nitrosodimethylamine
Concen: 3.147 ng
RT: 3.550 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

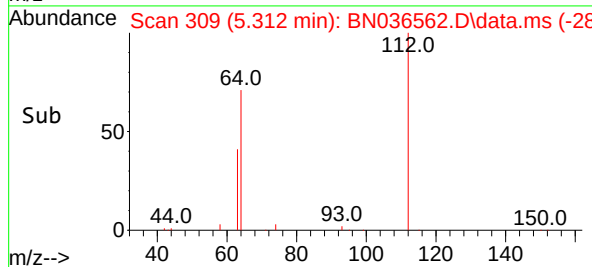
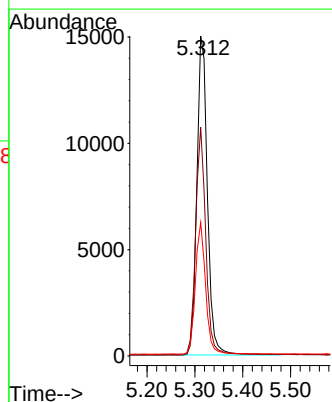
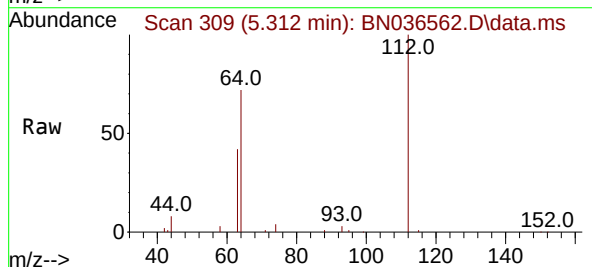
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

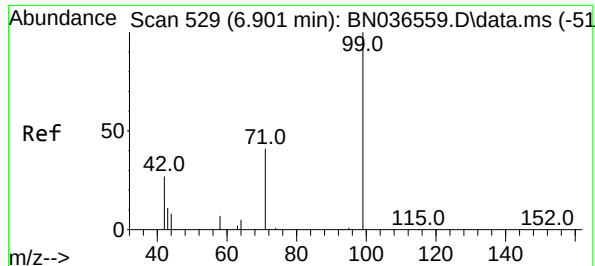
Tgt Ion: 42 Resp: 20412
Ion Ratio Lower Upper
42 100
74 78.8 60.6 90.8
44 5.5 6.3 9.5#



#4
2-Fluorophenol
Concen: 3.420 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion: 112 Resp: 23032
Ion Ratio Lower Upper
112 100
64 68.4 53.1 79.7
63 39.8 31.8 47.8

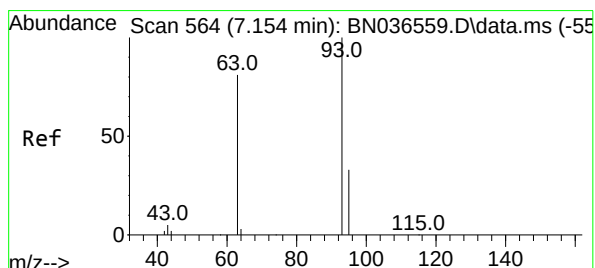
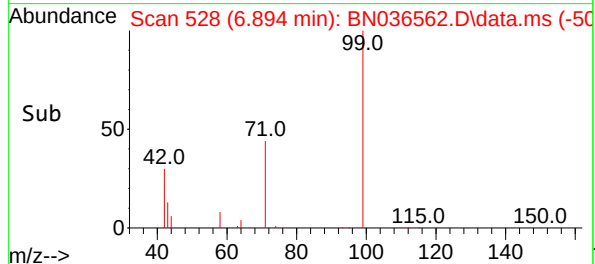
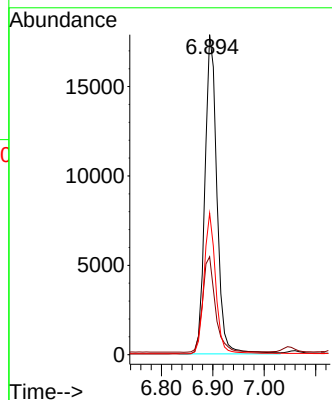
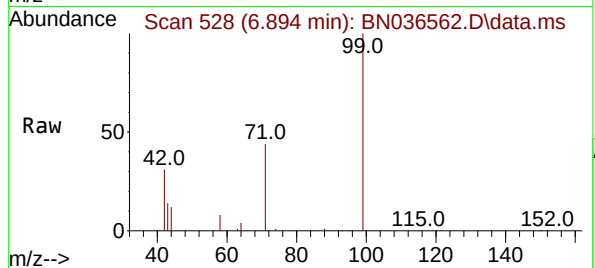




#5
Phenol-d6
Concen: 3.485 ng
RT: 6.894 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

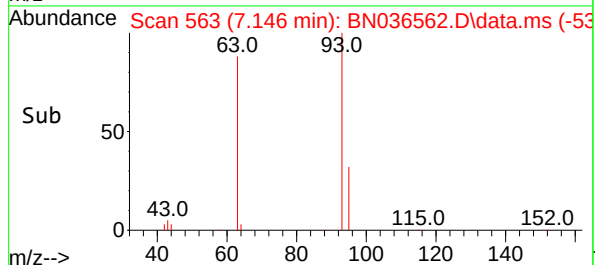
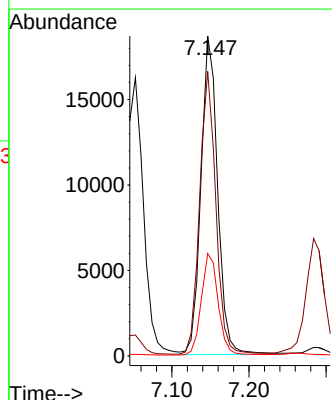
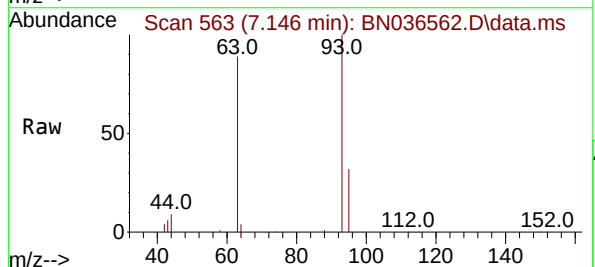
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

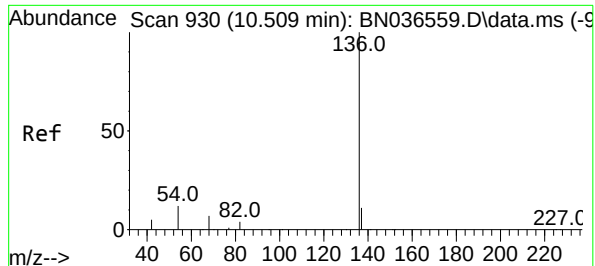
Tgt Ion: 99 Resp: 28996
Ion Ratio Lower Upper
99 100
42 32.3 26.5 39.7
71 43.2 34.1 51.1



#6
bis(2-Chloroethyl)ether
Concen: 3.253 ng
RT: 7.146 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion: 93 Resp: 27978
Ion Ratio Lower Upper
93 100
63 85.7 67.7 101.5
95 32.0 25.6 38.4

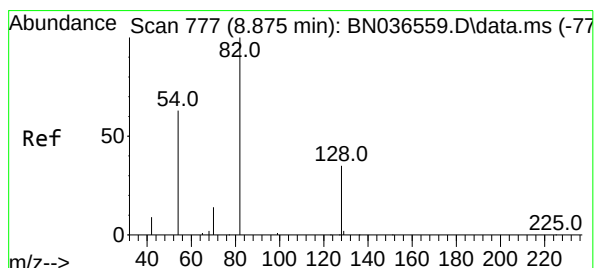
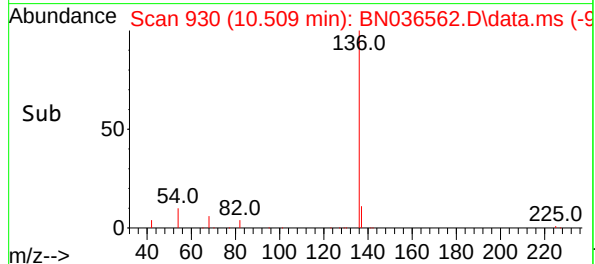
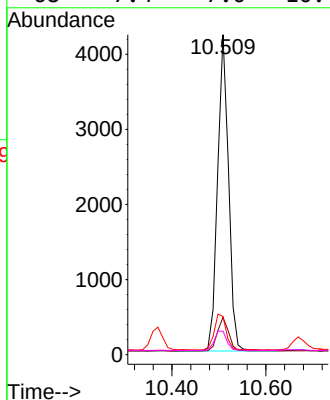
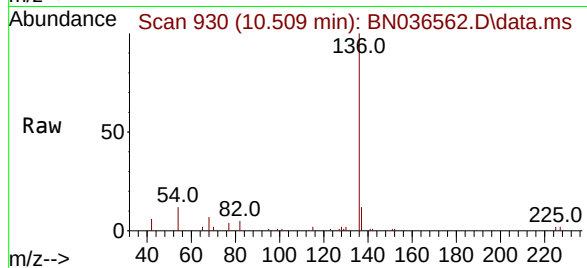




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

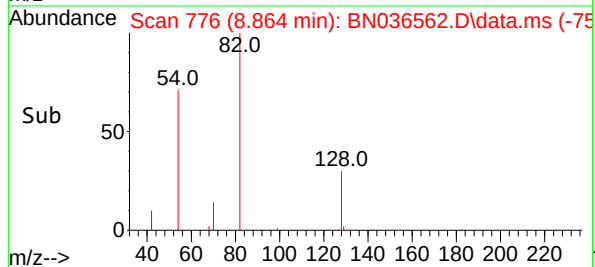
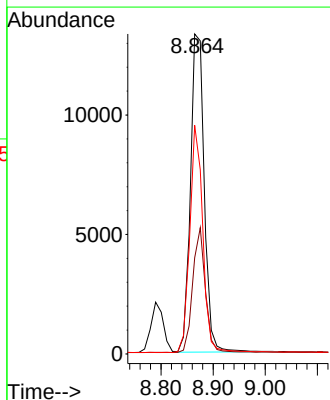
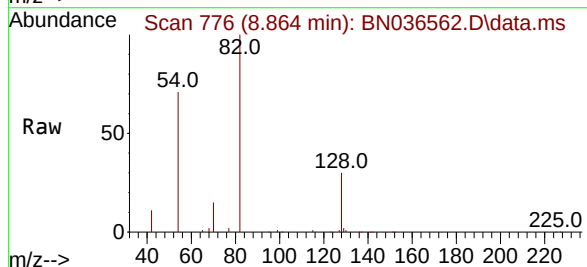
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

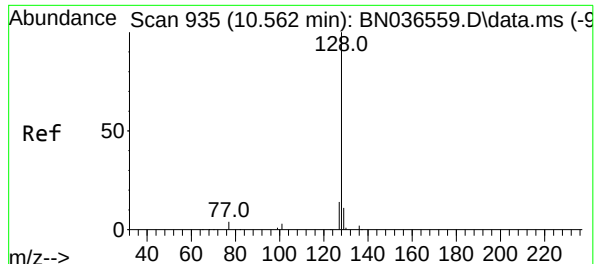
Tgt Ion:	136	Resp:	6824
Ion	Ratio	Lower	Upper
136	100		
137	11.7	10.3	15.5
54	11.9	11.5	17.3
68	7.4	7.0	10.4



#8
Nitrobenzene-d5
Concen: 3.312 ng
RT: 8.864 min Scan# 776
Delta R.T. -0.011 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:	82	Resp:	24586
Ion	Ratio	Lower	Upper
82	100		
128	30.0	30.6	45.8#
54	71.4	52.2	78.4





#9

Naphthalene

Concen: 3.323 ng

RT: 10.562 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

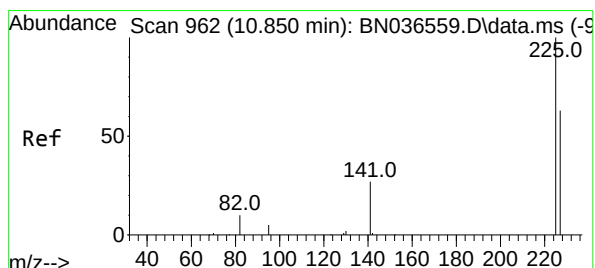
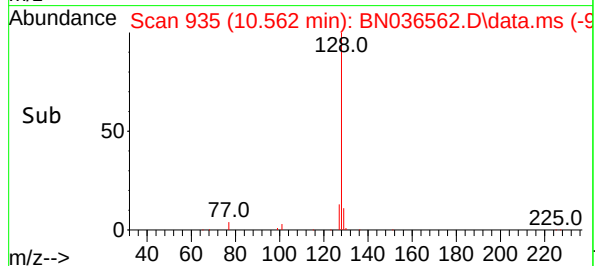
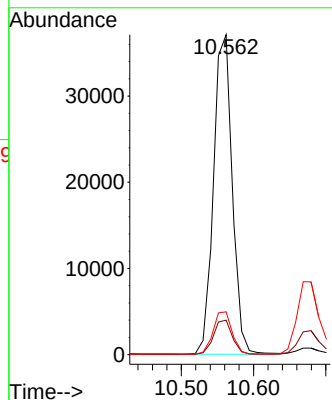
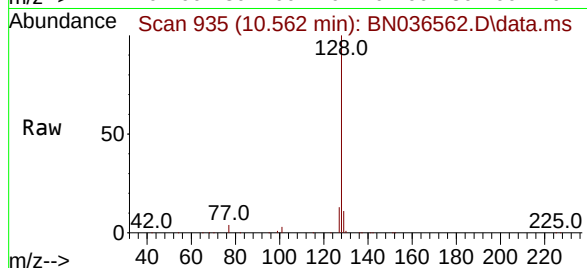
Tgt Ion:128 Resp: 66694

Ion Ratio Lower Upper

128 100

129 10.8 9.8 14.6

127 13.4 11.8 17.8



#10

Hexachlorobutadiene

Concen: 3.305 ng

RT: 10.850 min Scan# 962

Delta R.T. 0.000 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

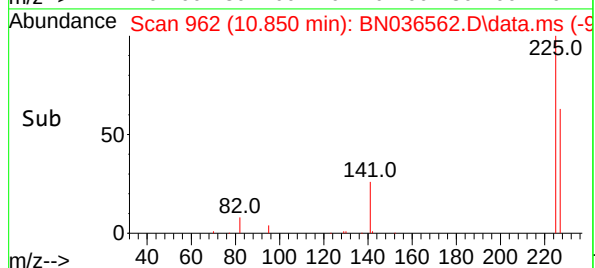
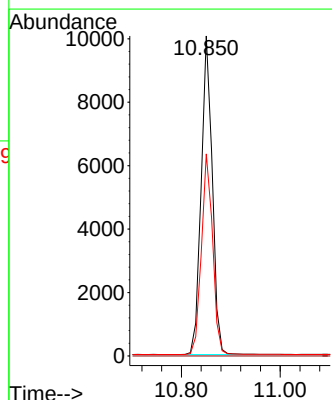
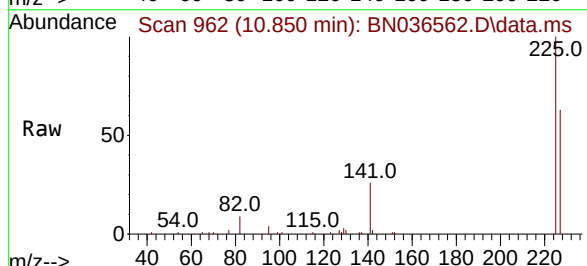
Tgt Ion:225 Resp: 15618

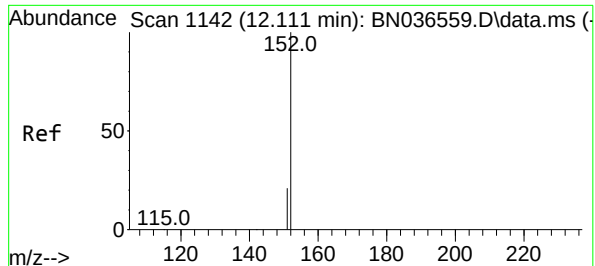
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.6 51.8 77.8

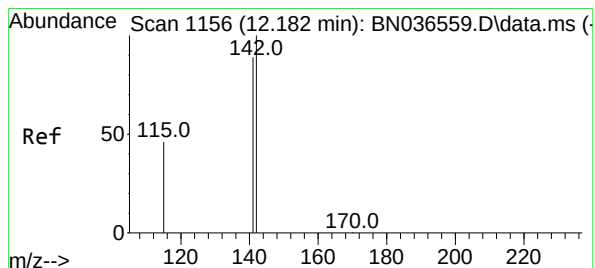
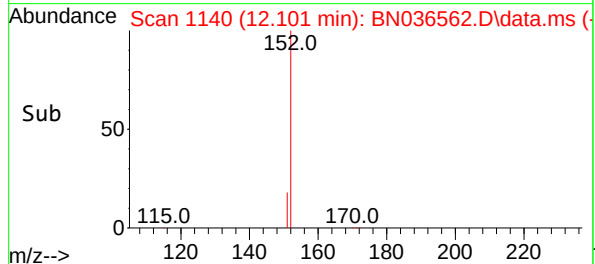
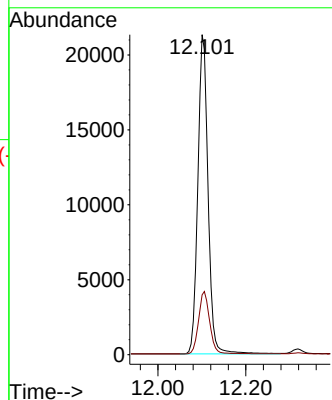
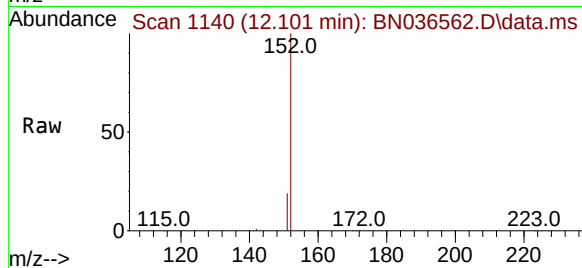




#11
2-Methylnaphthalene-d10
Concen: 3.407 ng
RT: 12.101 min Scan# 1142
Delta R.T. -0.010 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

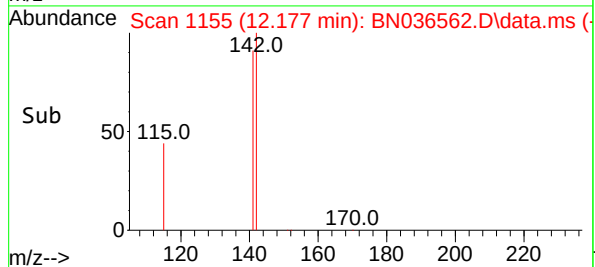
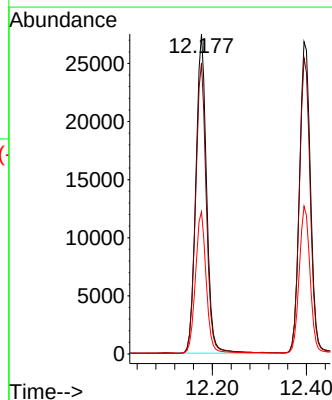
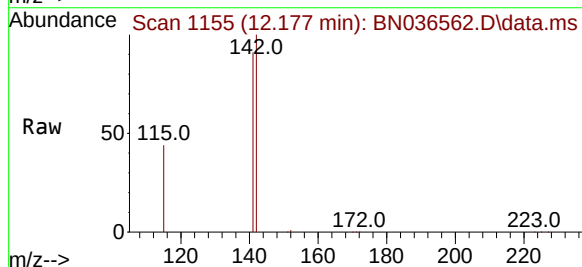
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

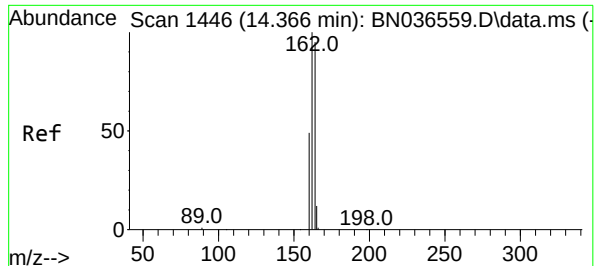
Tgt Ion:152 Resp: 34578
Ion Ratio Lower Upper
152 100
151 21.2 17.0 25.6



#12
2-Methylnaphthalene
Concen: 3.427 ng
RT: 12.177 min Scan# 1155
Delta R.T. -0.005 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:142 Resp: 43768
Ion Ratio Lower Upper
142 100
141 90.9 71.7 107.5
115 44.5 38.3 57.5

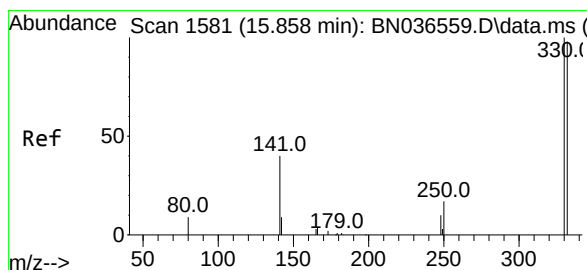
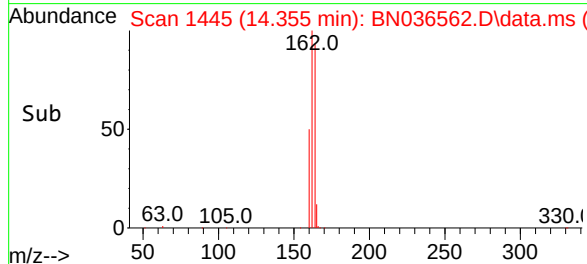
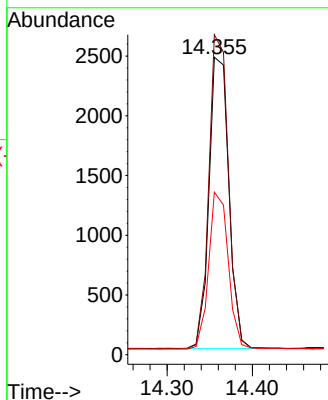
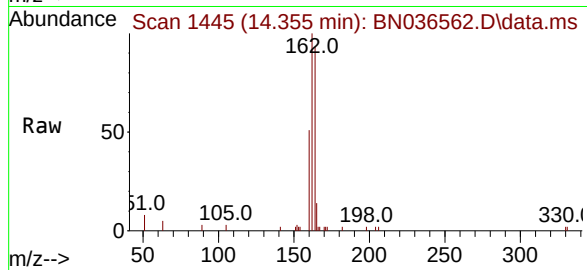




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 1446
Delta R.T. -0.011 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

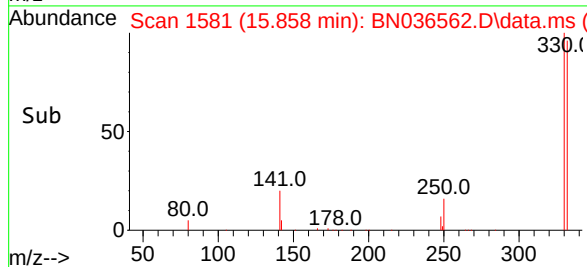
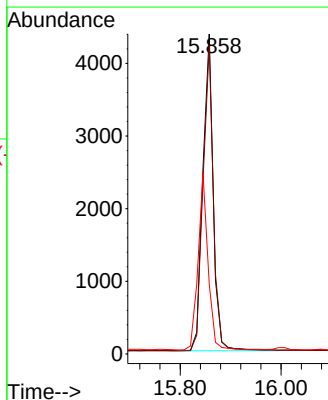
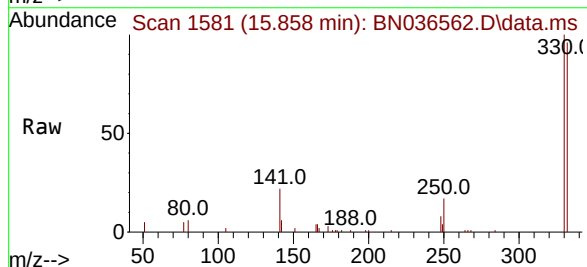
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

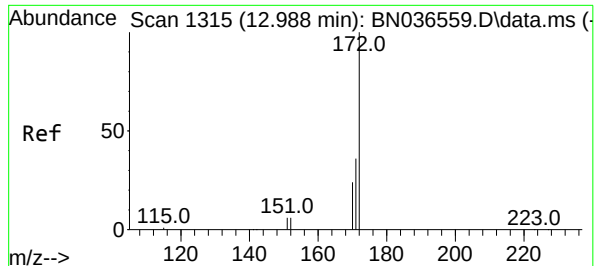
Tgt Ion:164 Resp: 3957
Ion Ratio Lower Upper
164 100
162 107.6 84.2 126.2
160 54.7 42.2 63.2



#14
2,4,6-Tribromophenol
Concen: 3.482 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:330 Resp: 6252
Ion Ratio Lower Upper
330 100
332 96.1 75.2 112.8
141 53.7 43.4 65.2





#15

2-Fluorobiphenyl

Concen: 3.529 ng

RT: 12.983 min Scan# 11

Delta R.T. -0.005 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

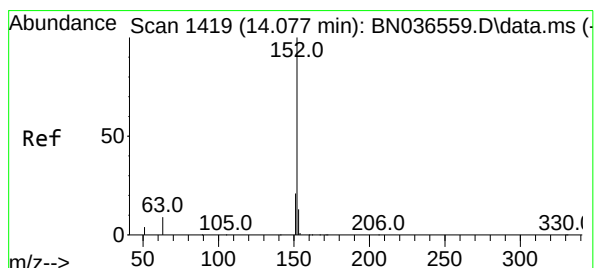
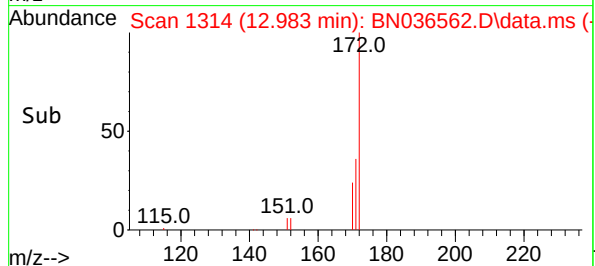
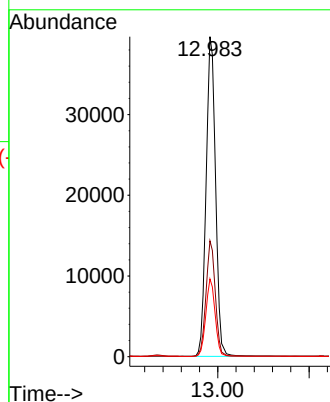
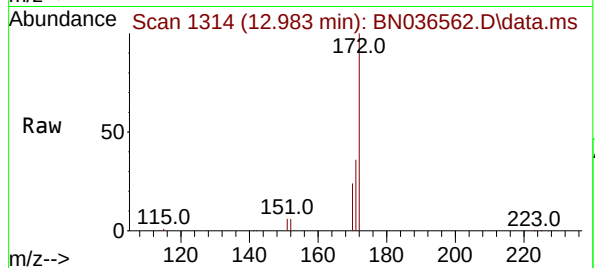
Tgt Ion:172 Resp: 81236

Ion Ratio Lower Upper

172 100

171 36.2 29.5 44.3

170 24.3 20.2 30.4



#16

Acenaphthylene

Concen: 3.516 ng

RT: 14.077 min Scan# 1419

Delta R.T. 0.000 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

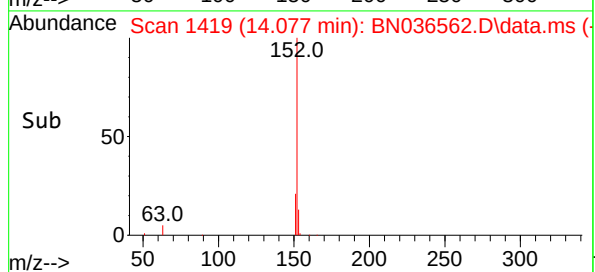
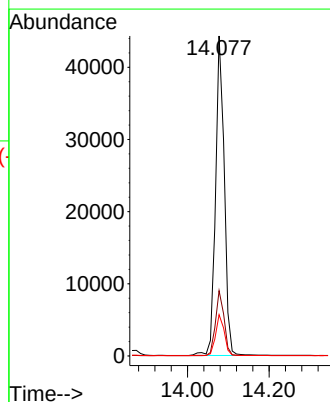
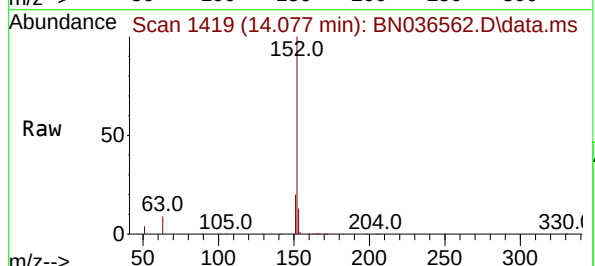
Tgt Ion:152 Resp: 65654

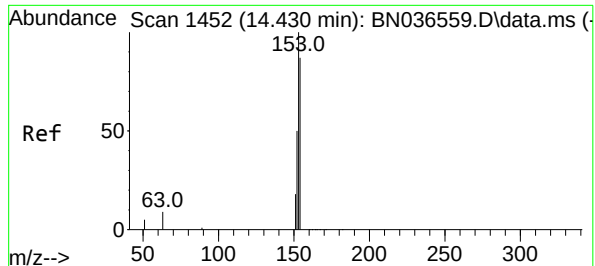
Ion Ratio Lower Upper

152 100

151 20.0 16.2 24.4

153 12.8 10.6 15.8

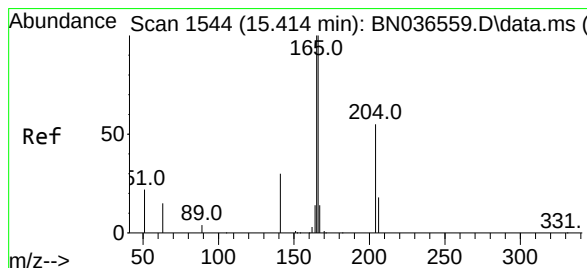
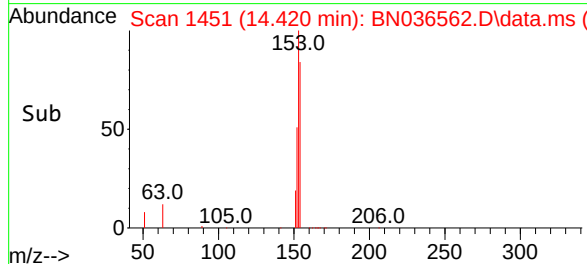
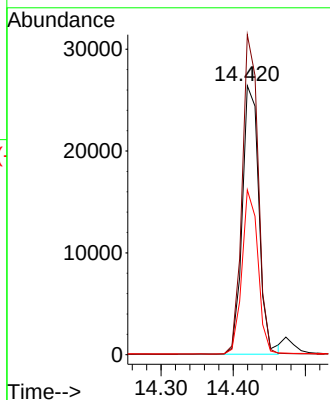
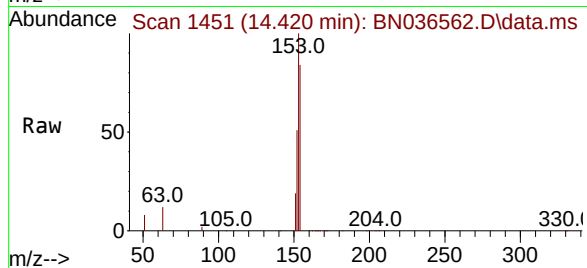




#17
Acenaphthene
Concen: 3.467 ng
RT: 14.420 min Scan# 1451
Delta R.T. -0.011 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

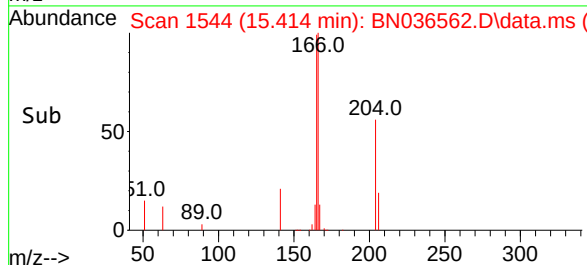
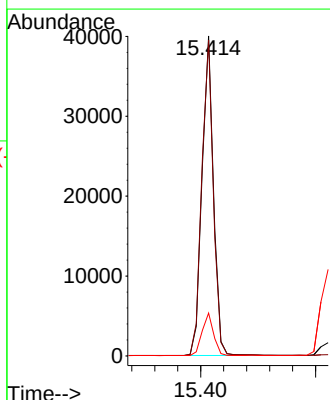
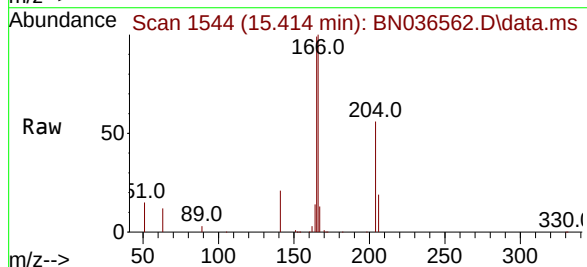
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

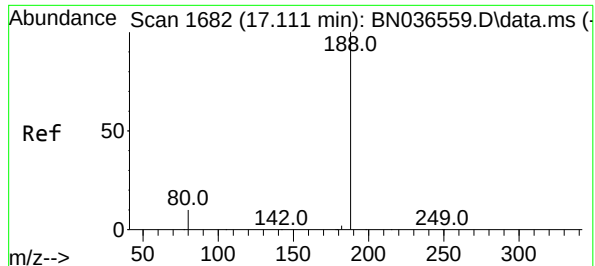
Tgt Ion:154 Resp: 42378
Ion Ratio Lower Upper
154 100
153 114.6 94.1 141.1
152 58.9 49.8 74.6



#18
Fluorene
Concen: 3.404 ng
RT: 15.414 min Scan# 1544
Delta R.T. -0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:166 Resp: 56295
Ion Ratio Lower Upper
166 100
165 100.2 79.8 119.8
167 13.0 10.6 15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.111 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

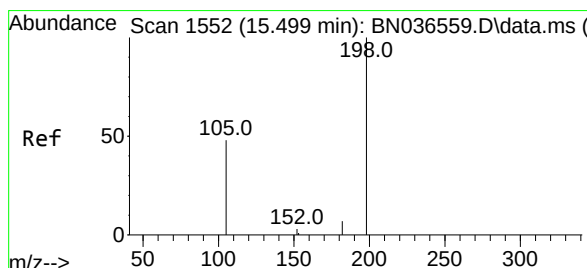
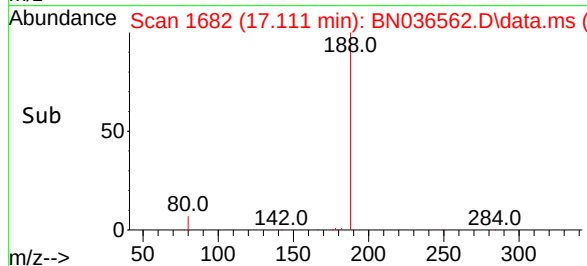
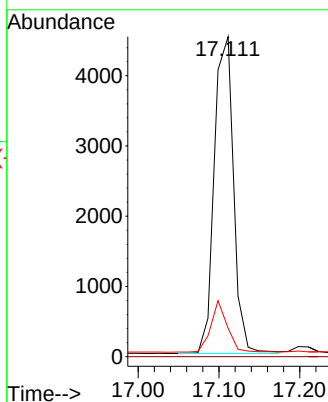
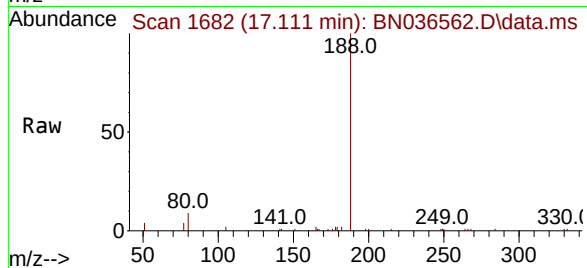
Tgt Ion:188 Resp: 7488

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.9 8.8 13.2



#20

4,6-Dinitro-2-methylphenol

Concen: 3.315 ng

RT: 15.489 min Scan# 1551

Delta R.T. -0.010 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

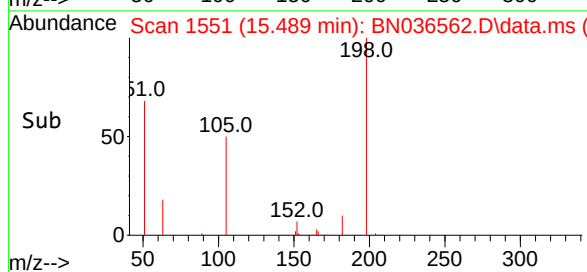
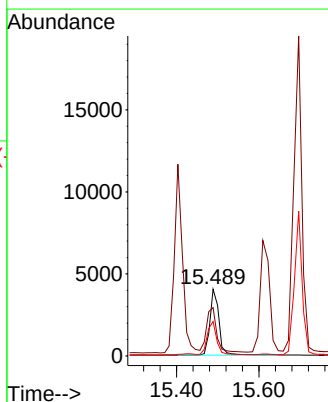
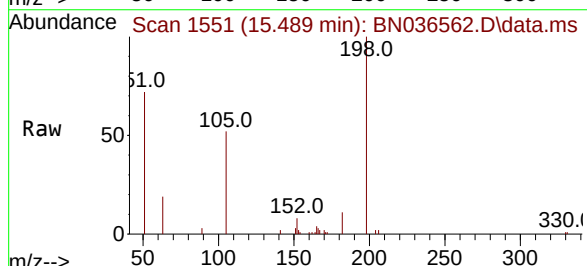
Tgt Ion:198 Resp: 6567

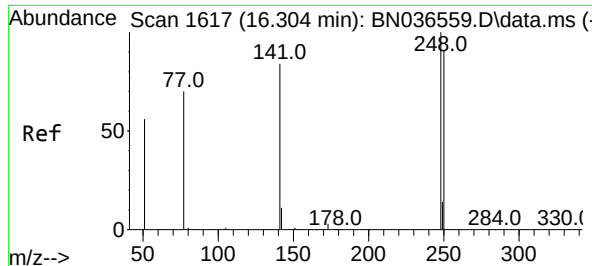
Ion Ratio Lower Upper

198 100

51 72.3 107.9 161.9#

105 51.5 56.2 84.2#





#21

4-Bromophenyl-phenylether

Concen: 3.549 ng

RT: 16.304 min Scan# 1617

Delta R.T. 0.000 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

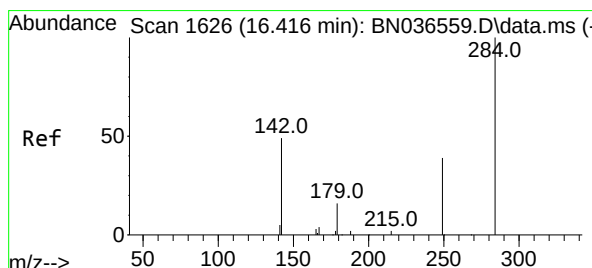
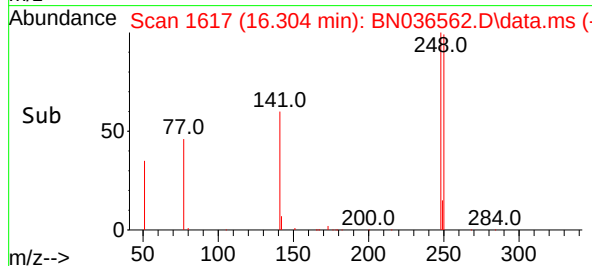
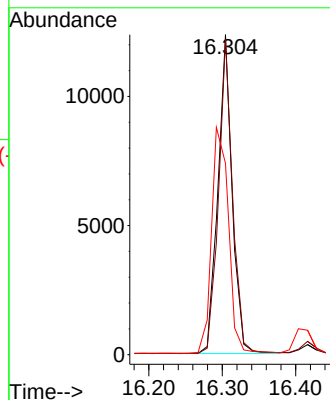
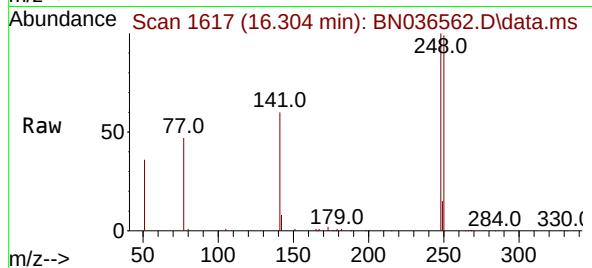
Tgt Ion:248 Resp: 16652

Ion Ratio Lower Upper

248 100

250 98.6 73.0 109.6

141 59.8 68.6 103.0#



#22

Hexachlorobenzene

Concen: 3.406 ng

RT: 16.416 min Scan# 1626

Delta R.T. 0.000 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

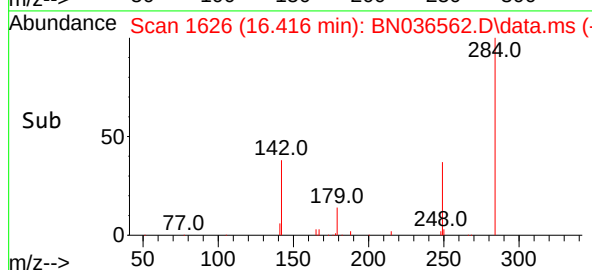
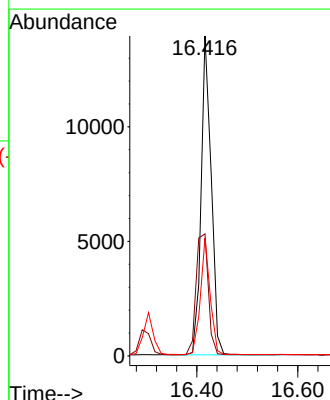
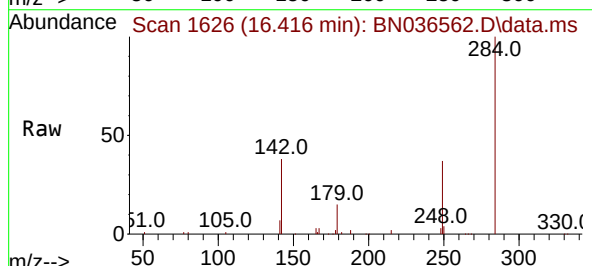
Tgt Ion:284 Resp: 19287

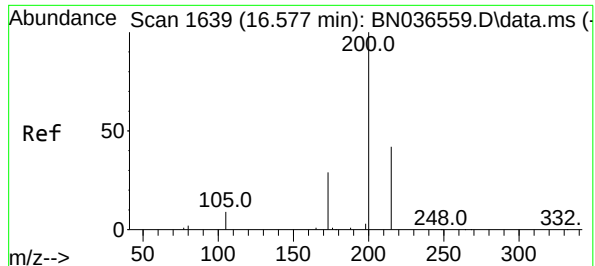
Ion Ratio Lower Upper

284 100

142 46.2 37.0 55.4

249 35.5 28.1 42.1

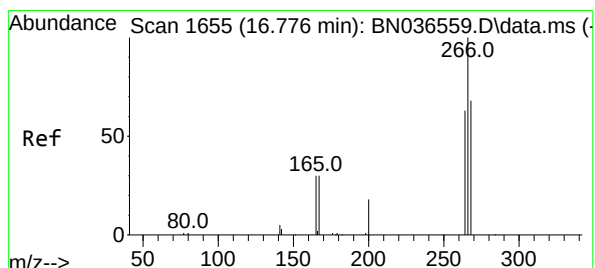
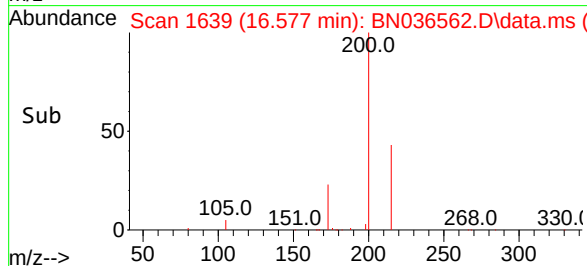
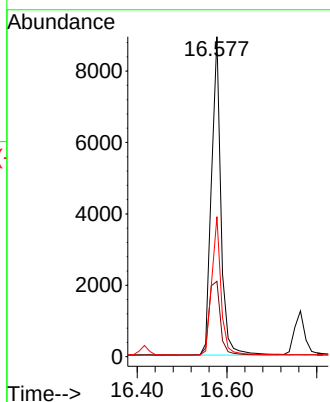
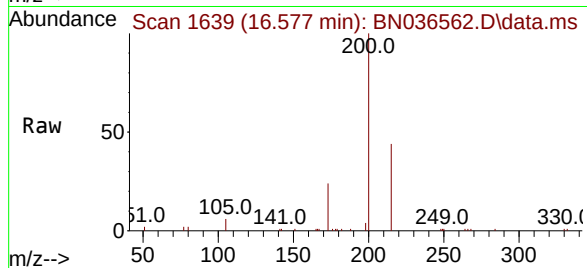




#23
Atrazine
Concen: 3.448 ng
RT: 16.577 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

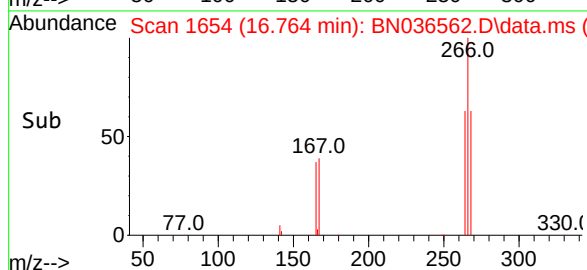
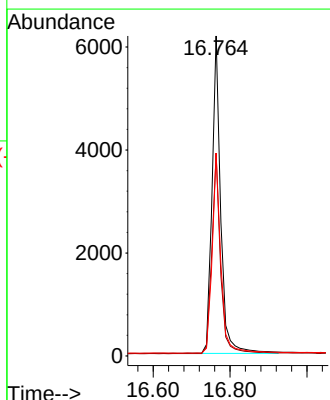
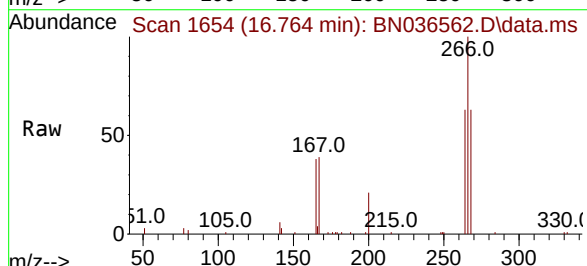
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

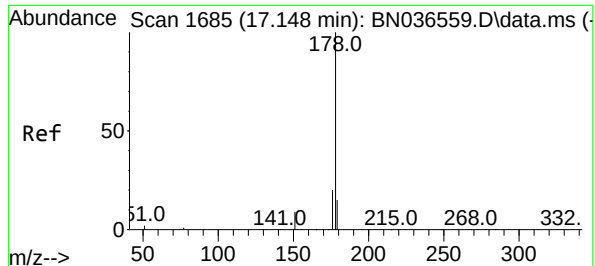
Tgt Ion:200 Resp: 12969
Ion Ratio Lower Upper
200 100
173 23.6 27.3 40.9#
215 43.7 36.8 55.2



#24
Pentachlorophenol
Concen: 3.726 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:266 Resp: 9625
Ion Ratio Lower Upper
266 100
264 63.1 49.6 74.4
268 63.1 50.9 76.3





#25

Phenanthrene

Concen: 3.468 ng

RT: 17.148 min Scan# 1685

Delta R.T. 0.000 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

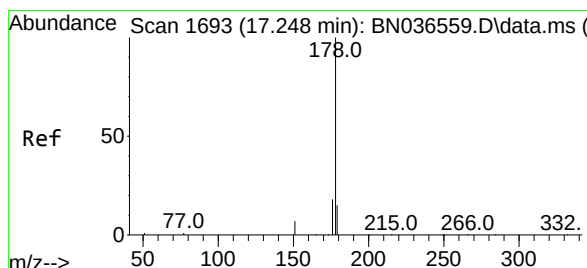
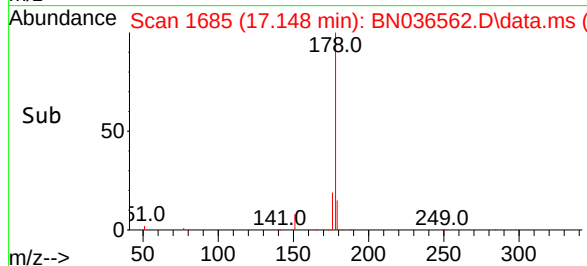
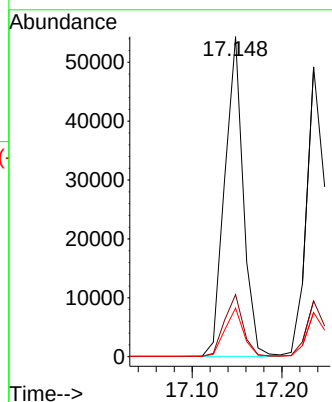
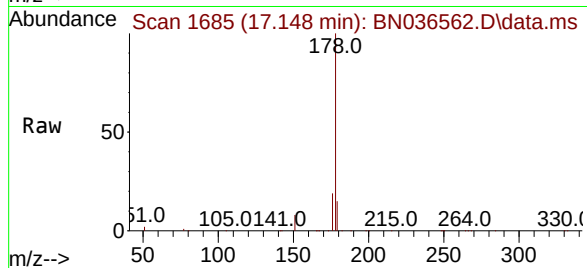
Tgt Ion:178 Resp: 77903

Ion Ratio Lower Upper

178 100

176 19.5 15.9 23.9

179 15.1 12.2 18.4



#26

Anthracene

Concen: 3.590 ng

RT: 17.235 min Scan# 1692

Delta R.T. -0.012 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

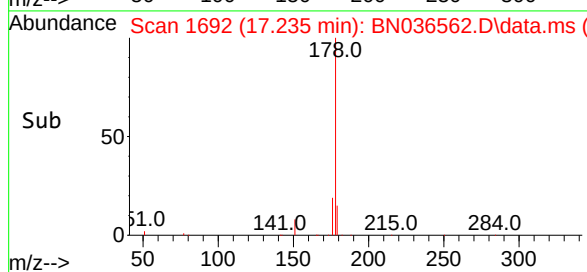
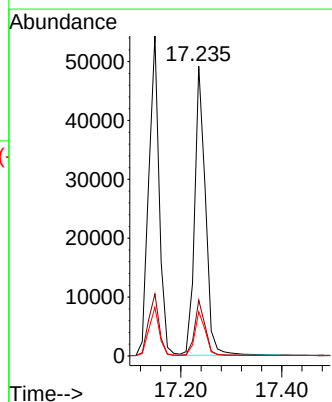
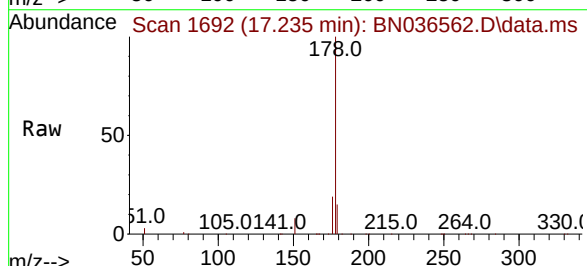
Tgt Ion:178 Resp: 72775

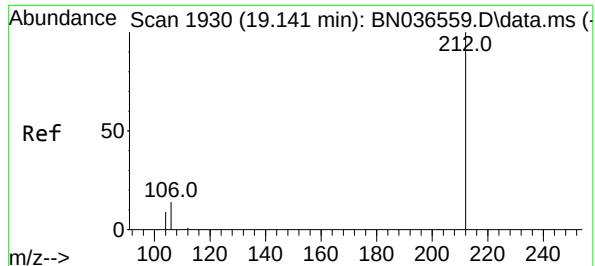
Ion Ratio Lower Upper

178 100

176 18.9 15.4 23.2

179 15.2 12.6 18.8





#27

Fluoranthene-d10

Concen: 3.394 ng

RT: 19.141 min Scan# 1930

Delta R.T. 0.000 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

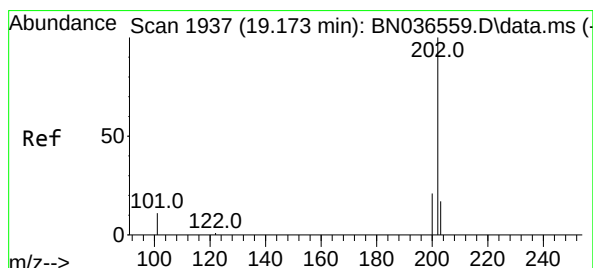
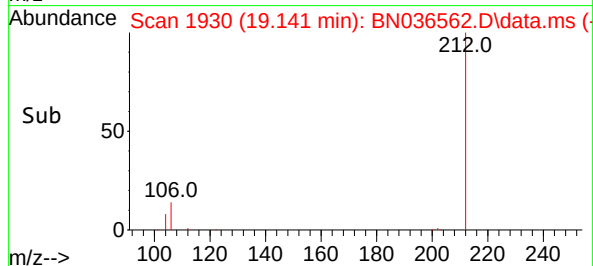
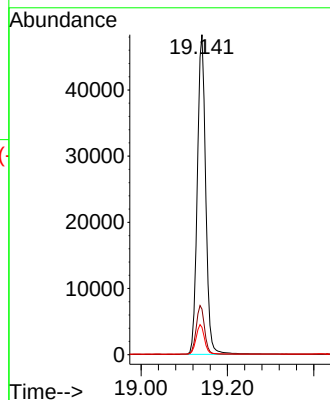
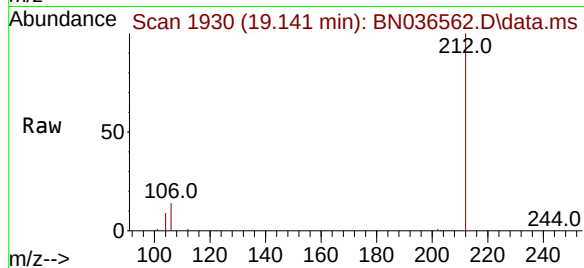
Tgt Ion:212 Resp: 65134

Ion Ratio Lower Upper

212 100

106 15.4 11.8 17.6

104 9.2 7.3 10.9



#28

Fluoranthene

Concen: 3.436 ng

RT: 19.169 min Scan# 1936

Delta R.T. -0.005 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

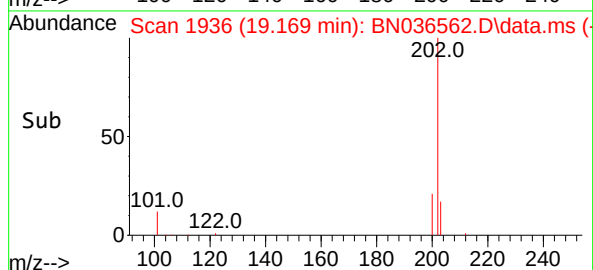
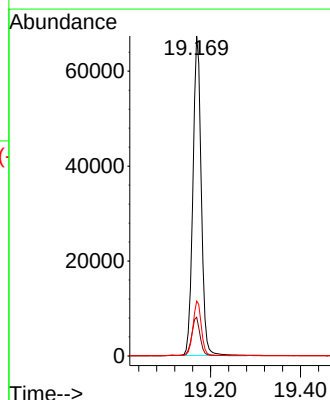
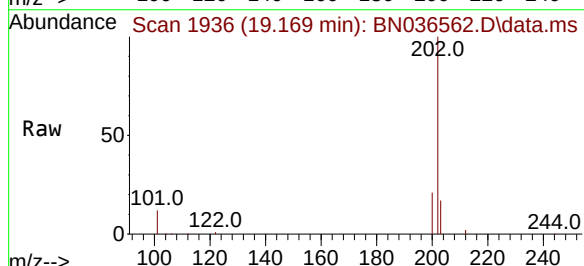
Tgt Ion:202 Resp: 86688

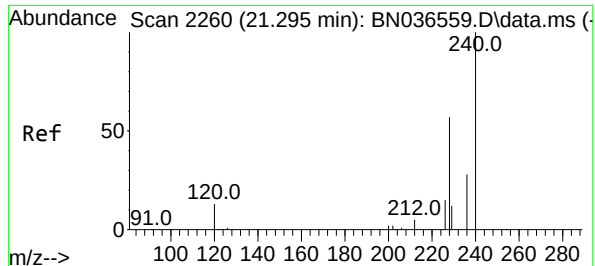
Ion Ratio Lower Upper

202 100

101 12.3 9.4 14.0

203 17.0 13.5 20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.295 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

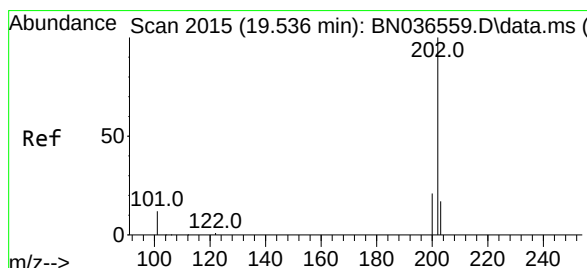
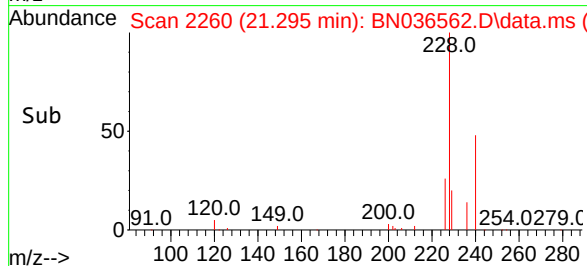
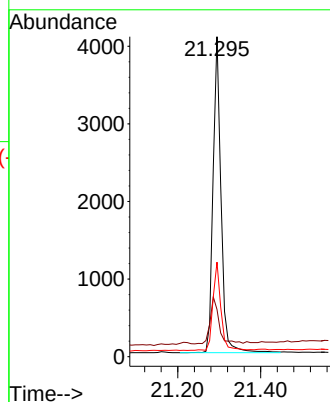
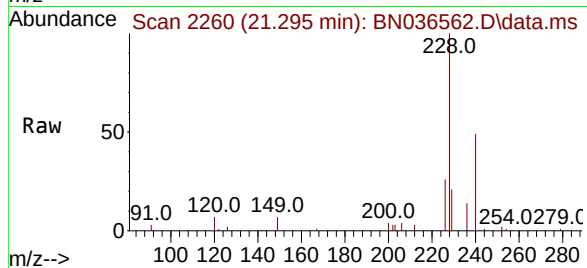
Tgt Ion:240 Resp: 5439

Ion Ratio Lower Upper

240 100

120 14.8 14.6 22.0

236 29.5 24.1 36.1



#30

Pyrene

Concen: 3.260 ng

RT: 19.531 min Scan# 2014

Delta R.T. -0.005 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

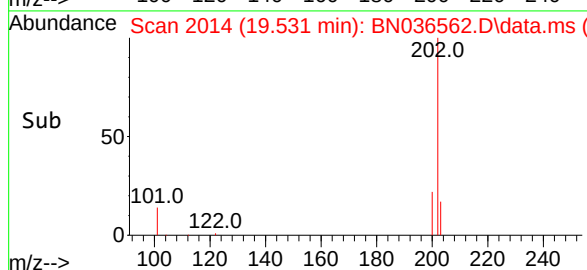
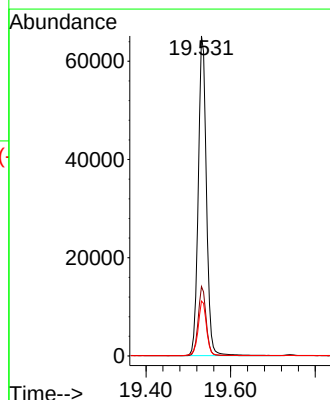
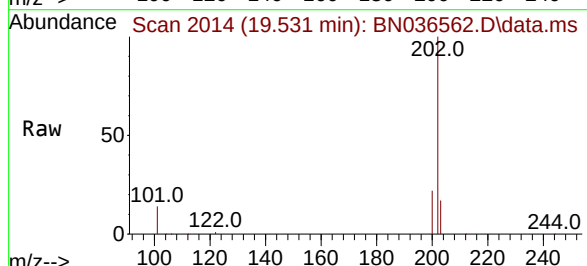
Tgt Ion:202 Resp: 86694

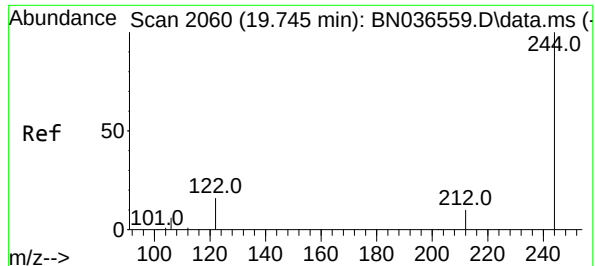
Ion Ratio Lower Upper

202 100

200 21.4 17.1 25.7

203 17.6 14.1 21.1

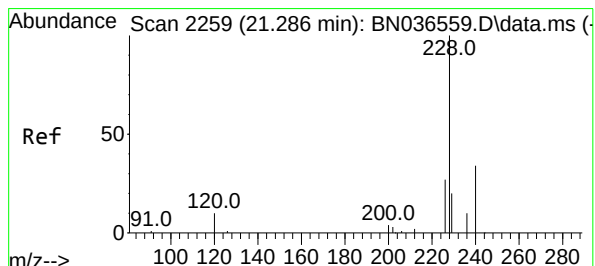
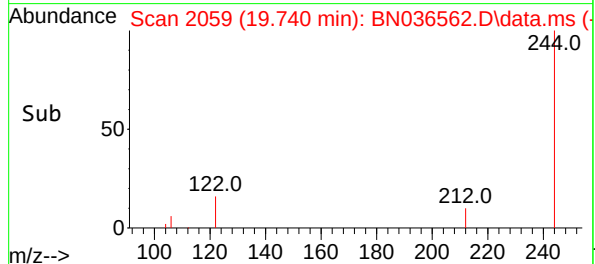
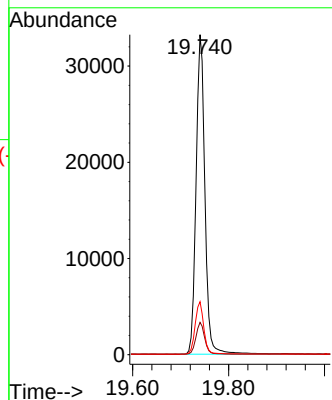
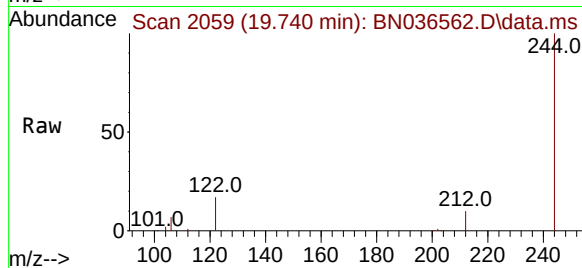




#31
Terphenyl-d14
Concen: 3.297 ng
RT: 19.740 min Scan# 2060
Delta R.T. -0.005 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

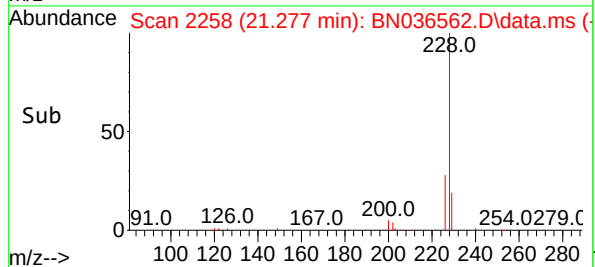
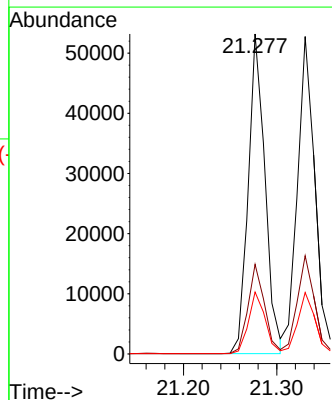
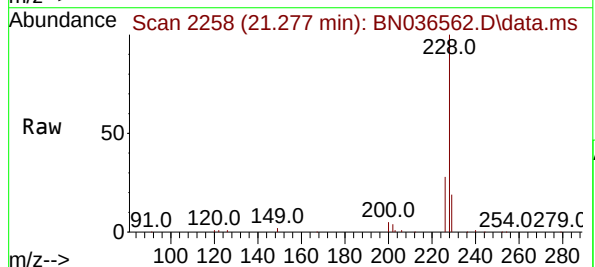
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

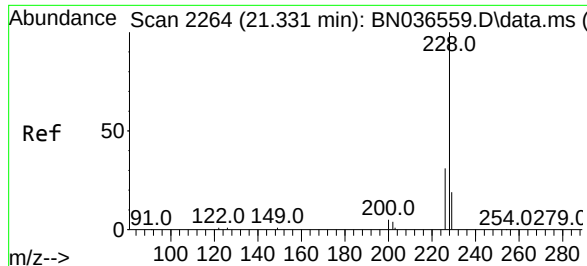
Tgt Ion:244 Resp: 42959
Ion Ratio Lower Upper
244 100
212 10.1 9.6 14.4
122 16.6 13.9 20.9



#32
Benzo(a)anthracene
Concen: 3.516 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.009 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:228 Resp: 66496
Ion Ratio Lower Upper
228 100
226 28.0 22.5 33.7
229 19.4 16.6 25.0





#33

Chrysene

Concen: 3.403 ng

RT: 21.331 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

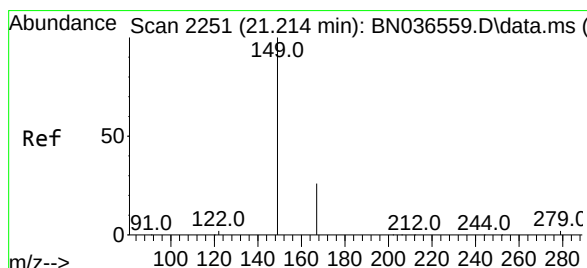
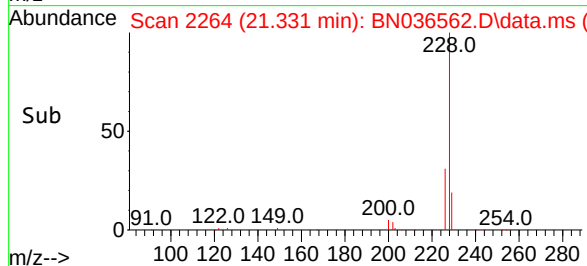
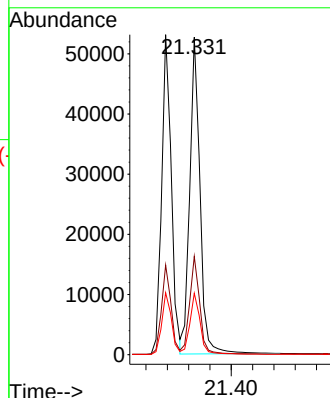
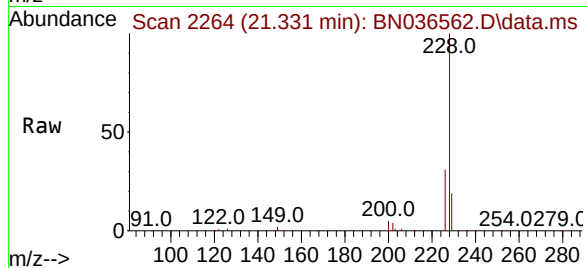
Tgt Ion:228 Resp: 70334

Ion Ratio Lower Upper

228 100

226 31.0 25.3 37.9

229 19.4 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 2.947 ng

RT: 21.214 min Scan# 2251

Delta R.T. 0.000 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

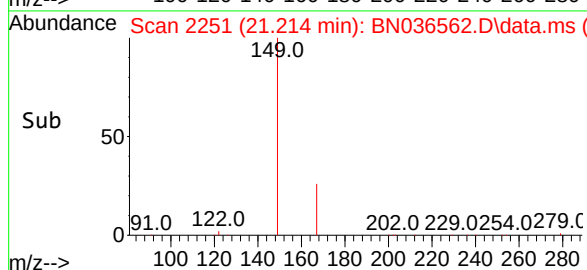
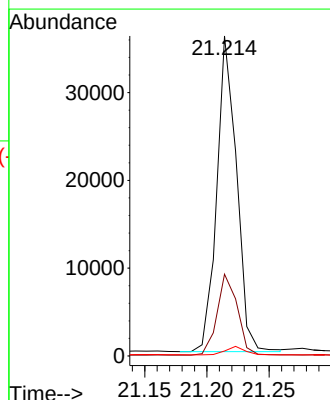
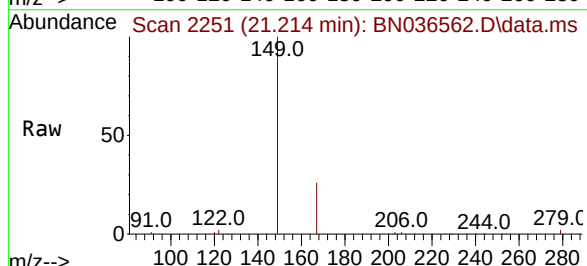
Tgt Ion:149 Resp: 39682

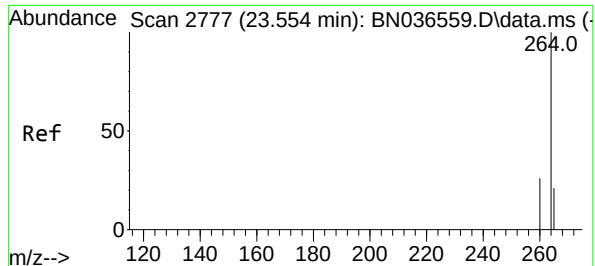
Ion Ratio Lower Upper

149 100

167 26.3 20.7 31.1

279 2.6 3.6 5.4#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.551 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

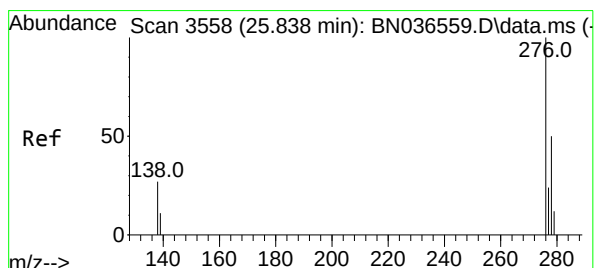
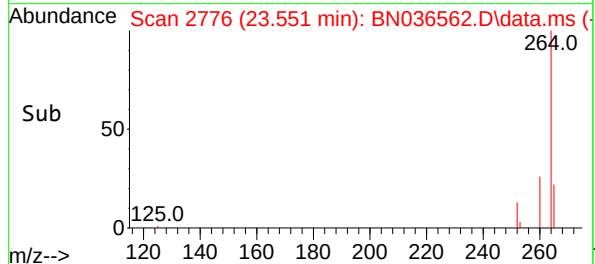
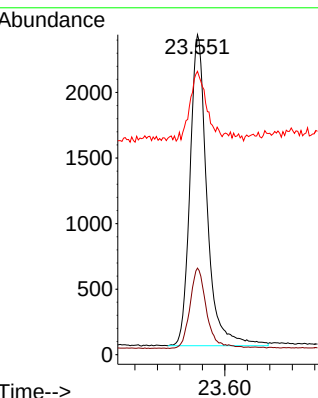
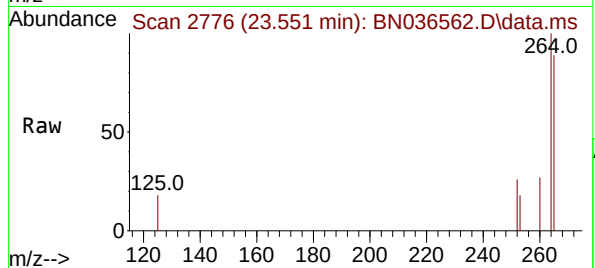
Tgt Ion:264 Resp: 5002

Ion Ratio Lower Upper

264 100

260 27.0 22.6 33.8

265 88.6 88.1 132.1



#36

Indeno(1,2,3-cd)pyrene

Concen: 3.754 ng

RT: 25.829 min Scan# 3555

Delta R.T. -0.009 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

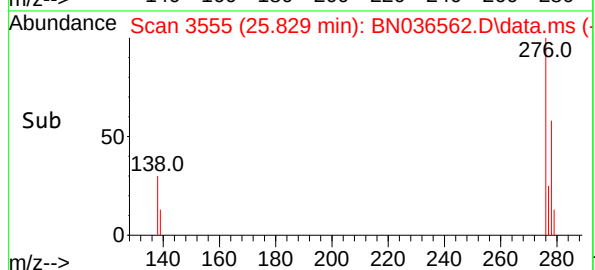
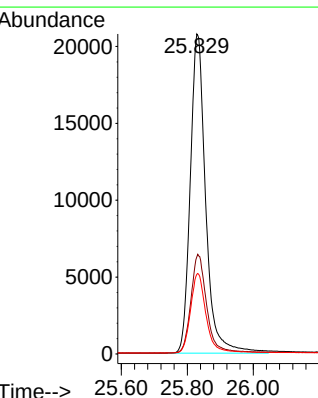
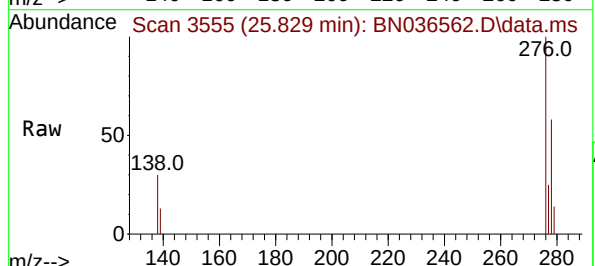
Tgt Ion:276 Resp: 67767

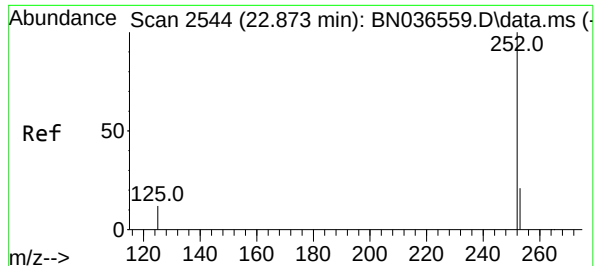
Ion Ratio Lower Upper

276 100

138 31.3 23.4 35.2

277 24.8 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 3.506 ng

RT: 22.870 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

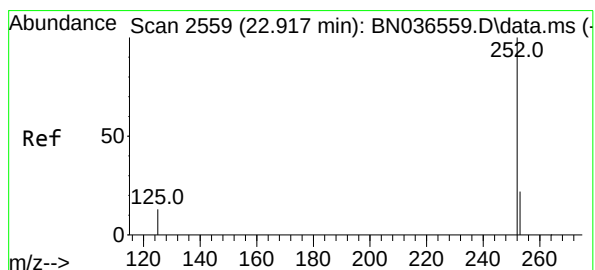
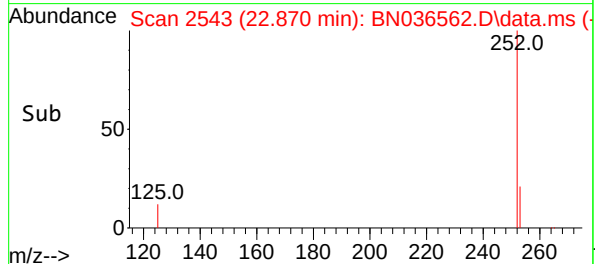
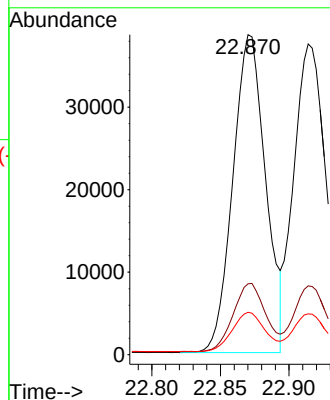
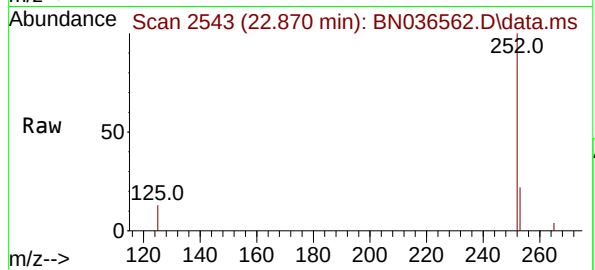
Tgt Ion:252 Resp: 63823

Ion Ratio Lower Upper

252 100

253 22.2 23.9 35.9#

125 13.3 17.4 26.2#



#38

Benzo(k)fluoranthene

Concen: 3.425 ng

RT: 22.914 min Scan# 2558

Delta R.T. -0.003 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

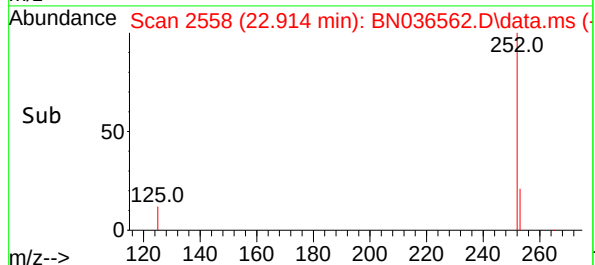
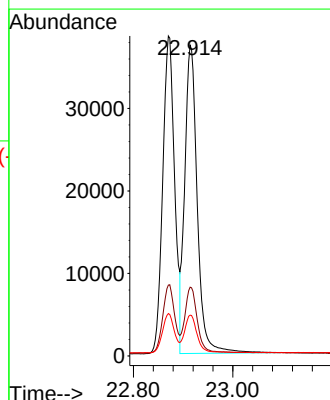
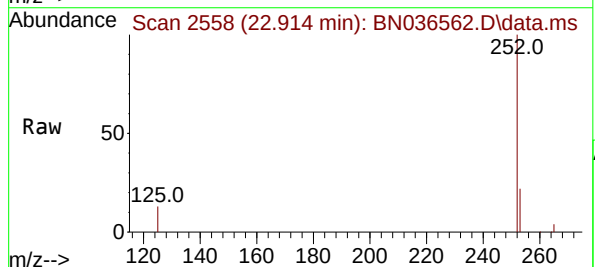
Tgt Ion:252 Resp: 65410

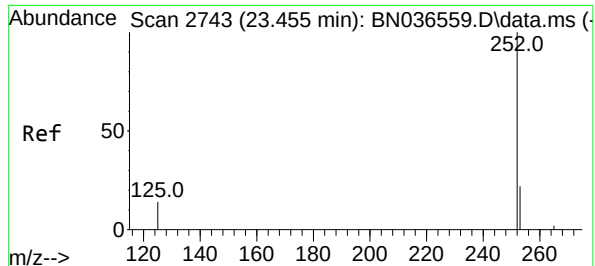
Ion Ratio Lower Upper

252 100

253 22.1 24.6 36.8#

125 13.2 17.8 26.8#





#39

Benzo(a)pyrene

Concen: 3.523 ng

RT: 23.452 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

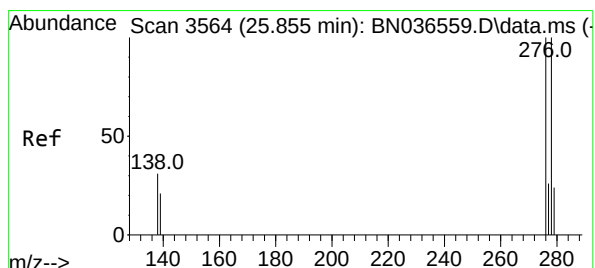
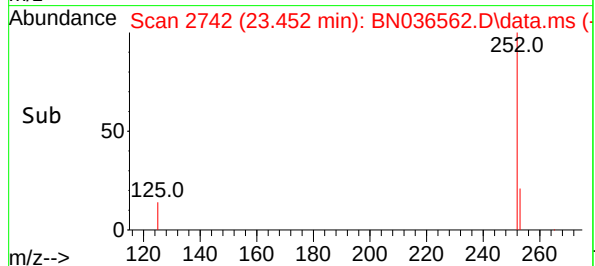
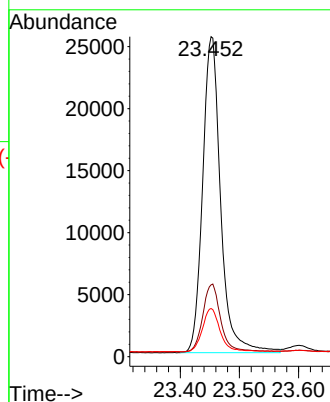
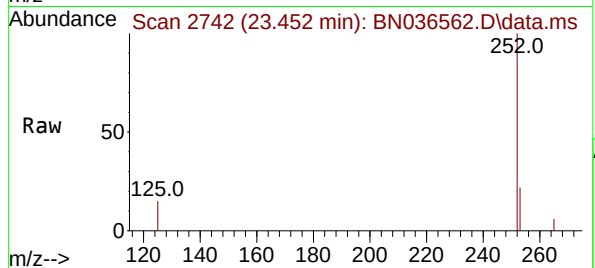
Tgt Ion:252 Resp: 54009

Ion Ratio Lower Upper

252 100

253 22.4 27.8 41.8#

125 15.1 22.7 34.1#



#40

Dibenzo(a,h)anthracene

Concen: 3.846 ng

RT: 25.843 min Scan# 3560

Delta R.T. -0.012 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

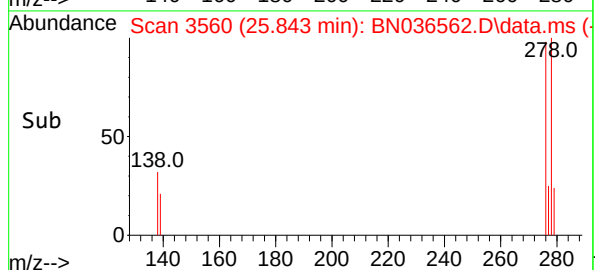
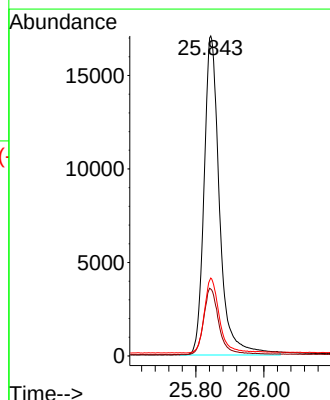
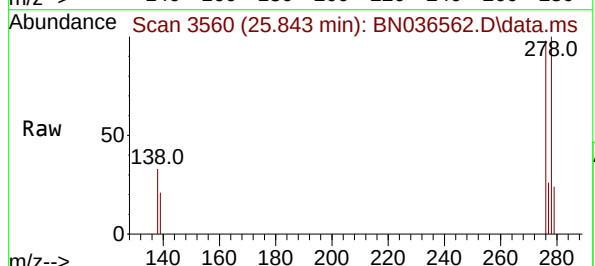
Tgt Ion:278 Resp: 54058

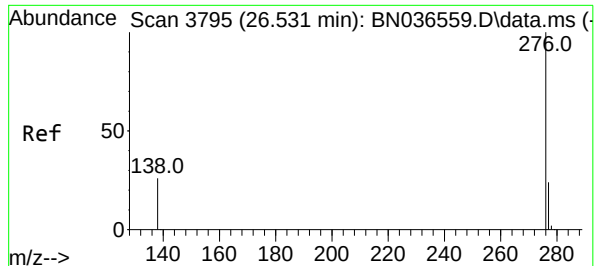
Ion Ratio Lower Upper

278 100

139 20.9 20.8 31.2

279 24.4 28.8 43.2#





#41

Benzo(g,h,i)perylene

Concen: 3.606 ng

RT: 26.528 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN036562.D

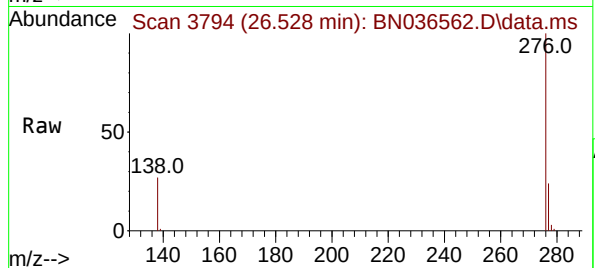
Acq: 10 Mar 2025 14:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



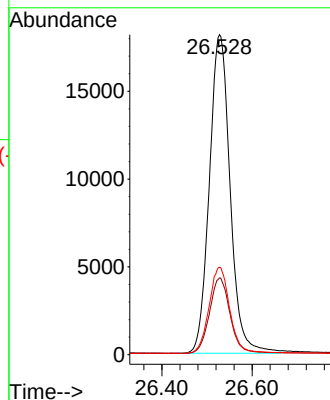
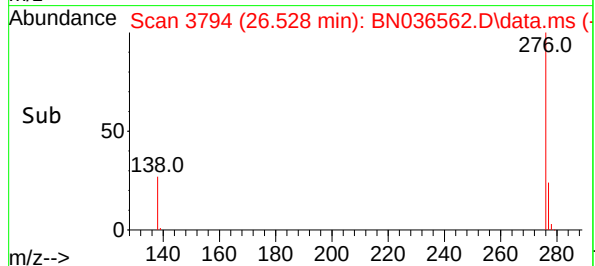
Tgt Ion:276 Resp: 57986

Ion Ratio Lower Upper

276 100

277 24.0 22.2 33.4

138 27.4 24.1 36.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
 Data File : BN036563.D
 Acq On : 10 Mar 2025 15:19
 Operator : RC/JU
 Sample : SSTDICC5.0
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC5.0

Quant Time: Mar 10 16:03:20 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 15:54:23 2025
 Response via : Initial Calibration

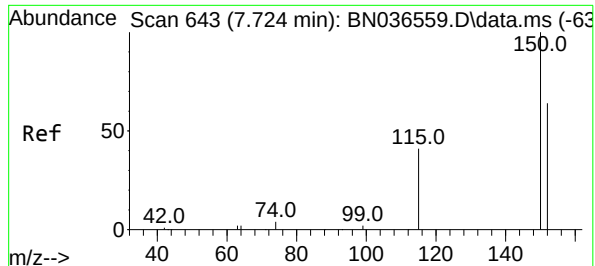
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	3261	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	7995	0.400	ng	# 0.00
13) Acenaphthene-d10	14.366	164	4664	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	9061	0.400	ng	0.00
29) Chrysene-d12	21.295	240	6472	0.400	ng	0.00
35) Perylene-d12	23.551	264	5580	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	37154	4.889	ng	0.00
5) Phenol-d6	6.894	99	48085	5.122	ng	0.00
8) Nitrobenzene-d5	8.864	82	41042	4.719	ng	-0.01
11) 2-Methylnaphthalene-d10	12.101	152	58048	4.881	ng	-0.01
14) 2,4,6-Tribromophenol	15.858	330	10964	5.181	ng	0.00
15) 2-Fluorobiphenyl	12.983	172	141052	5.199	ng	0.00
27) Fluoranthene-d10	19.141	212	113317	4.879	ng	0.00
31) Terphenyl-d14	19.740	244	74923	4.832	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	16253	4.492	ng	97
3) n-Nitrosodimethylamine	3.550	42	32163	4.395	ng	# 95
6) bis(2-Chloroethyl)ether	7.146	93	44986	4.636	ng	99
9) Naphthalene	10.551	128	109289	4.647	ng	97
10) Hexachlorobutadiene	10.850	225	25105	4.535	ng	# 99
12) 2-Methylnaphthalene	12.177	142	73010	4.879	ng	98
16) Acenaphthylene	14.077	152	112792	5.125	ng	99
17) Acenaphthene	14.420	154	72446	5.028	ng	96
18) Fluorene	15.414	166	96215	4.937	ng	97
20) 4,6-Dinitro-2-methylph...	15.489	198	12627	4.968	ng	# 56
21) 4-Bromophenyl-phenylether	16.304	248	28657	5.048	ng	# 81
22) Hexachlorobenzene	16.416	284	32686	4.770	ng	99
23) Atrazine	16.577	200	22705	4.988	ng	# 90
24) Pentachlorophenol	16.764	266	17612	5.634	ng	99
25) Phenanthrene	17.148	178	135347	4.979	ng	100
26) Anthracene	17.235	178	125954	5.135	ng	99
28) Fluoranthene	19.169	202	149107	4.883	ng	99
30) Pyrene	19.536	202	148584	4.695	ng	100
32) Benzo(a)anthracene	21.277	228	114481	5.087	ng	98
33) Chrysene	21.331	228	117149	4.764	ng	99
34) Bis(2-ethylhexyl)phtha...	21.214	149	70345	4.390	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.835	276	109561	5.440	ng	98
37) Benzo(b)fluoranthene	22.873	252	104498	5.146	ng	# 84
38) Benzo(k)fluoranthene	22.917	252	106995	5.022	ng	# 82
39) Benzo(a)pyrene	23.452	252	88413	5.170	ng	# 76
40) Dibenzo(a,h)anthracene	25.846	278	87308	5.568	ng	# 84
41) Benzo(g,h,i)perylene	26.531	276	93067	5.189	ng	93

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

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

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

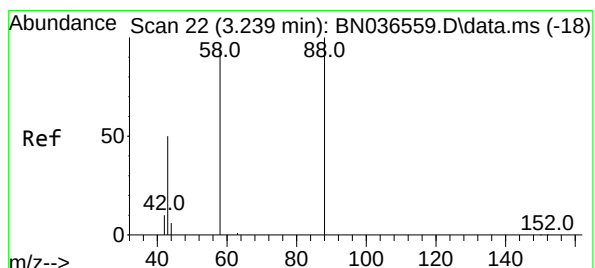
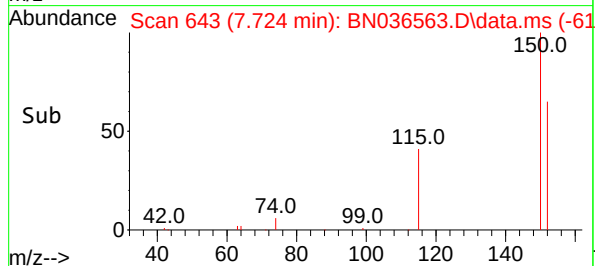
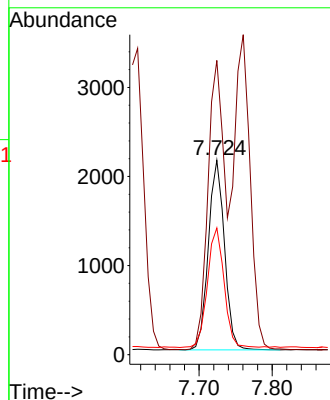
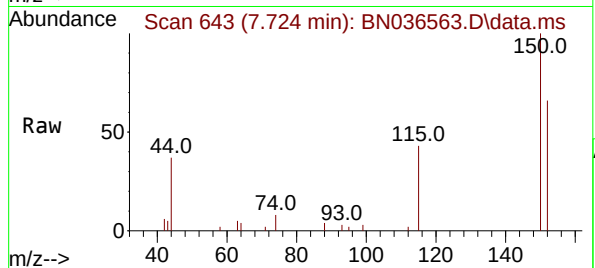




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

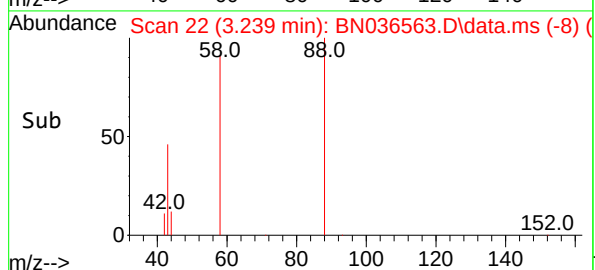
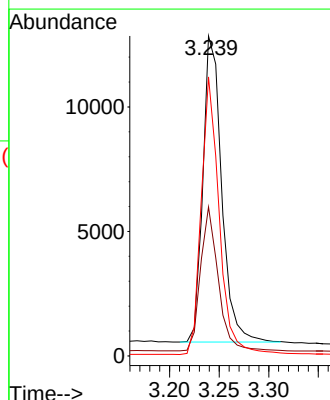
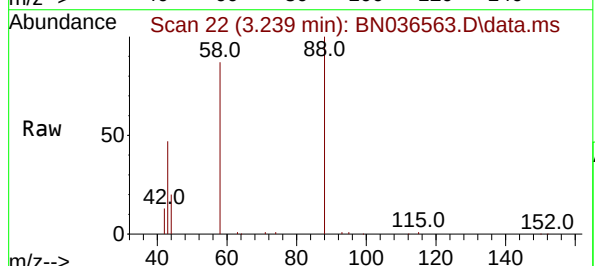
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

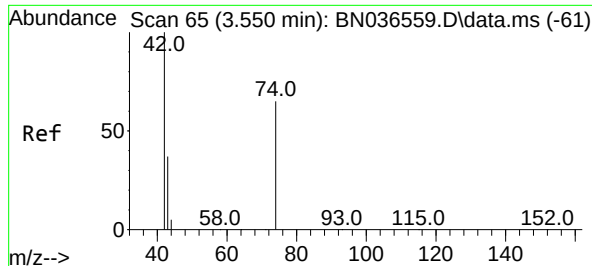
Tgt Ion:152 Resp: 3261
Ion Ratio Lower Upper
152 100
150 151.3 123.7 185.5
115 65.2 54.3 81.5



#2
1,4-Dioxane
Concen: 4.492 ng
RT: 3.239 min Scan# 22
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion: 88 Resp: 16253
Ion Ratio Lower Upper
88 100
43 44.3 37.8 56.8
58 86.4 67.4 101.2

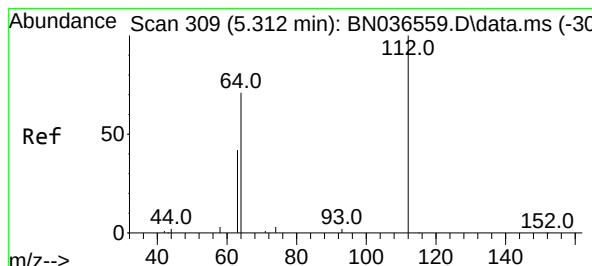
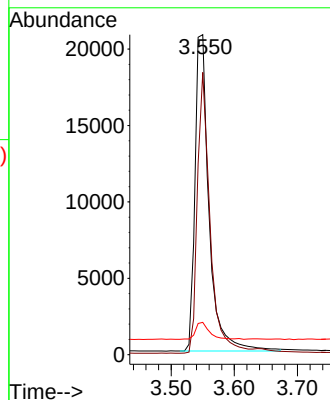
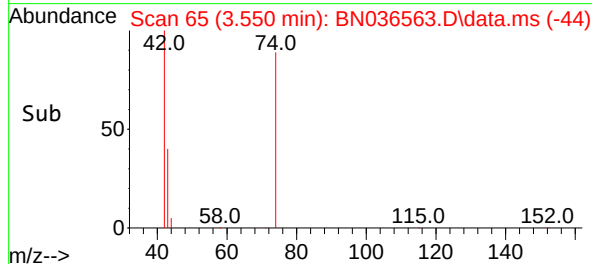
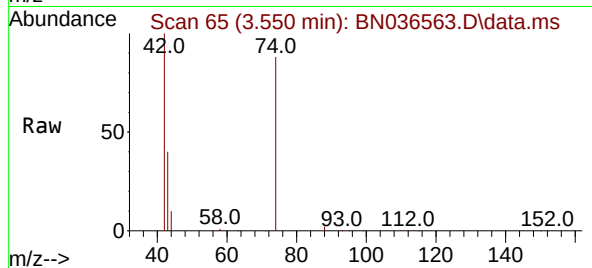




#3
n-Nitrosodimethylamine
Concen: 4.395 ng
RT: 3.550 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

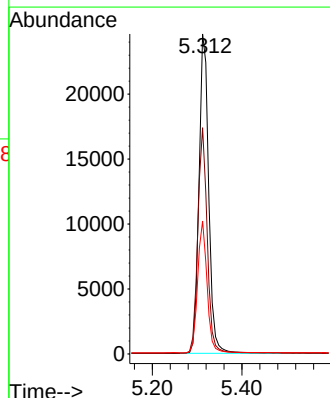
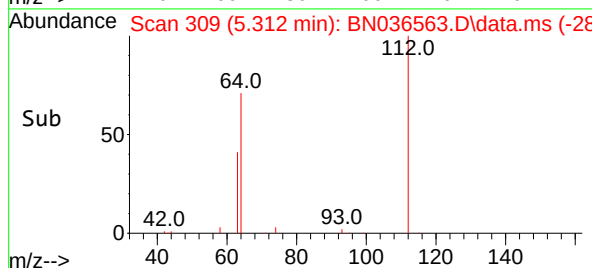
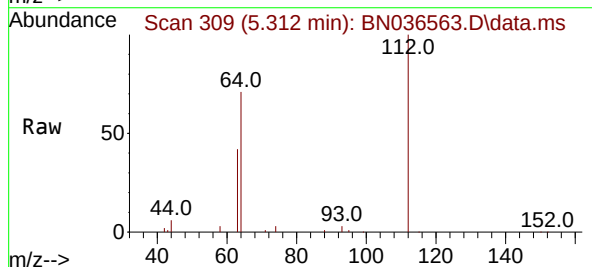
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

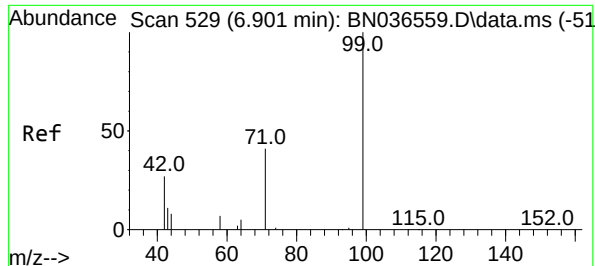
Tgt Ion: 42 Resp: 32163
Ion Ratio Lower Upper
42 100
74 79.9 60.6 90.8
44 5.3 6.3 9.5#



#4
2-Fluorophenol
Concen: 4.889 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion: 112 Resp: 37154
Ion Ratio Lower Upper
112 100
64 68.5 53.1 79.7
63 40.1 31.8 47.8

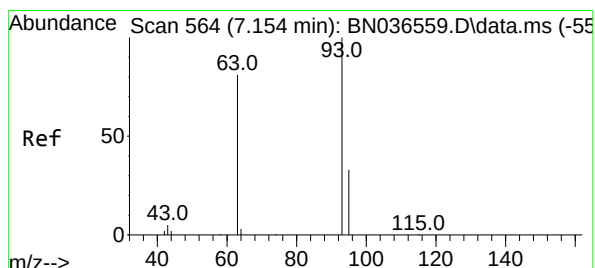
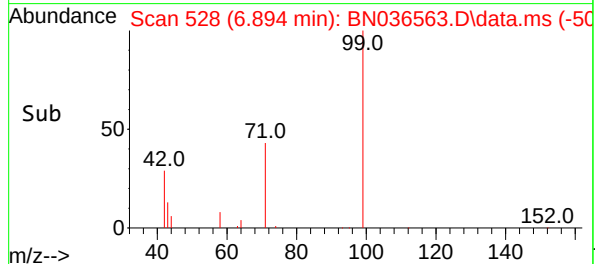
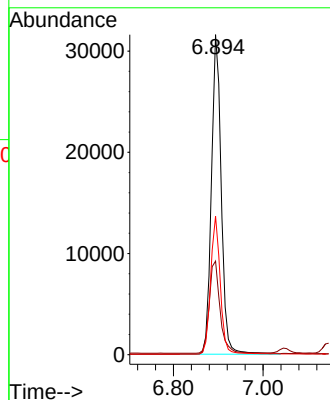
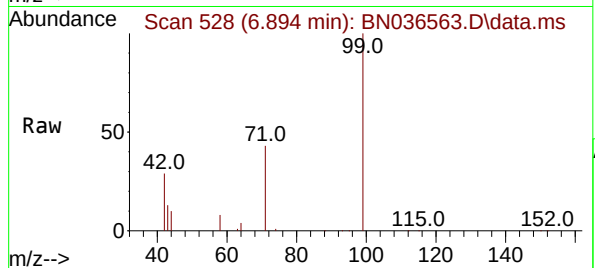




#5
Phenol-d6
Concen: 5.122 ng
RT: 6.894 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

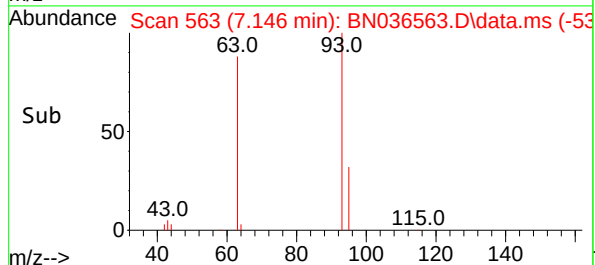
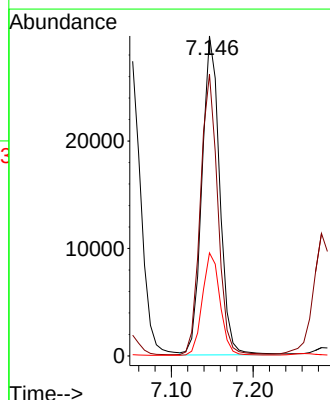
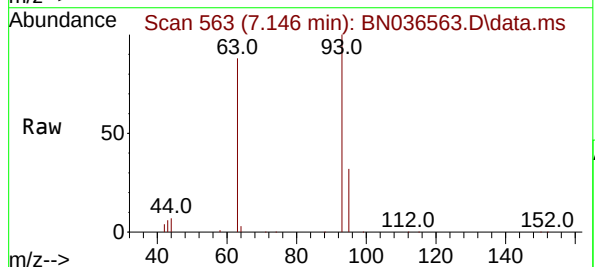
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

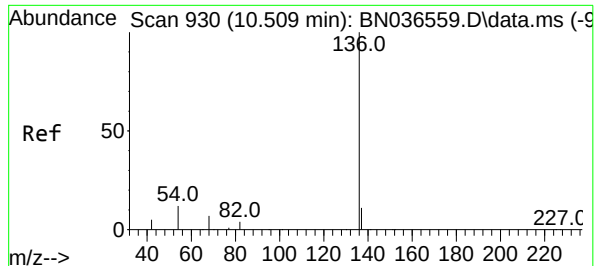
Tgt Ion: 99 Resp: 48085
Ion Ratio Lower Upper
99 100
42 31.8 26.5 39.7
71 42.6 34.1 51.1



#6
bis(2-Chloroethyl)ether
Concen: 4.636 ng
RT: 7.146 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion: 93 Resp: 44986
Ion Ratio Lower Upper
93 100
63 85.8 67.7 101.5
95 32.0 25.6 38.4

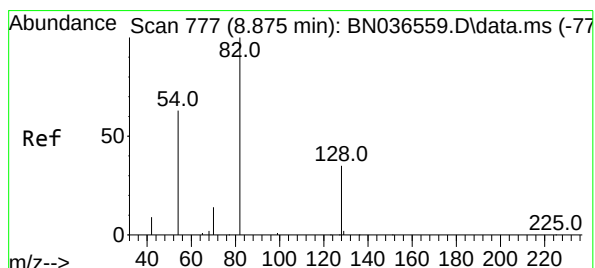
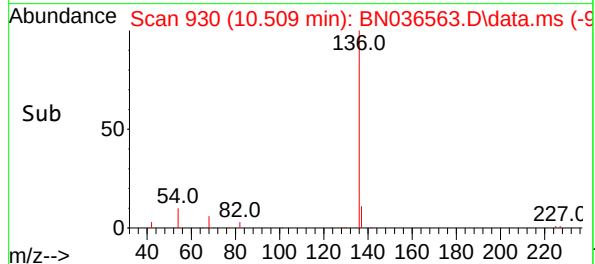
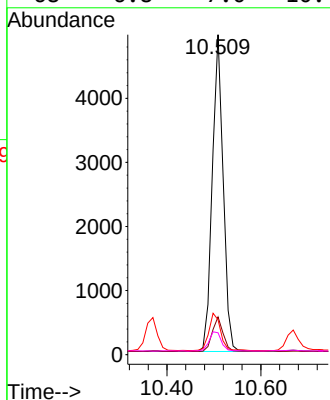
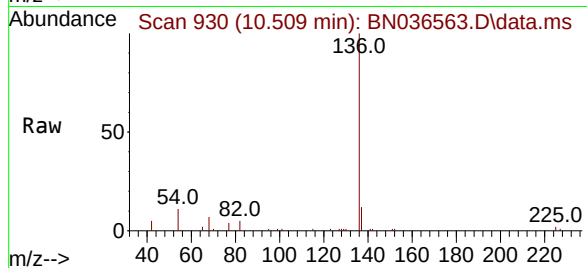




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

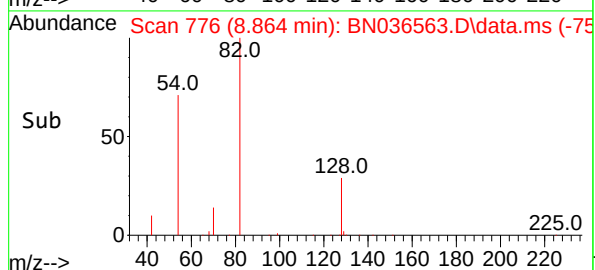
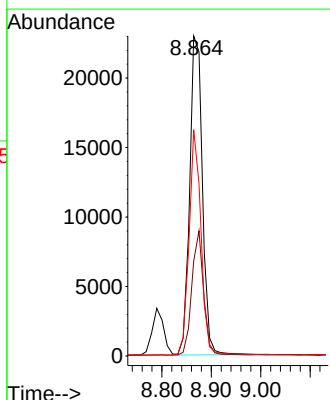
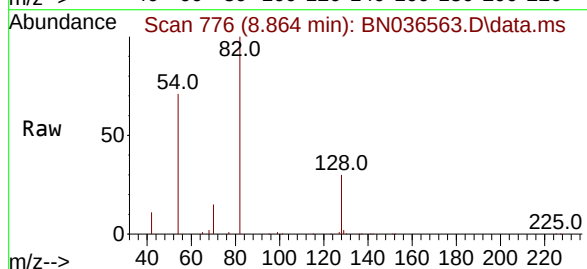
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

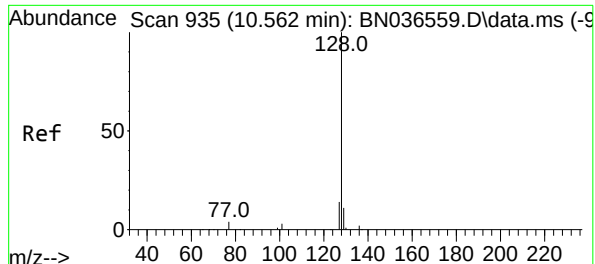
Tgt Ion:	136	Resp:	7995
Ion	Ratio	Lower	Upper
136	100		
137	11.8	10.3	15.5
54	10.9	11.5	17.3#
68	6.8	7.0	10.4#



#8
Nitrobenzene-d5
Concen: 4.719 ng
RT: 8.864 min Scan# 776
Delta R.T. -0.011 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:	82	Resp:	41042
Ion	Ratio	Lower	Upper
82	100		
128	29.7	30.6	45.8#
54	70.7	52.2	78.4

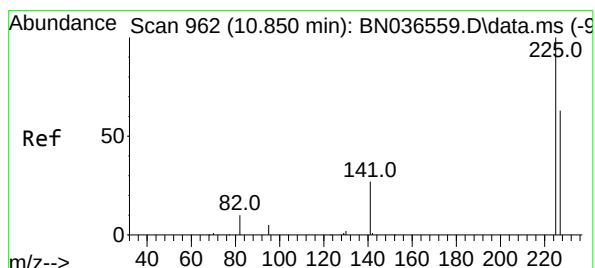
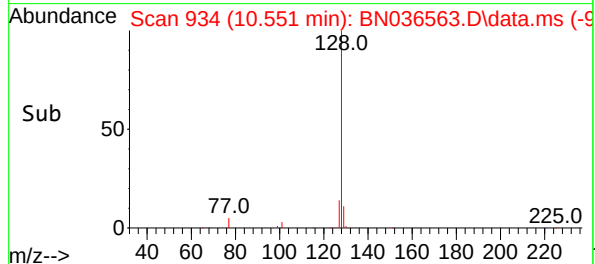
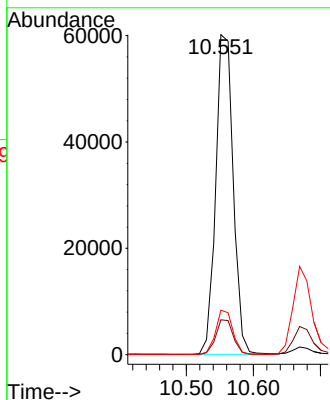
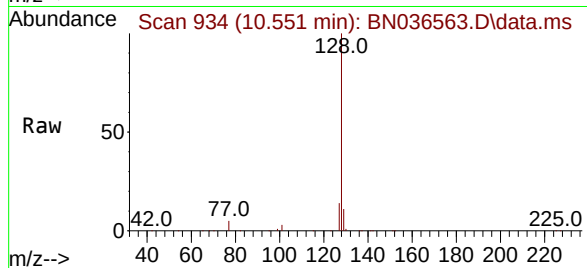




#9
Naphthalene
Concen: 4.647 ng
RT: 10.551 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

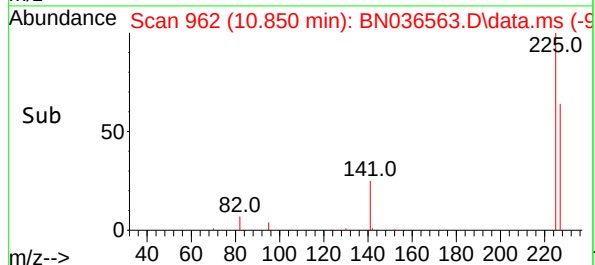
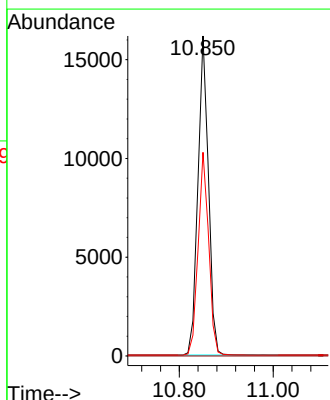
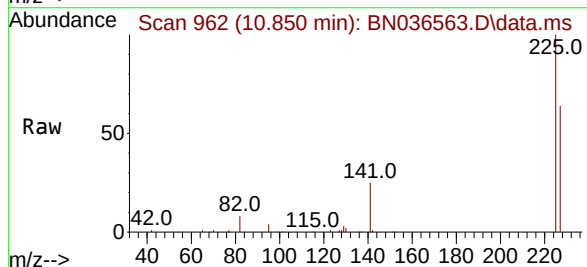
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

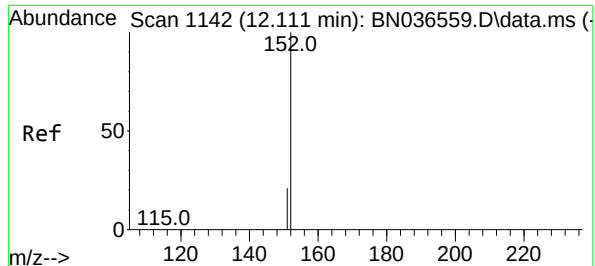
Tgt Ion:128 Resp: 109289
Ion Ratio Lower Upper
128 100
129 10.9 9.8 14.6
127 13.9 11.8 17.8



#10
Hexachlorobutadiene
Concen: 4.535 ng
RT: 10.850 min Scan# 962
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:225 Resp: 25105
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.7 51.8 77.8

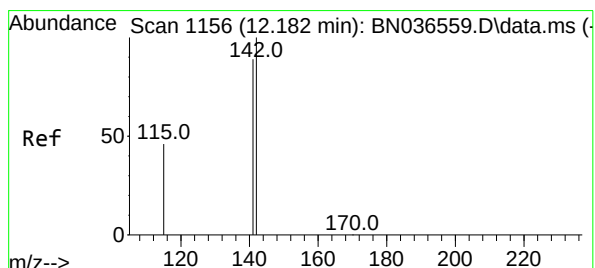
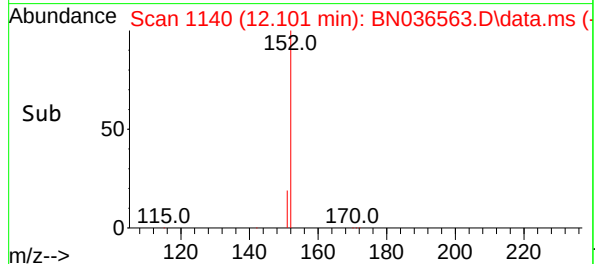
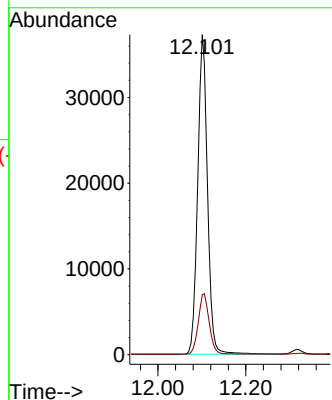
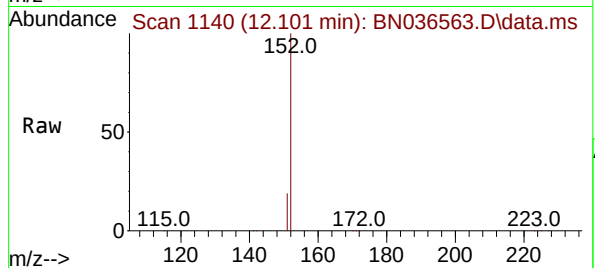




#11
2-Methylnaphthalene-d10
Concen: 4.881 ng
RT: 12.101 min Scan# 1142
Delta R.T. -0.010 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

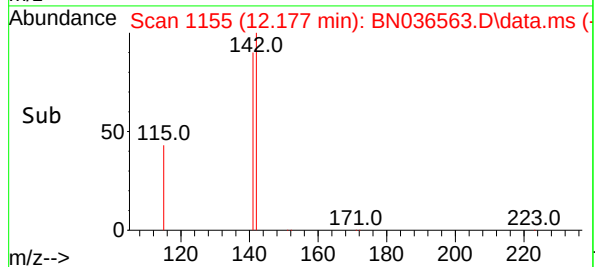
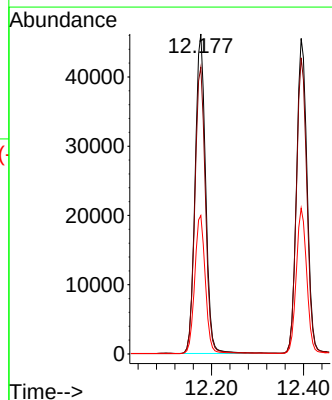
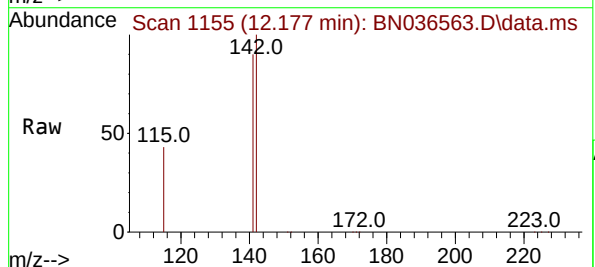
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

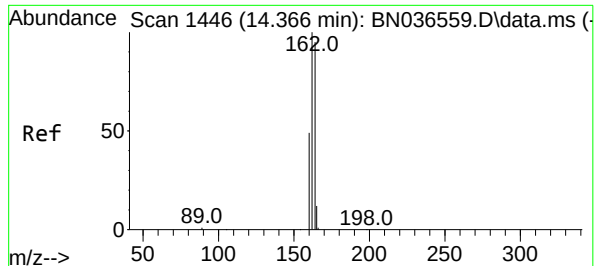
Tgt Ion:152 Resp: 58048
Ion Ratio Lower Upper
152 100
151 21.2 17.0 25.6



#12
2-Methylnaphthalene
Concen: 4.879 ng
RT: 12.177 min Scan# 1155
Delta R.T. -0.005 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:142 Resp: 73010
Ion Ratio Lower Upper
142 100
141 89.6 71.7 107.5
115 43.2 38.3 57.5

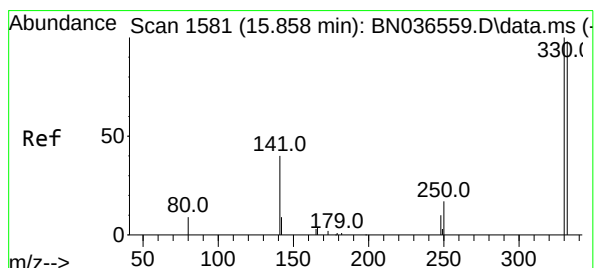
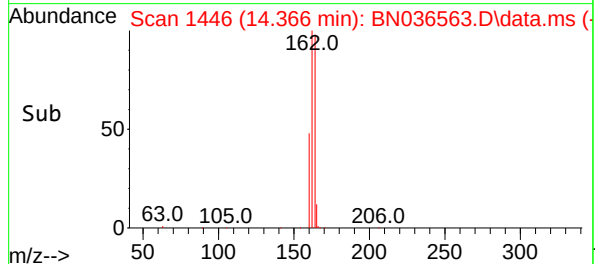
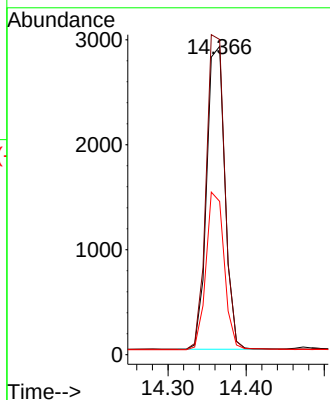
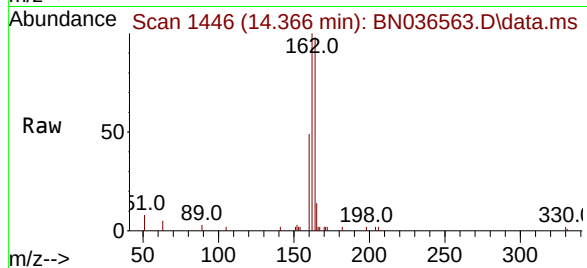




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

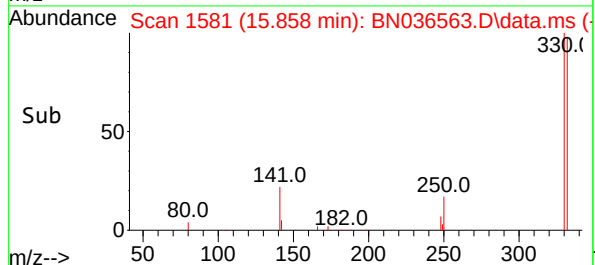
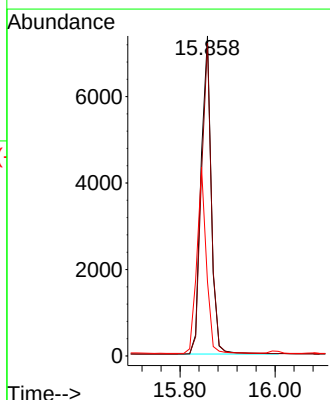
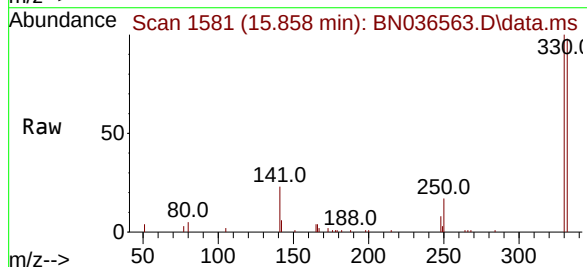
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

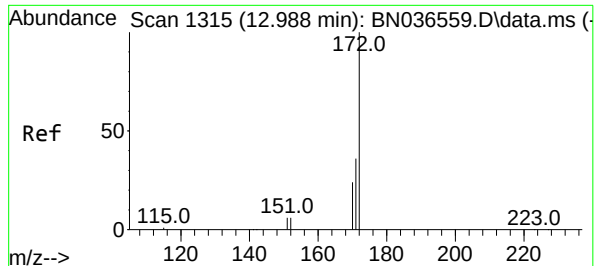
Tgt Ion:	164	Resp:	4664
Ion	Ratio	Lower	Upper
164	100		
162	102.2	84.2	126.2
160	49.7	42.2	63.2



#14
2,4,6-Tribromophenol
Concen: 5.181 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:	330	Resp:	10964
Ion	Ratio	Lower	Upper
330	100		
332	95.9	75.2	112.8
141	54.7	43.4	65.2





#15

2-Fluorobiphenyl

Concen: 5.199 ng

RT: 12.983 min Scan# 141052

Delta R.T. -0.005 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

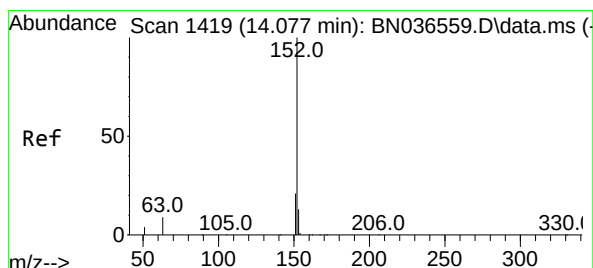
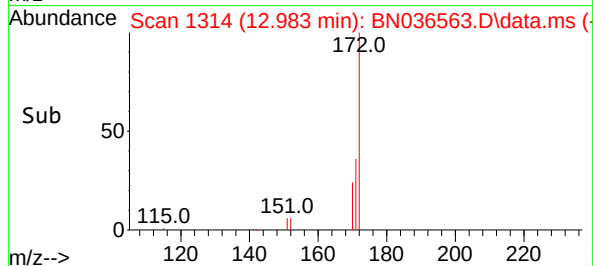
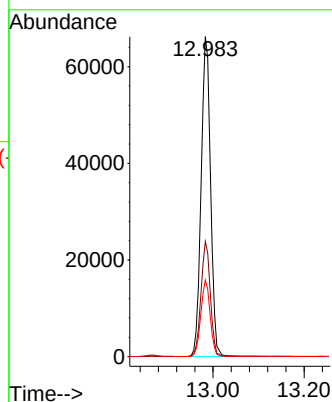
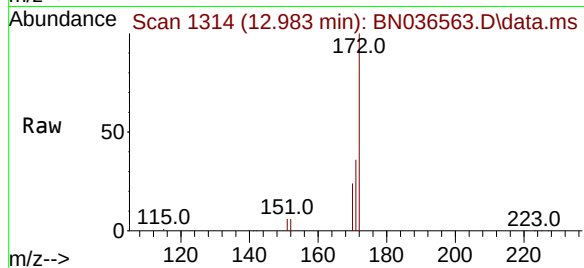
Tgt Ion:172 Resp: 141052

Ion Ratio Lower Upper

172 100

171 36.0 29.5 44.3

170 24.0 20.2 30.4



#16

Acenaphthylene

Concen: 5.125 ng

RT: 14.077 min Scan# 1419

Delta R.T. -0.000 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

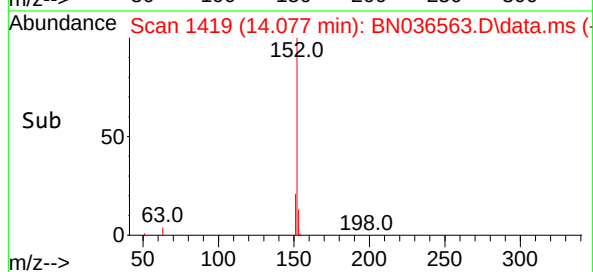
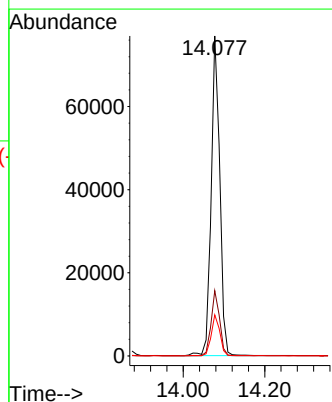
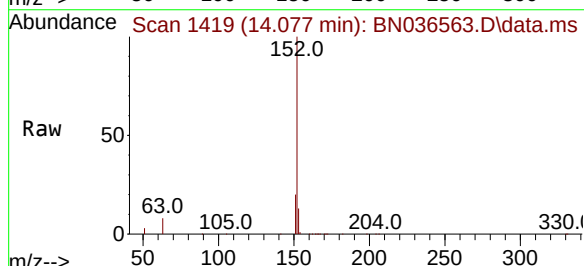
Tgt Ion:152 Resp: 112792

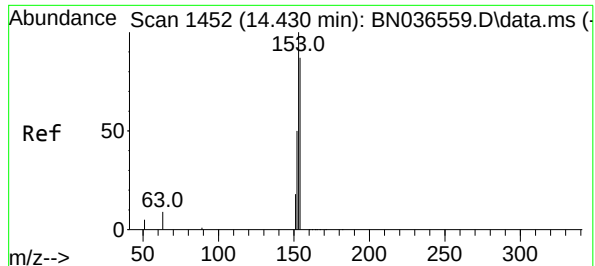
Ion Ratio Lower Upper

152 100

151 20.0 16.2 24.4

153 12.8 10.6 15.8

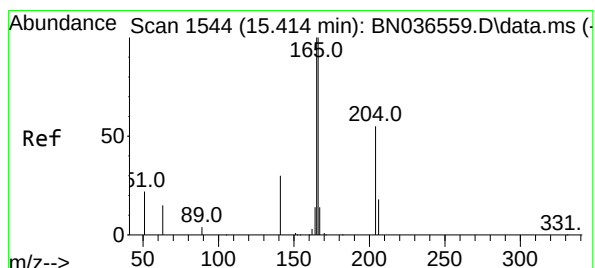
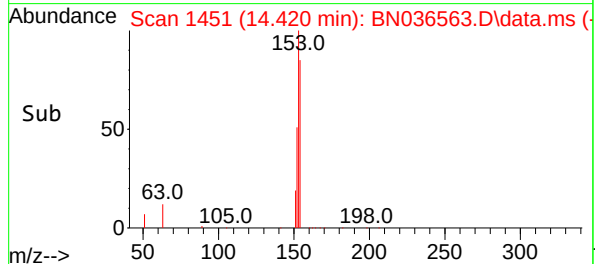
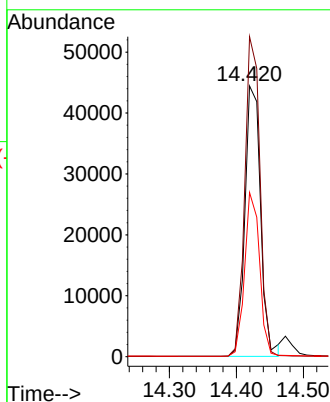
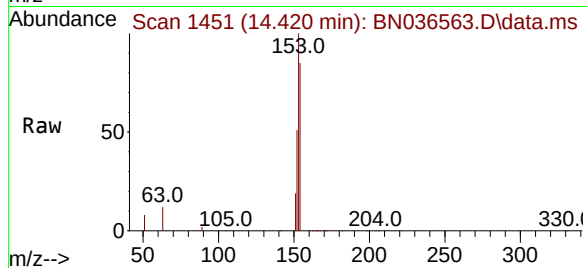




#17
Acenaphthene
Concen: 5.028 ng
RT: 14.420 min Scan# 1451
Delta R.T. -0.011 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

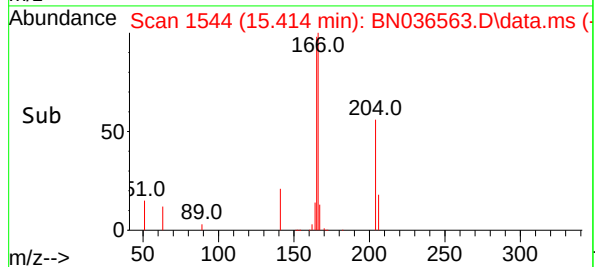
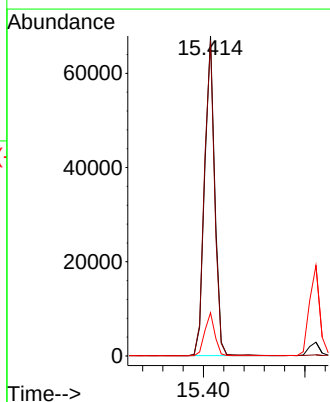
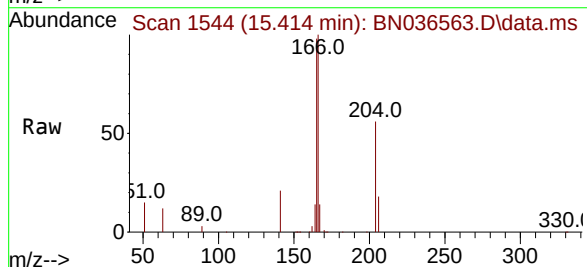
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

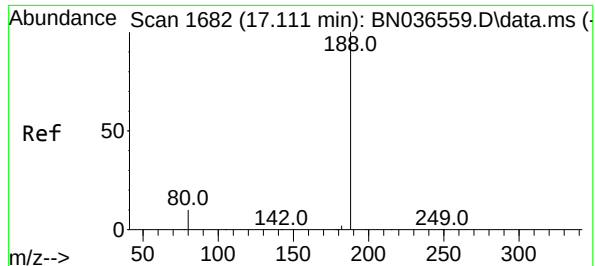
Tgt Ion:154 Resp: 72446
Ion Ratio Lower Upper
154 100
153 114.1 94.1 141.1
152 57.7 49.8 74.6



#18
Fluorene
Concen: 4.937 ng
RT: 15.414 min Scan# 1544
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:166 Resp: 96215
Ion Ratio Lower Upper
166 100
165 96.5 79.8 119.8
167 13.0 10.6 15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.111 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

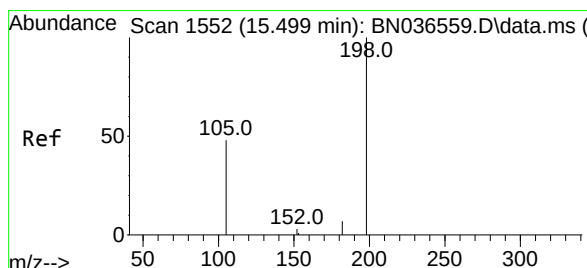
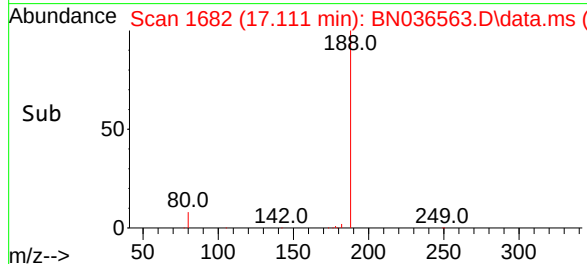
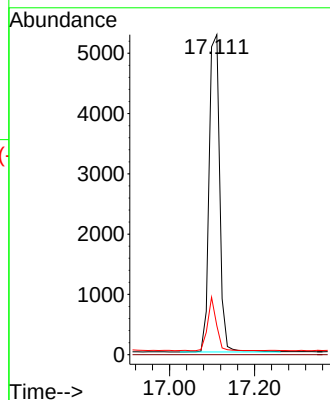
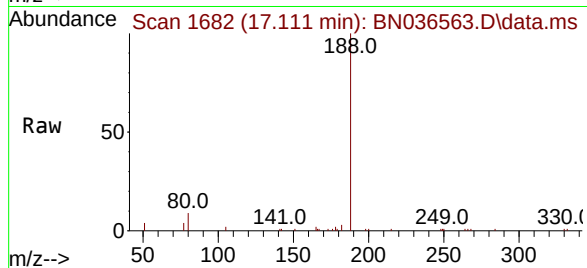
Tgt Ion:188 Resp: 9061

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.1 8.8 13.2



#20

4,6-Dinitro-2-methylphenol

Concen: 4.968 ng

RT: 15.489 min Scan# 1551

Delta R.T. -0.010 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

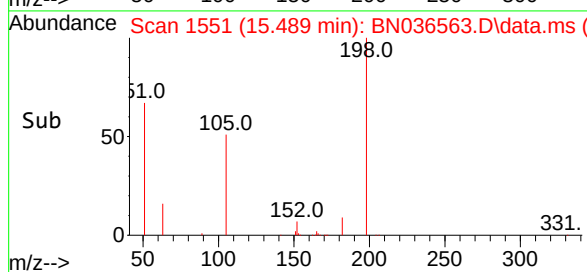
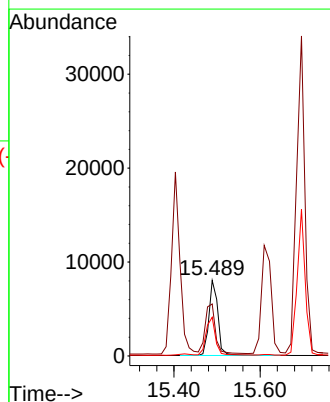
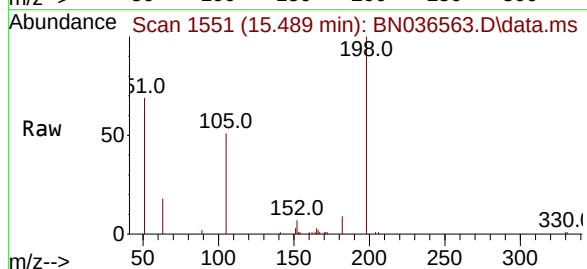
Tgt Ion:198 Resp: 12627

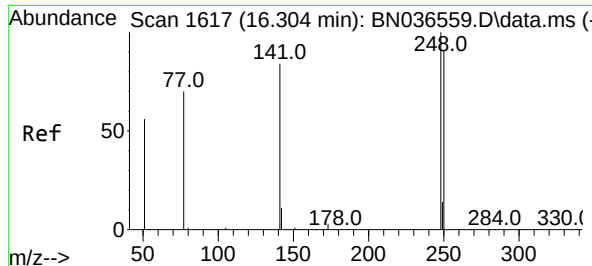
Ion Ratio Lower Upper

198 100

51 68.9 107.9 161.9#

105 51.3 56.2 84.2#

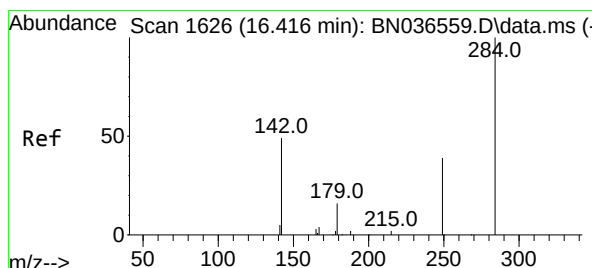
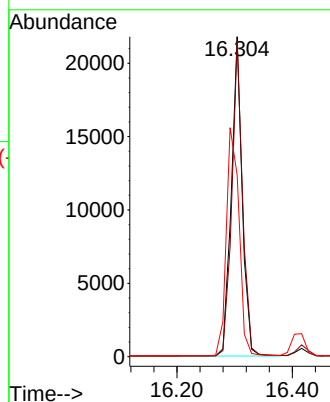
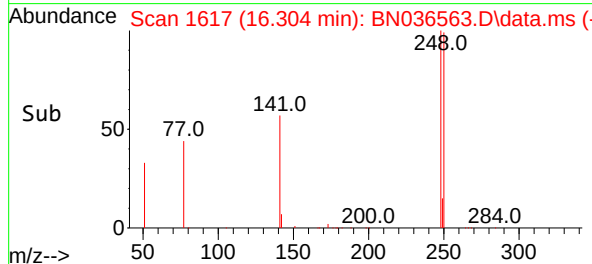
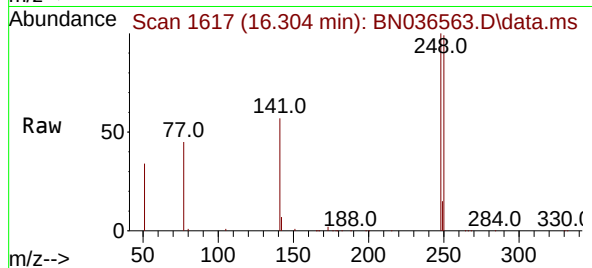




#21
4-Bromophenyl-phenylether
Concen: 5.048 ng
RT: 16.304 min Scan# 1617
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

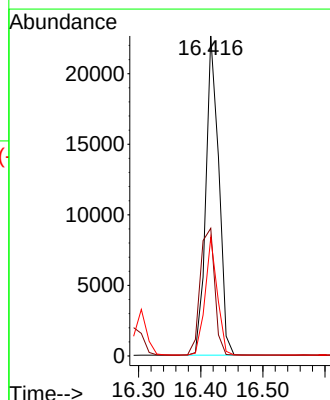
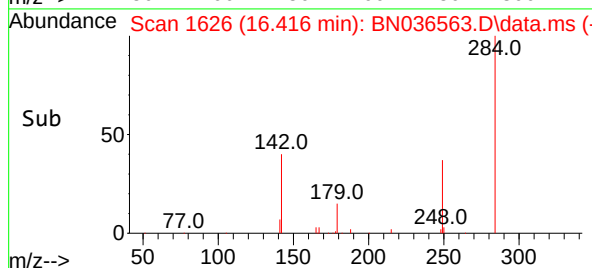
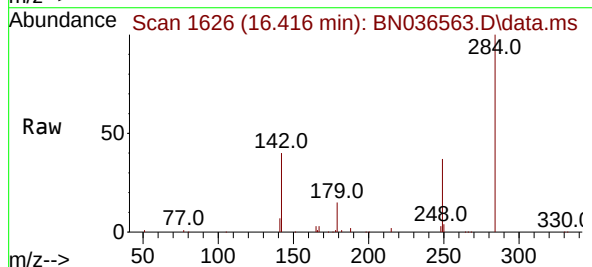
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

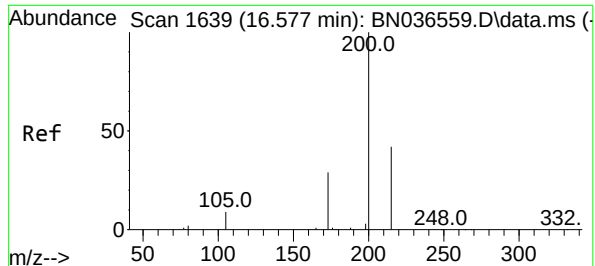
Tgt Ion	Ratio	Lower	Upper
248	100		
250	98.6	73.0	109.6
141	56.7	68.6	103.0#



#22
Hexachlorobenzene
Concen: 4.770 ng
RT: 16.416 min Scan# 1626
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion	Ratio	Lower	Upper
284	100		
142	45.1	37.0	55.4
249	35.1	28.1	42.1

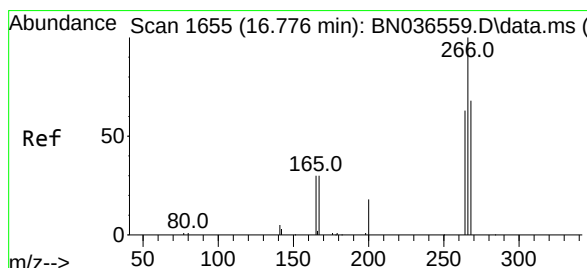
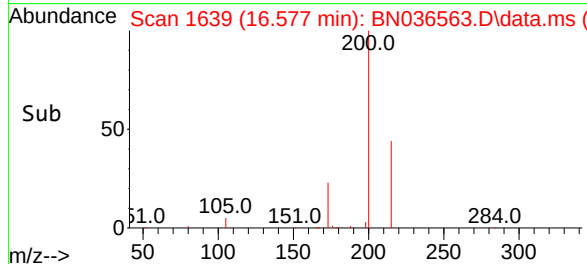
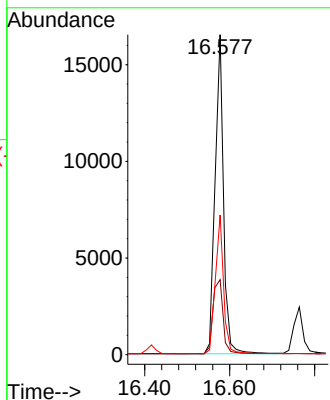
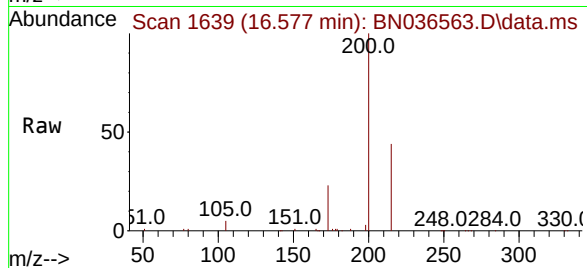




#23
Atrazine
Concen: 4.988 ng
RT: 16.577 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

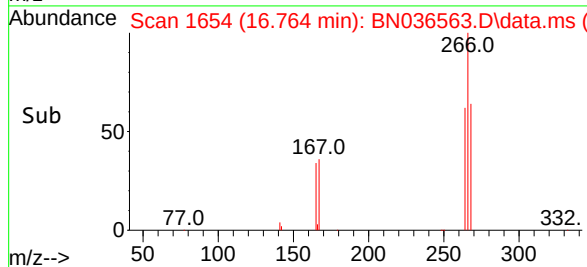
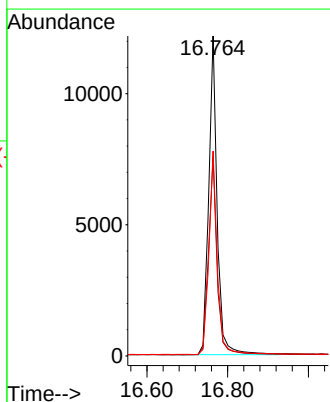
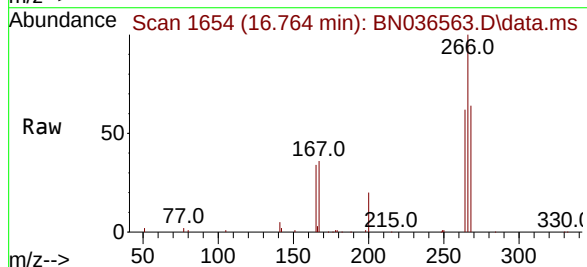
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

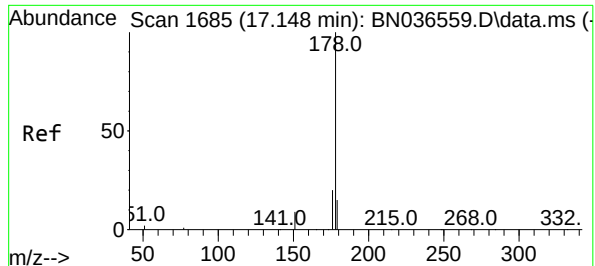
Tgt Ion	Ratio	Lower	Upper
200	100		
173	23.4	27.3	40.9#
215	43.7	36.8	55.2



#24
Pentachlorophenol
Concen: 5.634 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion	Ratio	Lower	Upper
266	100		
264	63.1	49.6	74.4
268	63.7	50.9	76.3





#25

Phenanthrene

Concen: 4.979 ng

RT: 17.148 min Scan# 1685

Delta R.T. 0.000 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

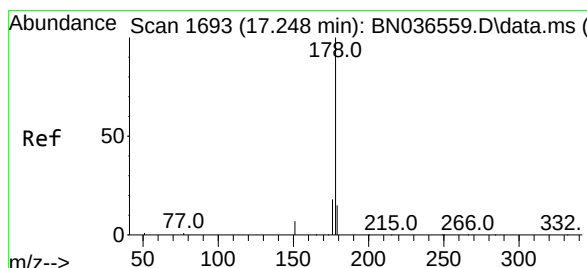
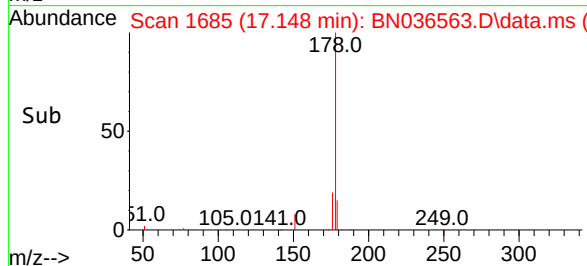
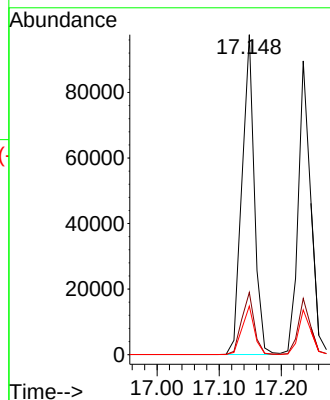
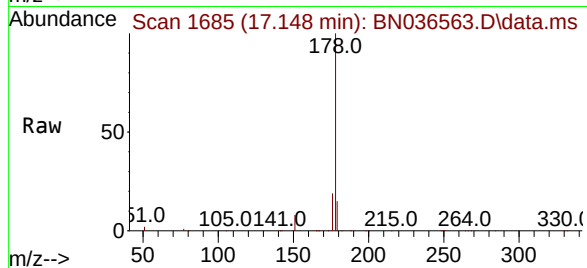
Tgt Ion:178 Resp: 135347

Ion Ratio Lower Upper

178 100

176 19.7 15.9 23.9

179 15.2 12.2 18.4



#26

Anthracene

Concen: 5.135 ng

RT: 17.235 min Scan# 1692

Delta R.T. -0.012 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

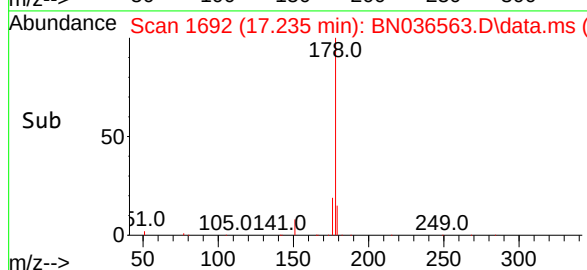
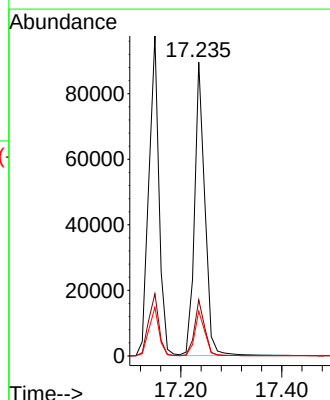
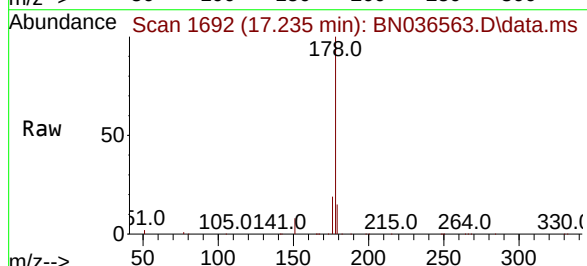
Tgt Ion:178 Resp: 125954

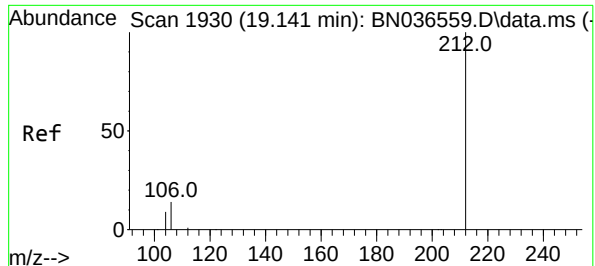
Ion Ratio Lower Upper

178 100

176 19.0 15.4 23.2

179 15.2 12.6 18.8





#27

Fluoranthene-d10

Concen: 4.879 ng

RT: 19.141 min Scan# 1930

Delta R.T. 0.000 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

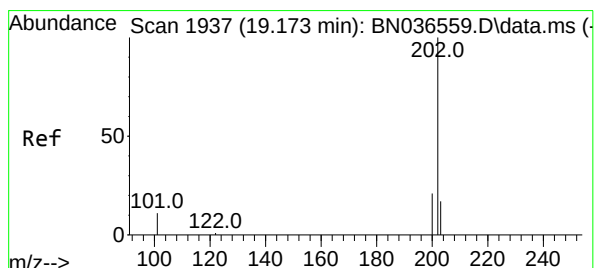
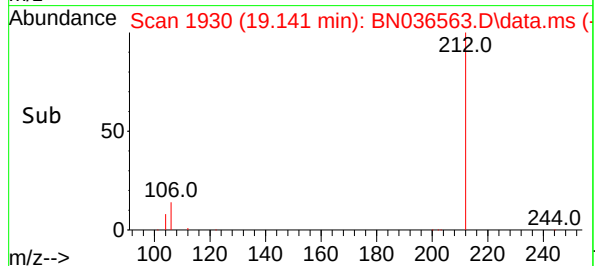
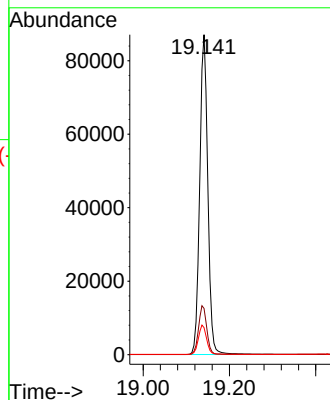
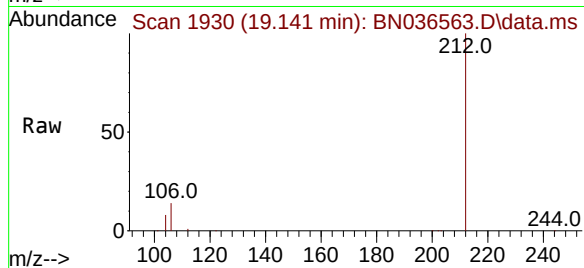
Tgt Ion:212 Resp: 113317

Ion Ratio Lower Upper

212 100

106 15.5 11.8 17.6

104 9.2 7.3 10.9



#28

Fluoranthene

Concen: 4.883 ng

RT: 19.169 min Scan# 1936

Delta R.T. -0.005 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

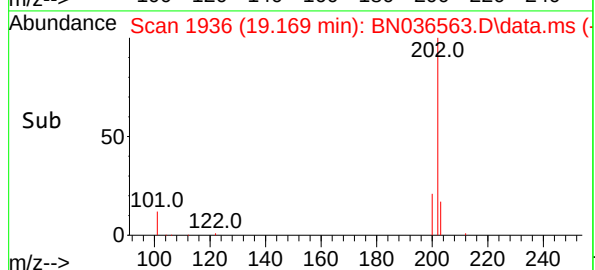
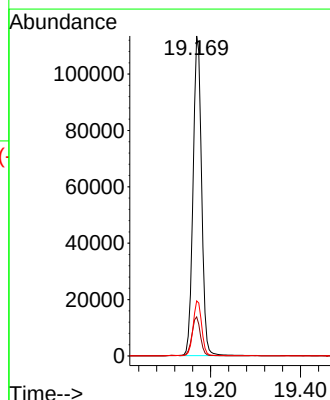
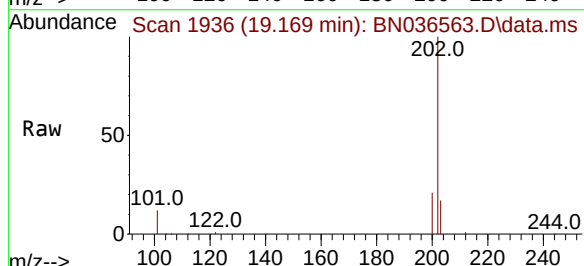
Tgt Ion:202 Resp: 149107

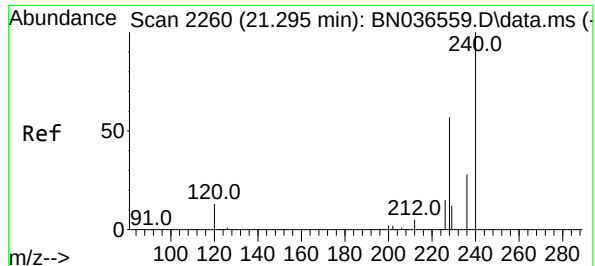
Ion Ratio Lower Upper

202 100

101 12.3 9.4 14.0

203 17.3 13.5 20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.295 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

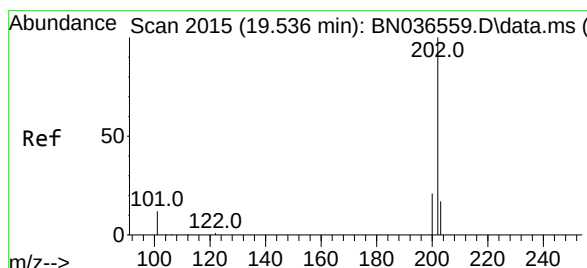
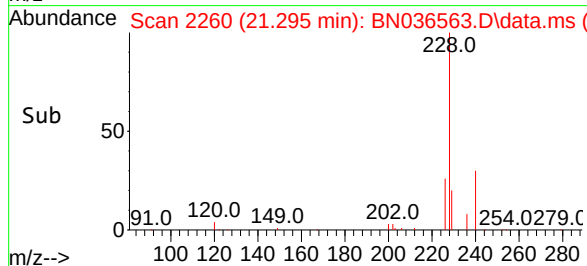
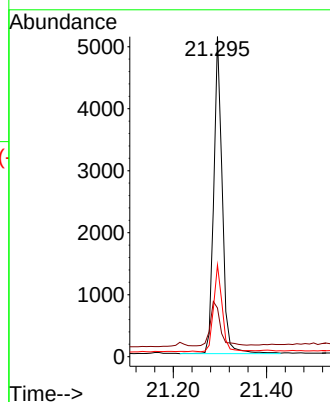
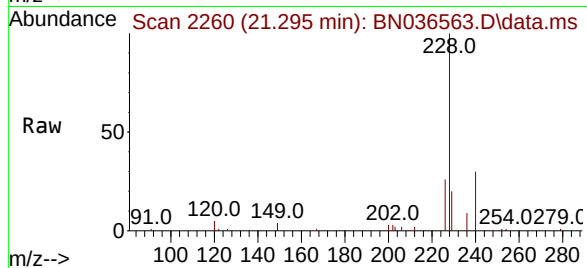
Tgt Ion:240 Resp: 6472

Ion Ratio Lower Upper

240 100

120 15.2 14.6 22.0

236 28.7 24.1 36.1



#30

Pyrene

Concen: 4.695 ng

RT: 19.536 min Scan# 2015

Delta R.T. 0.000 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

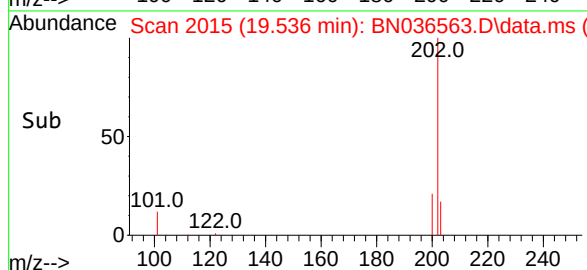
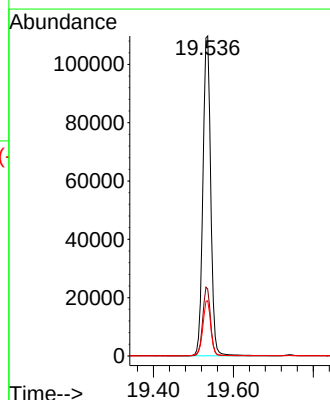
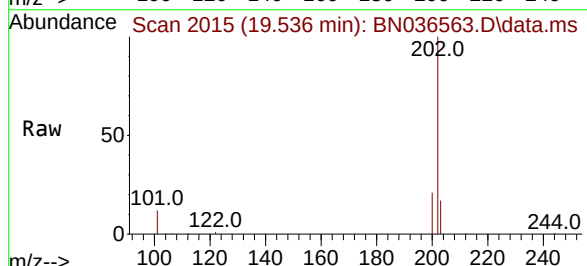
Tgt Ion:202 Resp: 148584

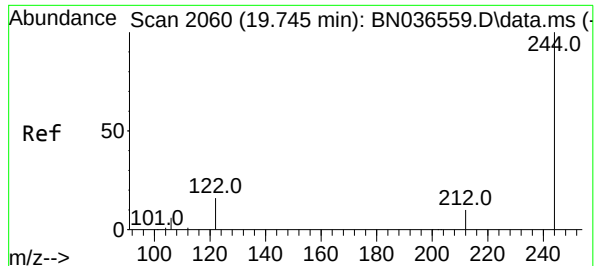
Ion Ratio Lower Upper

202 100

200 21.4 17.1 25.7

203 17.7 14.1 21.1

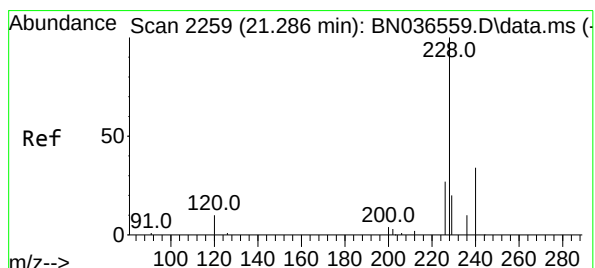
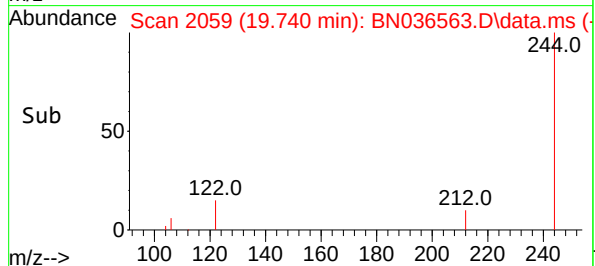
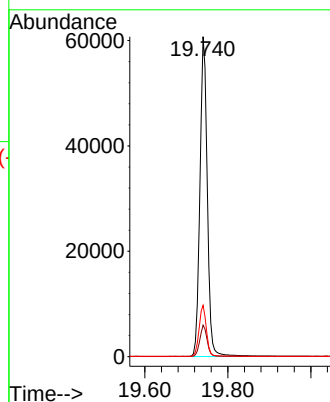
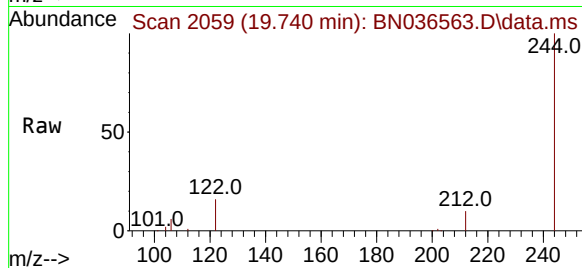




#31
Terphenyl-d14
Concen: 4.832 ng
RT: 19.740 min Scan# 2060
Delta R.T. -0.005 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

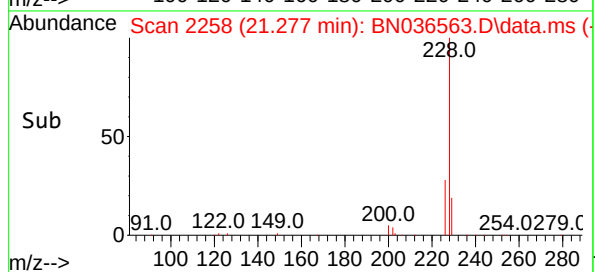
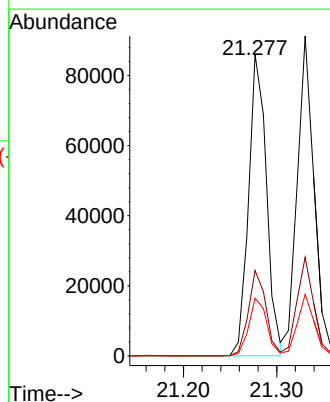
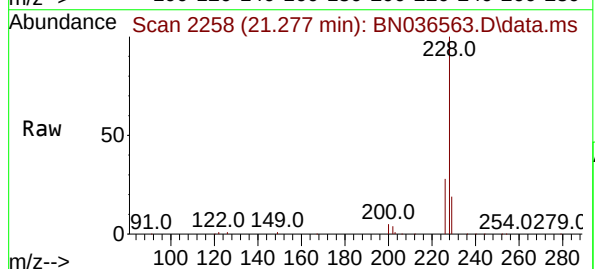
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

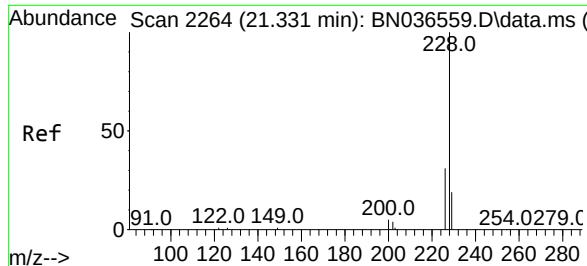
Tgt Ion:244 Resp: 74923
Ion Ratio Lower Upper
244 100
212 9.9 9.6 14.4
122 16.1 13.9 20.9



#32
Benzo(a)anthracene
Concen: 5.087 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.009 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:228 Resp: 114481
Ion Ratio Lower Upper
228 100
226 28.3 22.5 33.7
229 19.2 16.6 25.0





#33

Chrysene

Concen: 4.764 ng

RT: 21.331 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

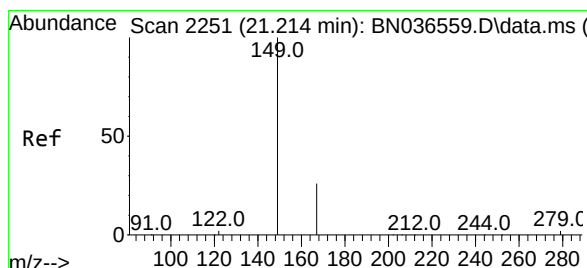
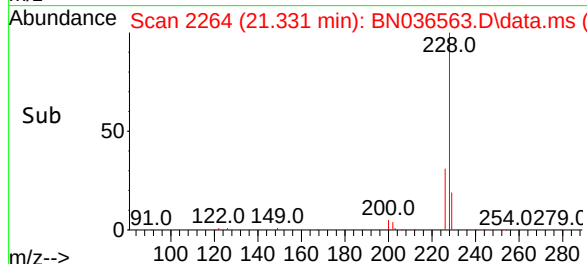
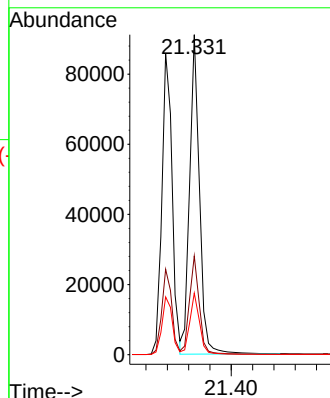
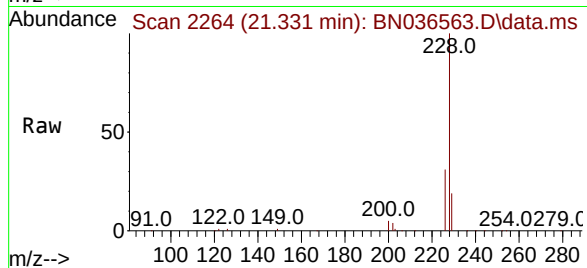
Tgt Ion:228 Resp: 117149

Ion Ratio Lower Upper

228 100

226 30.9 25.3 37.9

229 19.3 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 4.390 ng

RT: 21.214 min Scan# 2251

Delta R.T. -0.000 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

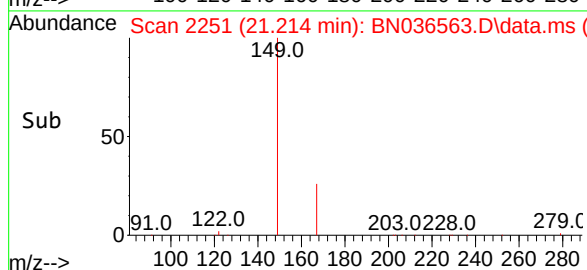
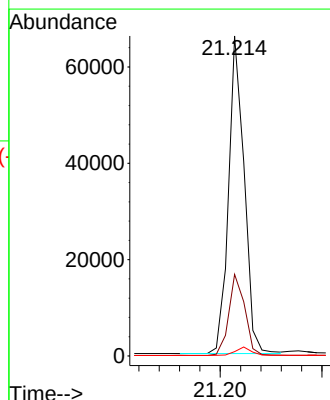
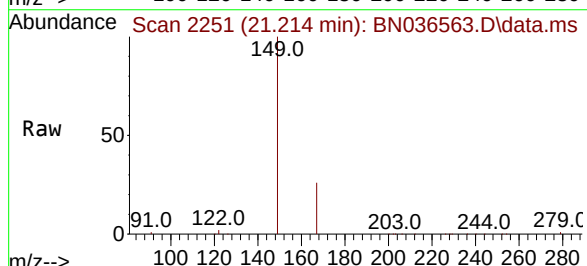
Tgt Ion:149 Resp: 70345

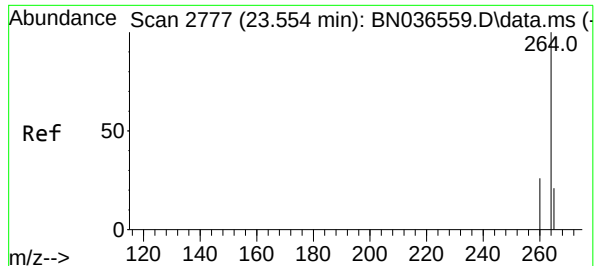
Ion Ratio Lower Upper

149 100

167 26.2 20.7 31.1

279 2.6 3.6 5.4#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.551 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

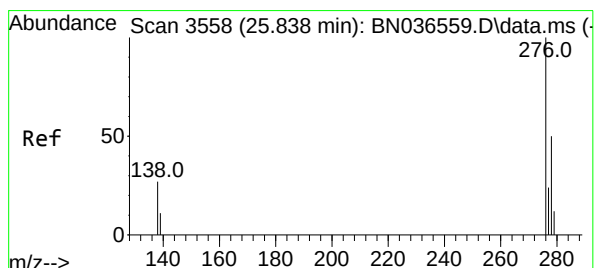
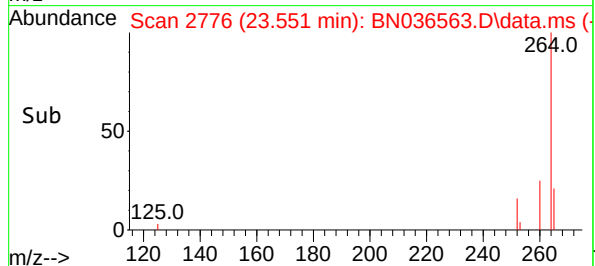
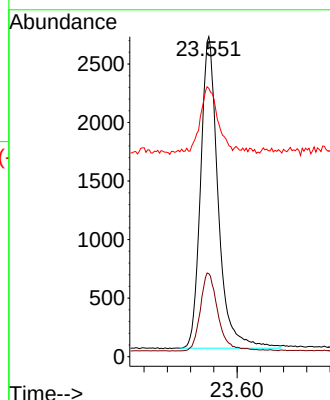
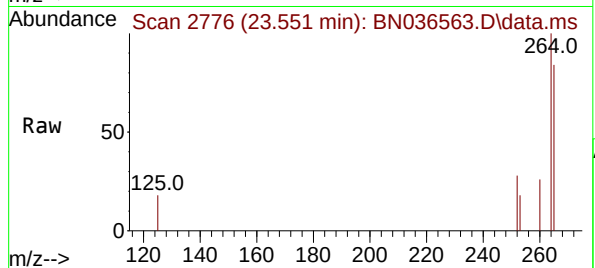
Tgt Ion:264 Resp: 5580

Ion Ratio Lower Upper

264 100

260 25.9 22.6 33.8

265 83.8 88.1 132.1#



#36

Indeno(1,2,3-cd)pyrene

Concen: 5.440 ng

RT: 25.835 min Scan# 3557

Delta R.T. -0.003 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

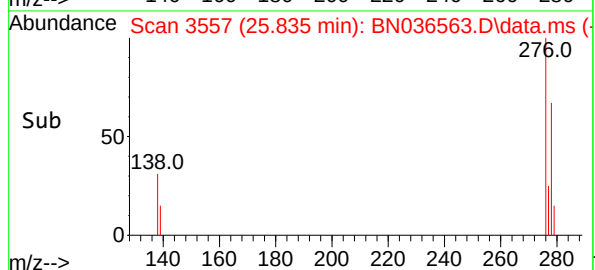
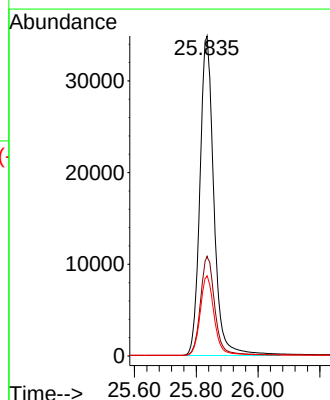
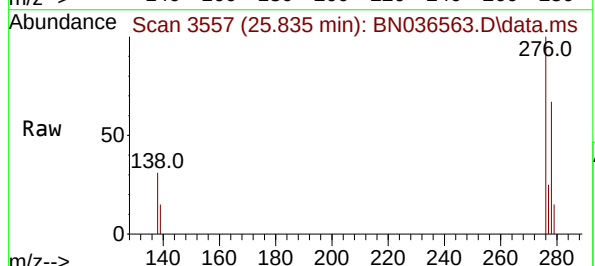
Tgt Ion:276 Resp: 109561

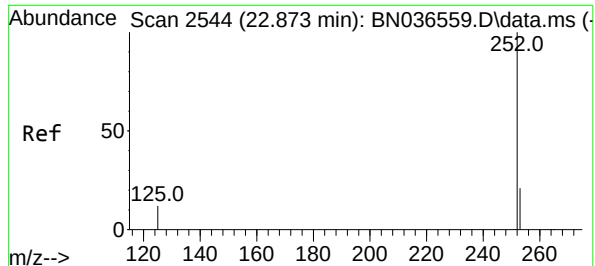
Ion Ratio Lower Upper

276 100

138 31.6 23.4 35.2

277 24.9 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 5.146 ng

RT: 22.873 min Scan# 2544

Delta R.T. -0.000 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

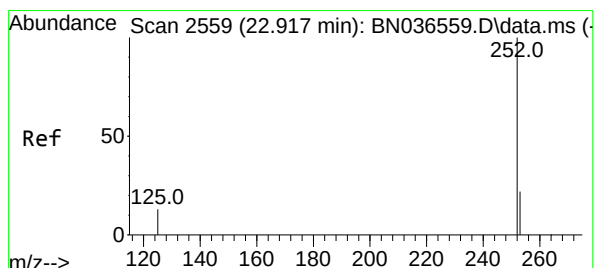
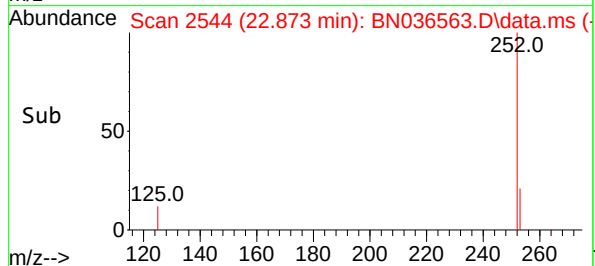
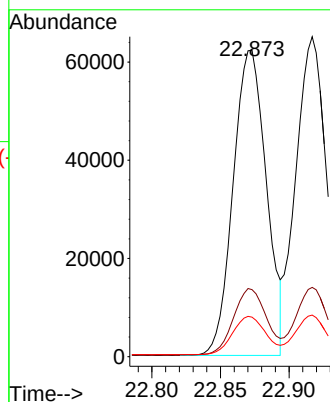
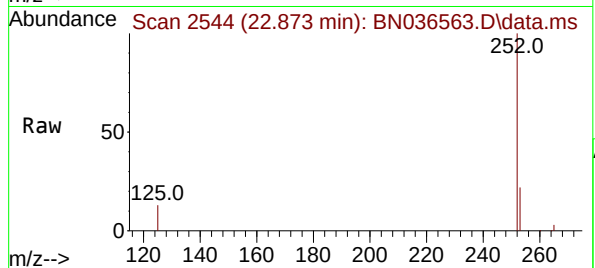
Tgt Ion:252 Resp: 104498

Ion Ratio Lower Upper

252 100

253 21.9 23.9 35.9#

125 12.9 17.4 26.2#



#38

Benzo(k)fluoranthene

Concen: 5.022 ng

RT: 22.917 min Scan# 2559

Delta R.T. 0.000 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

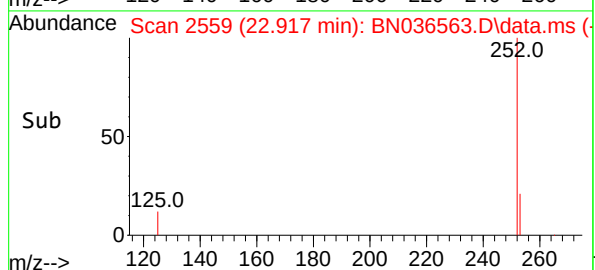
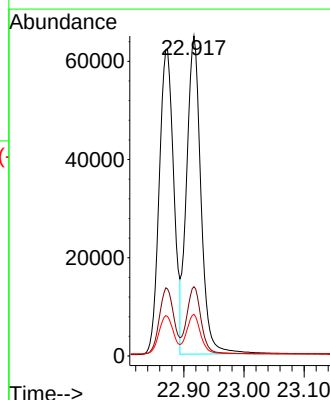
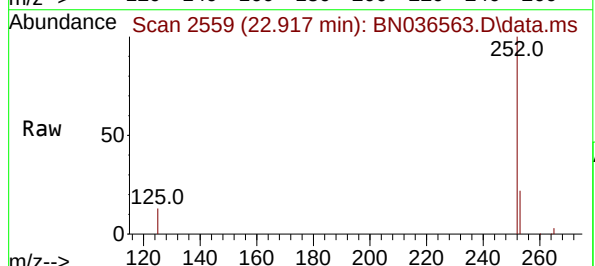
Tgt Ion:252 Resp: 106995

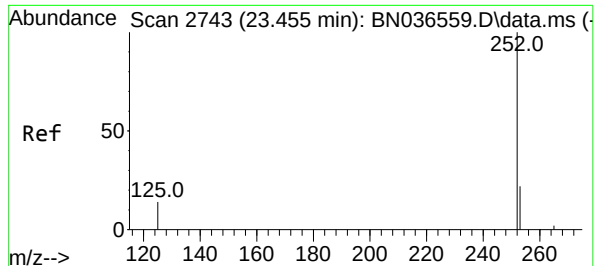
Ion Ratio Lower Upper

252 100

253 21.6 24.6 36.8#

125 13.0 17.8 26.8#





#39

Benzo(a)pyrene

Concen: 5.170 ng

RT: 23.452 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

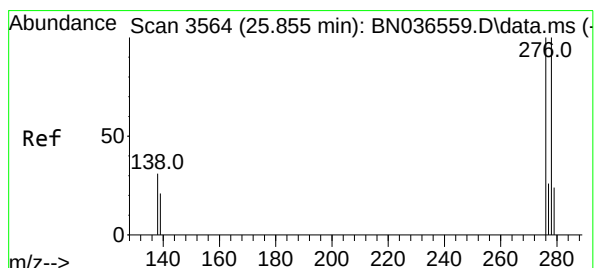
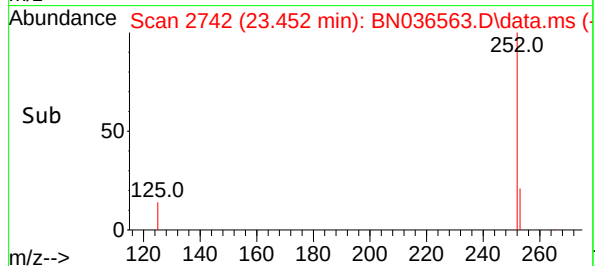
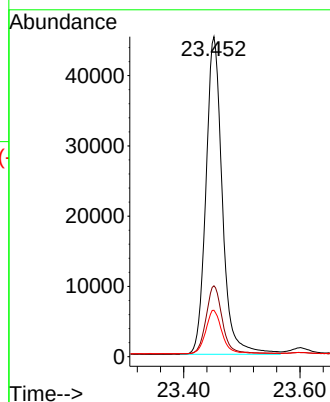
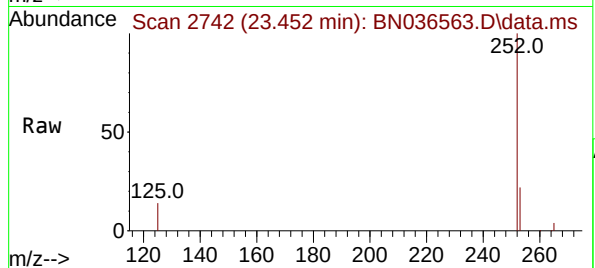
Tgt Ion:252 Resp: 88413

Ion Ratio Lower Upper

252 100

253 22.2 27.8 41.8#

125 14.5 22.7 34.1#



#40

Dibenzo(a,h)anthracene

Concen: 5.568 ng

RT: 25.846 min Scan# 3561

Delta R.T. -0.009 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

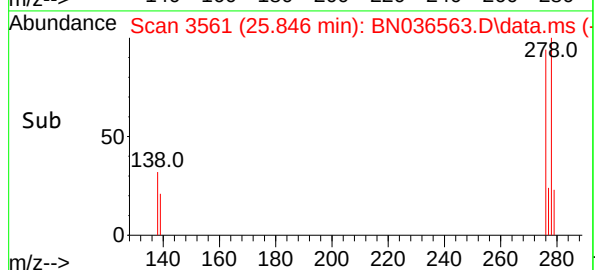
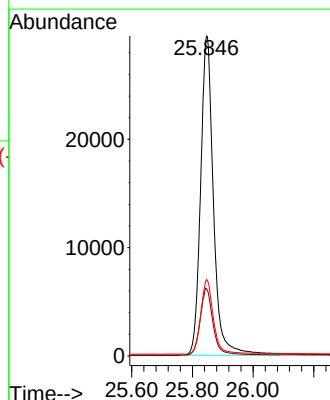
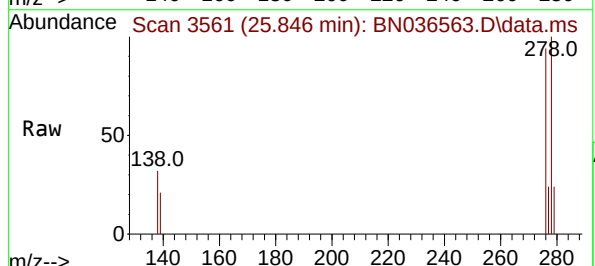
Tgt Ion:278 Resp: 87308

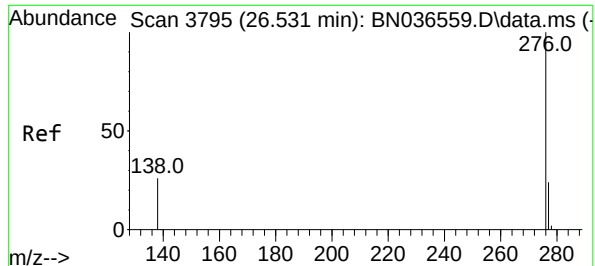
Ion Ratio Lower Upper

278 100

139 21.0 20.8 31.2

279 23.9 28.8 43.2#





#41

Benzo(g,h,i)perylene

Concen: 5.189 ng

RT: 26.531 min Scan# 31

Delta R.T. -0.000 min

Lab File: BN036563.D

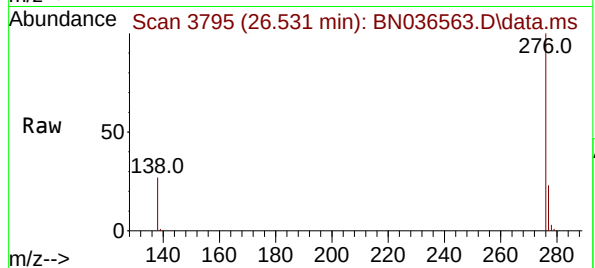
Acq: 10 Mar 2025 15:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0



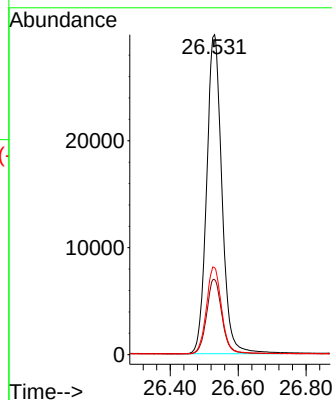
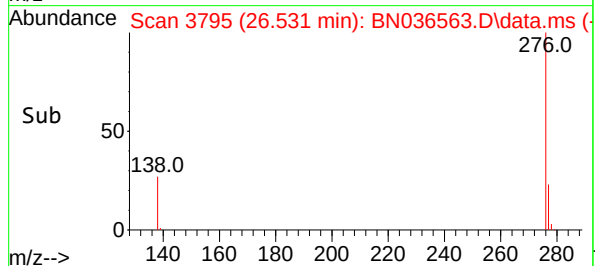
Tgt Ion:276 Resp: 93067

Ion Ratio Lower Upper

276 100

277 23.4 22.2 33.4

138 27.1 24.1 36.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
 Data File : BN036564.D
 Acq On : 10 Mar 2025 16:38
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN031025

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

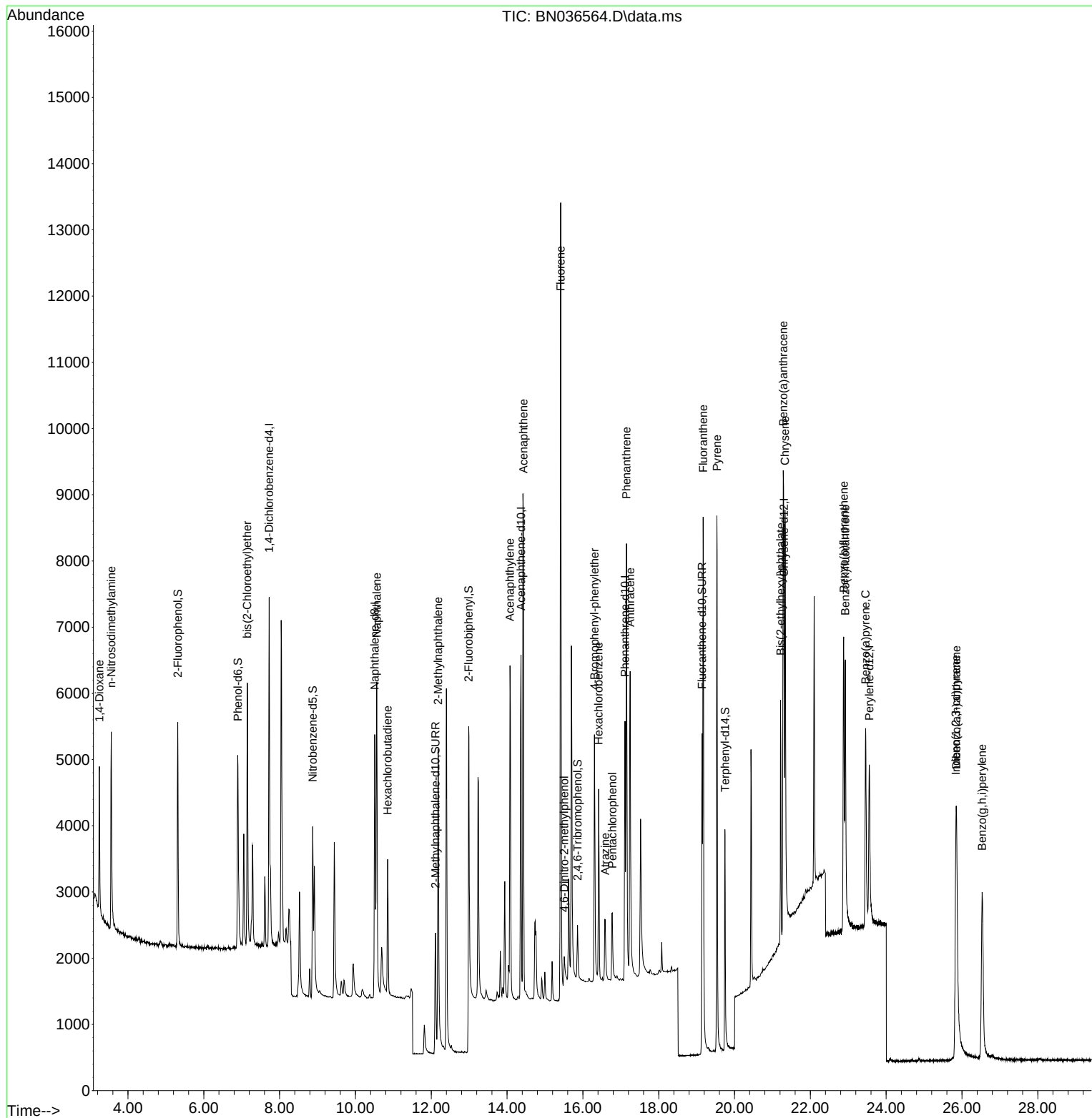
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2488	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	5634	0.400	ng	0.00
13) Acenaphthene-d10	14.366	164	3085	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	5778	0.400	ng	0.00
29) Chrysene-d12	21.304	240	4219	0.400	ng	0.00
35) Perylene-d12	23.554	264	3835	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	2418	0.417	ng	0.00
5) Phenol-d6	6.901	99	2744	0.383	ng	0.00
8) Nitrobenzene-d5	8.875	82	2356	0.384	ng	0.00
11) 2-Methylnaphthalene-d10	12.111	152	3345	0.399	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	511	0.365	ng	0.00
15) 2-Fluorobiphenyl	12.988	172	7753	0.432	ng	0.00
27) Fluoranthene-d10	19.141	212	6152	0.415	ng	0.00
31) Terphenyl-d14	19.750	244	3880	0.384	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.247	88	1297	0.470	ng	97
3) n-Nitrosodimethylamine	3.557	42	2284	0.409	ng	96
6) bis(2-Chloroethyl)ether	7.147	93	2945	0.398	ng	100
9) Naphthalene	10.562	128	6710	0.405	ng	99
10) Hexachlorobutadiene	10.850	225	1694	0.434	ng	# 98
12) 2-Methylnaphthalene	12.182	142	4064	0.385	ng	99
16) Acenaphthylene	14.077	152	6059	0.416	ng	99
17) Acenaphthene	14.430	154	4035	0.423	ng	99
18) Fluorene	15.414	166	5226	0.405	ng	99
20) 4,6-Dinitro-2-methylph...	15.510	198	404	0.420	ng	94
21) 4-Bromophenyl-phenylether	16.304	248	1524	0.421	ng	96
22) Hexachlorobenzene	16.416	284	1987	0.455	ng	99
23) Atrazine	16.590	200	1165	0.401	ng	95
24) Pentachlorophenol	16.776	266	699	0.351	ng	95
25) Phenanthrene	17.148	178	7229	0.417	ng	99
26) Anthracene	17.248	178	6358	0.407	ng	99
28) Fluoranthene	19.174	202	8068	0.414	ng	100
30) Pyrene	19.536	202	8156	0.395	ng	100
32) Benzo(a)anthracene	21.286	228	5814	0.396	ng	100
33) Chrysene	21.331	228	6940	0.433	ng	98
34) Bis(2-ethylhexyl)phtha...	21.214	149	3594	0.344	ng	98
36) Indeno(1,2,3-cd)pyrene	25.841	276	6410	0.463	ng	98
37) Benzo(b)fluoranthene	22.879	252	5902	0.423	ng	99
38) Benzo(k)fluoranthene	22.923	252	6286	0.429	ng	98
39) Benzo(a)pyrene	23.458	252	5147	0.438	ng	99
40) Dibenzo(a,h)anthracene	25.855	278	4740	0.440	ng	97
41) Benzo(g,h,i)perylene	26.534	276	5877	0.477	ng	97

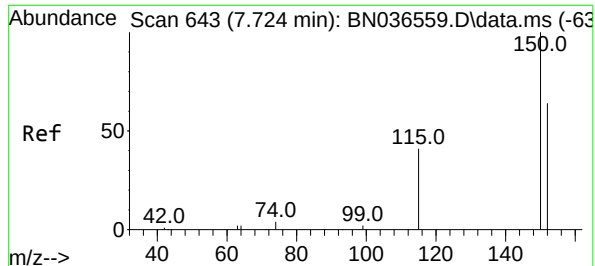
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036564.D
Acq On : 10 Mar 2025 16:38
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

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

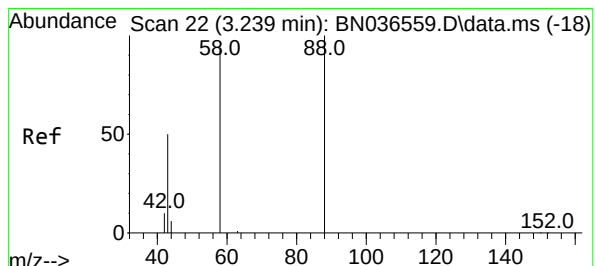
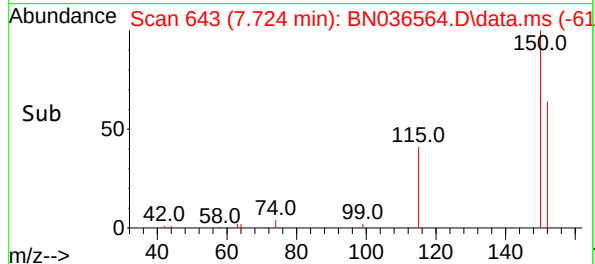
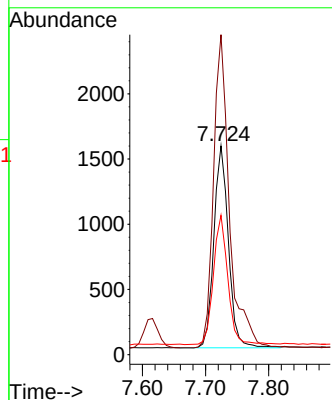
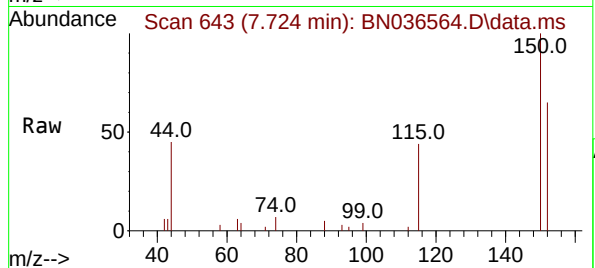




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

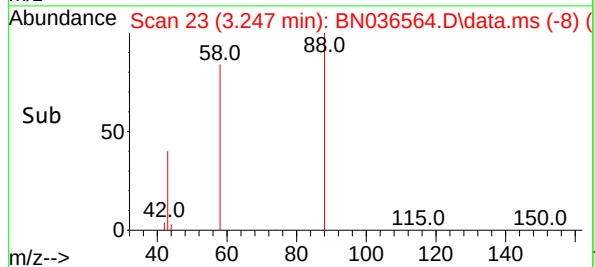
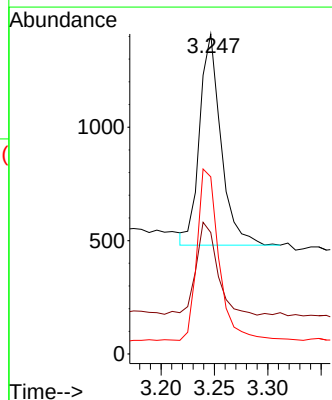
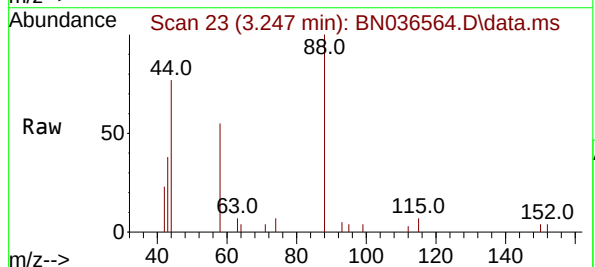
Instrument :
BNA_N
ClientSampleId :
ICVBN031025

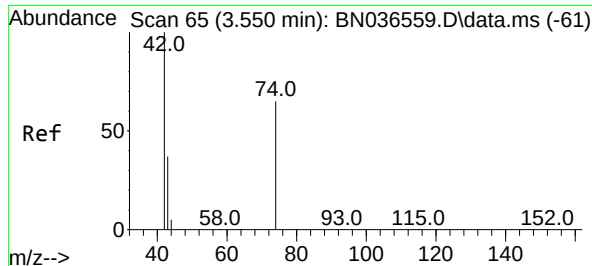
Tgt Ion:152 Resp: 2488
Ion Ratio Lower Upper
152 100
150 153.3 123.7 185.5
115 66.7 54.3 81.5



#2
1,4-Dioxane
Concen: 0.470 ng
RT: 3.247 min Scan# 23
Delta R.T. 0.008 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion: 88 Resp: 1297
Ion Ratio Lower Upper
88 100
43 44.1 37.8 56.8
58 82.4 67.4 101.2

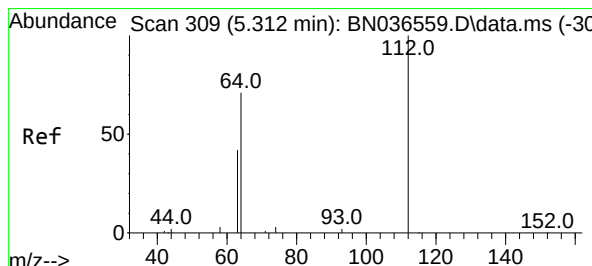
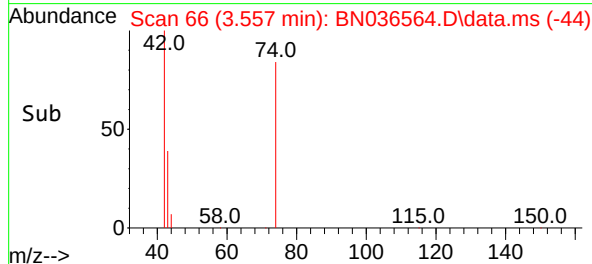
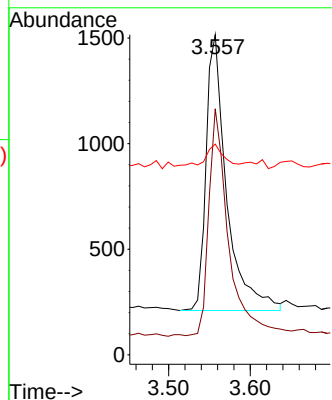
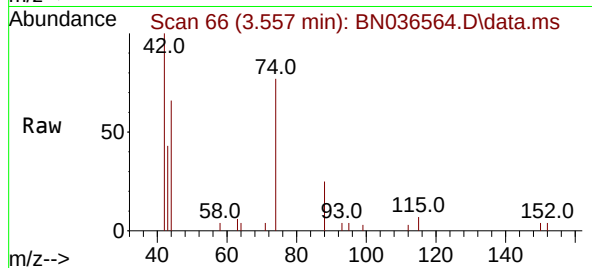




#3
n-Nitrosodimethylamine
Concen: 0.409 ng
RT: 3.557 min Scan# 60
Delta R.T. 0.007 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

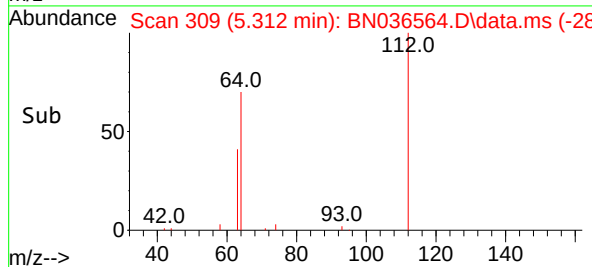
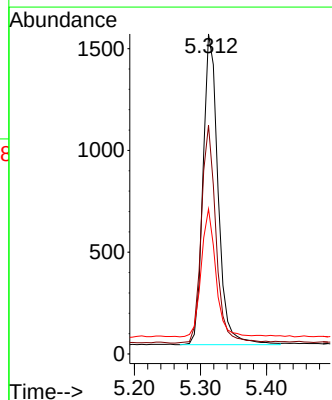
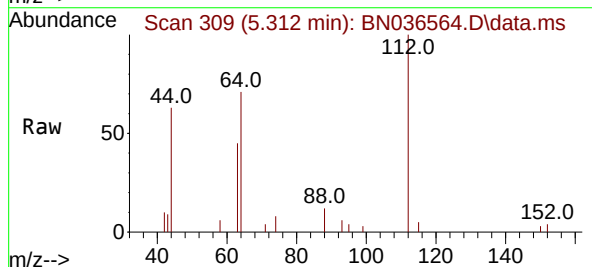
Instrument :
BNA_N
ClientSampleId :
ICVBN031025

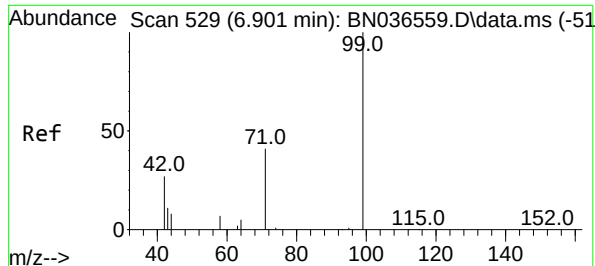
Tgt Ion: 42 Resp: 2284
Ion Ratio Lower Upper
42 100
74 79.2 60.6 90.8
44 8.2 6.3 9.5



#4
2-Fluorophenol
Concen: 0.417 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion: 112 Resp: 2418
Ion Ratio Lower Upper
112 100
64 68.2 53.1 79.7
63 39.8 31.8 47.8

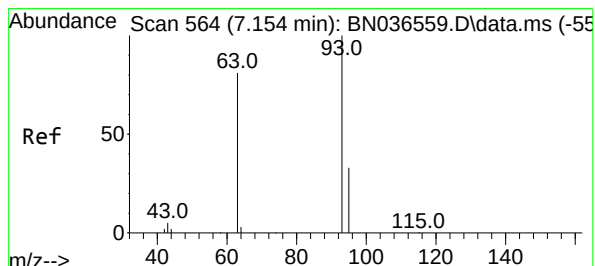
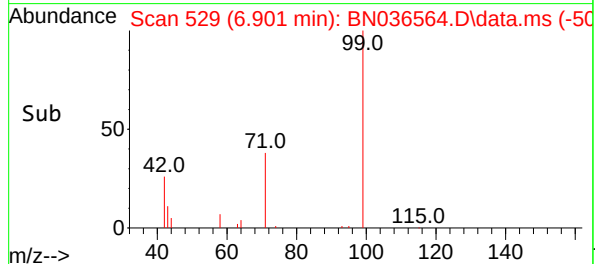
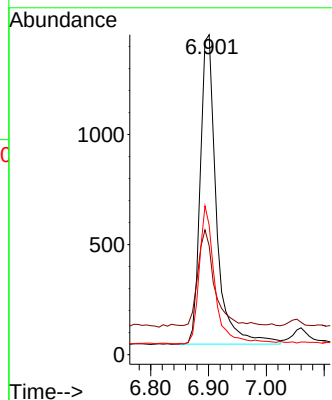
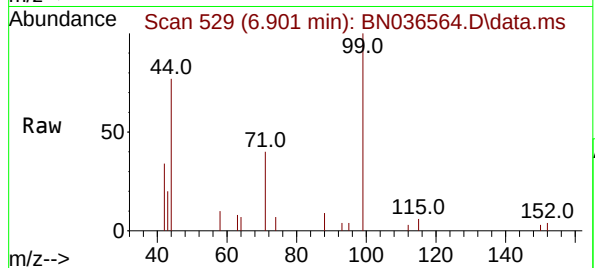




#5
Phenol-d6
Concen: 0.383 ng
RT: 6.901 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

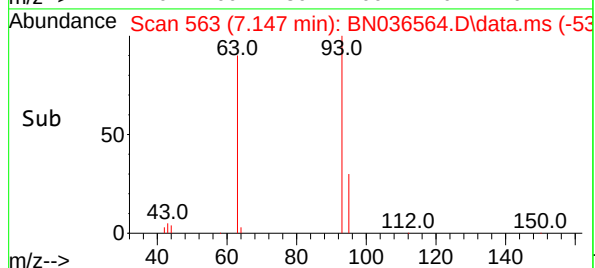
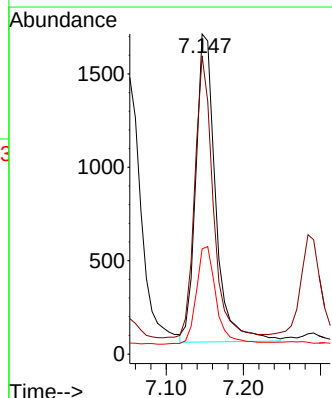
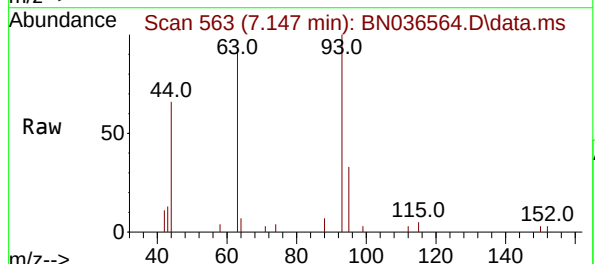
Instrument :
BNA_N
ClientSampleId :
ICVBN031025

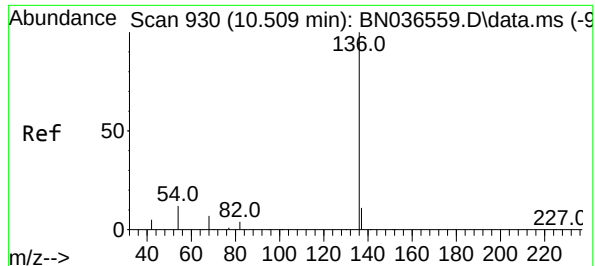
Tgt Ion: 99 Resp: 2744
Ion Ratio Lower Upper
99 100
42 32.1 26.5 39.7
71 42.9 34.1 51.1



#6
bis(2-Chloroethyl)ether
Concen: 0.398 ng
RT: 7.147 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion: 93 Resp: 2945
Ion Ratio Lower Upper
93 100
63 85.1 67.7 101.5
95 31.7 25.6 38.4

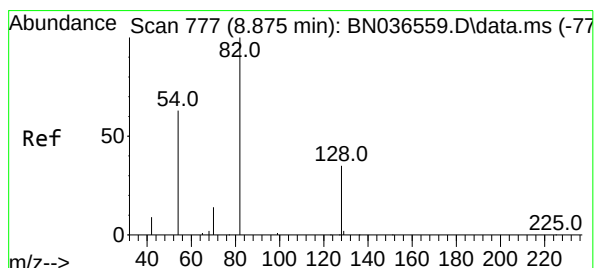
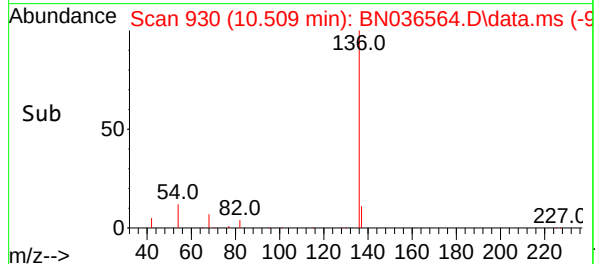
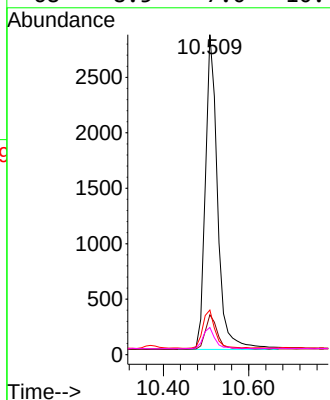
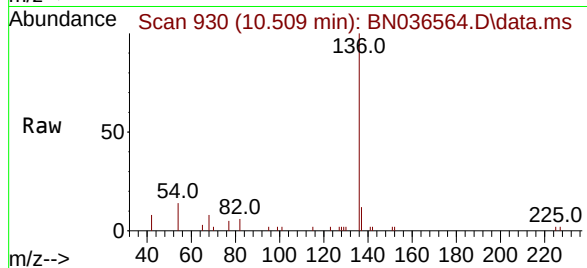




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

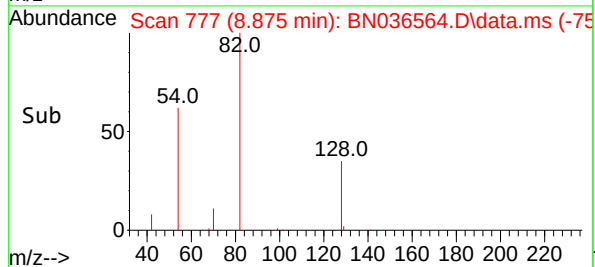
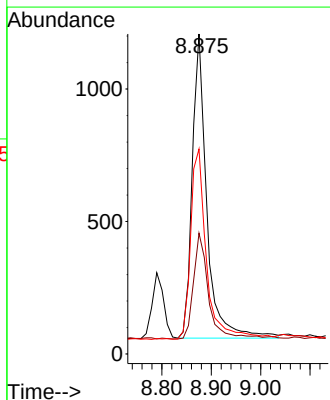
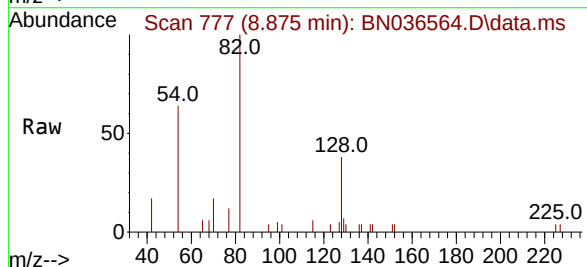
Instrument :
BNA_N
ClientSampleId :
ICVBN031025

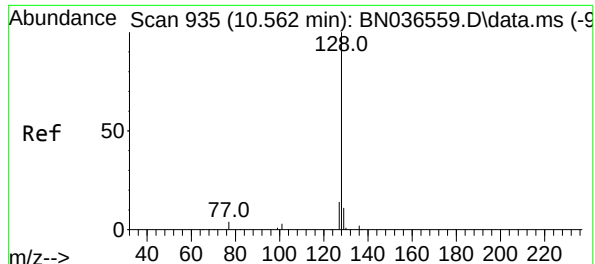
Tgt Ion:	136	Resp:	5634
Ion	Ratio	Lower	Upper
136	100		
137	12.4	10.3	15.5
54	13.9	11.5	17.3
68	8.5	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.384 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:	82	Resp:	2356
Ion	Ratio	Lower	Upper
82	100		
128	37.7	30.6	45.8
54	64.1	52.2	78.4





#9

Naphthalene

Concen: 0.405 ng

RT: 10.562 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

Instrument :

BNA_N

ClientSampleId :

ICVBN031025

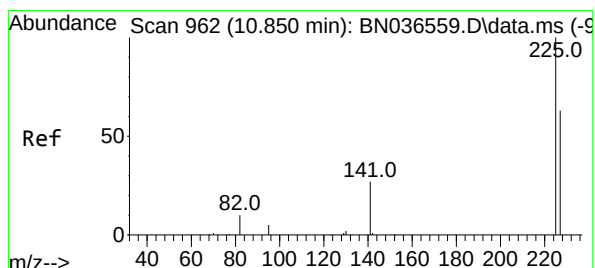
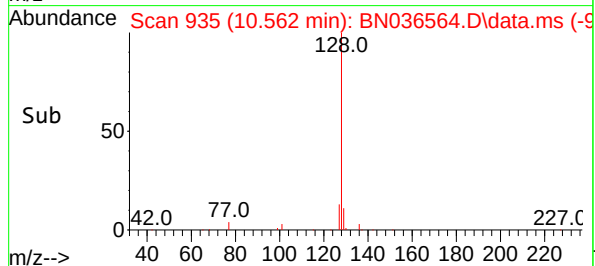
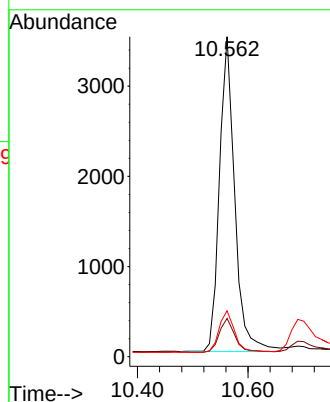
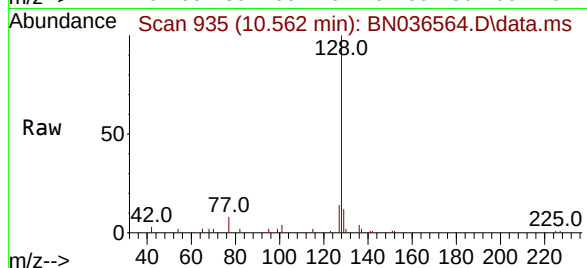
Tgt Ion:128 Resp: 6710

Ion Ratio Lower Upper

128 100

129 11.9 9.8 14.6

127 14.3 11.8 17.8



#10

Hexachlorobutadiene

Concen: 0.434 ng

RT: 10.850 min Scan# 962

Delta R.T. 0.000 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

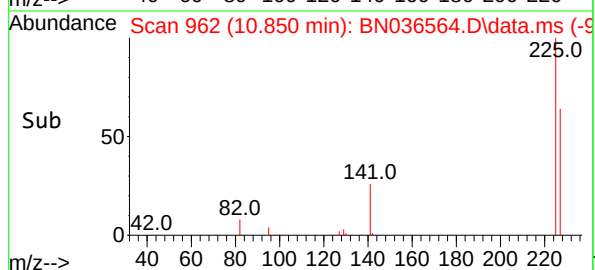
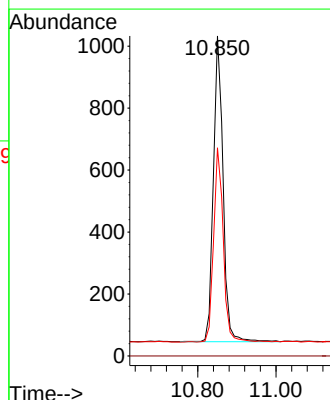
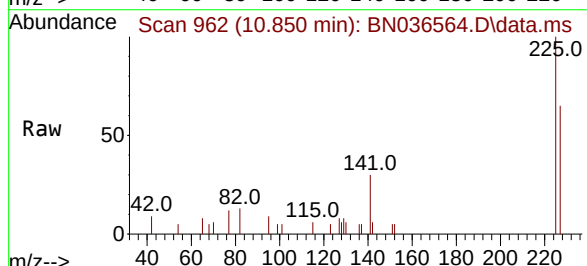
Tgt Ion:225 Resp: 1694

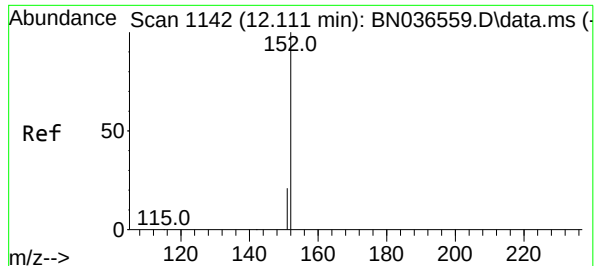
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.5 51.8 77.8

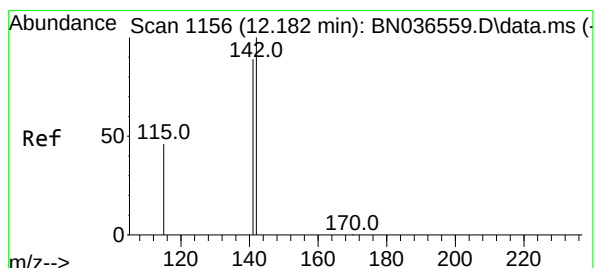
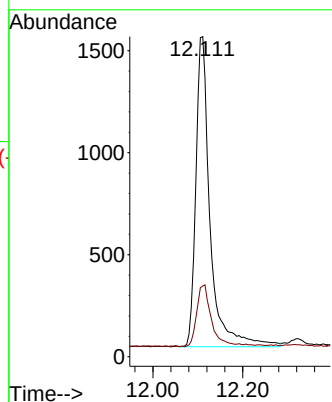
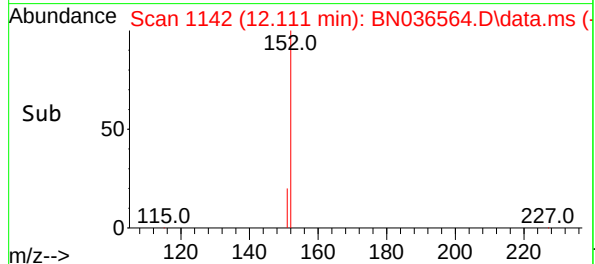
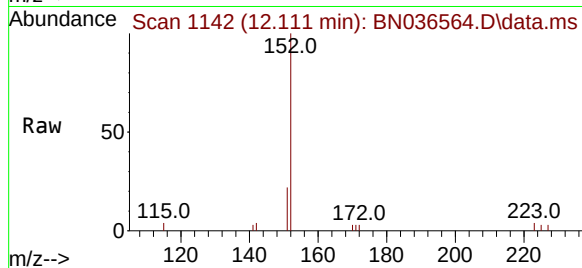




#11
2-Methylnaphthalene-d10
Concen: 0.399 ng
RT: 12.111 min Scan# 1142
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

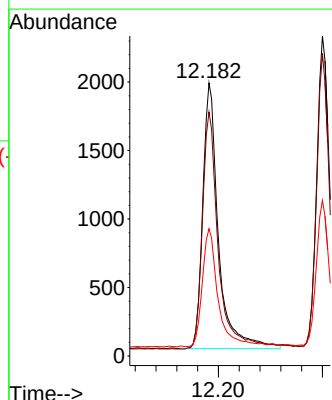
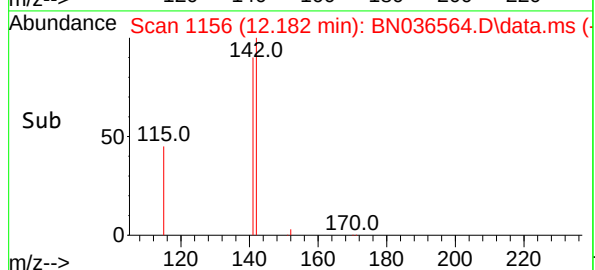
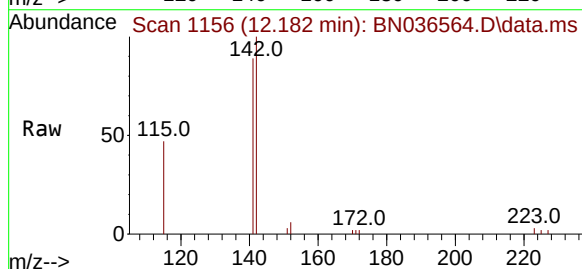
Instrument :
BNA_N
ClientSampleId :
ICVBN031025

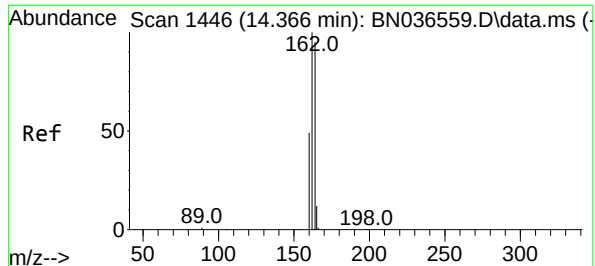
Tgt Ion:152 Resp: 3345
Ion Ratio Lower Upper
152 100
151 20.2 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.385 ng
RT: 12.182 min Scan# 1156
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:142 Resp: 4064
Ion Ratio Lower Upper
142 100
141 89.4 71.7 107.5
115 46.6 38.3 57.5

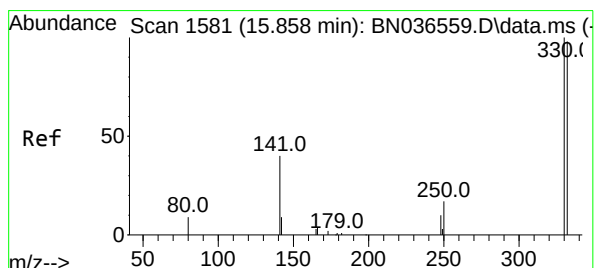
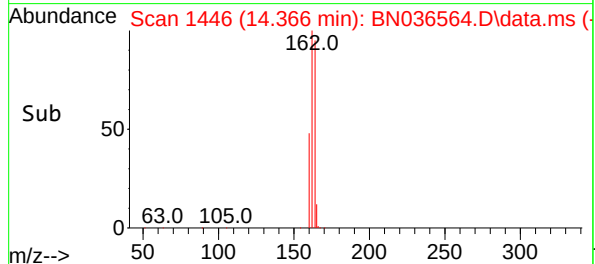
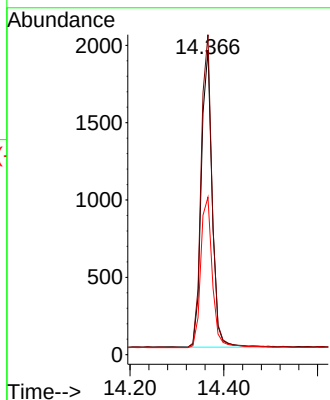
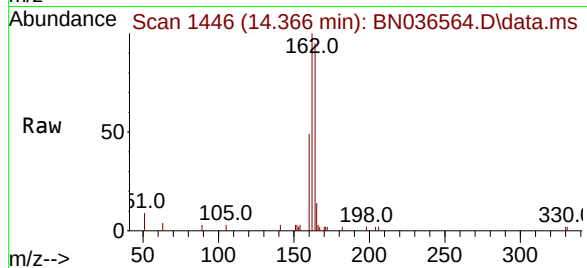




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

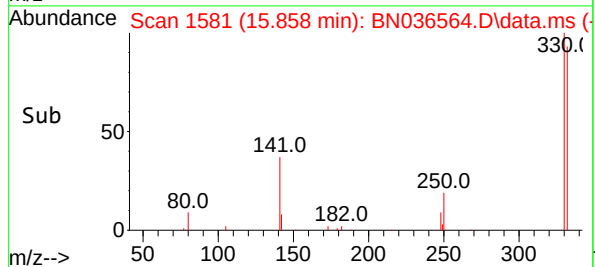
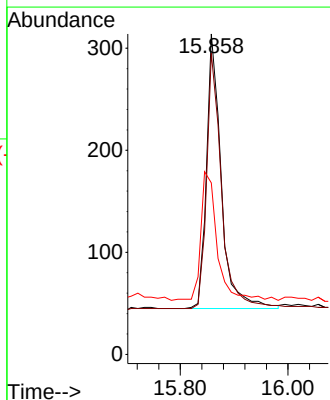
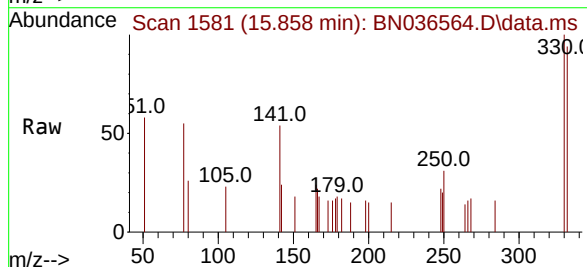
Instrument :
BNA_N
ClientSampleId :
ICVBN031025

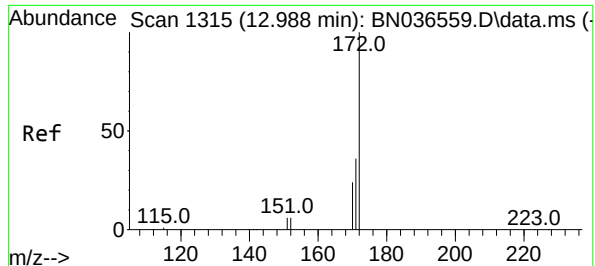
Tgt Ion	164	Resp	3085
Ion	Ratio	Lower	Upper
164	100		
162	105.0	84.2	126.2
160	51.7	42.2	63.2



#14
2,4,6-Tribromophenol
Concen: 0.365 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion	330	Resp	511
Ion	Ratio	Lower	Upper
330	100		
332	93.9	75.2	112.8
141	51.5	43.4	65.2





#15

2-Fluorobiphenyl

Concen: 0.432 ng

RT: 12.988 min Scan# 1315

Delta R.T. 0.000 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

Instrument :

BNA_N

ClientSampleId :

ICVBN031025

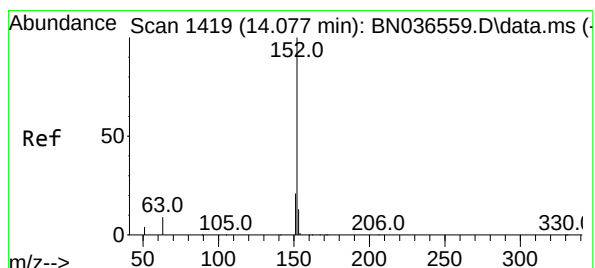
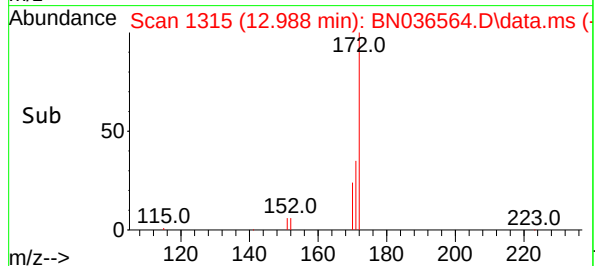
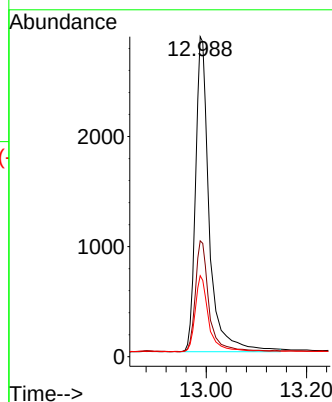
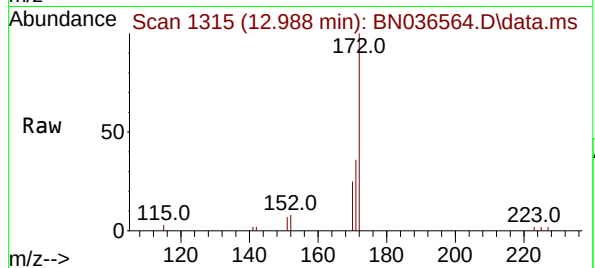
Tgt Ion:172 Resp: 7753

Ion Ratio Lower Upper

172 100

171 36.2 29.5 44.3

170 25.3 20.2 30.4



#16

Acenaphthylene

Concen: 0.416 ng

RT: 14.077 min Scan# 1419

Delta R.T. 0.000 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

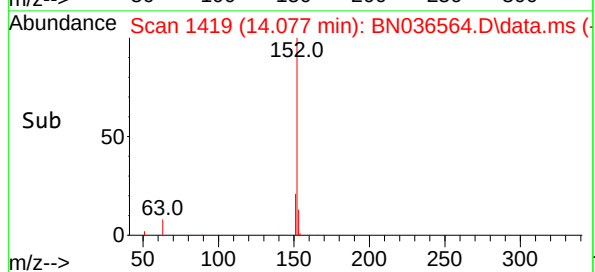
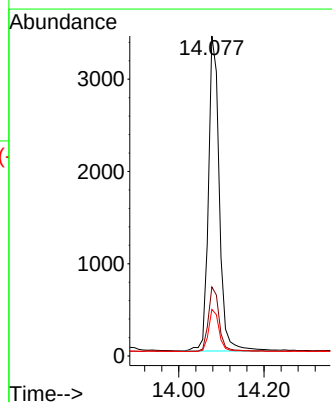
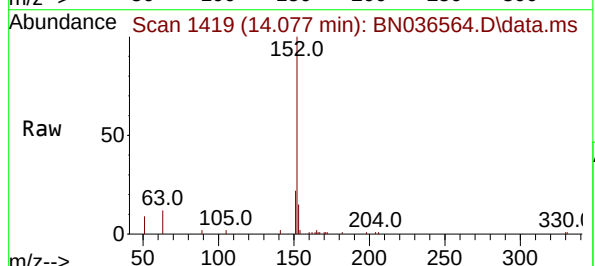
Tgt Ion:152 Resp: 6059

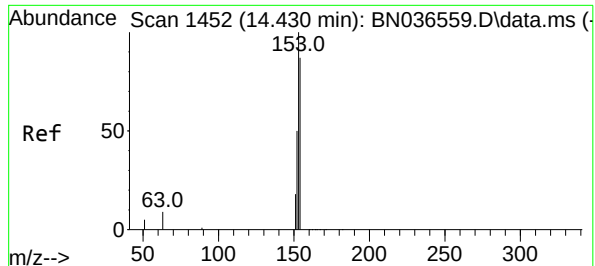
Ion Ratio Lower Upper

152 100

151 20.1 16.2 24.4

153 12.9 10.6 15.8

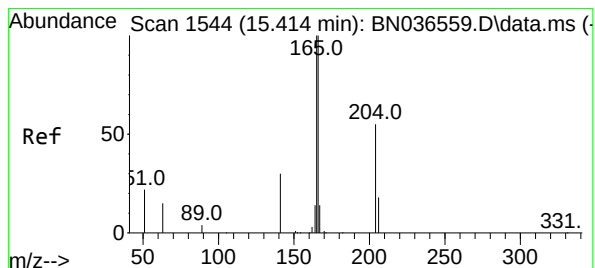
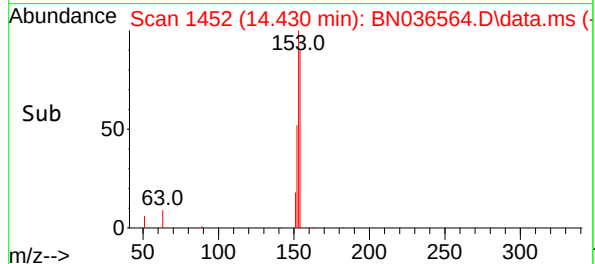
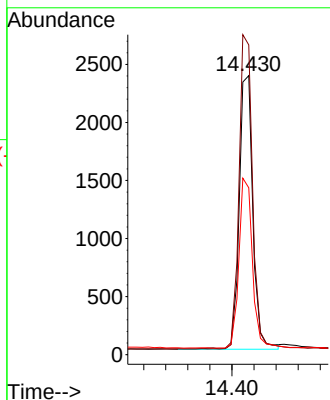
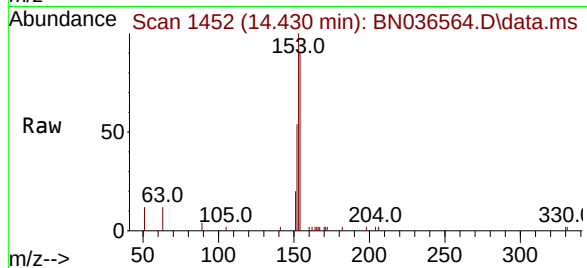




#17
Acenaphthene
Concen: 0.423 ng
RT: 14.430 min Scan# 1452
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

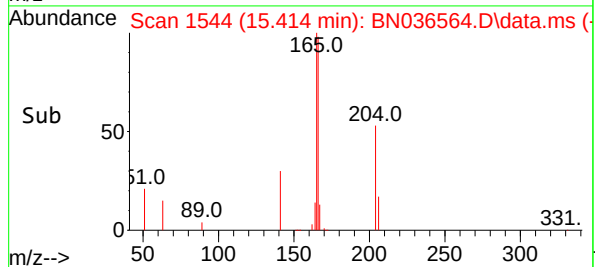
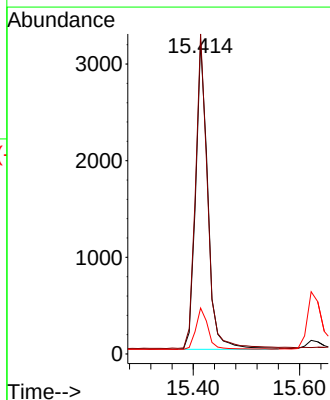
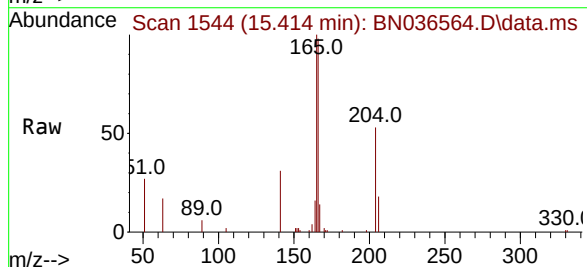
Instrument :
BNA_N
ClientSampleId :
ICVBN031025

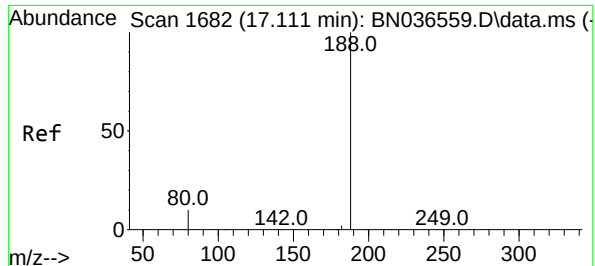
Tgt Ion	154	153	152
Resp:	4035	115.5	61.9
Ion Ratio	100	94.1	49.8
Lower			
Upper		141.1	74.6



#18
Fluorene
Concen: 0.405 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion	166	165	167
Resp:	5226	101.1	13.1
Ion Ratio	100	79.8	10.6
Lower			
Upper		119.8	15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.111 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

Instrument :

BNA_N

ClientSampleId :

ICVBN031025

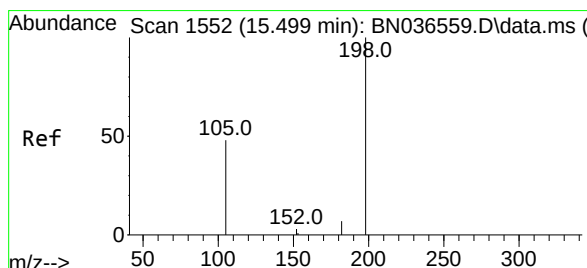
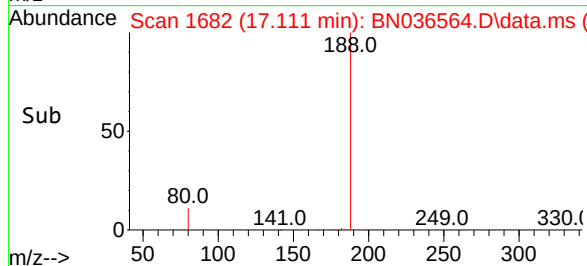
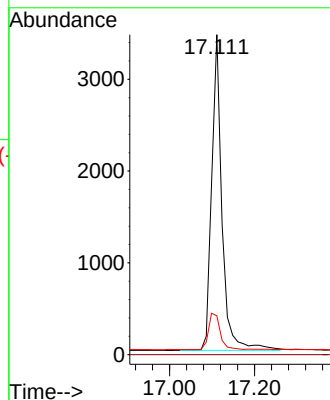
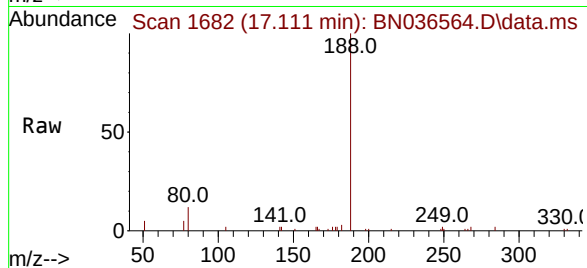
Tgt Ion:188 Resp: 5778

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 12.2 8.8 13.2



#20

4,6-Dinitro-2-methylphenol

Concen: 0.420 ng

RT: 15.510 min Scan# 1553

Delta R.T. 0.011 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

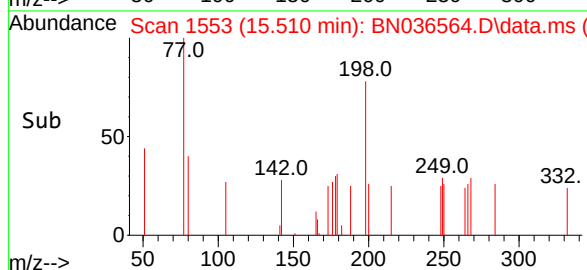
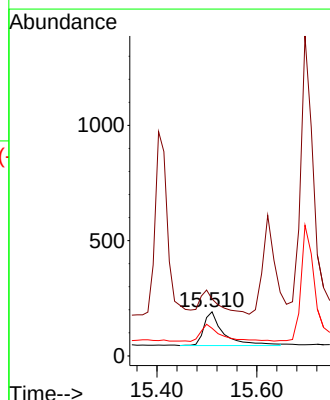
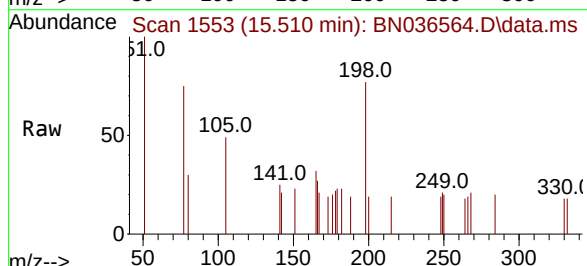
Tgt Ion:198 Resp: 404

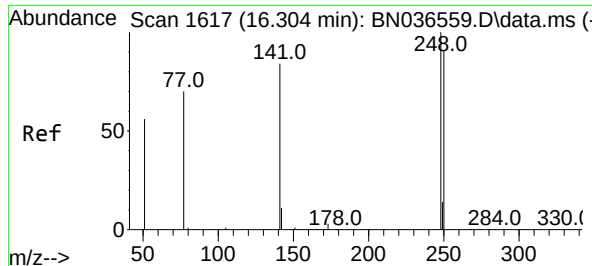
Ion Ratio Lower Upper

198 100

51 129.3 107.9 161.9

105 62.8 56.2 84.2

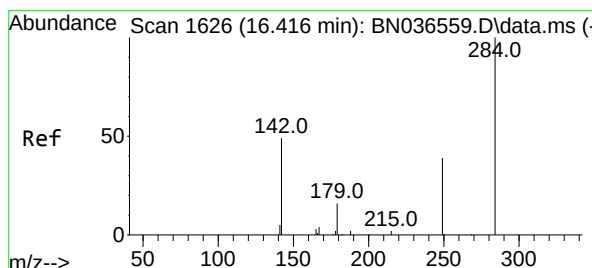
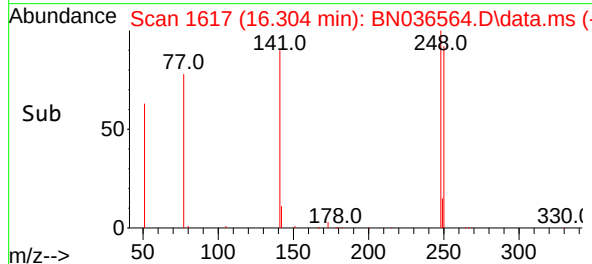
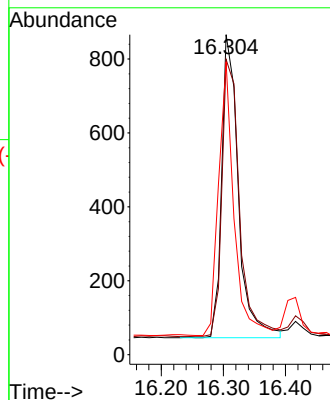
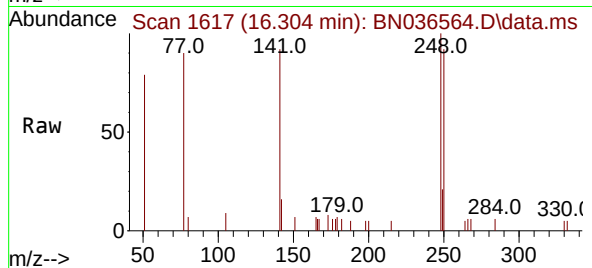




#21
4-Bromophenyl-phenylether
Concen: 0.421 ng
RT: 16.304 min Scan# 1617
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

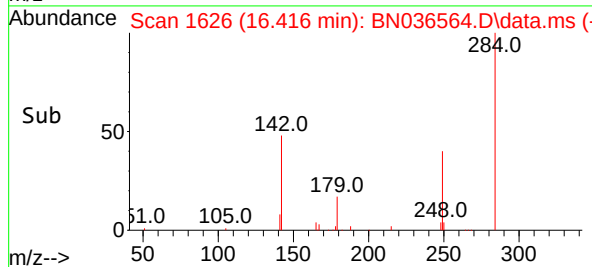
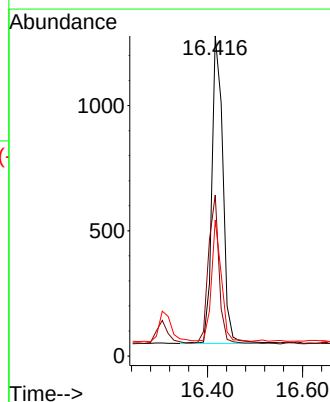
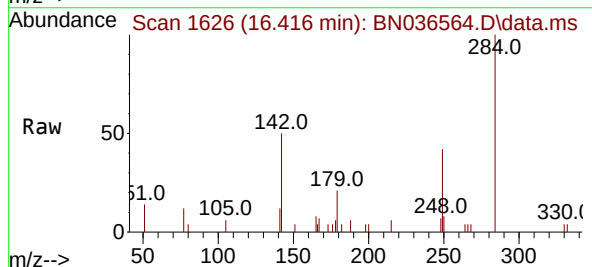
Instrument :
BNA_N
ClientSampleId :
ICVBN031025

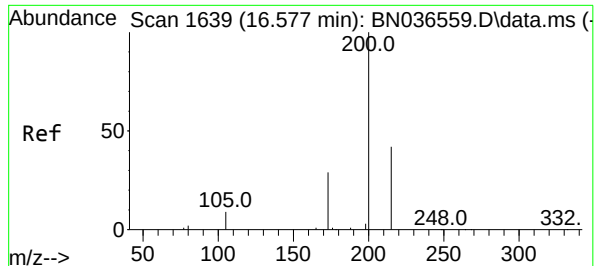
Tgt Ion	Ratio	Lower	Upper
248	100		
250	92.3	73.0	109.6
141	91.6	68.6	103.0



#22
Hexachlorobenzene
Concen: 0.455 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion	Ratio	Lower	Upper
284	100		
142	47.5	37.0	55.4
249	34.9	28.1	42.1





#23

Atrazine

Concen: 0.401 ng

RT: 16.590 min Scan# 1

Delta R.T. 0.012 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

Instrument :

BNA_N

ClientSampleId :

ICVBN031025

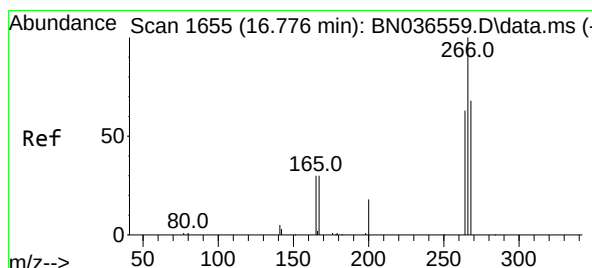
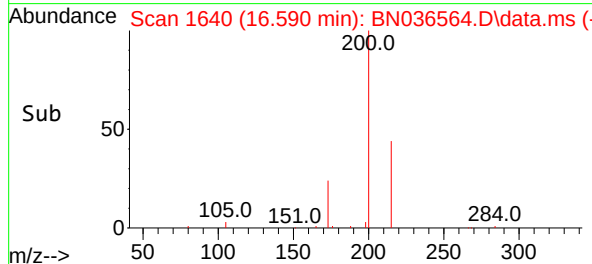
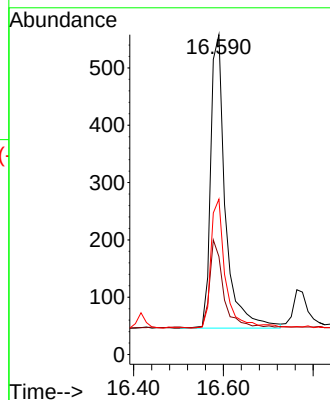
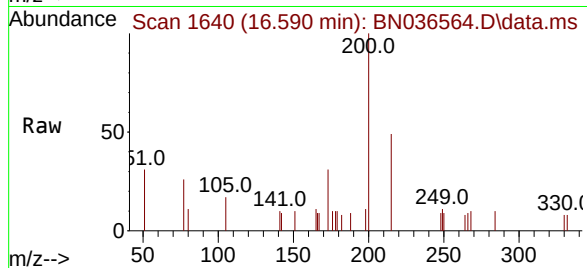
Tgt Ion:200 Resp: 1165

Ion Ratio Lower Upper

200 100

173 30.6 27.3 40.9

215 48.6 36.8 55.2



#24

Pentachlorophenol

Concen: 0.351 ng

RT: 16.776 min Scan# 1655

Delta R.T. 0.000 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

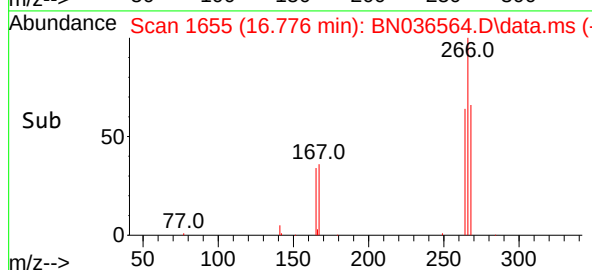
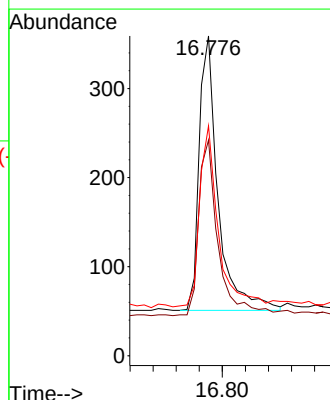
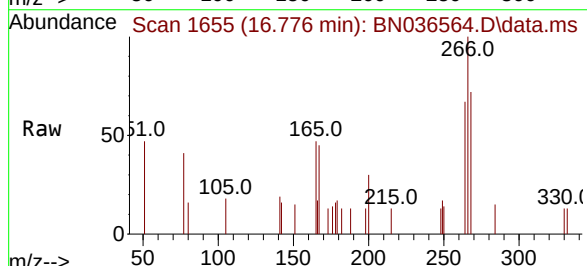
Tgt Ion:266 Resp: 699

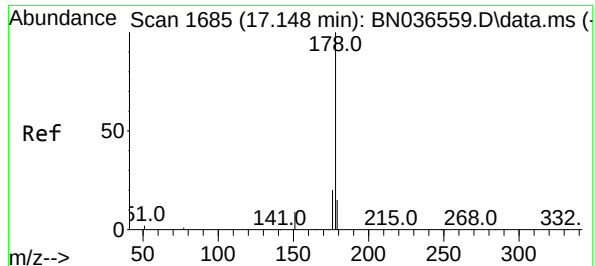
Ion Ratio Lower Upper

266 100

264 67.1 49.6 74.4

268 66.7 50.9 76.3





#25

Phenanthrene

Concen: 0.417 ng

RT: 17.148 min Scan# 1685

Delta R.T. 0.000 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

Instrument :

BNA_N

ClientSampleId :

ICVBN031025

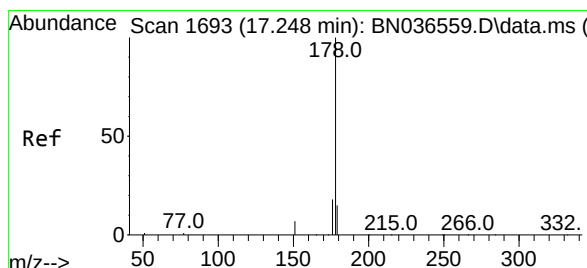
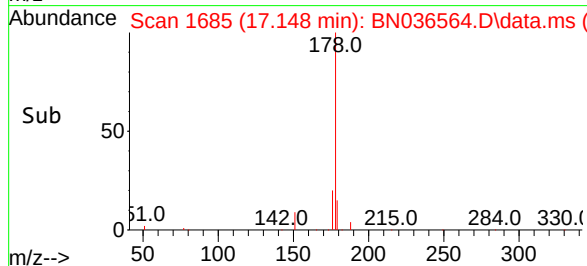
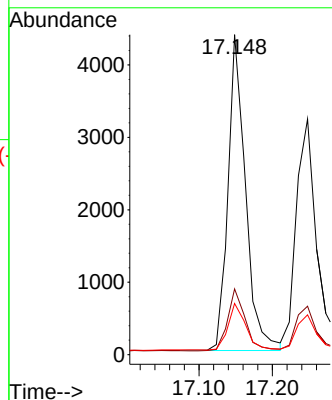
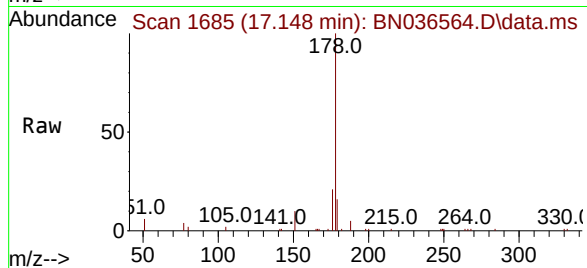
Tgt Ion:178 Resp: 7229

Ion Ratio Lower Upper

178 100

176 19.8 15.9 23.9

179 15.0 12.2 18.4



#26

Anthracene

Concen: 0.407 ng

RT: 17.248 min Scan# 1693

Delta R.T. 0.000 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

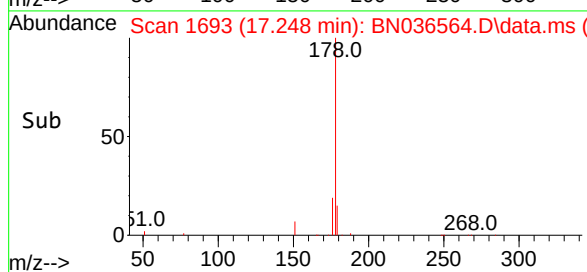
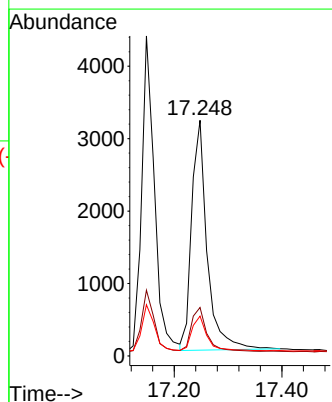
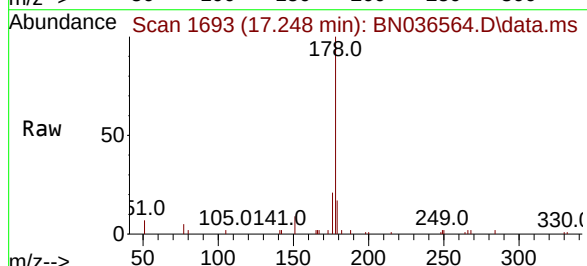
Tgt Ion:178 Resp: 6358

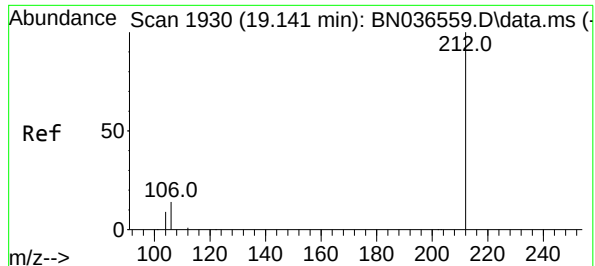
Ion Ratio Lower Upper

178 100

176 19.2 15.4 23.2

179 14.8 12.6 18.8





#27

Fluoranthene-d10

Concen: 0.415 ng

RT: 19.141 min Scan# 1930

Delta R.T. 0.000 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

Instrument :

BNA_N

ClientSampleId :

ICVBN031025

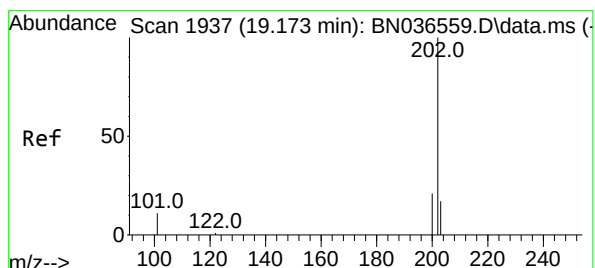
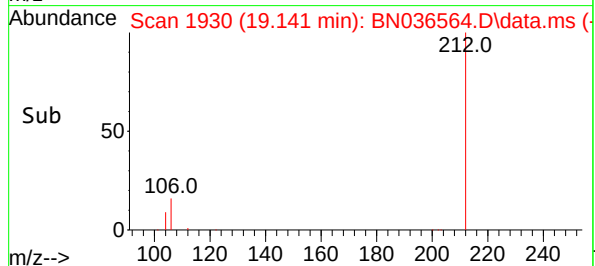
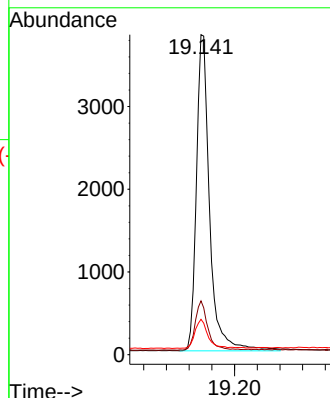
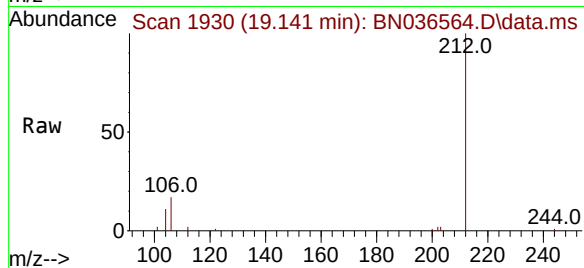
Tgt Ion:212 Resp: 6152

Ion Ratio Lower Upper

212 100

106 14.8 11.8 17.6

104 8.8 7.3 10.9



#28

Fluoranthene

Concen: 0.414 ng

RT: 19.174 min Scan# 1937

Delta R.T. 0.000 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

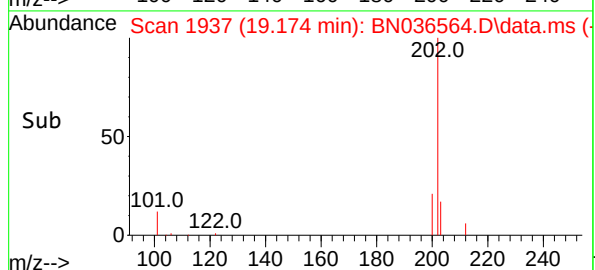
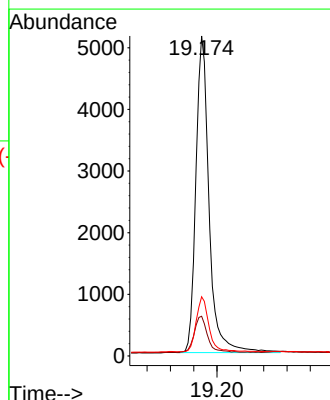
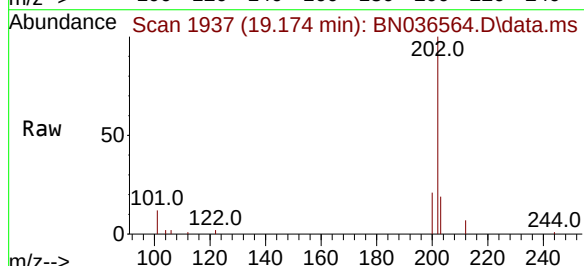
Tgt Ion:202 Resp: 8068

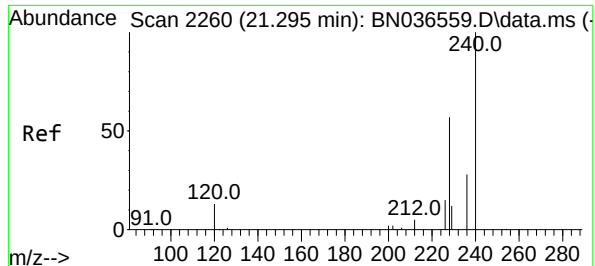
Ion Ratio Lower Upper

202 100

101 11.6 9.4 14.0

203 16.8 13.5 20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.304 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

Instrument :

BNA_N

ClientSampleId :

ICVBN031025

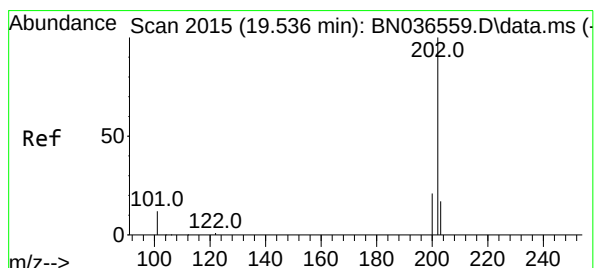
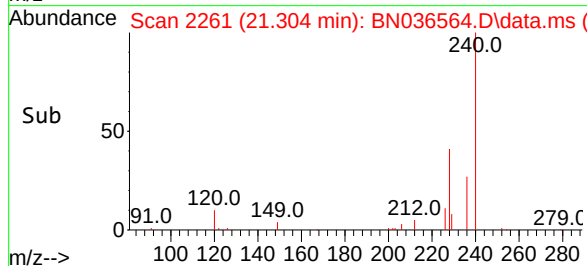
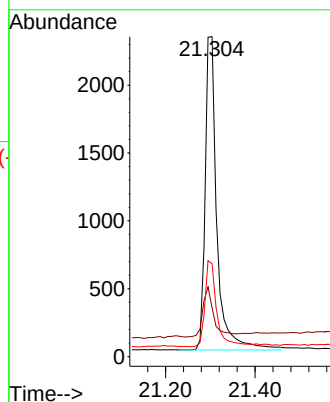
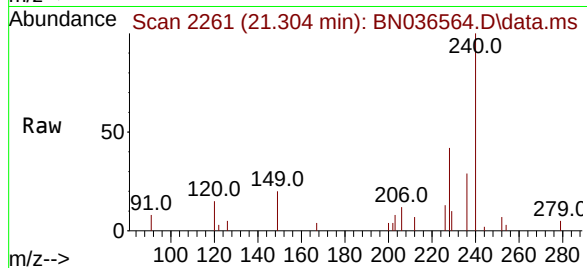
Tgt Ion:240 Resp: 4219

Ion Ratio Lower Upper

240 100

120 15.4 14.6 22.0

236 29.1 24.1 36.1



#30

Pyrene

Concen: 0.395 ng

RT: 19.536 min Scan# 2015

Delta R.T. 0.000 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

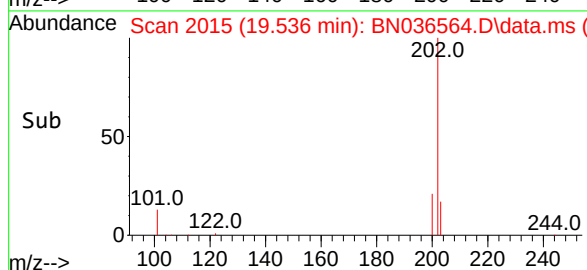
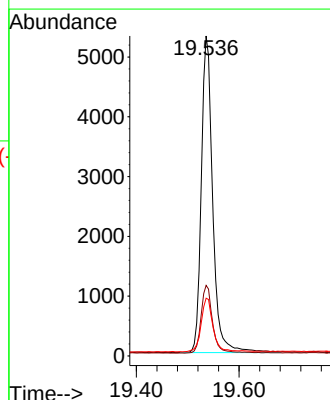
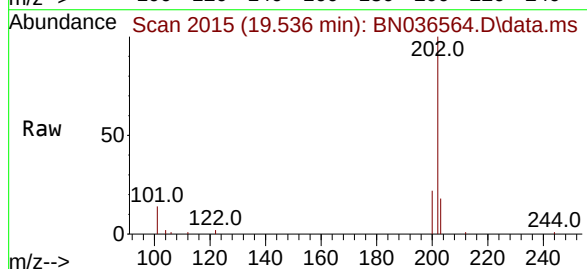
Tgt Ion:202 Resp: 8156

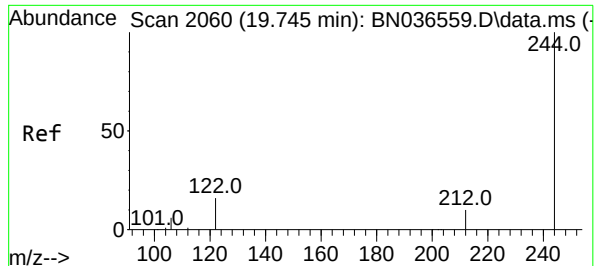
Ion Ratio Lower Upper

202 100

200 21.4 17.1 25.7

203 17.4 14.1 21.1

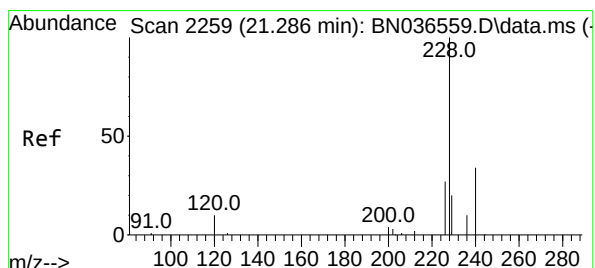
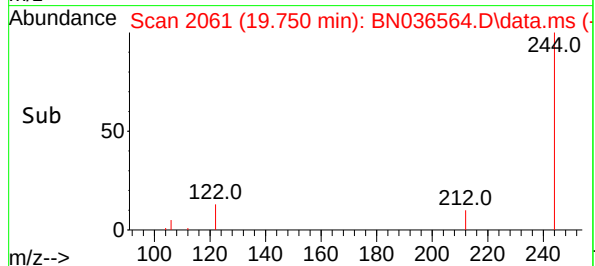
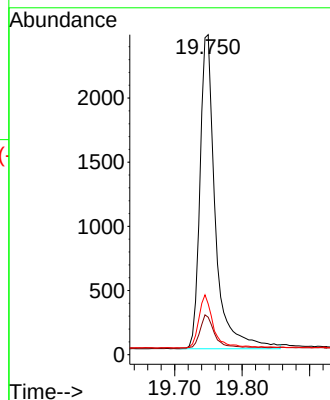
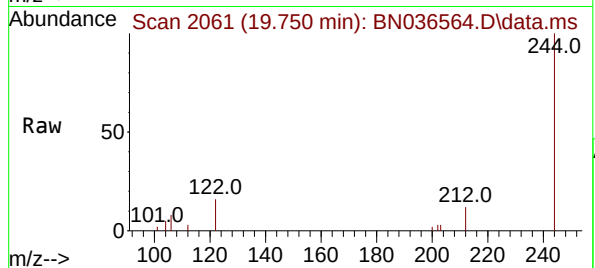




#31
Terphenyl-d14
Concen: 0.384 ng
RT: 19.750 min Scan# 2060
Delta R.T. 0.005 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

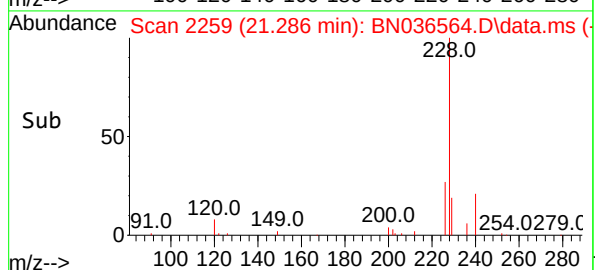
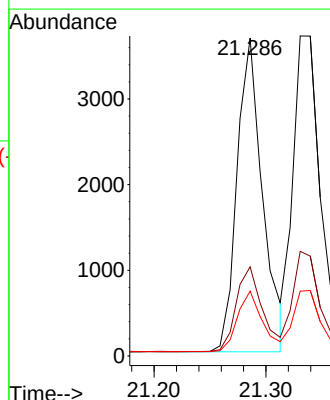
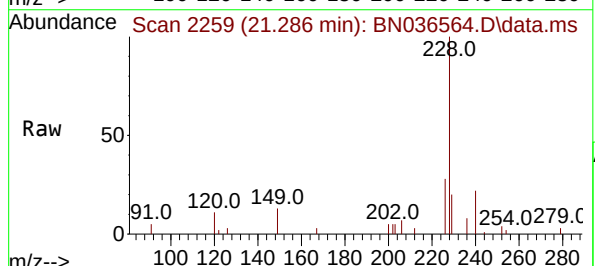
Instrument :
BNA_N
ClientSampleId :
ICVBN031025

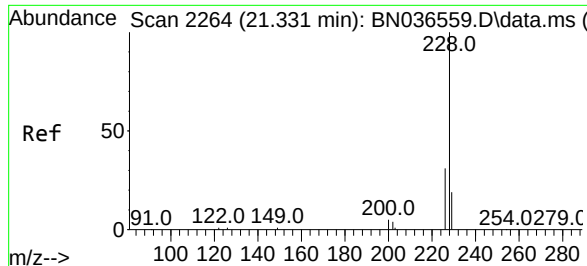
Tgt Ion:244 Resp: 3880
Ion Ratio Lower Upper
244 100
212 11.7 9.6 14.4
122 15.8 13.9 20.9



#32
Benzo(a)anthracene
Concen: 0.396 ng
RT: 21.286 min Scan# 2259
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:228 Resp: 5814
Ion Ratio Lower Upper
228 100
226 28.1 22.5 33.7
229 20.4 16.6 25.0





#33

Chrysene

Concen: 0.433 ng

RT: 21.331 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

Instrument :

BNA_N

ClientSampleId :

ICVBN031025

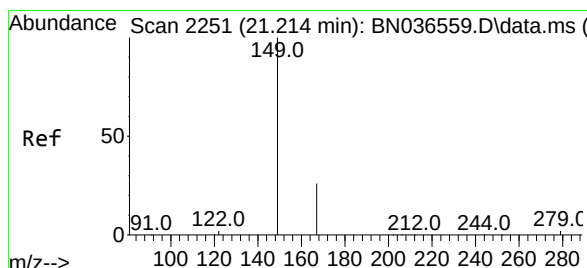
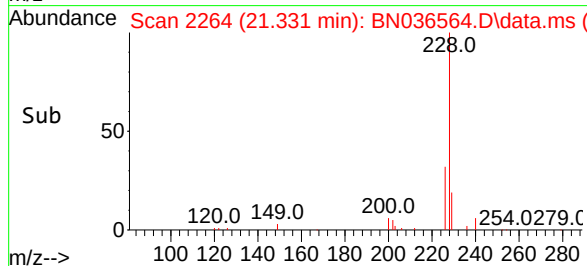
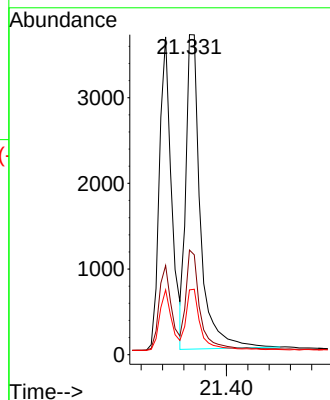
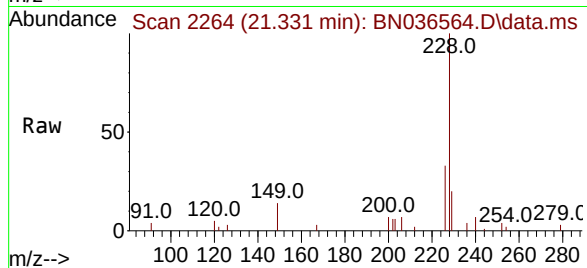
Tgt Ion:228 Resp: 6940

Ion Ratio Lower Upper

228 100

226 32.7 25.3 37.9

229 20.3 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.344 ng

RT: 21.214 min Scan# 2251

Delta R.T. 0.000 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

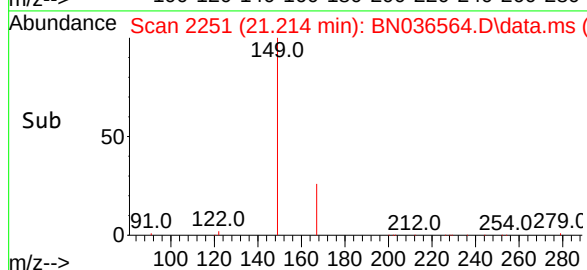
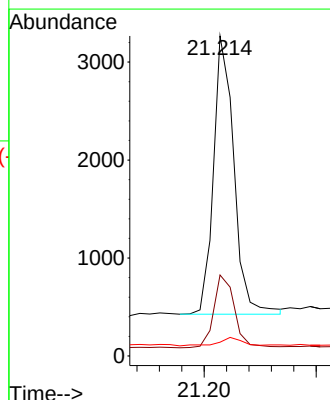
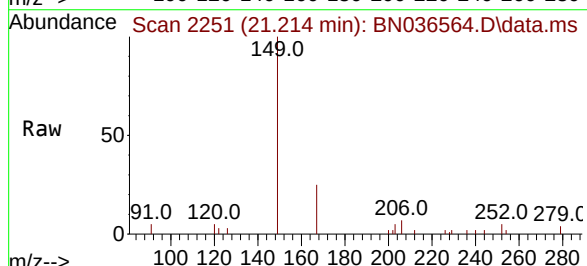
Tgt Ion:149 Resp: 3594

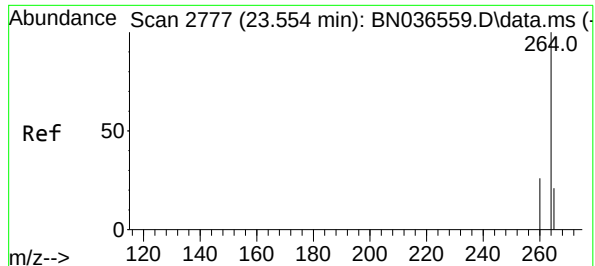
Ion Ratio Lower Upper

149 100

167 26.6 20.7 31.1

279 3.7 3.6 5.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.554 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

Instrument :

BNA_N

ClientSampleId :

ICVBN031025

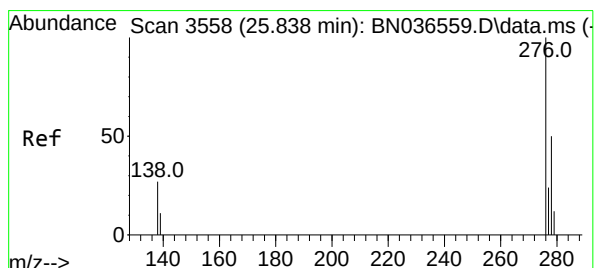
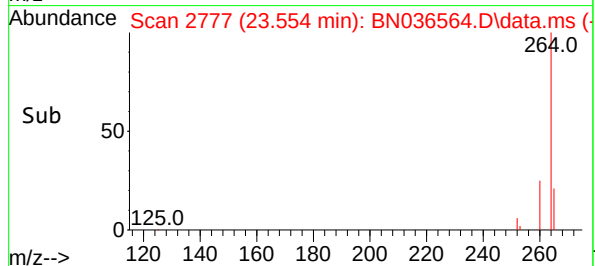
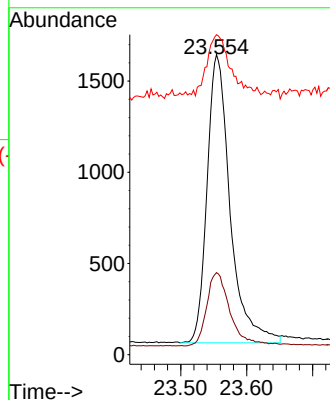
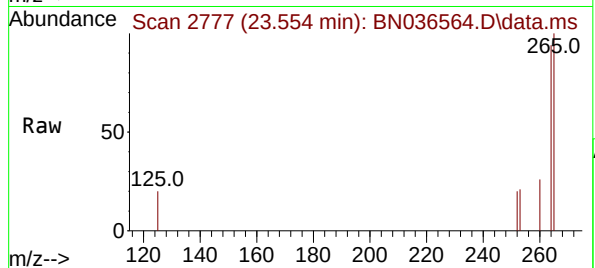
Tgt Ion:264 Resp: 3835

Ion Ratio Lower Upper

264 100

260 27.4 22.6 33.8

265 106.6 88.1 132.1



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.463 ng

RT: 25.841 min Scan# 3559

Delta R.T. 0.003 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

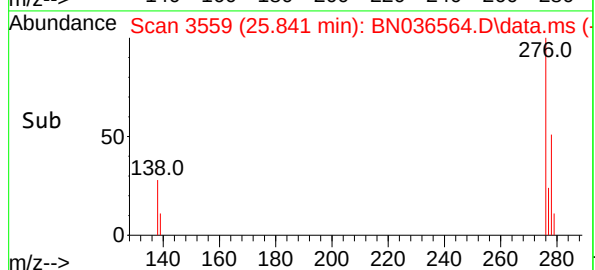
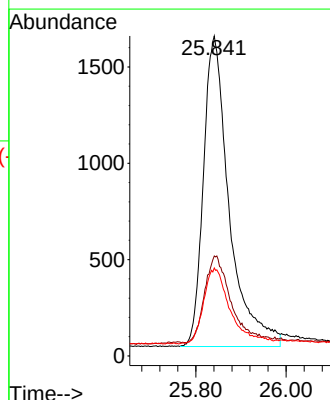
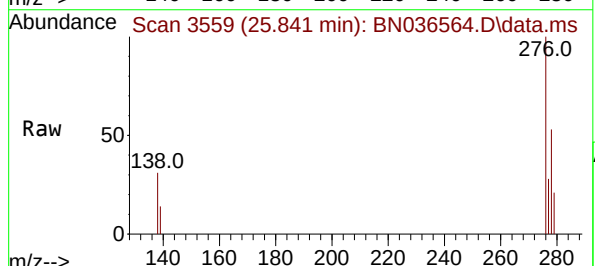
Tgt Ion:276 Resp: 6410

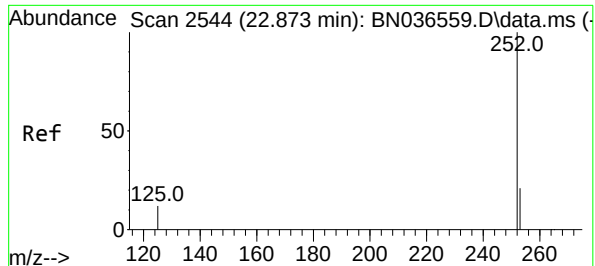
Ion Ratio Lower Upper

276 100

138 28.1 23.4 35.2

277 24.5 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.423 ng

RT: 22.879 min Scan# 2544

Delta R.T. 0.006 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

Instrument :

BNA_N

ClientSampleId :

ICVBN031025

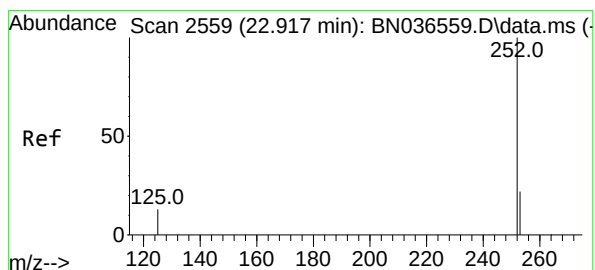
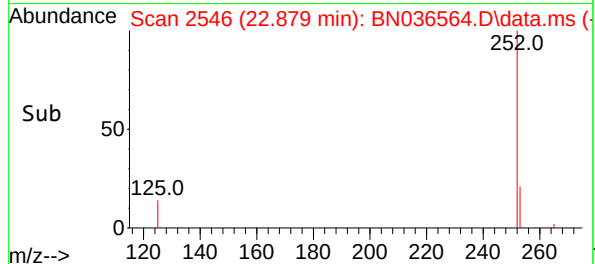
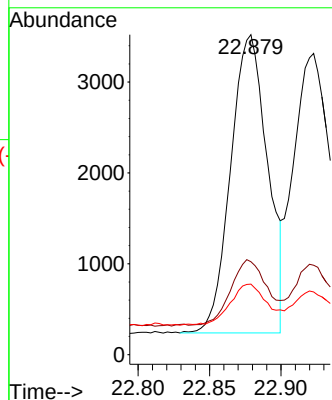
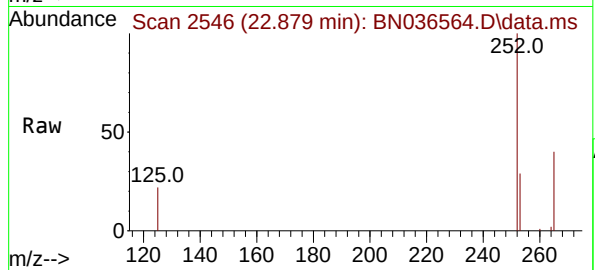
Tgt Ion:252 Resp: 5902

Ion Ratio Lower Upper

252 100

253 29.0 23.9 35.9

125 22.1 17.4 26.2



#38

Benzo(k)fluoranthene

Concen: 0.429 ng

RT: 22.923 min Scan# 2561

Delta R.T. 0.006 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

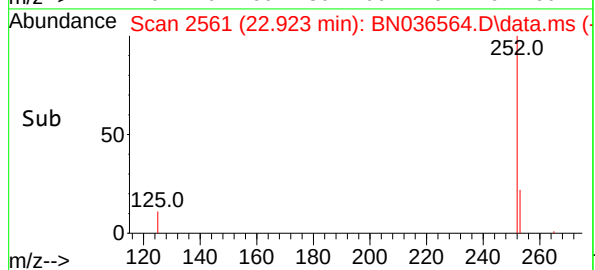
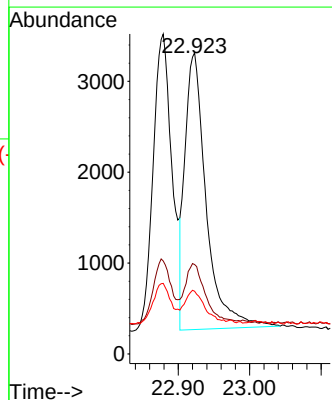
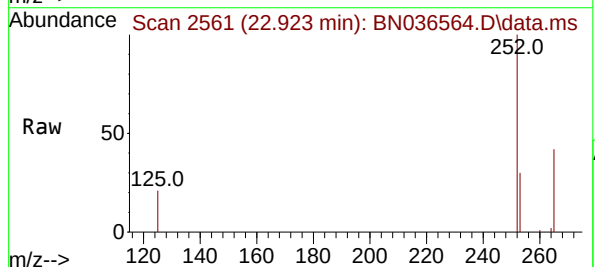
Tgt Ion:252 Resp: 6286

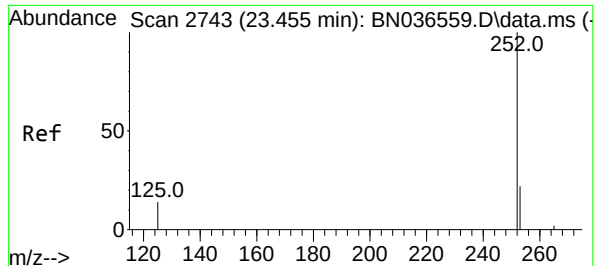
Ion Ratio Lower Upper

252 100

253 29.7 24.6 36.8

125 20.8 17.8 26.8





#39

Benzo(a)pyrene

Concen: 0.438 ng

RT: 23.458 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

Instrument :

BNA_N

ClientSampleId :

ICVBN031025

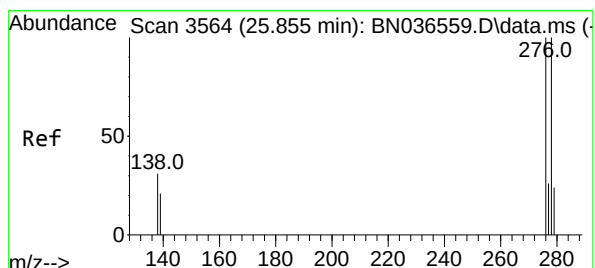
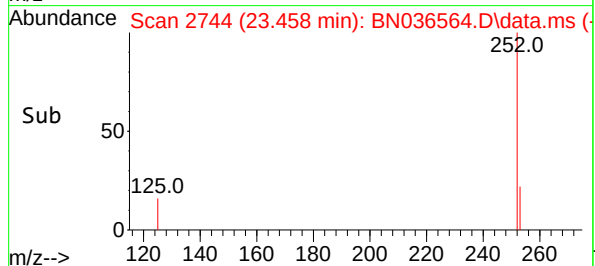
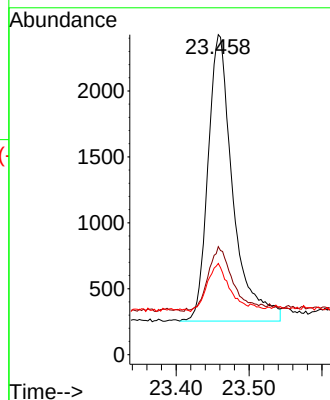
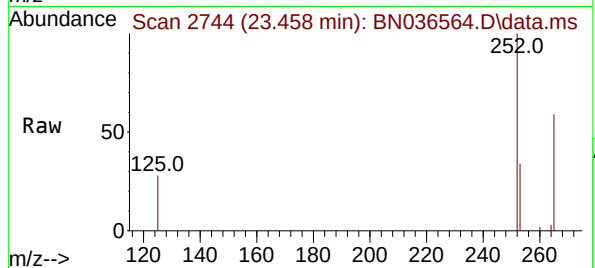
Tgt Ion:252 Resp: 5147

Ion Ratio Lower Upper

252 100

253 33.7 27.8 41.8

125 28.5 22.7 34.1



#40

Dibenzo(a,h)anthracene

Concen: 0.440 ng

RT: 25.855 min Scan# 3564

Delta R.T. 0.000 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

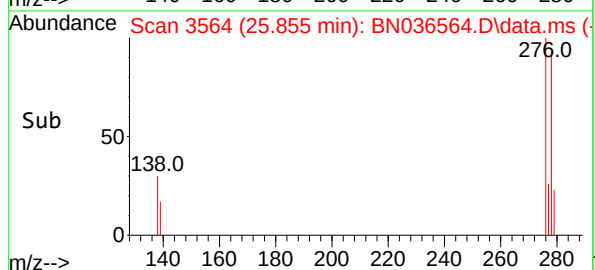
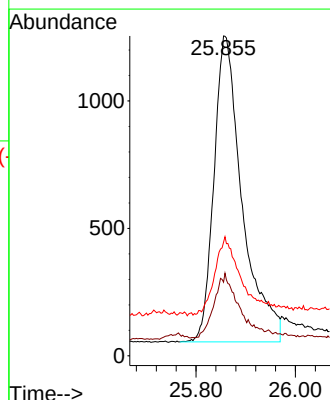
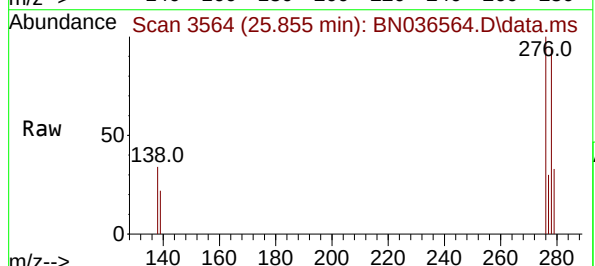
Tgt Ion:278 Resp: 4740

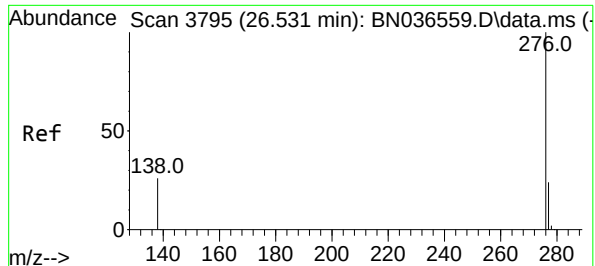
Ion Ratio Lower Upper

278 100

139 23.0 20.8 31.2

279 35.5 28.8 43.2





#41

Benzo(g,h,i)perylene

Concen: 0.477 ng

RT: 26.534 min Scan# 31

Delta R.T. 0.003 min

Lab File: BN036564.D

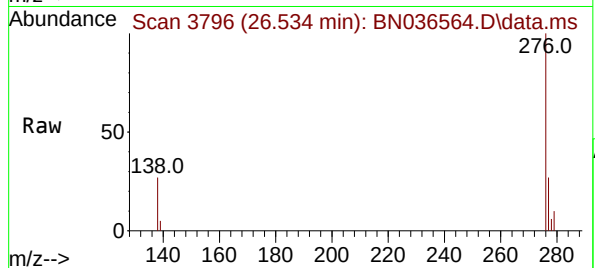
Acq: 10 Mar 2025 16:38

Instrument :

BNA_N

ClientSampleId :

ICVBN031025



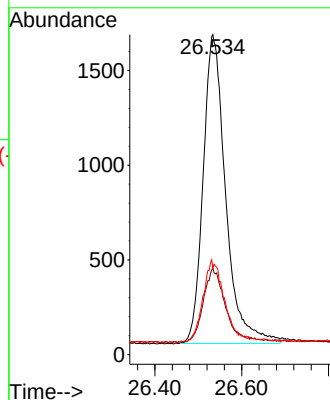
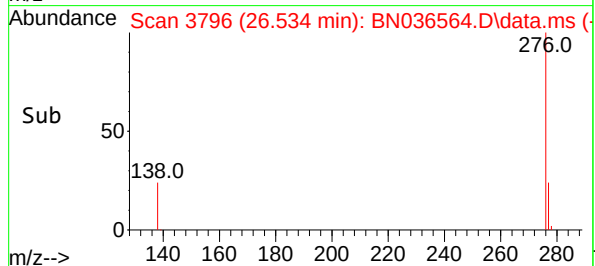
Tgt Ion:276 Resp: 5877

Ion Ratio Lower Upper

276 100

277 27.2 22.2 33.4

138 27.2 24.1 36.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036564.D
Acq On : 10 Mar 2025 16:38
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

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

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	113	0.00
2	1,4-Dioxane	0.444	0.521	-17.3	118	0.00
3	n-Nitrosodimethylamine	0.898	0.918	-2.2	111	0.00
4 S	2-Fluorophenol	0.932	0.972	-4.3	111	0.00
5 S	Phenol-d6	1.152	1.103	4.3	110	0.00
6	bis(2-Chloroethyl)ether	1.190	1.184	0.5	113	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	111	0.00
8 S	Nitrobenzene-d5	0.435	0.418	3.9	112	0.00
9	Naphthalene	1.177	1.191	-1.2	109	0.00
10	Hexachlorobutadiene	0.277	0.301	-8.7	113	0.00
11 SURR	2-Methylnaphthalene-d10	0.595	0.594	0.2	108	0.00
12	2-Methylnaphthalene	0.749	0.721	3.7	104	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	102	0.00
14 S	2,4,6-Tribromophenol	0.182	0.166	8.8	90	0.00
15 S	2-Fluorobiphenyl	2.327	2.513	-8.0	107	0.00
16	Acenaphthylene	1.888	1.964	-4.0	103	0.00
17	Acenaphthene	1.236	1.308	-5.8	104	0.00
18	Fluorene	1.672	1.694	-1.3	98	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	96	0.00
20	4,6-Dinitro-2-methylphenol	0.086	0.070	18.6	87	0.01
21	4-Bromophenyl-phenylether	0.251	0.264	-5.2	93	0.00
22	Hexachlorobenzene	0.303	0.344	-13.5	98	0.00
23	Atrazine	0.201	0.202	-0.5	91	0.01
24	Pentachlorophenol	0.138	0.121	12.3	85	0.00
25	Phenanthrene	1.200	1.251	-4.2	93	0.00
26	Anthracene	1.083	1.100	-1.6	92	0.00
27 SURR	Fluoranthene-d10	1.025	1.065	-3.9	92	0.00
28	Fluoranthene	1.348	1.396	-3.6	93	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	103	0.00
30	Pyrene	1.956	1.933	1.2	93	0.00
31 S	Terphenyl-d14	0.958	0.920	4.0	92	0.00
32	Benzo(a)anthracene	1.391	1.378	0.9	98	0.00
33	Chrysene	1.520	1.645	-8.2	105	0.00
34	Bis(2-ethylhexyl)phthalate	0.990	0.852	13.9	84	0.00
35 I	Perylene-d12	1.000	1.000	0.0	108	0.00
36	Indeno(1,2,3-cd)pyrene	1.444	1.671	-15.7	117	0.00
37	Benzo(b)fluoranthene	1.456	1.539	-5.7	108	0.00
38	Benzo(k)fluoranthene	1.527	1.639	-7.3	110	0.00
39 C	Benzo(a)pyrene	1.226	1.342	-9.5	112	0.00
40	Dibenzo(a,h)anthracene	1.124	1.236	-10.0	115	0.00
41	Benzo(g,h,i)perylene	1.286	1.532	-19.1	120	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036564.D
Acq On : 10 Mar 2025 16:38
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

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

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	113	0.00
2	1,4-Dioxane	0.400	0.470	-17.5	118	0.00
3	n-Nitrosodimethylamine	0.400	0.409	-2.2	111	0.00
4 S	2-Fluorophenol	0.400	0.417	-4.2	111	0.00
5 S	Phenol-d6	0.400	0.383	4.3	110	0.00
6	bis(2-Chloroethyl)ether	0.400	0.398	0.5	113	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	111	0.00
8 S	Nitrobenzene-d5	0.400	0.384	4.0	112	0.00
9	Naphthalene	0.400	0.405	-1.3	109	0.00
10	Hexachlorobutadiene	0.400	0.434	-8.5	113	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.399	0.3	108	0.00
12	2-Methylnaphthalene	0.400	0.385	3.8	104	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	102	0.00
14 S	2,4,6-Tribromophenol	0.400	0.365	8.8	90	0.00
15 S	2-Fluorobiphenyl	0.400	0.432	-8.0	107	0.00
16	Acenaphthylene	0.400	0.416	-4.0	103	0.00
17	Acenaphthene	0.400	0.423	-5.7	104	0.00
18	Fluorene	0.400	0.405	-1.3	98	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	96	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.420	-5.0	87	0.01
21	4-Bromophenyl-phenylether	0.400	0.421	-5.2	93	0.00
22	Hexachlorobenzene	0.400	0.455	-13.7	98	0.00
23	Atrazine	0.400	0.401	-0.3	91	0.01
24	Pentachlorophenol	0.400	0.351	12.3	85	0.00
25	Phenanthrene	0.400	0.417	-4.2	93	0.00
26	Anthracene	0.400	0.407	-1.7	92	0.00
27 SURR	Fluoranthene-d10	0.400	0.415	-3.7	92	0.00
28	Fluoranthene	0.400	0.414	-3.5	93	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	103	0.00
30	Pyrene	0.400	0.395	1.3	93	0.00
31 S	Terphenyl-d14	0.400	0.384	4.0	92	0.00
32	Benzo(a)anthracene	0.400	0.396	1.0	98	0.00
33	Chrysene	0.400	0.433	-8.2	105	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.344	14.0	84	0.00
35 I	Perylene-d12	0.400	0.400	0.0	108	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.463	-15.8	117	0.00
37	Benzo(b)fluoranthene	0.400	0.423	-5.7	108	0.00
38	Benzo(k)fluoranthene	0.400	0.429	-7.2	110	0.00
39 C	Benzo(a)pyrene	0.400	0.438	-9.5	112	0.00
40	Dibenzo(a,h)anthracene	0.400	0.440	-10.0	115	0.00
41	Benzo(g,h,i)perylene	0.400	0.477	-19.2	120	0.00

(#) = Out of Range

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



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: JAC005

Lab Code: CHEM Case No.: Q1711 SAS No.: Q1711 SDG No.: Q1711

Instrument ID: BNA_N Calibration Date/Time: 04/03/2025 11:47

Lab File ID: BN036817.D Init. Calib. Date(s): 03/10/2025 03/10/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 11:42 15:19

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.595	0.639		7.4	20.0
Fluoranthene-d10	1.025	1.231		20.1	20.0
2-Fluorophenol	0.932	0.987		5.9	20.0
Phenol-d6	1.152	1.200		4.2	20.0
Nitrobenzene-d5	0.435	0.443		1.8	20.0
2-Fluorobiphenyl	2.327	2.227		-4.3	20.0
2,4,6-Tribromophenol	0.182	0.178		-2.2	20.0
Terphenyl-d14	0.958	0.907		-5.3	20.0
1,4-Dioxane	0.444	0.469		5.6	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN040325\
 Data File : BN036817.D
 Acq On : 03 Apr 2025 11:47
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Manual Integrations**APPROVED**

Reviewed By :Rahul Chavli 04/04/2025

Supervised By :Jagrut Upadhyay 04/04/2025

Quant Time: Apr 04 03:27:44 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri Apr 04 03:26:58 2025

Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.696	152	2349	0.400	ng	-0.03
7) Naphthalene-d8	10.477	136	5586	0.400	ng	#-0.03
13) Acenaphthene-d10	14.334	164	3520	0.400	ng	-0.03
19) Phenanthrene-d10	17.074	188	7454	0.400	ng	#-0.04
29) Chrysene-d12	21.268	240	6815	0.400	ng	-0.03
35) Perylene-d12	23.514	264	6111	0.400	ng	#-0.04
System Monitoring Compounds						
4) 2-Fluorophenol	5.283	112	2318	0.423	ng	-0.03
5) Phenol-d6	6.865	99	2819	0.417	ng	-0.04
8) Nitrobenzene-d5	8.843	82	2474	0.407	ng	-0.03
11) 2-Methylnaphthalene-d10	12.070	152	3571	0.430	ng	-0.04
14) 2,4,6-Tribromophenol	15.833	330	626	0.392	ng	-0.02
15) 2-Fluorobiphenyl	12.958	172	7838	0.383	ng	-0.03
27) Fluoranthene-d10	19.113	212	9177	0.480	ng	-0.03
31) Terphenyl-d14	19.717	244	6183	0.379	ng	-0.03
Target Compounds						Qvalue
2) 1,4-Dioxane	3.225	88	1101	0.423	ng	98
3) n-Nitrosodimethylamine	3.536	42	2104	0.399	ng	95
6) bis(2-Chloroethyl)ether	7.118	93	2915	0.417	ng	99
9) Naphthalene	10.520	128	6775	0.412	ng	99
10) Hexachlorobutadiene	10.819	225	1566	0.405	ng	# 100
12) 2-Methylnaphthalene	12.146	142	4428	0.424	ng	97
16) Acenaphthylene	14.056	152	6382	0.384	ng	100
17) Acenaphthene	14.398	154	4368	0.402	ng	100
18) Fluorene	15.382	166	5998	0.408	ng	100
20) 4,6-Dinitro-2-methylph...	15.478	198	624	0.473	ng	# 68
21) 4-Bromophenyl-phenylether	16.280	248	1850	0.396	ng	# 81
22) Hexachlorobenzene	16.391	284	2163	0.384	ng	99
23) Atrazine	16.553	200	1628	0.435	ng	# 93
24) Pentachlorophenol	16.739	266	1145	0.445	ng	98
25) Phenanthrene	17.124	178	9504	0.425	ng	100
26) Anthracene	17.211	178	8239	0.408	ng	99
28) Fluoranthene	19.146	202	11933	0.475	ng	100
30) Pyrene	19.508	202	12267	0.368	ng	100
32) Benzo(a)anthracene	21.259	228	9912	0.418	ng	99
33) Chrysene	21.304	228	10681	0.413	ng	100
34) Bis(2-ethylhexyl)phtha...	21.196	149	6950	0.412	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.776	276	9523	0.432	ng	98
37) Benzo(b)fluoranthene	22.841	252	9669	0.435	ng	92
38) Benzo(k)fluoranthene	22.885	252	9527m	0.408	ng	
39) Benzo(a)pyrene	23.417	252	8143	0.435	ng	# 89
40) Dibenzo(a,h)anthracene	25.791	278	7424	0.432	ng	92
41) Benzo(g,h,i)perylene	26.464	276	8300	0.423	ng	97

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN040325\
Data File : BN036817.D
Acq On : 03 Apr 2025 11:47
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 04/04/2025

Supervised By :Jagrut Upadhyay 04/04/2025

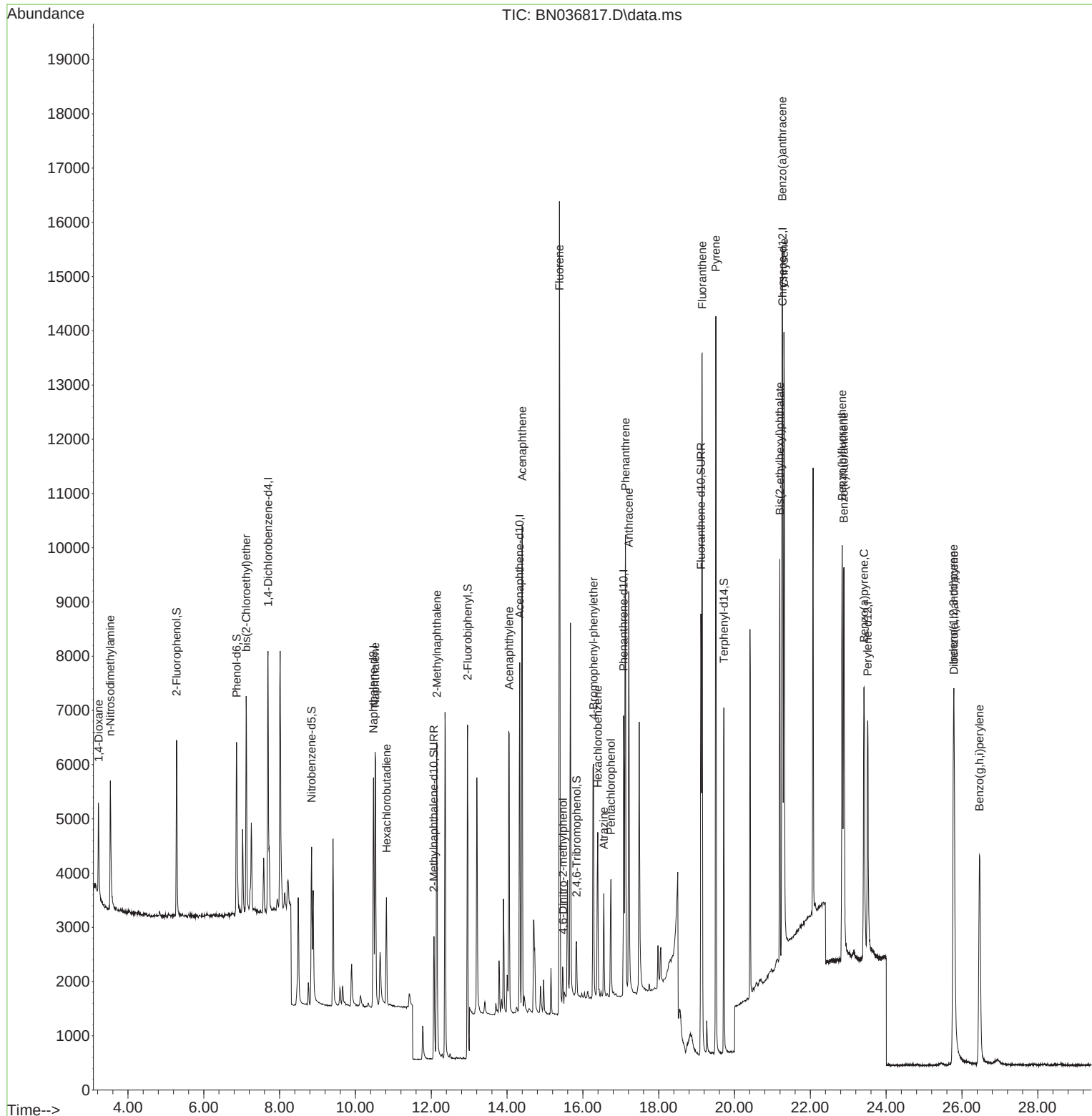
Quant Time: Apr 04 03:27:44 2025

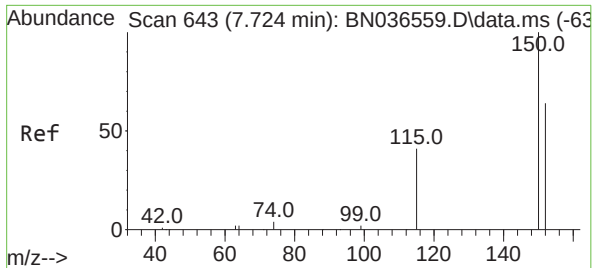
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri Apr 04 03:26:58 2025

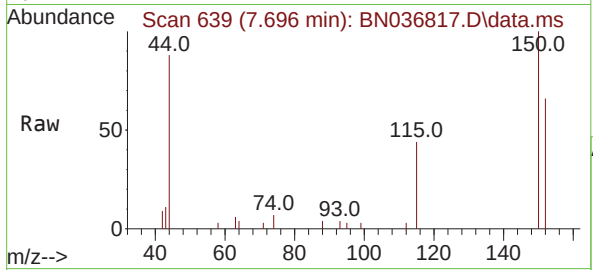
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.696 min Scan# 61
Delta R.T. -0.028 min
Lab File: BN036817.D
Acq: 03 Apr 2025 11:47

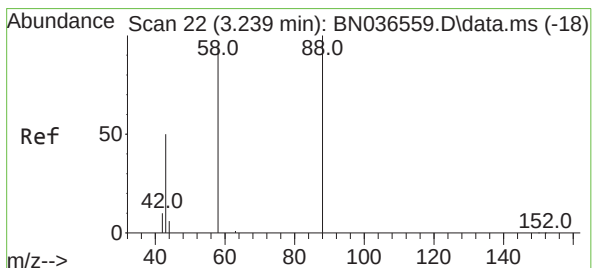
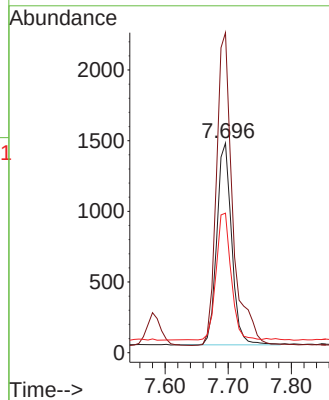
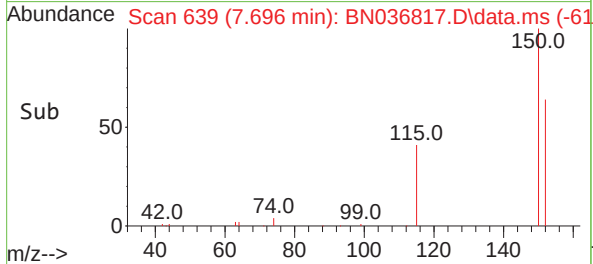
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



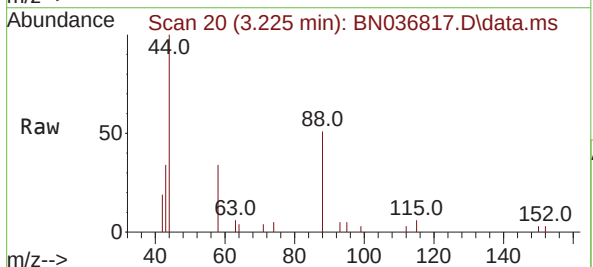
Tgt Ion: 152 Resp: 2349
Ion Ratio Lower Upper
152 100
150 152.7 123.7 185.5
115 66.6 54.3 81.5

Manual Integrations
APPROVED

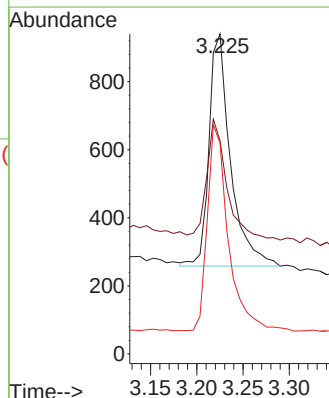
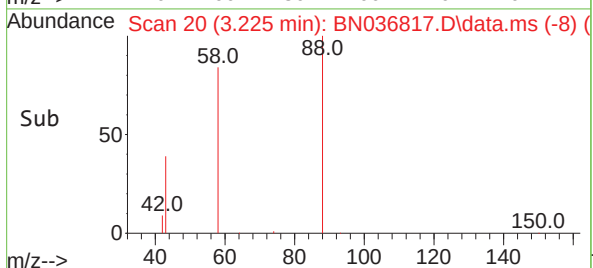
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025



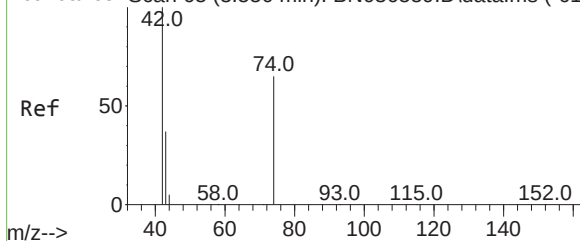
#2
1,4-Dioxane
Concen: 0.423 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036817.D
Acq: 03 Apr 2025 11:47



Tgt Ion: 88 Resp: 1101
Ion Ratio Lower Upper
88 100
43 49.1 37.8 56.8
58 85.8 67.4 101.2



Abundance Scan 65 (3.550 min): BN036559.D\data.ms (-61)



#3

n-Nitrosodimethylamine

Concen: 0.399 ng

RT: 3.536 min Scan# 61

Delta R.T. -0.014 min

Lab File: BN036817.D

Acq: 03 Apr 2025 11:47

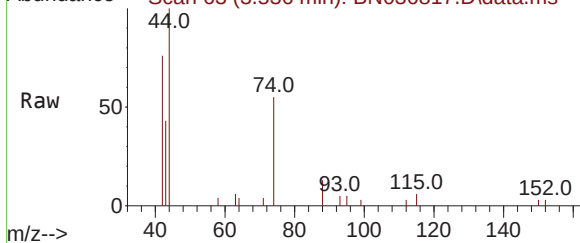
Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Abundance Scan 63 (3.536 min): BN036817.D\data.ms



Tgt Ion: 42 Resp: 2104

Ion Ratio Lower Upper

42 100

74 80.2 60.6 90.8

44 7.3 6.3 9.5

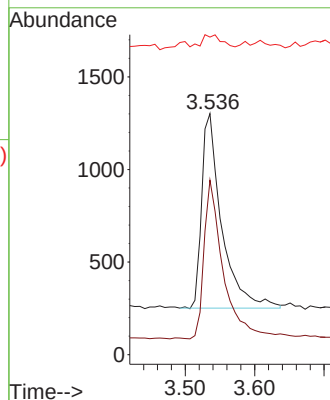
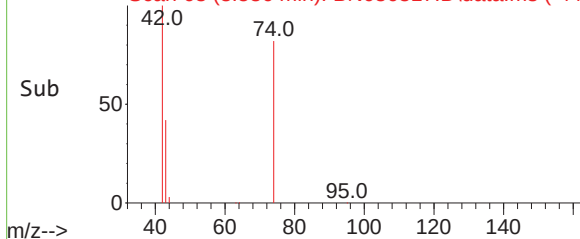
Manual Integrations

APPROVED

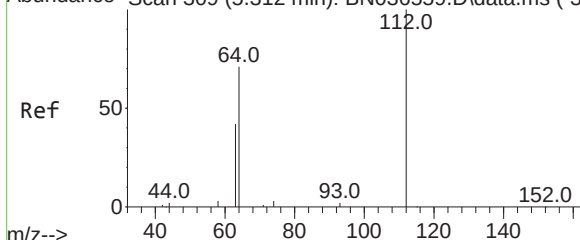
Reviewed By :Rahul Chavli 04/04/2025

Supervised By :Jagrut Upadhyay 04/04/2025

Abundance Scan 63 (3.536 min): BN036817.D\data.ms (-44)



Abundance Scan 309 (5.312 min): BN036559.D\data.ms (-30)



#4

2-Fluorophenol

Concen: 0.423 ng

RT: 5.283 min Scan# 305

Delta R.T. -0.029 min

Lab File: BN036817.D

Acq: 03 Apr 2025 11:47

Tgt Ion:112 Resp: 2318

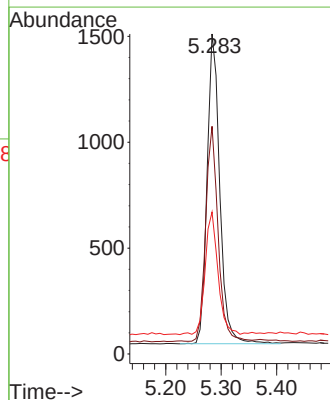
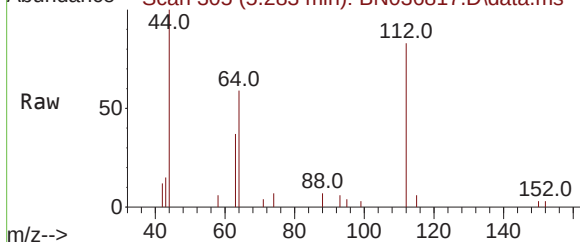
Ion Ratio Lower Upper

112 100

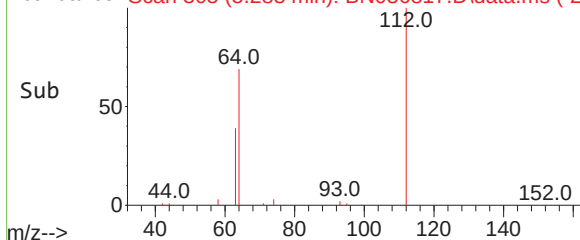
64 68.0 53.1 79.7

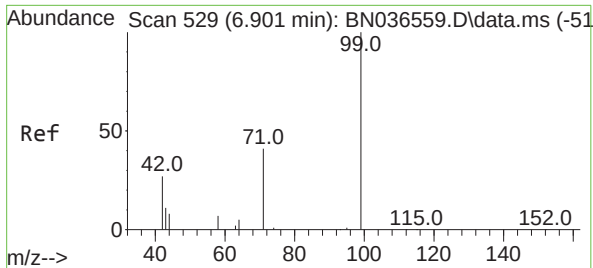
63 40.1 31.8 47.8

Abundance Scan 305 (5.283 min): BN036817.D\data.ms



Abundance Scan 305 (5.283 min): BN036817.D\data.ms (-28)





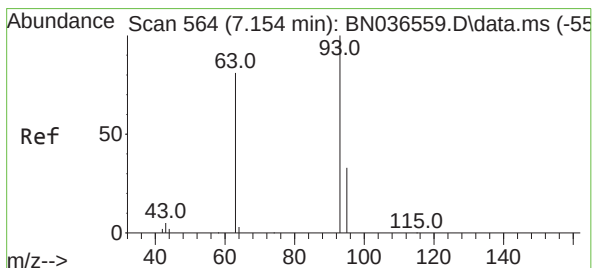
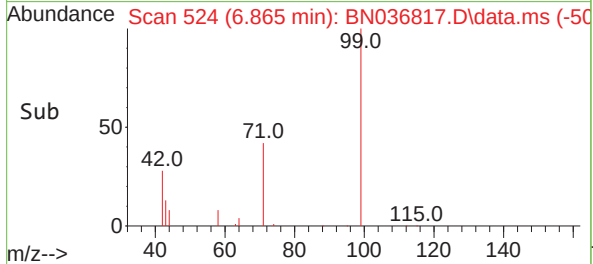
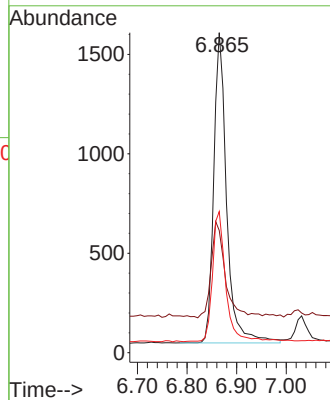
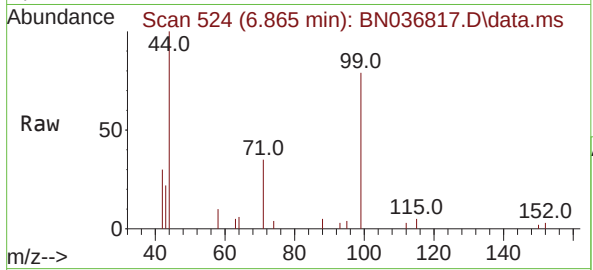
#5
Phenol-d6
Concen: 0.417 ng
RT: 6.865 min Scan# 51
Delta R.T. -0.036 min
Lab File: BN036817.D
Acq: 03 Apr 2025 11:47

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 99 Resp: 2819
Ion Ratio Lower Upper
99 100
42 34.2 26.5 39.7
71 43.5 34.1 51.1

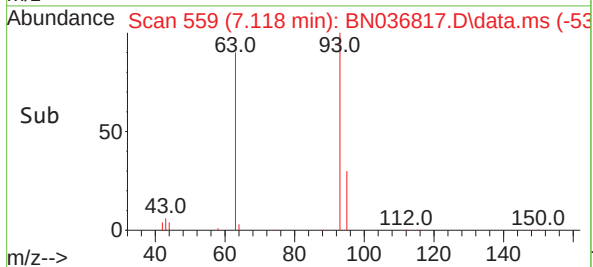
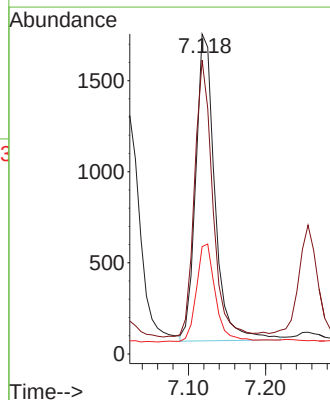
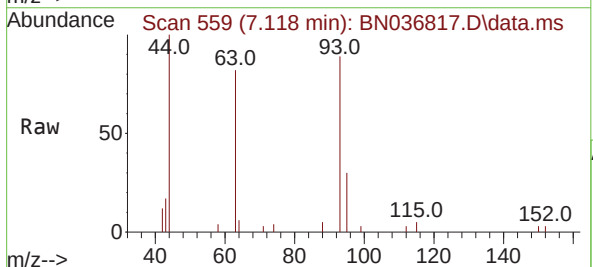
Manual Integrations
APPROVED

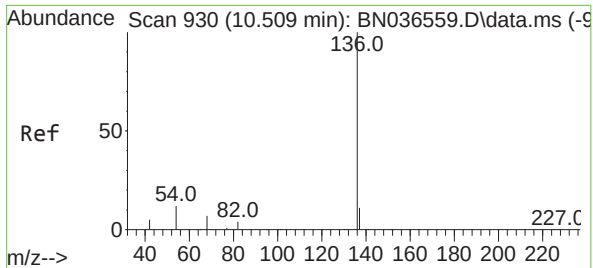
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025



#6
bis(2-Chloroethyl)ether
Concen: 0.417 ng
RT: 7.118 min Scan# 559
Delta R.T. -0.036 min
Lab File: BN036817.D
Acq: 03 Apr 2025 11:47

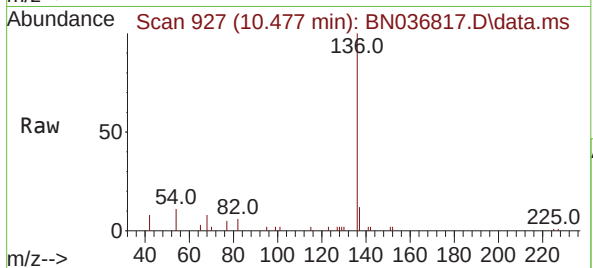
Tgt Ion: 93 Resp: 2915
Ion Ratio Lower Upper
93 100
63 85.5 67.7 101.5
95 31.9 25.6 38.4





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.477 min Scan# 91
Delta R.T. -0.032 min
Lab File: BN036817.D
Acq: 03 Apr 2025 11:47

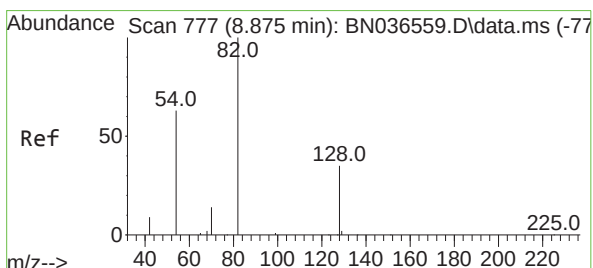
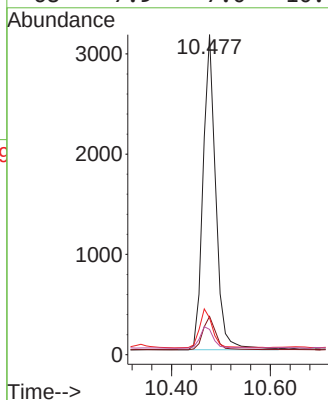
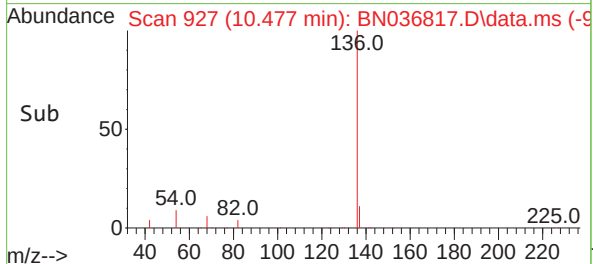
Instrument :
BNA_N
ClientSampleId :
SSTCCCC0.4



Tgt Ion: 136 Resp: 5580
Ion Ratio Lower Upper
136 100
137 11.9 10.3 15.5
54 11.5 11.5 17.3
68 7.9 7.0 10.4

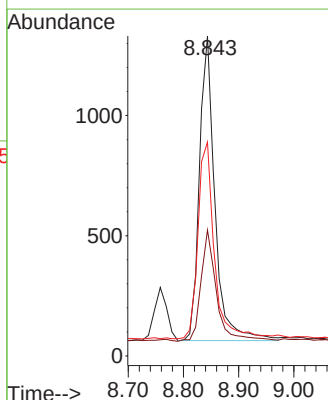
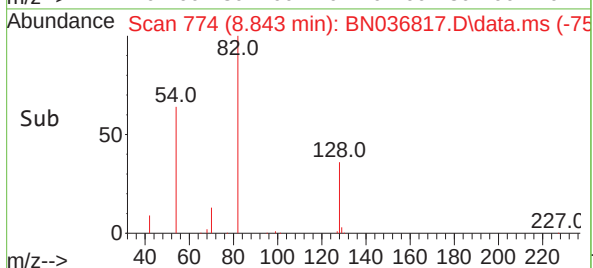
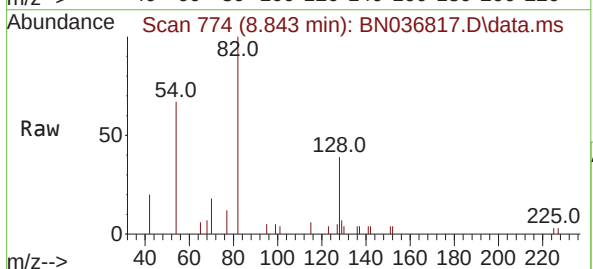
Manual Integrations
APPROVED

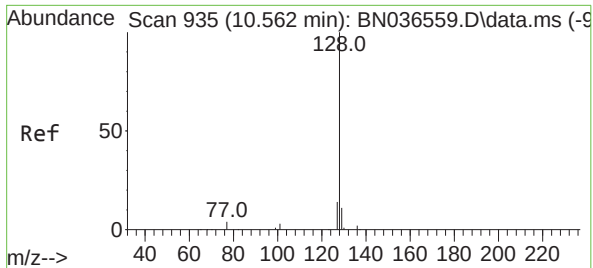
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025



#8
Nitrobenzene-d5
Concen: 0.407 ng
RT: 8.843 min Scan# 774
Delta R.T. -0.032 min
Lab File: BN036817.D
Acq: 03 Apr 2025 11:47

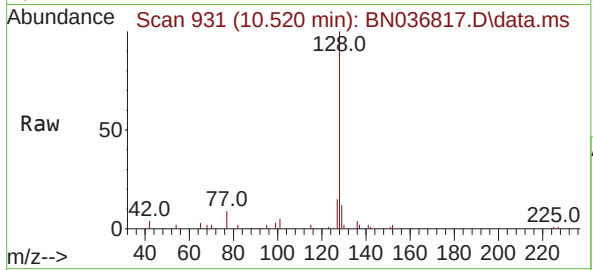
Tgt Ion: 82 Resp: 2474
Ion Ratio Lower Upper
82 100
128 39.4 30.6 45.8
54 66.9 52.2 78.4





#9
Naphthalene
Concen: 0.412 ng
RT: 10.520 min Scan# 911
Delta R.T. -0.042 min
Lab File: BN036817.D
Acq: 03 Apr 2025 11:47

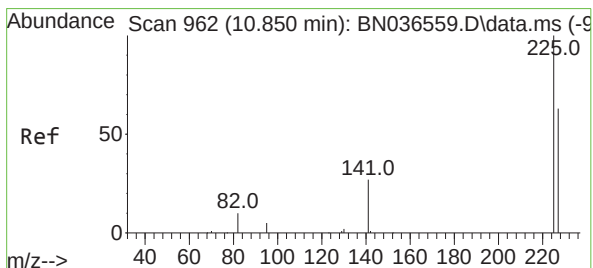
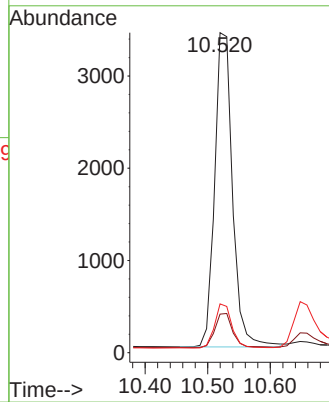
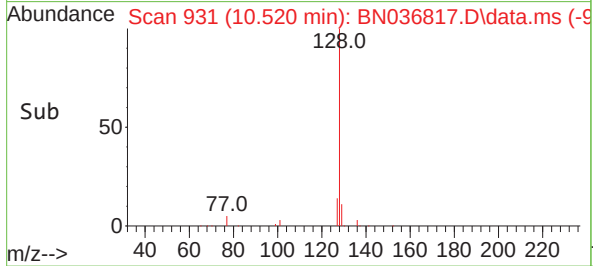
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:128 Resp: 6775
Ion Ratio Lower Upper
128 100
129 12.1 9.8 14.6
127 15.2 11.8 17.8

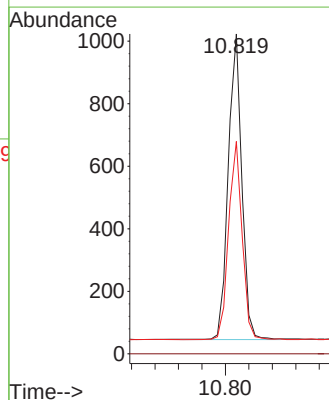
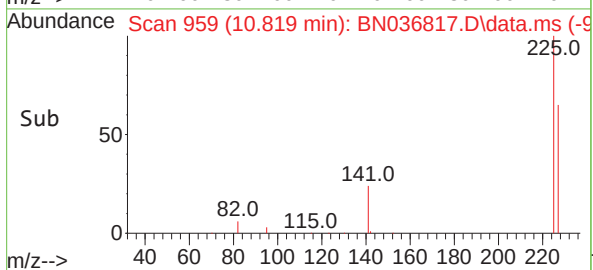
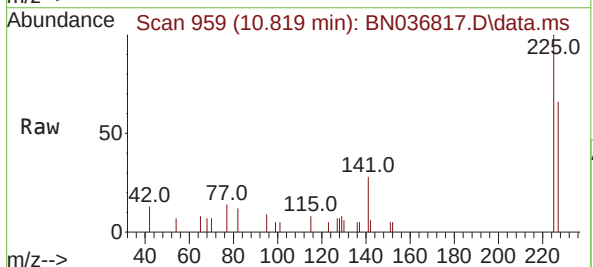
Manual Integrations
APPROVED

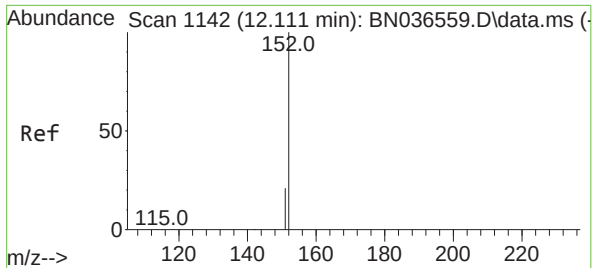
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025



#10
Hexachlorobutadiene
Concen: 0.405 ng
RT: 10.819 min Scan# 959
Delta R.T. -0.032 min
Lab File: BN036817.D
Acq: 03 Apr 2025 11:47

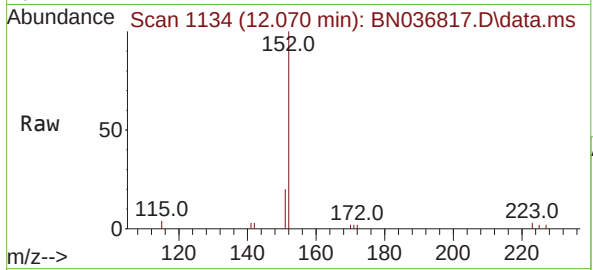
Tgt Ion:225 Resp: 1566
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 65.0 51.8 77.8





#11
2-Methylnaphthalene-d10
Concen: 0.430 ng
RT: 12.070 min Scan# 1141
Delta R.T. -0.040 min
Lab File: BN036817.D
Acq: 03 Apr 2025 11:47

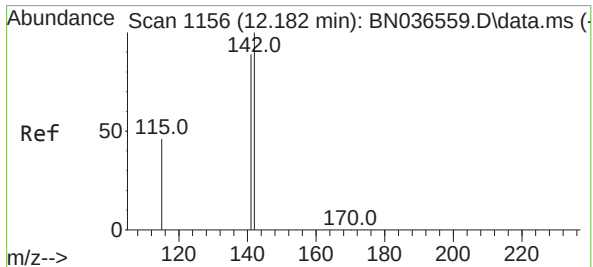
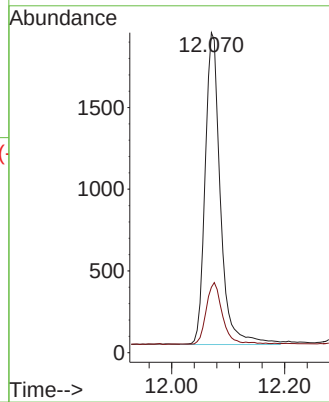
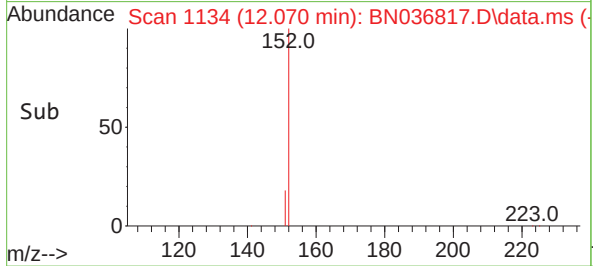
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:152 Resp: 357
Ion Ratio Lower Upper
152 100
151 20.5 17.0 25.6

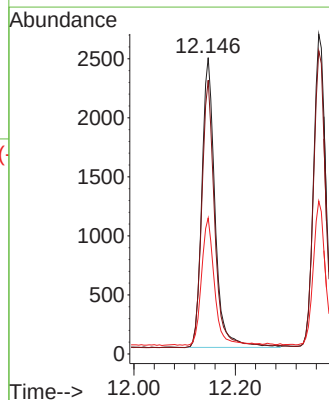
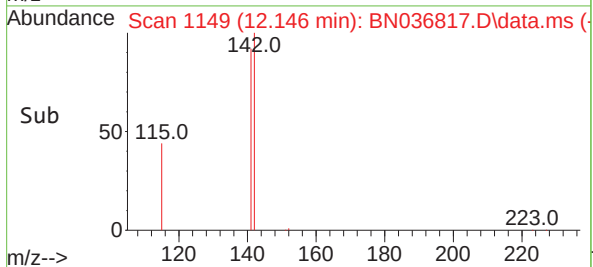
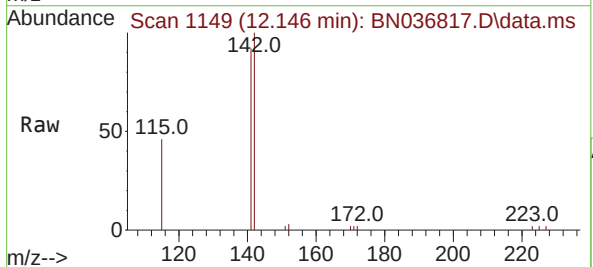
Manual Integrations
APPROVED

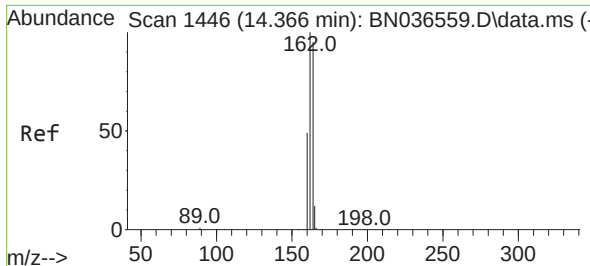
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025



#12
2-Methylnaphthalene
Concen: 0.424 ng
RT: 12.146 min Scan# 1149
Delta R.T. -0.035 min
Lab File: BN036817.D
Acq: 03 Apr 2025 11:47

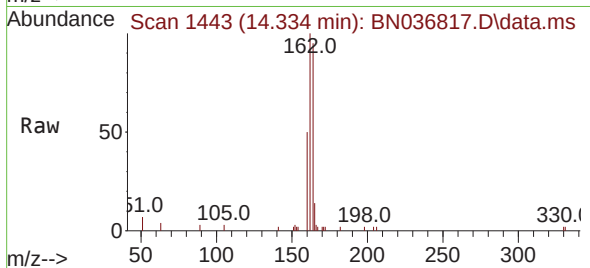
Tgt Ion:142 Resp: 4428
Ion Ratio Lower Upper
142 100
141 92.4 71.7 107.5
115 45.9 38.3 57.5





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 1443
Delta R.T. -0.032 min
Lab File: BN036817.D
Acq: 03 Apr 2025 11:47

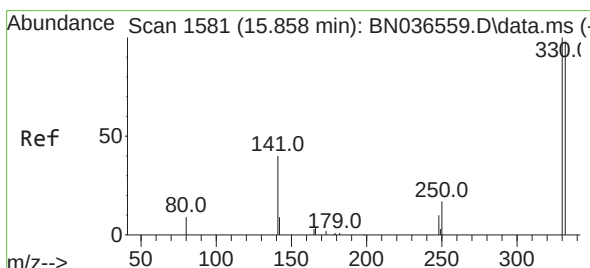
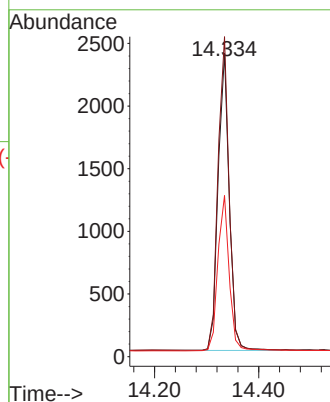
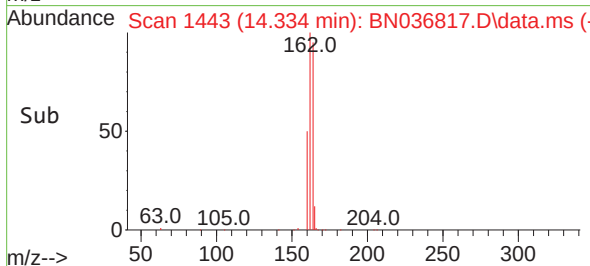
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



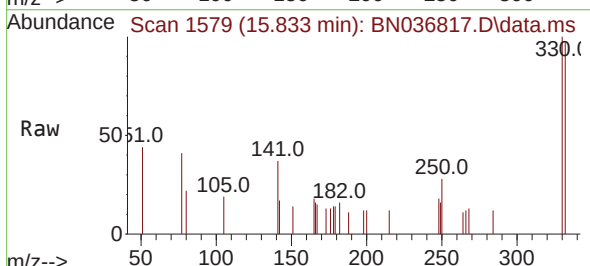
Tgt Ion:164 Resp: 3520
Ion Ratio Lower Upper
164 100
162 105.5 84.2 126.2
160 53.1 42.2 63.2

Manual Integrations
APPROVED

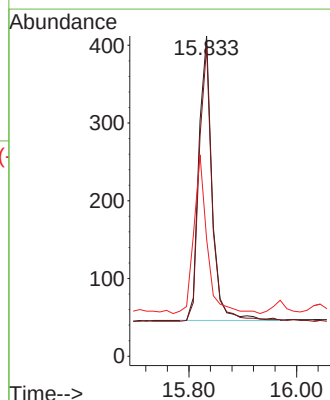
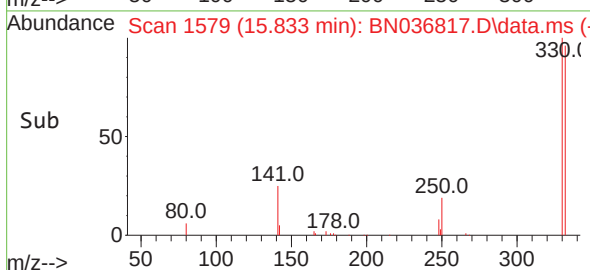
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

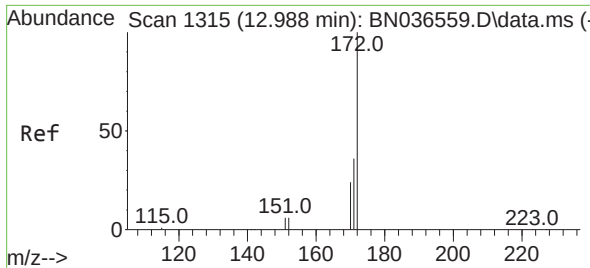


#14
2,4,6-Tribromophenol
Concen: 0.392 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036817.D
Acq: 03 Apr 2025 11:47



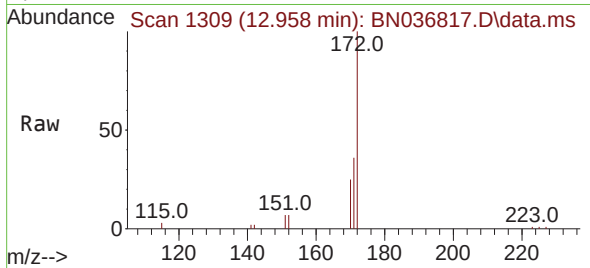
Tgt Ion:330 Resp: 626
Ion Ratio Lower Upper
330 100
332 95.4 75.2 112.8
141 56.1 43.4 65.2





#15
2-Fluorobiphenyl
Concen: 0.383 ng
RT: 12.958 min Scan# 11
Delta R.T. -0.030 min
Lab File: BN036817.D
Acq: 03 Apr 2025 11:47

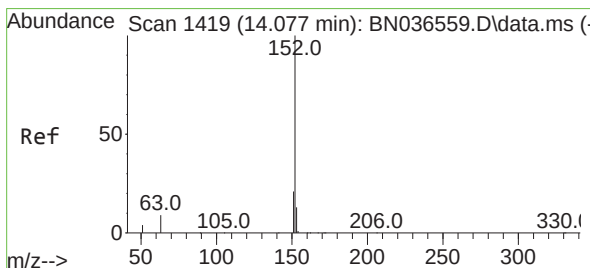
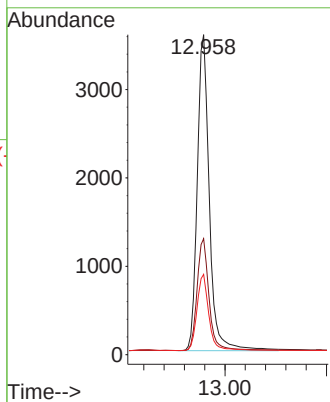
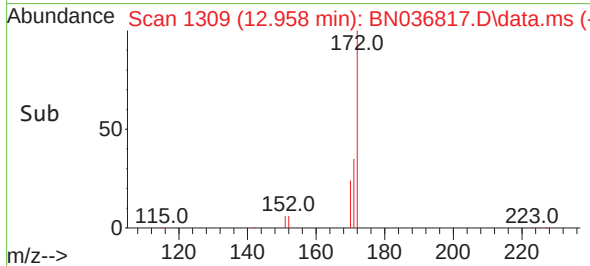
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:172 Resp: 7838
Ion Ratio Lower Upper
172 100
171 36.2 29.5 44.3
170 25.1 20.2 30.4

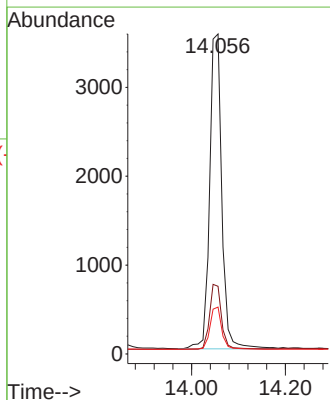
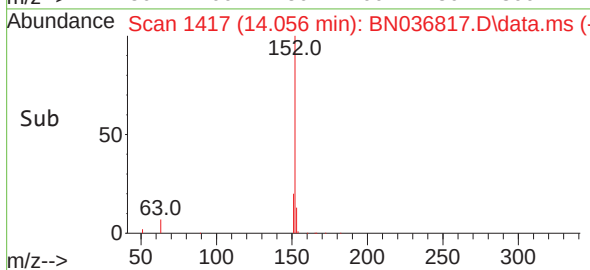
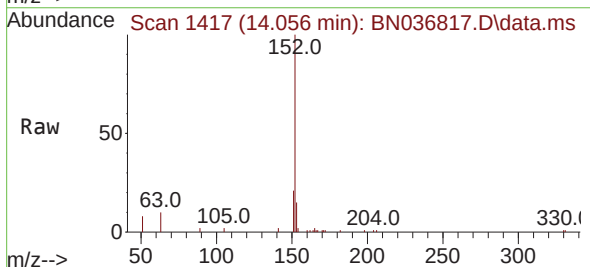
Manual Integrations
APPROVED

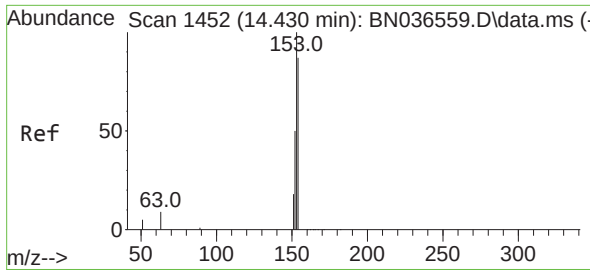
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025



#16
Acenaphthylene
Concen: 0.384 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036817.D
Acq: 03 Apr 2025 11:47

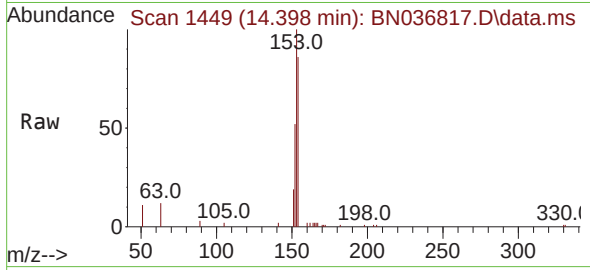
Tgt Ion:152 Resp: 6382
Ion Ratio Lower Upper
152 100
151 20.2 16.2 24.4
153 13.1 10.6 15.8





#17
Acenaphthene
Concen: 0.402 ng
RT: 14.398 min Scan# 1449
Delta R.T. -0.032 min
Lab File: BN036817.D
Acq: 03 Apr 2025 11:47

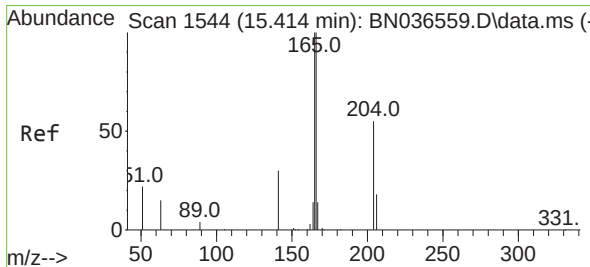
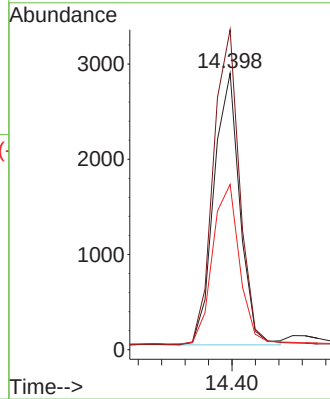
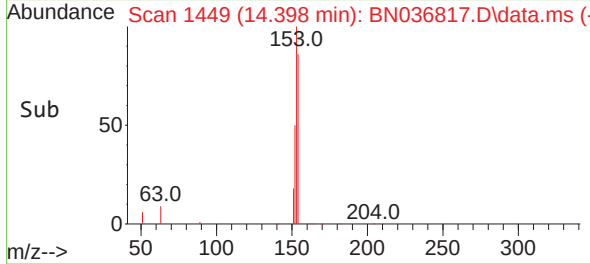
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:154 Resp: 4368
Ion Ratio Lower Upper
154 100
153 117.9 94.1 141.1
152 62.0 49.8 74.6

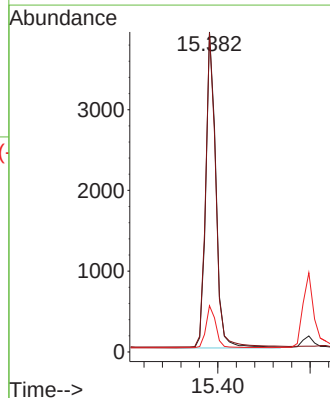
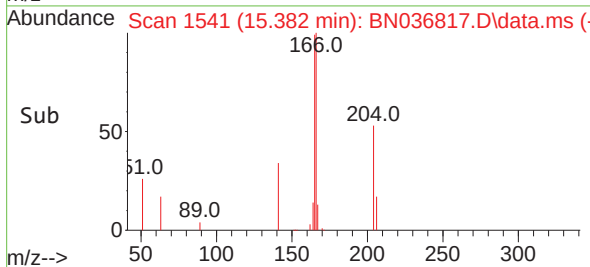
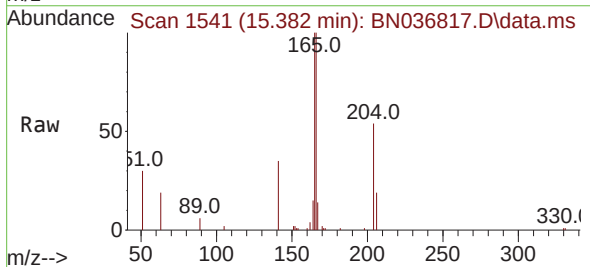
Manual Integrations
APPROVED

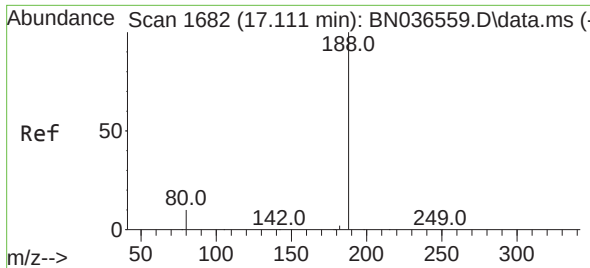
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025



#18
Fluorene
Concen: 0.408 ng
RT: 15.382 min Scan# 1541
Delta R.T. -0.032 min
Lab File: BN036817.D
Acq: 03 Apr 2025 11:47

Tgt Ion:166 Resp: 5998
Ion Ratio Lower Upper
166 100
165 99.3 79.8 119.8
167 13.0 10.6 15.8





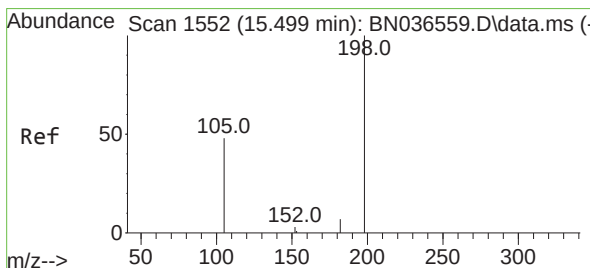
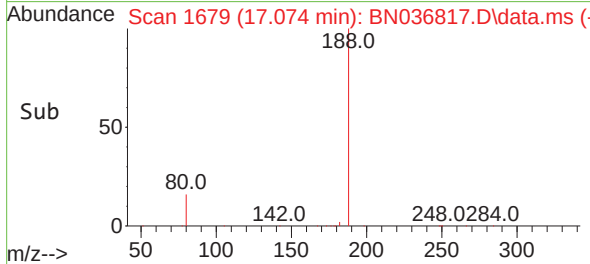
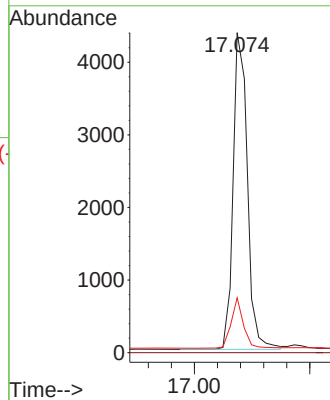
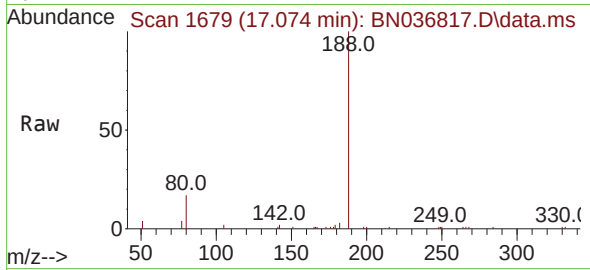
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.074 min Scan# 11
Delta R.T. -0.037 min
Lab File: BN036817.D
Acq: 03 Apr 2025 11:47

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:188 Resp: 7454
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 17.2 8.8 13.2

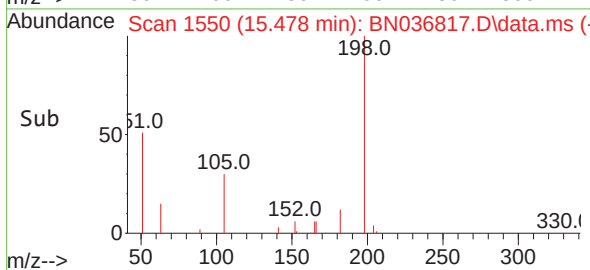
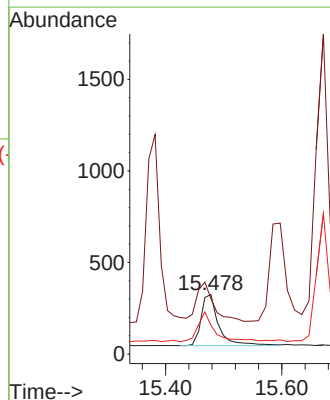
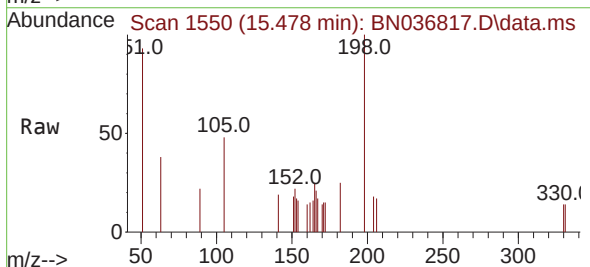
Manual Integrations
APPROVED

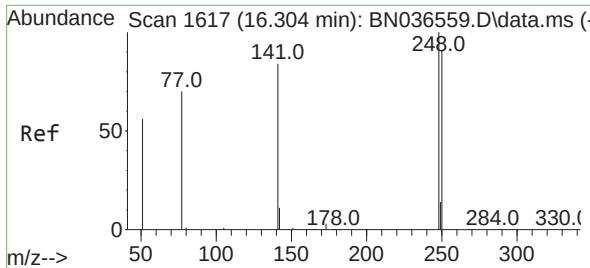
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025



#20
4,6-Dinitro-2-methylphenol
Concen: 0.473 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.021 min
Lab File: BN036817.D
Acq: 03 Apr 2025 11:47

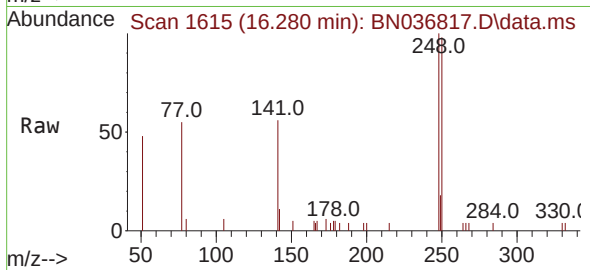
Tgt Ion:198 Resp: 624
Ion Ratio Lower Upper
198 100
51 93.2 107.9 161.9#
105 48.3 56.2 84.2#





#21
4-Bromophenyl-phenylether
Concen: 0.396 ng
RT: 16.280 min Scan# 1615
Delta R.T. -0.025 min
Lab File: BN036817.D
Acq: 03 Apr 2025 11:47

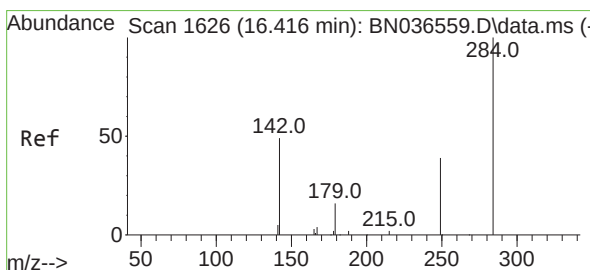
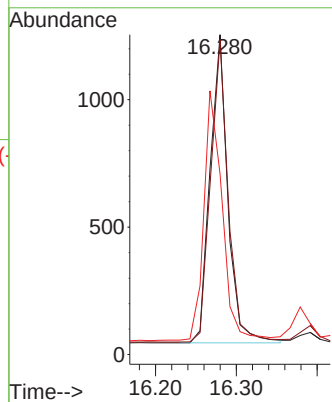
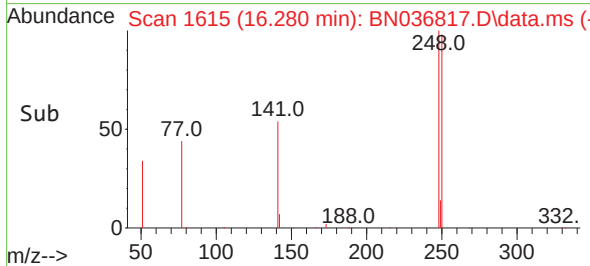
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:248 Resp: 1850
Ion Ratio Lower Upper
248 100
250 98.4 73.0 109.6
141 56.5 68.6 103.0

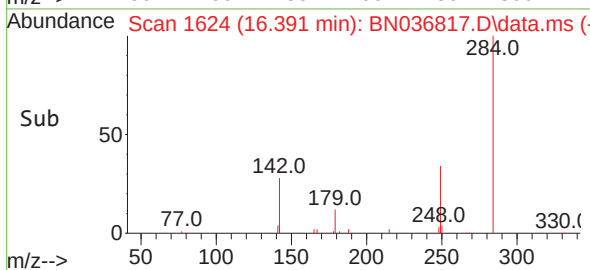
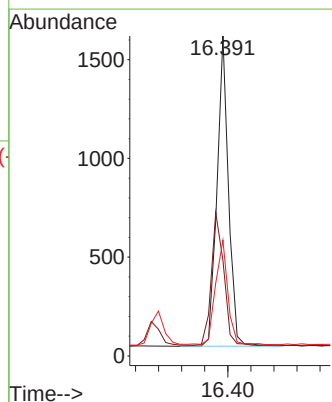
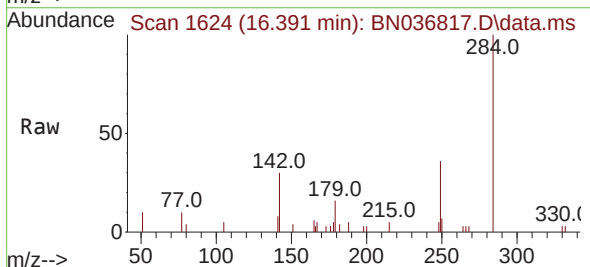
Manual Integrations
APPROVED

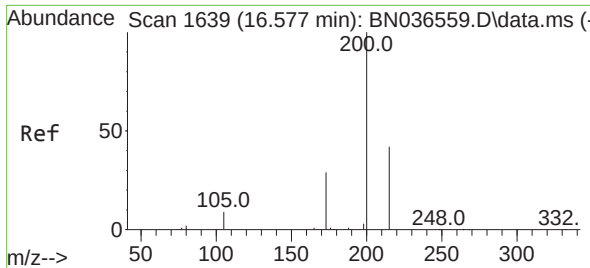
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025



#22
Hexachlorobenzene
Concen: 0.384 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.025 min
Lab File: BN036817.D
Acq: 03 Apr 2025 11:47

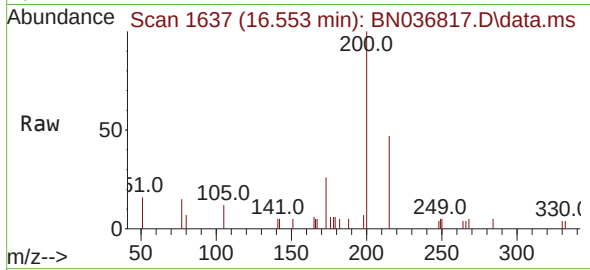
Tgt Ion:284 Resp: 2163
Ion Ratio Lower Upper
284 100
142 46.2 37.0 55.4
249 36.6 28.1 42.1





#23
Atrazine
Concen: 0.435 ng
RT: 16.553 min Scan# 1628
Delta R.T. -0.025 min
Lab File: BN036817.D
Acq: 03 Apr 2025 11:47

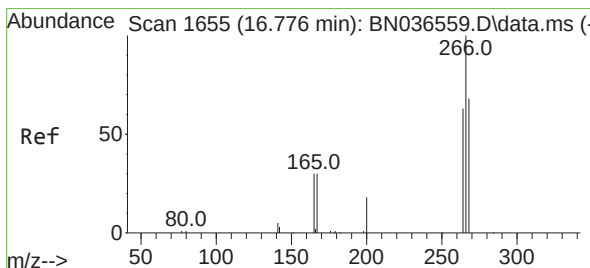
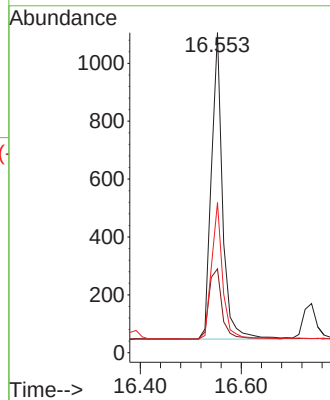
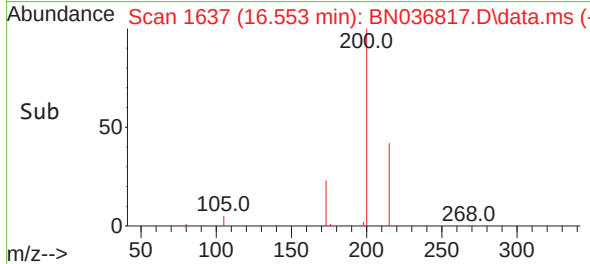
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:200 Resp: 1628
Ion Ratio Lower Upper
200 100
173 26.2 27.3 40.9
215 46.9 36.8 55.2

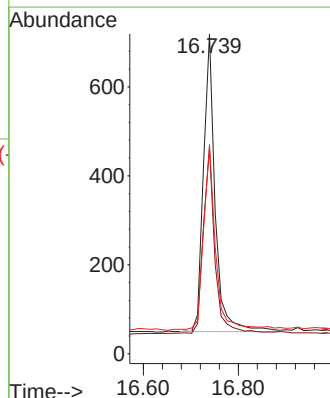
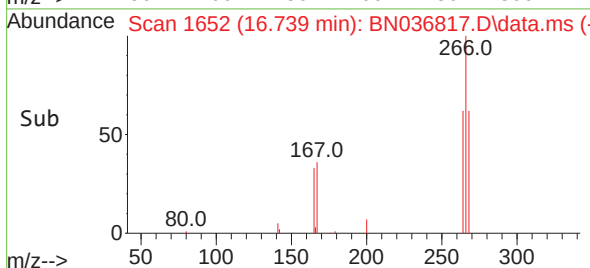
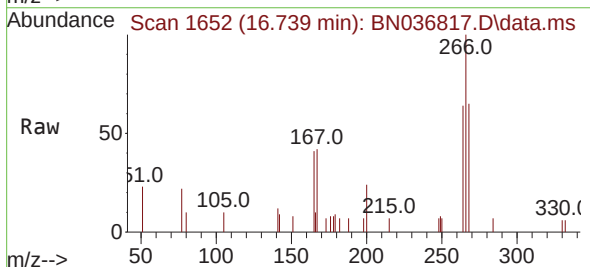
Manual Integrations
APPROVED

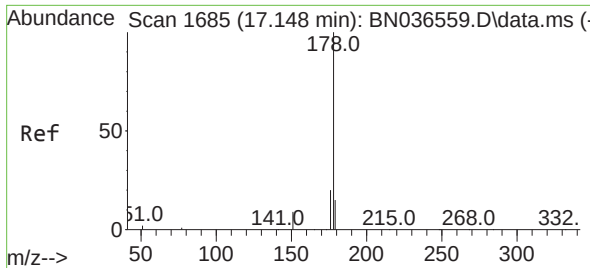
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025



#24
Pentachlorophenol
Concen: 0.445 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.037 min
Lab File: BN036817.D
Acq: 03 Apr 2025 11:47

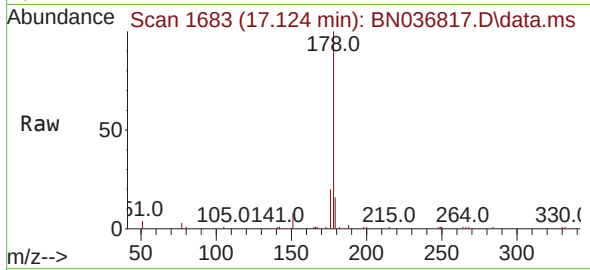
Tgt Ion:266 Resp: 1145
Ion Ratio Lower Upper
266 100
264 61.2 49.6 74.4
268 65.3 50.9 76.3





#25
Phenanthrene
Concen: 0.425 ng
RT: 17.124 min Scan# 1683
Delta R.T. -0.025 min
Lab File: BN036817.D
Acq: 03 Apr 2025 11:47

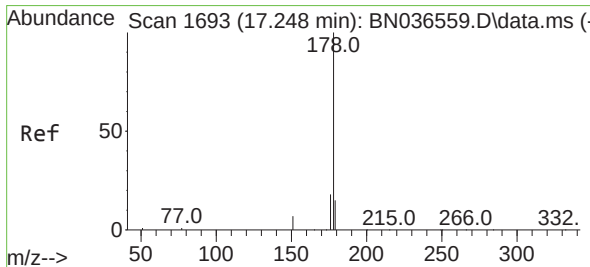
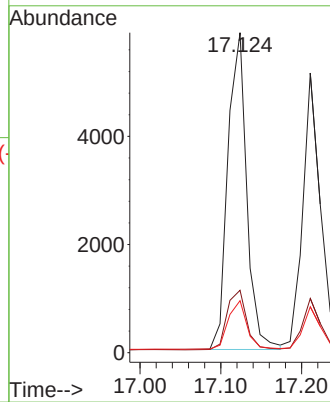
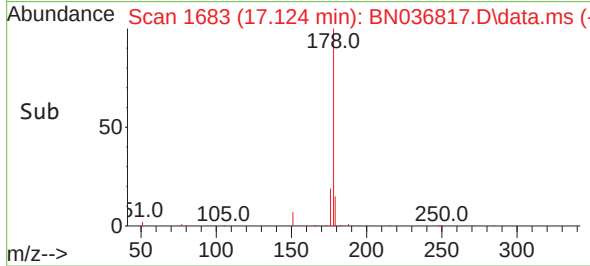
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



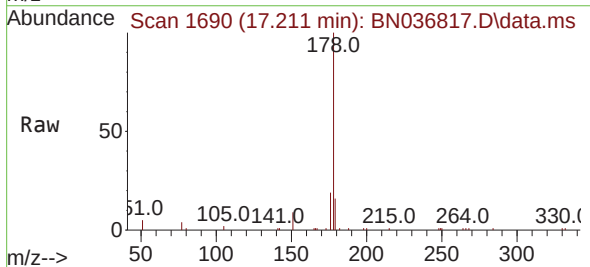
Tgt Ion:178 Resp: 9504
Ion Ratio Lower Upper
178 100
176 19.6 15.9 23.9
179 15.4 12.2 18.4

Manual Integrations
APPROVED

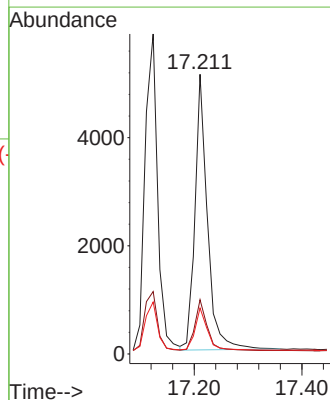
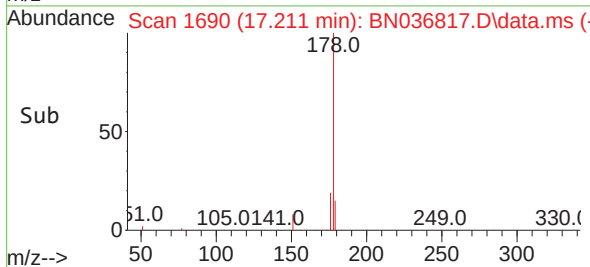
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

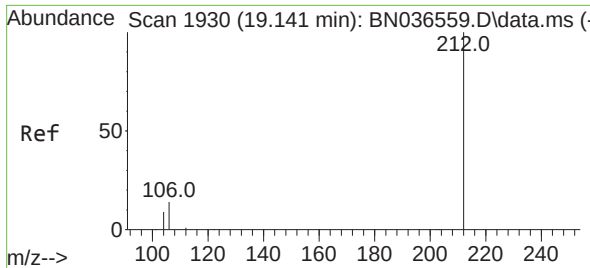


#26
Anthracene
Concen: 0.408 ng
RT: 17.211 min Scan# 1690
Delta R.T. -0.037 min
Lab File: BN036817.D
Acq: 03 Apr 2025 11:47



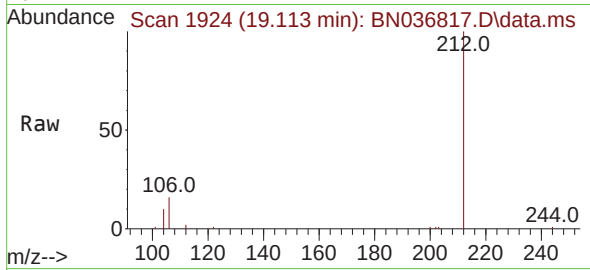
Tgt Ion:178 Resp: 8239
Ion Ratio Lower Upper
178 100
176 18.8 15.4 23.2
179 15.5 12.6 18.8





#27
Fluoranthene-d10
Concen: 0.480 ng
RT: 19.113 min Scan# 1917
Delta R.T. -0.028 min
Lab File: BN036817.D
Acq: 03 Apr 2025 11:47

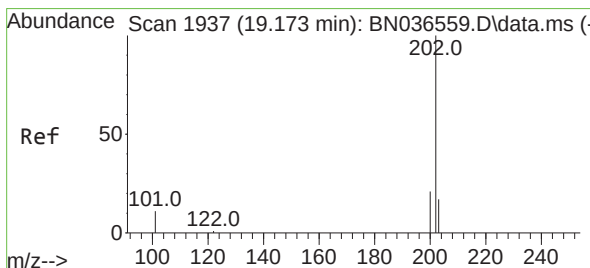
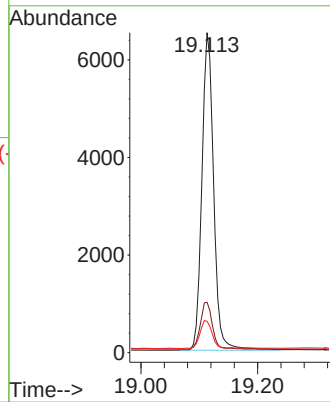
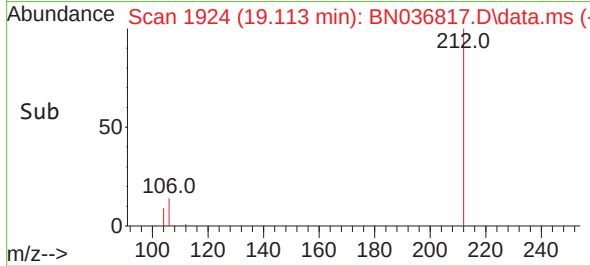
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:212 Resp: 917
Ion Ratio Lower Upper
212 100
106 15.0 11.8 17.6
104 9.0 7.3 10.9

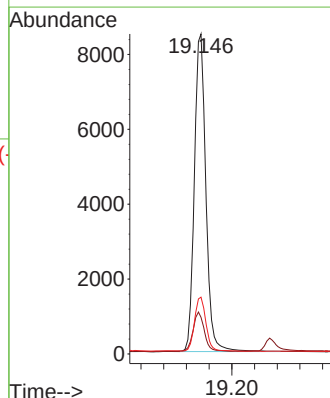
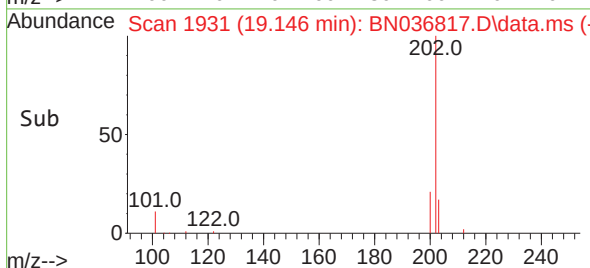
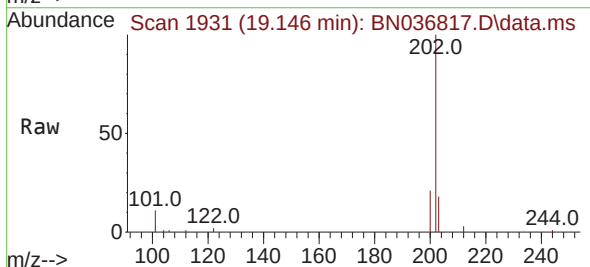
Manual Integrations
APPROVED

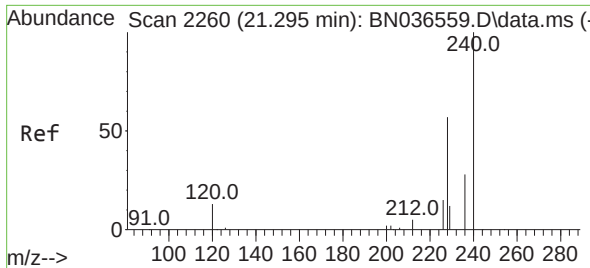
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025



#28
Fluoranthene
Concen: 0.475 ng
RT: 19.146 min Scan# 1931
Delta R.T. -0.028 min
Lab File: BN036817.D
Acq: 03 Apr 2025 11:47

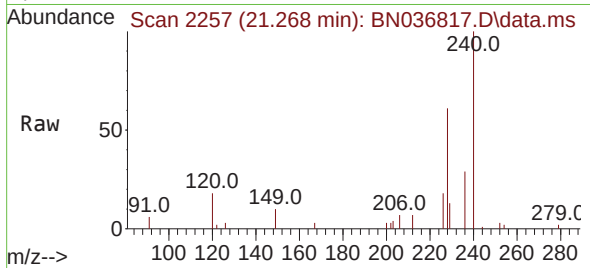
Tgt Ion:202 Resp: 11933
Ion Ratio Lower Upper
202 100
101 12.1 9.4 14.0
203 16.9 13.5 20.3





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.268 min Scan# 21
Delta R.T. -0.027 min
Lab File: BN036817.D
Acq: 03 Apr 2025 11:47

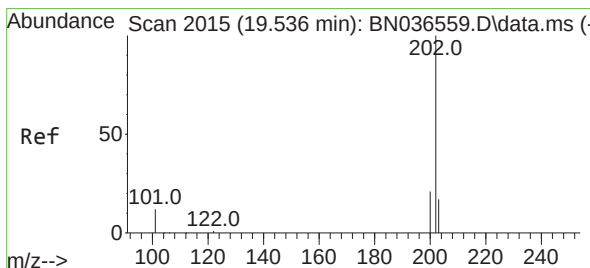
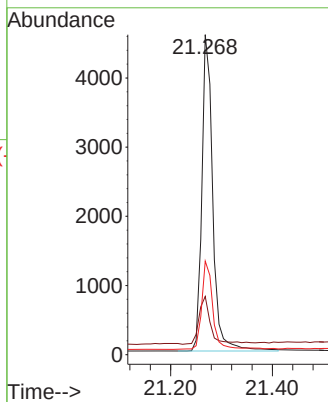
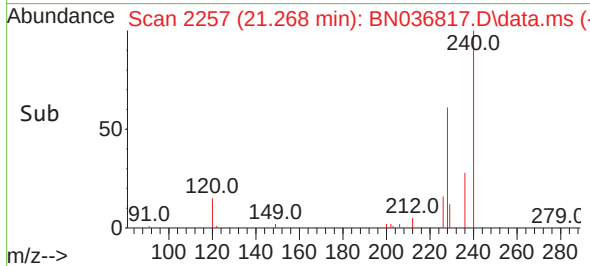
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:240 Resp: 681
Ion Ratio Lower Upper
240 100
120 18.2 14.6 22.0
236 29.2 24.1 36.1

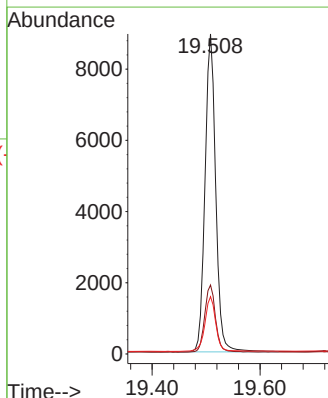
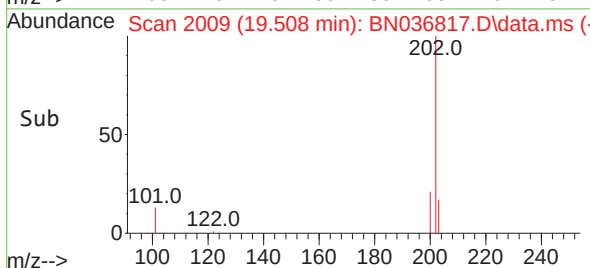
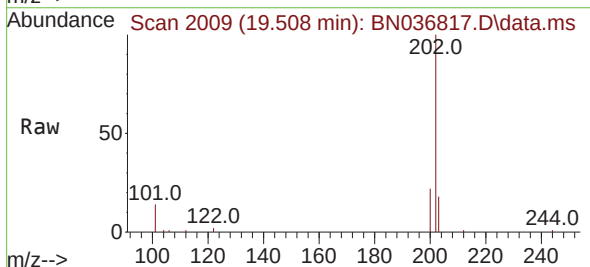
Manual Integrations
APPROVED

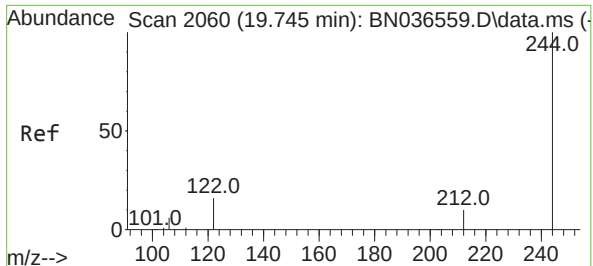
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025



#30
Pyrene
Concen: 0.368 ng
RT: 19.508 min Scan# 2009
Delta R.T. -0.028 min
Lab File: BN036817.D
Acq: 03 Apr 2025 11:47

Tgt Ion:202 Resp: 12267
Ion Ratio Lower Upper
202 100
200 21.4 17.1 25.7
203 17.7 14.1 21.1





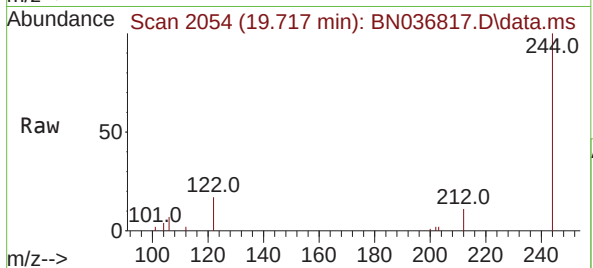
#31
Terphenyl-d14
Concen: 0.379 ng
RT: 19.717 min Scan# 2054
Delta R.T. -0.028 min
Lab File: BN036817.D
Acq: 03 Apr 2025 11:47

Instrument :

BNA_N

ClientSampleId :

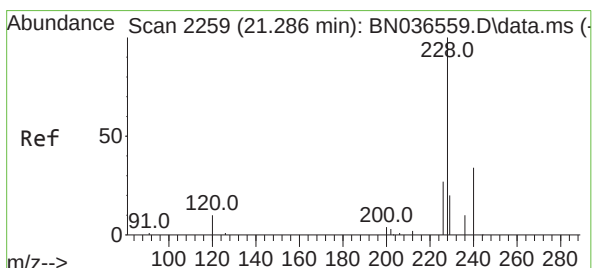
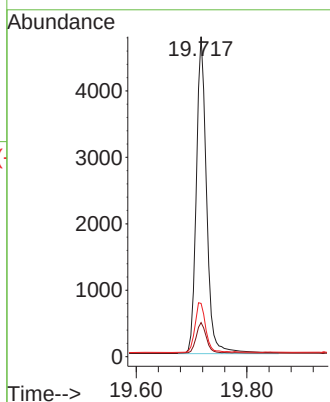
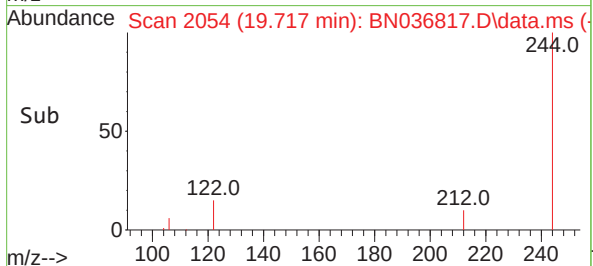
SSTDCCC0.4



Tgt Ion:244 Resp: 618
Ion Ratio Lower Upper
244 100
212 10.6 9.6 14.4
122 16.6 13.9 20.9

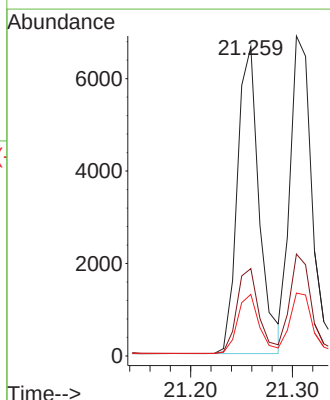
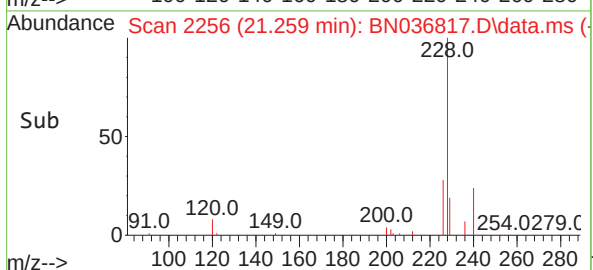
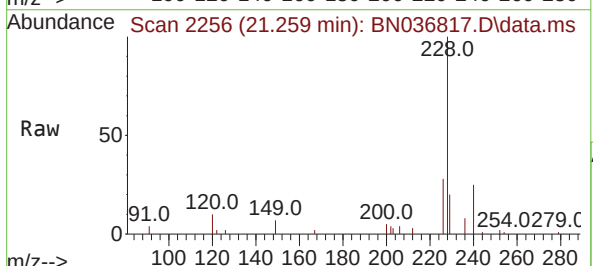
Manual Integrations
APPROVED

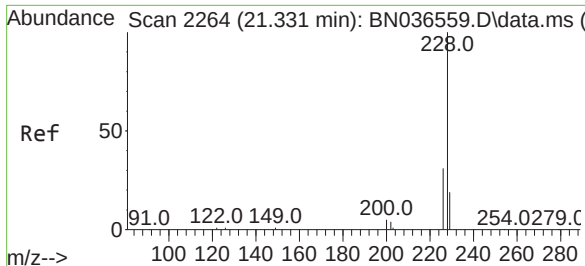
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025



#32
Benzo(a)anthracene
Concen: 0.418 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.027 min
Lab File: BN036817.D
Acq: 03 Apr 2025 11:47

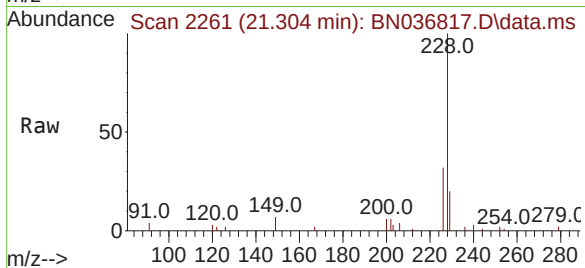
Tgt Ion:228 Resp: 9912
Ion Ratio Lower Upper
228 100
226 28.3 22.5 33.7
229 19.9 16.6 25.0





#33
Chrysene
Concen: 0.413 ng
RT: 21.304 min Scan# 2128
Delta R.T. -0.027 min
Lab File: BN036817.D
Acq: 03 Apr 2025 11:47

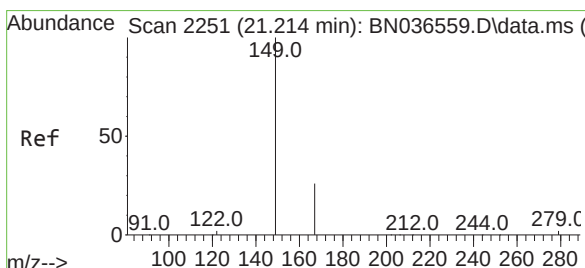
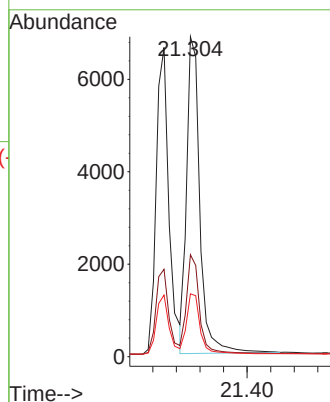
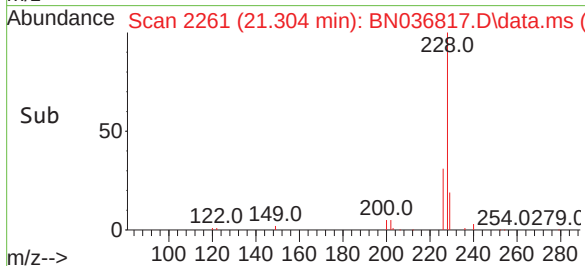
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion: 228 Resp: 1068
Ion Ratio Lower Upper
228 100
226 31.9 25.3 37.9
229 19.6 15.8 23.8

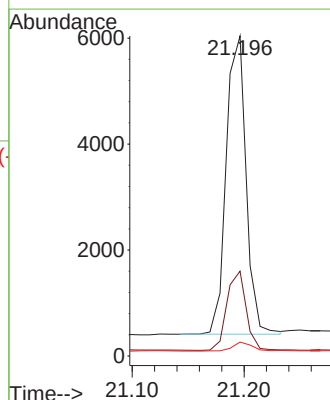
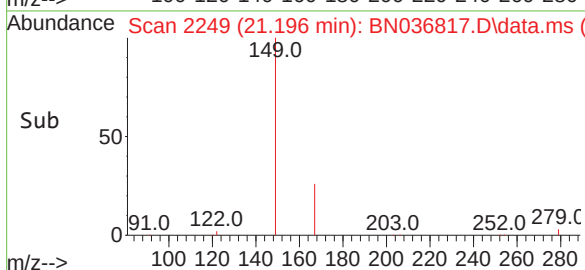
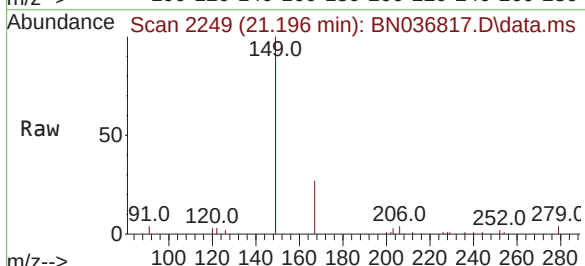
Manual Integrations
APPROVED

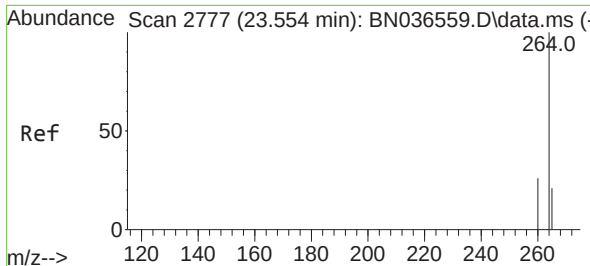
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.412 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036817.D
Acq: 03 Apr 2025 11:47

Tgt Ion: 149 Resp: 6950
Ion Ratio Lower Upper
149 100
167 25.9 20.7 31.1
279 3.1 3.6 5.4#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.514 min Scan# 21

Delta R.T. -0.041 min

Lab File: BN036817.D

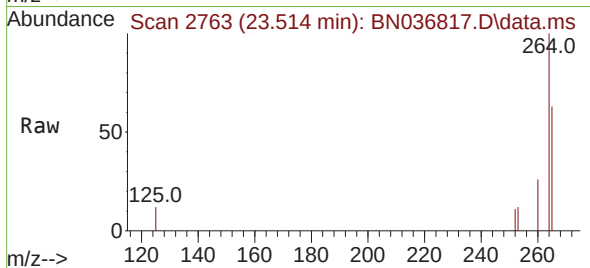
Acq: 03 Apr 2025 11:47

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



Tgt Ion:264 Resp: 611

Ion Ratio Lower Upper

264 100

260 26.4 22.6 33.8

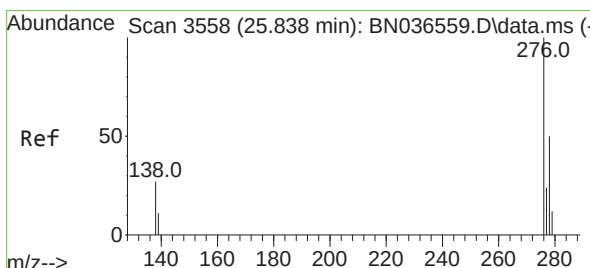
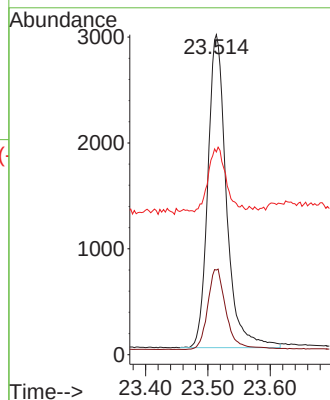
265 63.3 88.1 132.1

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 04/04/2025

Supervised By :Jagrut Upadhyay 04/04/2025



#36

Indeno(1,2,3-cd)pyrene

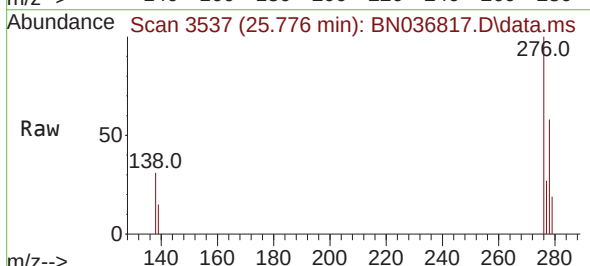
Concen: 0.432 ng

RT: 25.776 min Scan# 3537

Delta R.T. -0.061 min

Lab File: BN036817.D

Acq: 03 Apr 2025 11:47



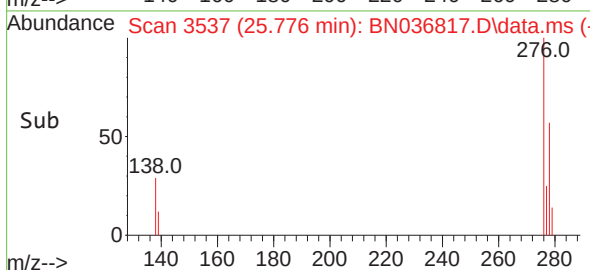
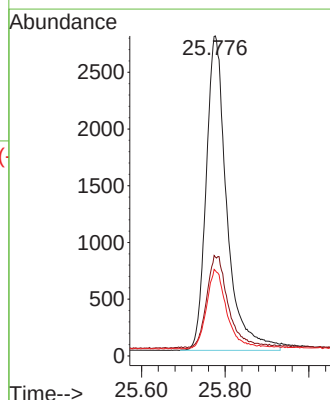
Tgt Ion:276 Resp: 9523

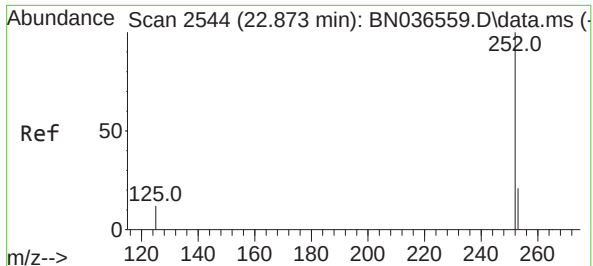
Ion Ratio Lower Upper

276 100

138 30.4 23.4 35.2

277 24.5 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.435 ng

RT: 22.841 min Scan# 21

Delta R.T. -0.032 min

Lab File: BN036817.D

Acq: 03 Apr 2025 11:47

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

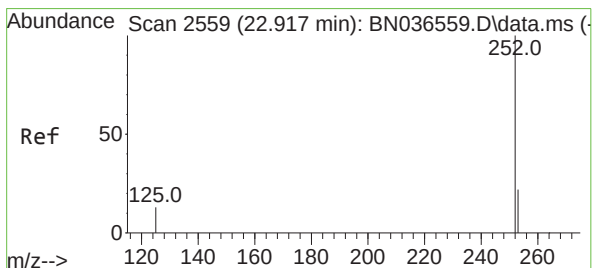
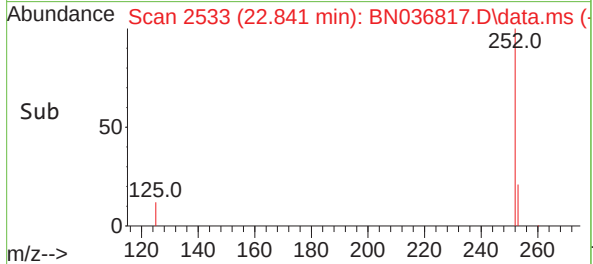
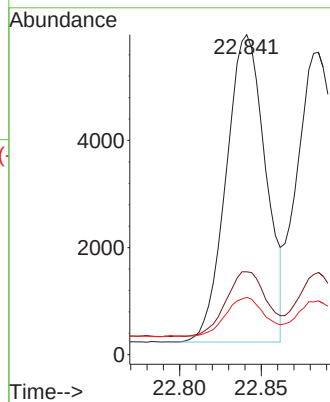
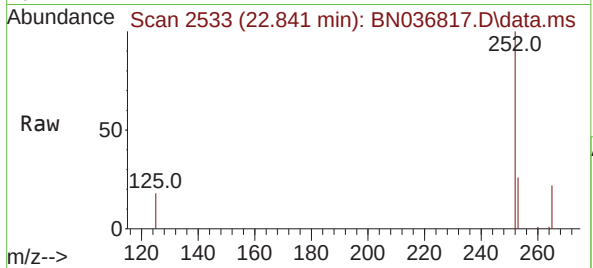
Tgt Ion:252	Resp:	966
Ion Ratio	Lower	Upper
252	100	
253	25.9	23.9 35.9
125	17.9	17.4 26.2

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 04/04/2025

Supervised By :Jagrut Upadhyay 04/04/2025



#38

Benzo(k)fluoranthene

Concen: 0.408 ng m

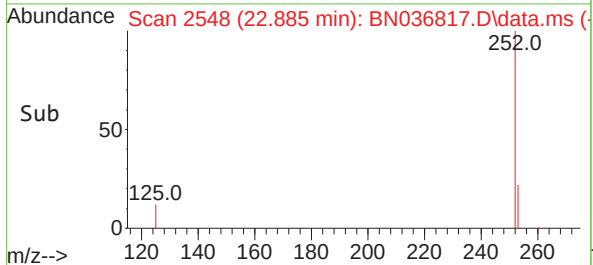
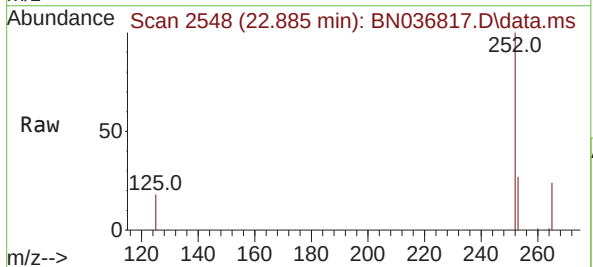
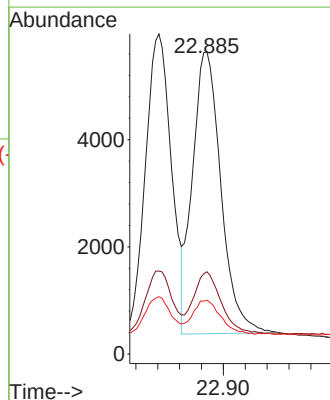
RT: 22.885 min Scan# 2548

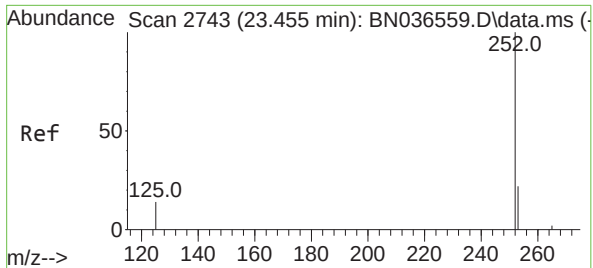
Delta R.T. -0.032 min

Lab File: BN036817.D

Acq: 03 Apr 2025 11:47

Tgt Ion:252	Resp:	9527
Ion Ratio	Lower	Upper
252	100	
253	27.2	24.6 36.8
125	17.8	17.8 26.8#





#39

Benzo(a)pyrene

Concen: 0.435 ng

RT: 23.417 min Scan# 21

Delta R.T. -0.038 min

Lab File: BN036817.D

Acq: 03 Apr 2025 11:47

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

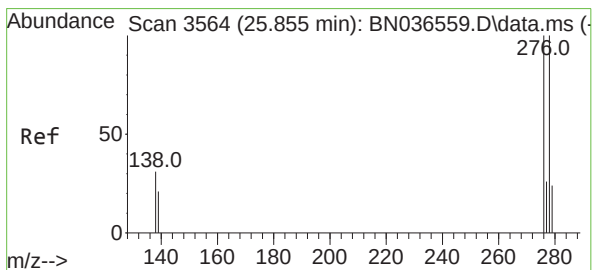
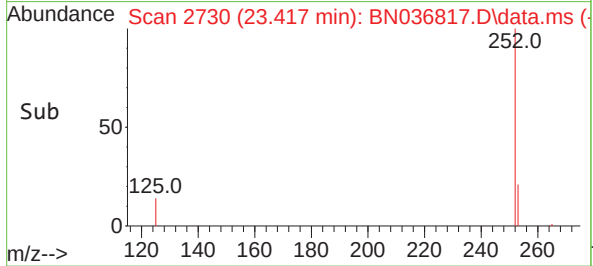
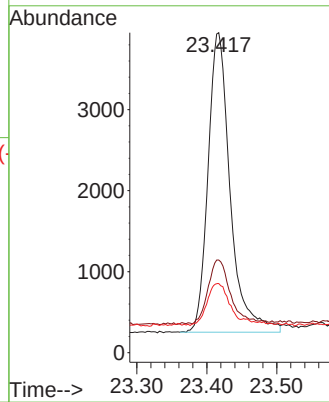
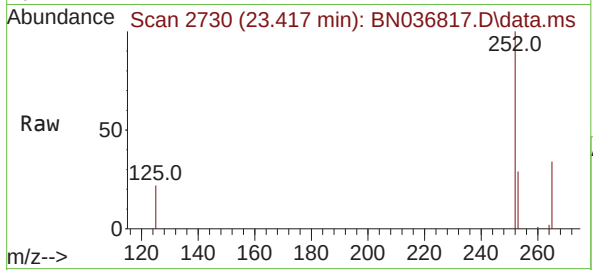
Tgt Ion:	252	Resp:	814
Ion Ratio	Lower	Upper	
252	100		
253	29.0	27.8	41.8
125	21.6	22.7	34.1

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 04/04/2025

Supervised By :Jagrut Upadhyay 04/04/2025



#40

Dibenzo(a,h)anthracene

Concen: 0.432 ng

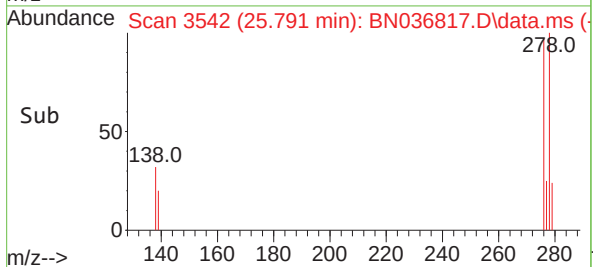
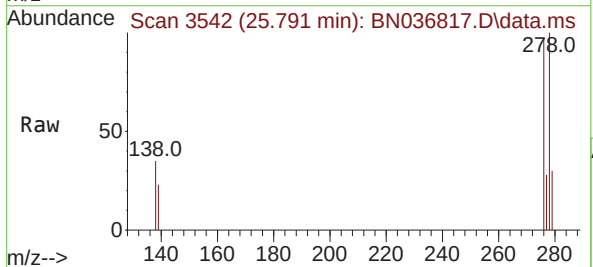
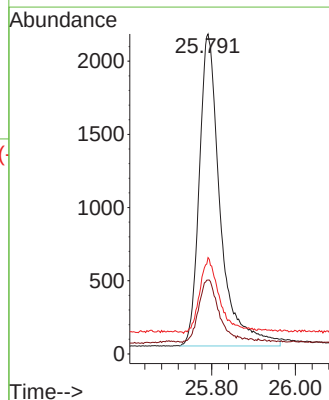
RT: 25.791 min Scan# 3542

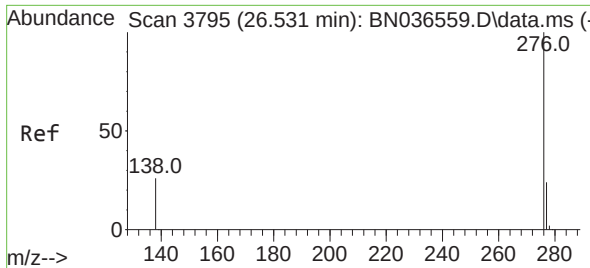
Delta R.T. -0.064 min

Lab File: BN036817.D

Acq: 03 Apr 2025 11:47

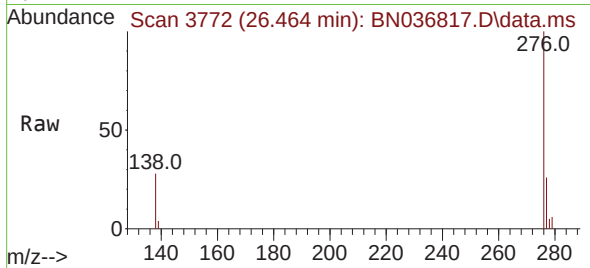
Tgt Ion:	278	Resp:	7424
Ion Ratio	Lower	Upper	
278	100		
139	23.1	20.8	31.2
279	30.1	28.8	43.2





#41
Benzo(g,h,i)perylene
Concen: 0.423 ng
RT: 26.464 min Scan# 31
Delta R.T. -0.067 min
Lab File: BN036817.D
Acq: 03 Apr 2025 11:47

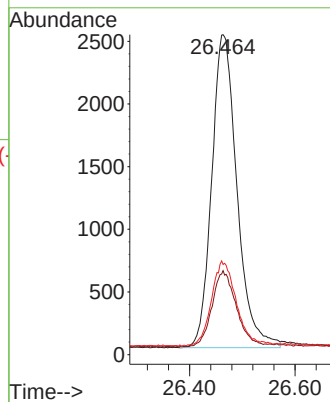
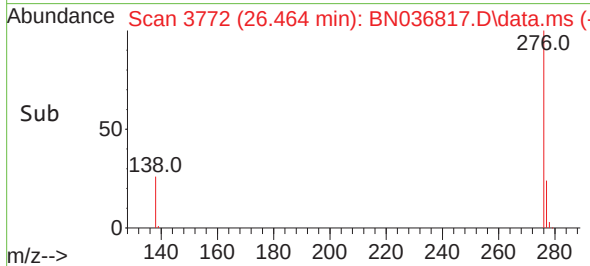
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion: 276 Resp: 8300
Ion Ratio Lower Upper
276 100
277 26.2 22.2 33.4
138 28.2 24.1 36.1

Manual Integrations
APPROVED

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



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN040325\
 Data File : BN036817.D
 Acq On : 03 Apr 2025 11:47
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Apr 04 03:27:44 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Apr 04 03:26:58 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	106	-0.03
2	1,4-Dioxane	0.444	0.469	-5.6	100	-0.01
3	n-Nitrosodimethylamine	0.898	0.896	0.2	102	-0.01
4 S	2-Fluorophenol	0.932	0.987	-5.9	106	-0.03
5 S	Phenol-d6	1.152	1.200	-4.2	113	-0.04
6	bis(2-Chloroethyl)ether	1.190	1.241	-4.3	112	-0.04
7 I	Naphthalene-d8	1.000	1.000	0.0	110	-0.03
8 S	Nitrobenzene-d5	0.435	0.443	-1.8	117	-0.03
9	Naphthalene	1.177	1.213	-3.1	110	-0.04
10	Hexachlorobutadiene	0.277	0.280	-1.1	105	-0.03
11 SURR	2-Methylnaphthalene-d10	0.595	0.639	-7.4	116	-0.04
12	2-Methylnaphthalene	0.749	0.793	-5.9	114	-0.04
13 I	Acenaphthene-d10	1.000	1.000	0.0	116	-0.03
14 S	2,4,6-Tribromophenol	0.182	0.178	2.2	110	-0.02
15 S	2-Fluorobiphenyl	2.327	2.227	4.3	108	-0.03
16	Acenaphthylene	1.888	1.813	4.0	109	-0.02
17	Acenaphthene	1.236	1.241	-0.4	113	-0.03
18	Fluorene	1.672	1.704	-1.9	112	-0.03
19 I	Phenanthrene-d10	1.000	1.000	0.0	124	-0.04
20	4,6-Dinitro-2-methylphenol	0.086	0.084	2.3	135	-0.02
21	4-Bromophenyl-phenylether	0.251	0.248	1.2	113	-0.02
22	Hexachlorobenzene	0.303	0.290	4.3	107	-0.02
23	Atrazine	0.201	0.218	-8.5	127	-0.02
24	Pentachlorophenol	0.138	0.154	-11.6	139	-0.04
25	Phenanthrene	1.200	1.275	-6.2	122	-0.02
26	Anthracene	1.083	1.105	-2.0	120	-0.04
27 SURR	Fluoranthene-d10	1.025	1.231	-20.1	137	-0.03
28	Fluoranthene	1.348	1.601	-18.8	137	-0.03
29 I	Chrysene-d12	1.000	1.000	0.0	166#	-0.03
30	Pyrene	1.956	1.800	8.0	140	-0.03
31 S	Terphenyl-d14	0.958	0.907	5.3	146	-0.03
32	Benzo(a)anthracene	1.391	1.454	-4.5	168#	-0.03
33	Chrysene	1.520	1.567	-3.1	161#	-0.03
34	Bis(2-ethylhexyl)phthalate	0.990	1.020	-3.0	162#	-0.02
35 I	Perylene-d12	1.000	1.000	0.0	173#	-0.04
36	Indeno(1,2,3-cd)pyrene	1.444	1.558	-7.9	174#	-0.06
37	Benzo(b)fluoranthene	1.456	1.582	-8.7	177#	-0.03
38	Benzo(k)fluoranthene	1.527	1.559	-2.1	166#	-0.03
39 C	Benzo(a)pyrene	1.226	1.333	-8.7	177#	-0.04
40	Dibenzo(a,h)anthracene	1.124	1.215	-8.1	180#	-0.06
41	Benzo(g,h,i)perylene	1.286	1.358	-5.6	170#	-0.07

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN040325\
Data File : BN036817.D
Acq On : 03 Apr 2025 11:47
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Apr 04 03:27:44 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 04 03:26:58 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	106	-0.03
2	1,4-Dioxane	0.400	0.423	-5.7	100	-0.01
3	n-Nitrosodimethylamine	0.400	0.399	0.3	102	-0.01
4 S	2-Fluorophenol	0.400	0.423	-5.7	106	-0.03
5 S	Phenol-d6	0.400	0.417	-4.2	113	-0.04
6	bis(2-Chloroethyl)ether	0.400	0.417	-4.2	112	-0.04
7 I	Naphthalene-d8	0.400	0.400	0.0	110	-0.03
8 S	Nitrobenzene-d5	0.400	0.407	-1.7	117	-0.03
9	Naphthalene	0.400	0.412	-3.0	110	-0.04
10	Hexachlorobutadiene	0.400	0.405	-1.3	105	-0.03
11 SURR	2-Methylnaphthalene-d10	0.400	0.430	-7.5	116	-0.04
12	2-Methylnaphthalene	0.400	0.424	-6.0	114	-0.04
13 I	Acenaphthene-d10	0.400	0.400	0.0	116	-0.03
14 S	2,4,6-Tribromophenol	0.400	0.392	2.0	110	-0.02
15 S	2-Fluorobiphenyl	0.400	0.383	4.3	108	-0.03
16	Acenaphthylene	0.400	0.384	4.0	109	-0.02
17	Acenaphthene	0.400	0.402	-0.5	113	-0.03
18	Fluorene	0.400	0.408	-2.0	112	-0.03
19 I	Phenanthrene-d10	0.400	0.400	0.0	124	-0.04
20	4,6-Dinitro-2-methylphenol	0.400	0.473	-18.2	135	-0.02
21	4-Bromophenyl-phenylether	0.400	0.396	1.0	113	-0.02
22	Hexachlorobenzene	0.400	0.384	4.0	107	-0.02
23	Atrazine	0.400	0.435	-8.7	127	-0.02
24	Pentachlorophenol	0.400	0.445	-11.2	139	-0.04
25	Phenanthrene	0.400	0.425	-6.2	122	-0.02
26	Anthracene	0.400	0.408	-2.0	120	-0.04
27 SURR	Fluoranthene-d10	0.400	0.480	-20.0	137	-0.03
28	Fluoranthene	0.400	0.475	-18.7	137	-0.03
29 I	Chrysene-d12	0.400	0.400	0.0	166	-0.03
30	Pyrene	0.400	0.368	8.0	140	-0.03
31 S	Terphenyl-d14	0.400	0.379	5.3	146	-0.03
32	Benzo(a)anthracene	0.400	0.418	-4.5	168	-0.03
33	Chrysene	0.400	0.413	-3.2	161	-0.03
34	Bis(2-ethylhexyl)phthalate	0.400	0.412	-3.0	162	-0.02
35 I	Perylene-d12	0.400	0.400	0.0	173	-0.04
36	Indeno(1,2,3-cd)pyrene	0.400	0.432	-8.0	174	-0.06
37	Benzo(b)fluoranthene	0.400	0.435	-8.7	177	-0.03
38	Benzo(k)fluoranthene	0.400	0.408	-2.0	166	-0.03
39 C	Benzo(a)pyrene	0.400	0.435	-8.7	177	-0.04
40	Dibenzo(a,h)anthracene	0.400	0.432	-8.0	180	-0.06
41	Benzo(g,h,i)perylene	0.400	0.423	-5.7	170	-0.07

(#) = Out of Range

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



QC SAMPLE DATA

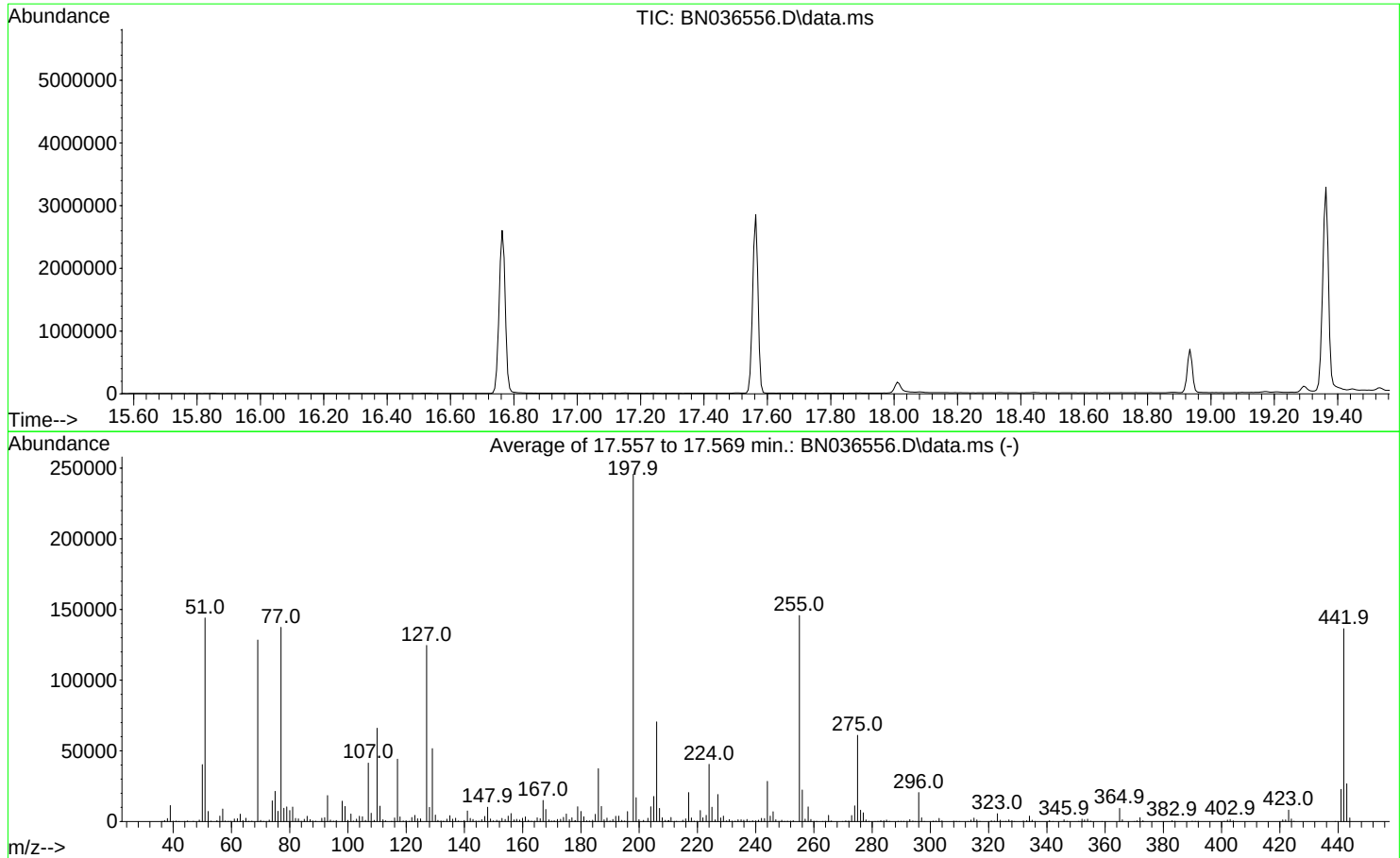
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036556.D
Acq On : 10 Mar 2025 11:03
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

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



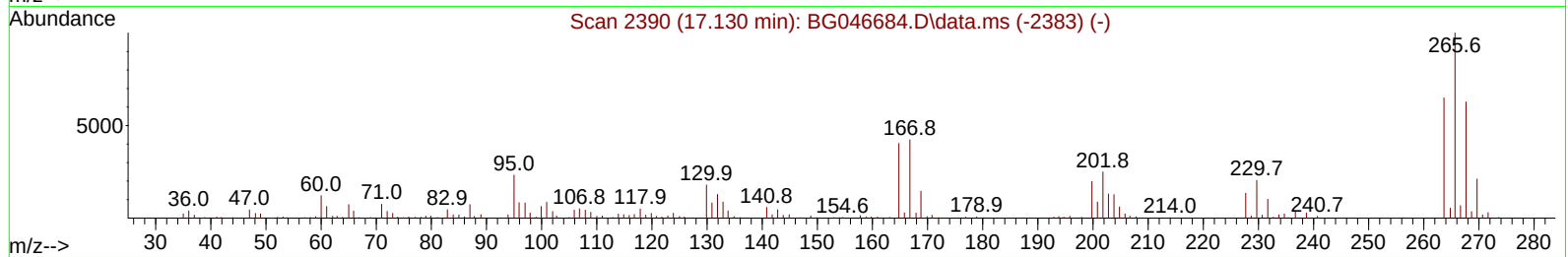
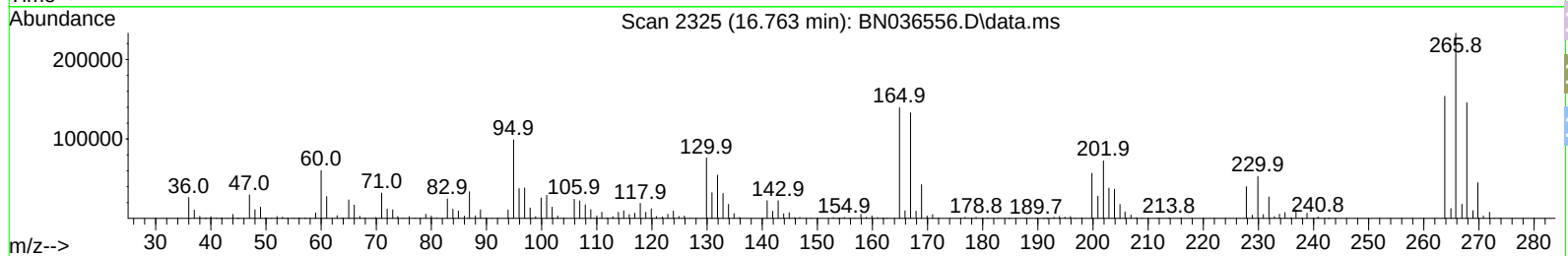
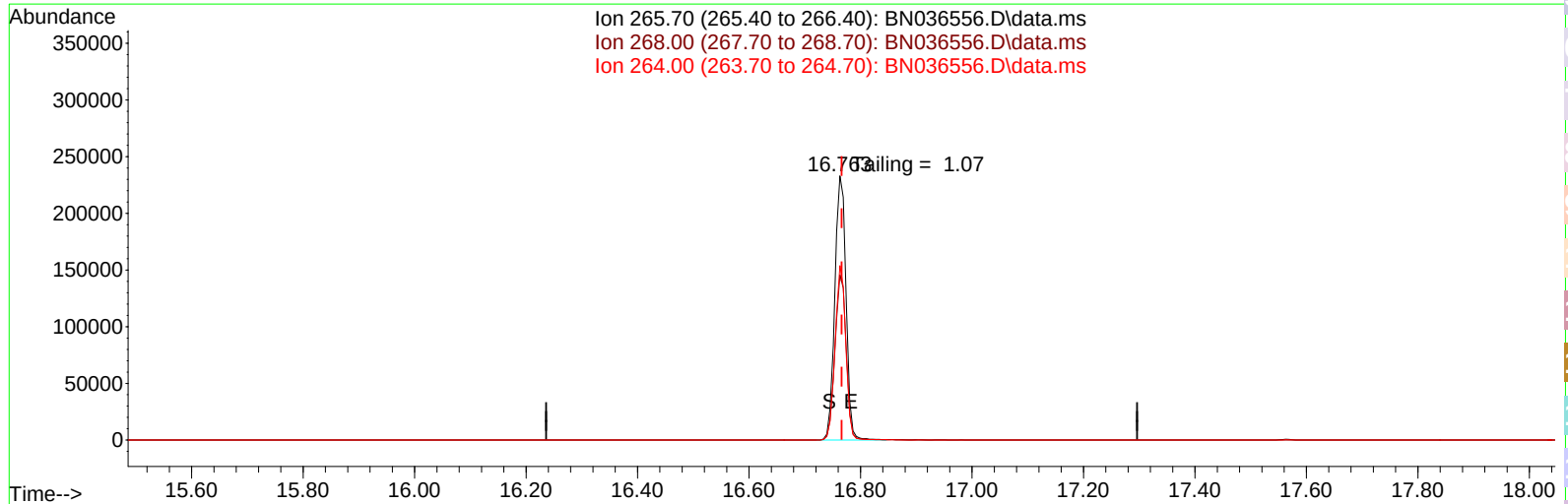
AutoFind: Scans 2460, 2461, 2462; Background Corrected with Scan 2453

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	58.6	144050	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	52.3	128410	PASS
70	69	0.00	2	0.7	835	PASS
127	198	10	80	50.7	124576	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	245632	PASS
199	198	5	9	6.9	16887	PASS
275	198	10	60	24.8	60997	PASS
365	198	1	100	3.8	9349	PASS
441	198	0.01	100	9.3	22761	PASS
442	442	50	100	100.0	136488	PASS
443	442	15	24	19.6	26765	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036556.D
Acq On : 10 Mar 2025 11:03
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Mar 10 17:07:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 25 04:23:53 2024
Response via : Initial Calibration



TIC: BN036556.D\data.ms

(70) Pentachlorophenol (C)

16.763min (-0.003) 23577.14 ng

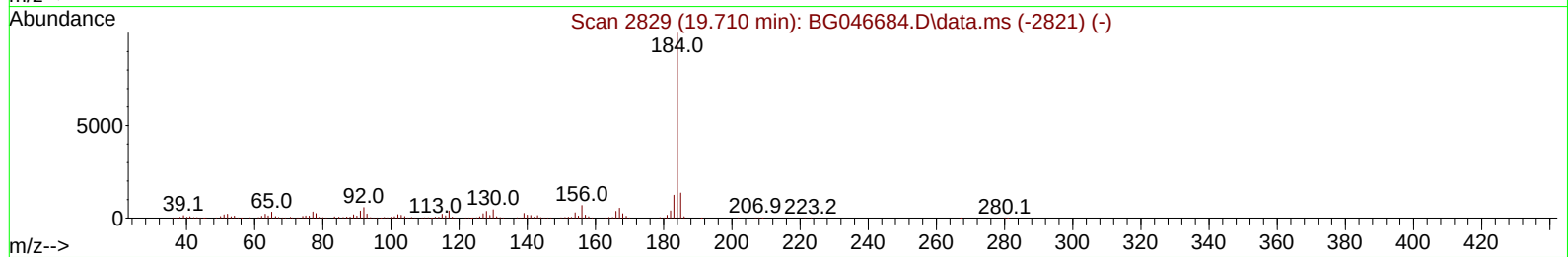
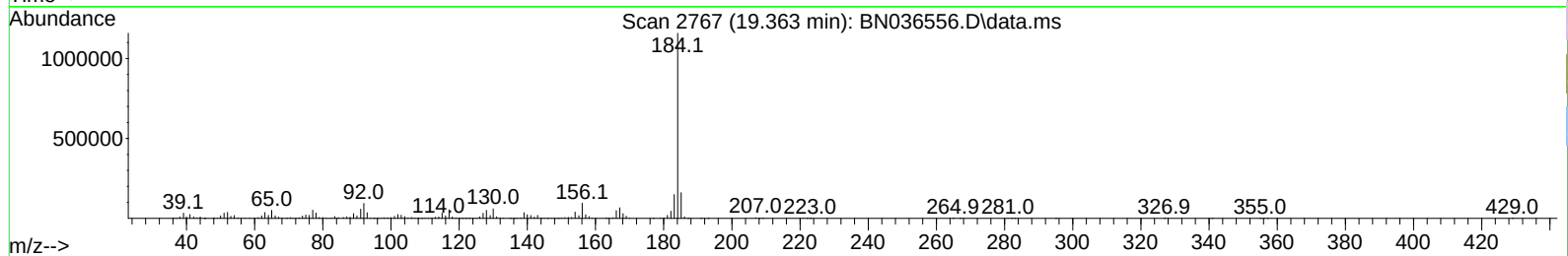
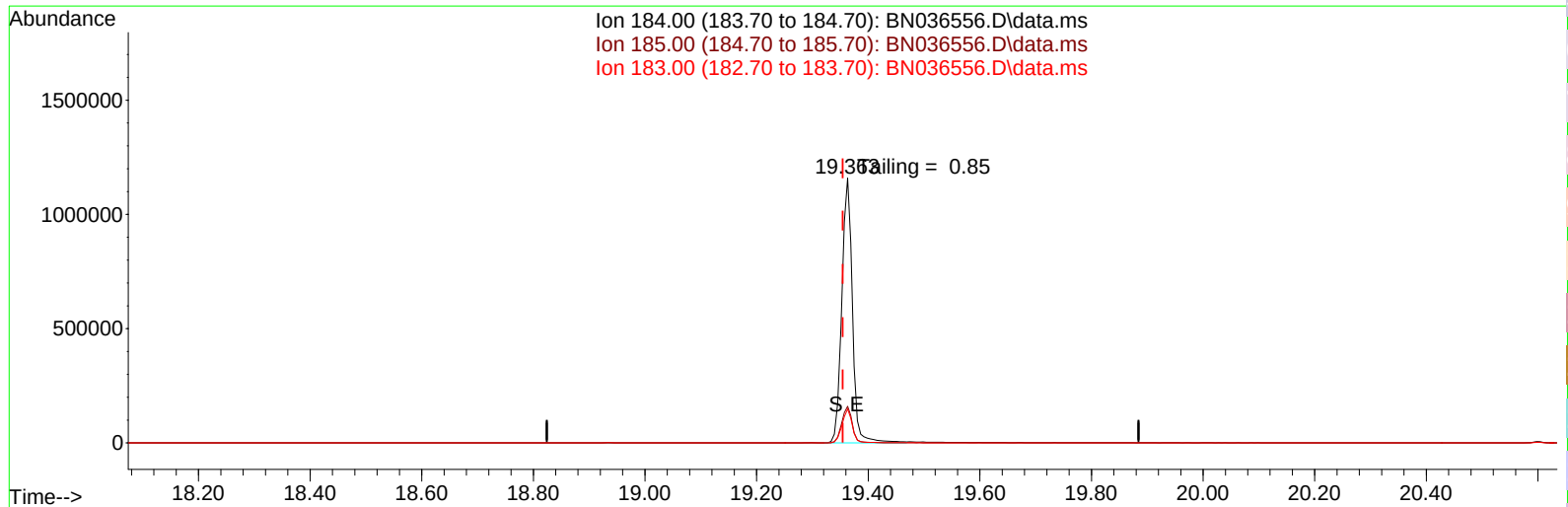
response 323613

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	62.52
264.00	61.60	66.01
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036556.D
Acq On : 10 Mar 2025 11:03
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Mar 10 17:07:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 25 04:23:53 2024
Response via : Initial Calibration



TIC: BN036556.D\data.ms

(77) Benzidine

19.363min (+ 0.009) 0.00 ng

response 1553313

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.86
183.00	13.20	12.85
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

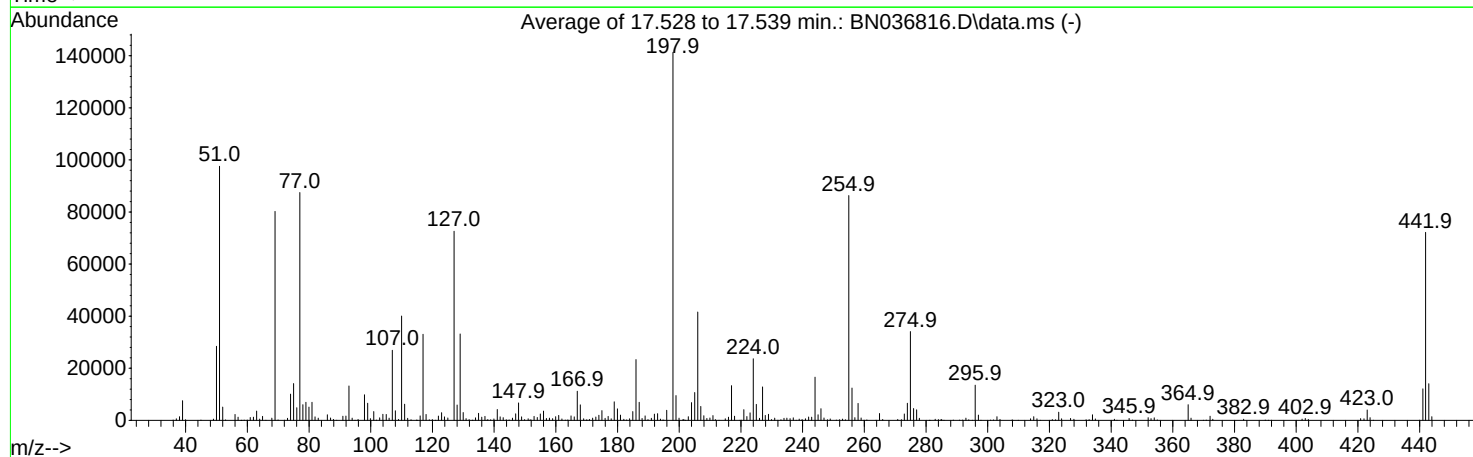
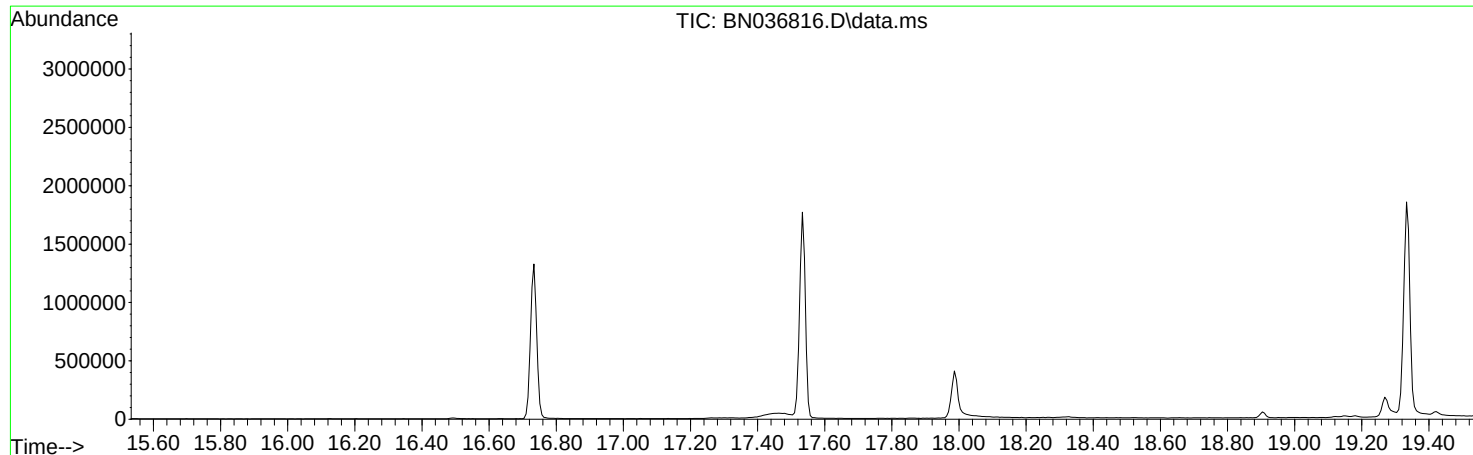
Date	Instrument Name	DFTPP Data File
3/10/2025	BNA_N	<u>BN036556.D</u>
Compound Name	Response	Retention Time
DDT	1110406	20.598
DDD	11596	20.21
DDE	530	19.645
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
12126	1122532	1.08

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN040325\
Data File : BN036816.D
Acq On : 03 Apr 2025 11:08
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Apr 04 03:26:58 2025



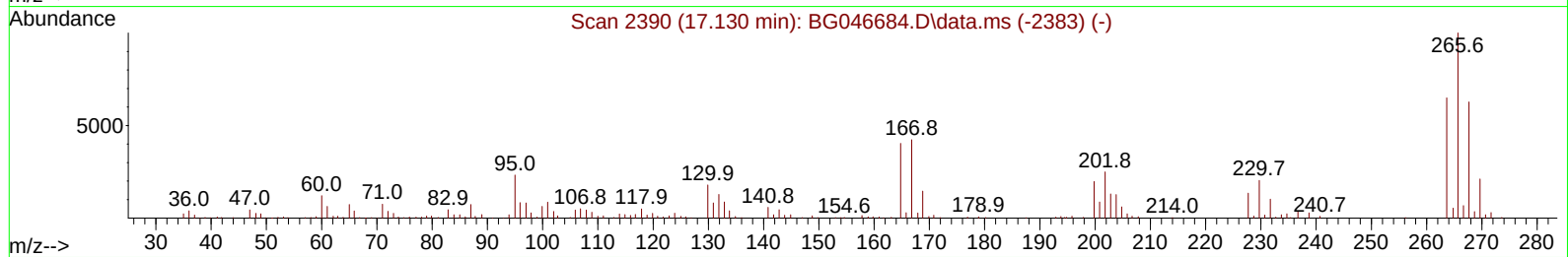
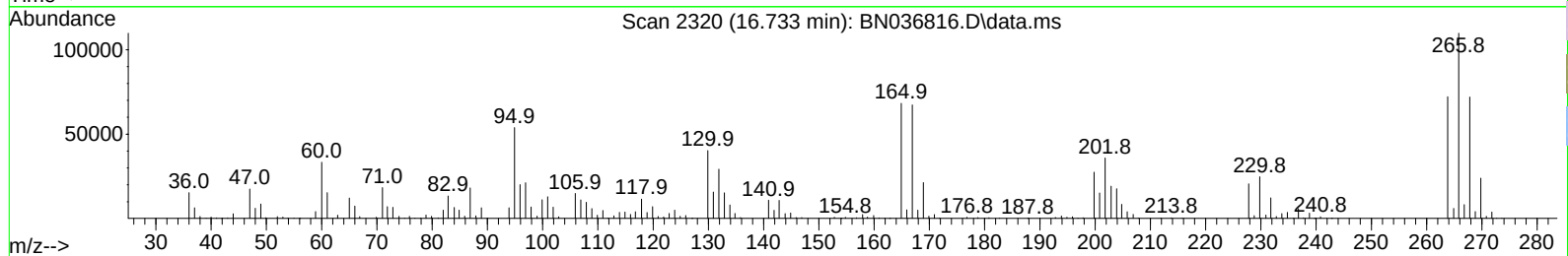
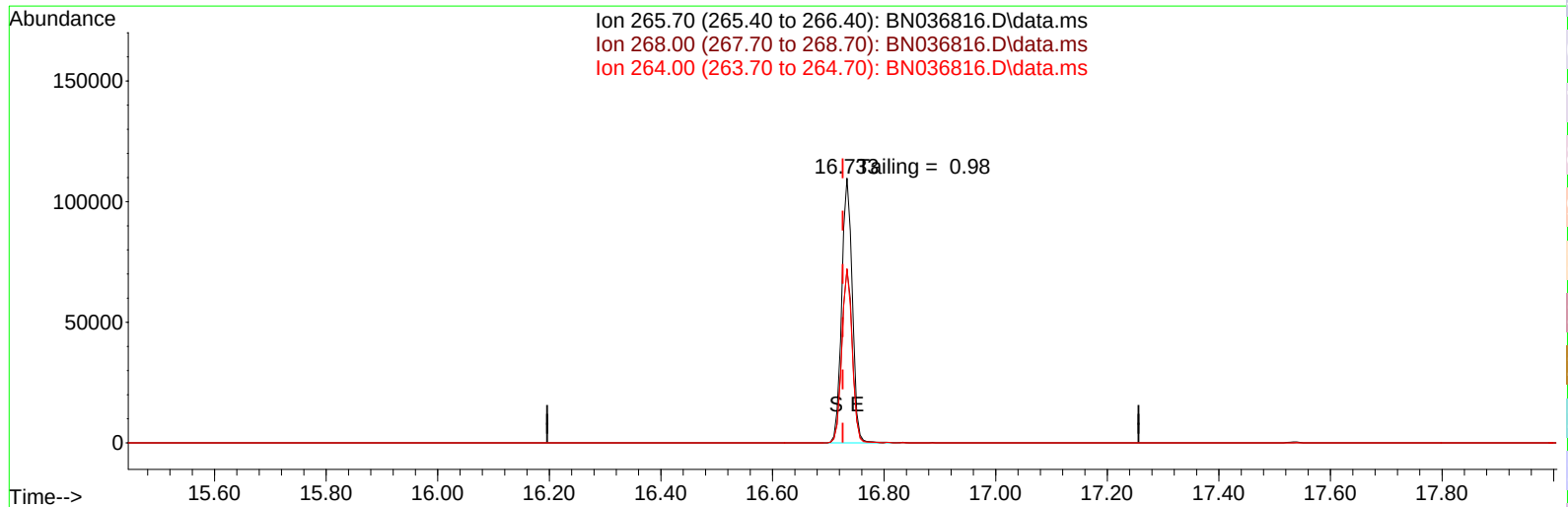
AutoFind: Scans 2455, 2456, 2457; Background Corrected with Scan 2448

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	69.1	97555	PASS
68	69	0.00	2	1.1	870	PASS
69	198	0.00	100	56.8	80233	PASS
70	69	0.00	2	0.2	177	PASS
127	198	10	80	51.4	72618	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	141227	PASS
199	198	5	9	6.8	9559	PASS
275	198	10	60	24.2	34109	PASS
365	198	1	100	4.3	6027	PASS
441	198	0.01	100	8.6	12097	PASS
442	442	50	100	100.0	72160	PASS
443	442	15	24	19.5	14074	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN040325\
Data File : BN036816.D
Acq On : 03 Apr 2025 11:08
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Apr 03 14:18:17 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Apr 03 14:16:27 2025
Response via : Initial Calibration



TIC: BN036816.D\data.ms

(70) Pentachlorophenol (C)

16.733min (+ 0.007) 15766.87 ng

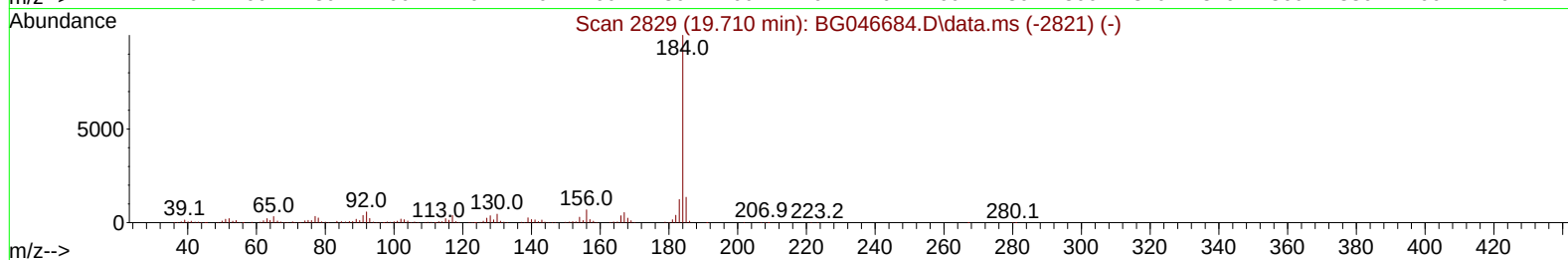
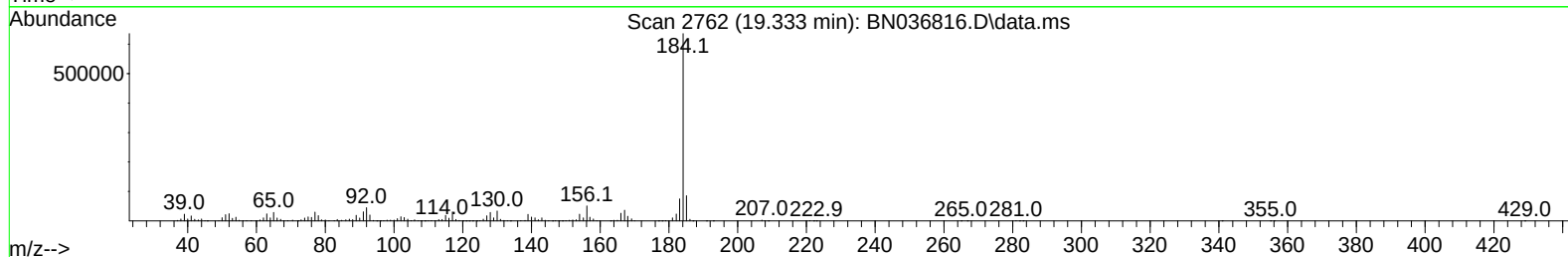
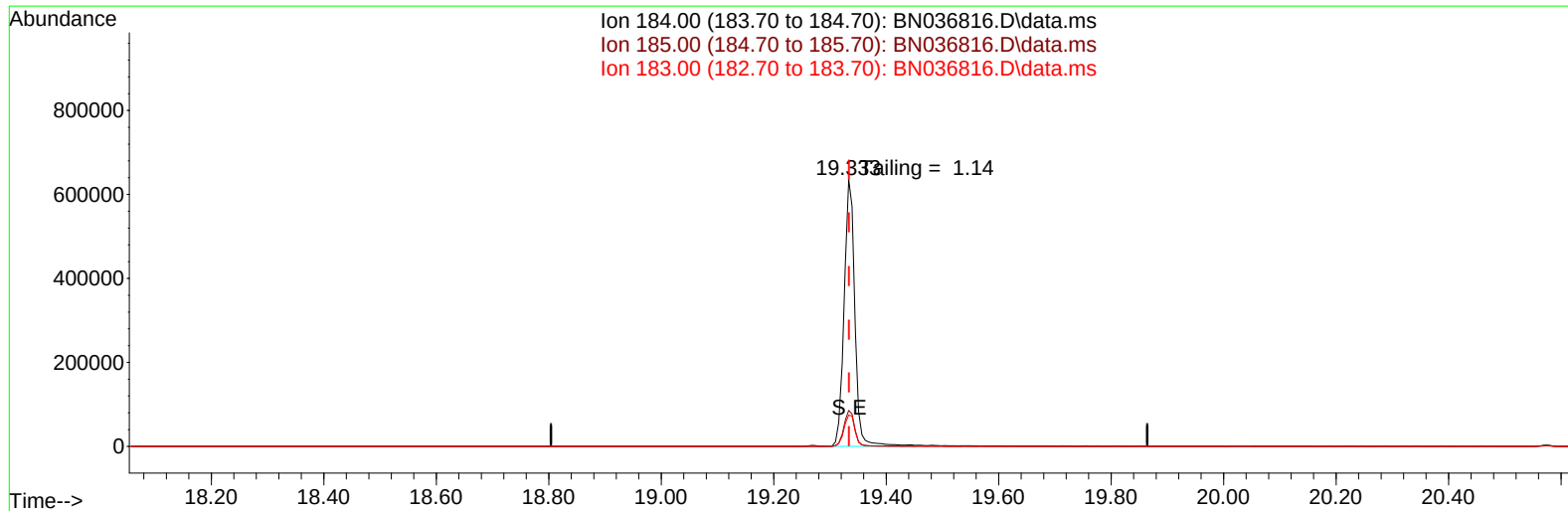
response 145132

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	65.56
264.00	61.60	65.78
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN040325\
Data File : BN036816.D
Acq On : 03 Apr 2025 11:08
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Apr 03 14:25:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Apr 03 14:16:27 2025
Response via : Initial Calibration



TIC: BN036816.D\data.ms

(77) Benzidine

19.333min (-0.001) 0.00 ng

response 839528

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.48
183.00	13.20	11.75
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
4/3/2025	BNA_N	<u>BN036816.D</u>
Compound Name	Response	Retention Time
DDT	569032	20.574
DDD	7825	20.186
DDE	69	19.622
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
7894	576926	1.37

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger STC PTC Site # D3868221	Date Received:	
Client Sample ID:	PB167450BL	SDG No.:	Q1711
Lab Sample ID:	PB167450BL	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
BN036829.D	1	04/03/25 13:10	04/03/25 19:02	PB167450

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
123-91-1	1,4-Dioxane	0.070	U	0.070	0.20	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.31		30 (20) - 150 (139)	78%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.40		30 (30) - 150 (150)	100%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.30		30 (27) - 130 (154)	74%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.26		30 (25) - 130 (149)	64%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.34		30 (54) - 130 (175)	84%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	1840	7.695			
1146-65-2	Naphthalene-d8	3910	10.498			
15067-26-2	Acenaphthene-d10	2190	14.345			
1517-22-2	Phenanthrene-d10	4460	17.099			
1719-03-5	Chrysene-d12	3840	21.277			
1520-96-3	Perylene-d12	3490	23.522			

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\BN040325\
Data File : BN036829.D
Acq On : 03 Apr 2025 19:02
Operator : RC/JU
Sample : PB167450BL
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB167450BL

Quant Time: Apr 04 00:56:48 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.695	152	1836	0.400	ng	-0.03
7) Naphthalene-d8	10.498	136	3906	0.400	ng	-0.01
13) Acenaphthene-d10	14.345	164	2194	0.400	ng	-0.02
19) Phenanthrene-d10	17.099	188	4456	0.400	ng	#-0.01
29) Chrysene-d12	21.277	240	3841	0.400	ng	-0.02
35) Perylene-d12	23.522	264	3492	0.400	ng	-0.03
System Monitoring Compounds						
4) 2-Fluorophenol	5.290	112	1644	0.384	ng	-0.02
5) Phenol-d6	6.872	99	1668	0.316	ng	-0.03
8) Nitrobenzene-d5	8.865	82	1256	0.296	ng	-0.01
11) 2-Methylnaphthalene-d10	12.096	152	1811	0.312	ng	-0.02
14) 2,4,6-Tribromophenol	15.858	330	312	0.313	ng	0.00
15) 2-Fluorobiphenyl	12.983	172	3249	0.255	ng	0.00
27) Fluoranthene-d10	19.122	212	4552	0.399	ng	-0.02
31) Terphenyl-d14	19.722	244	3114	0.338	ng	-0.02

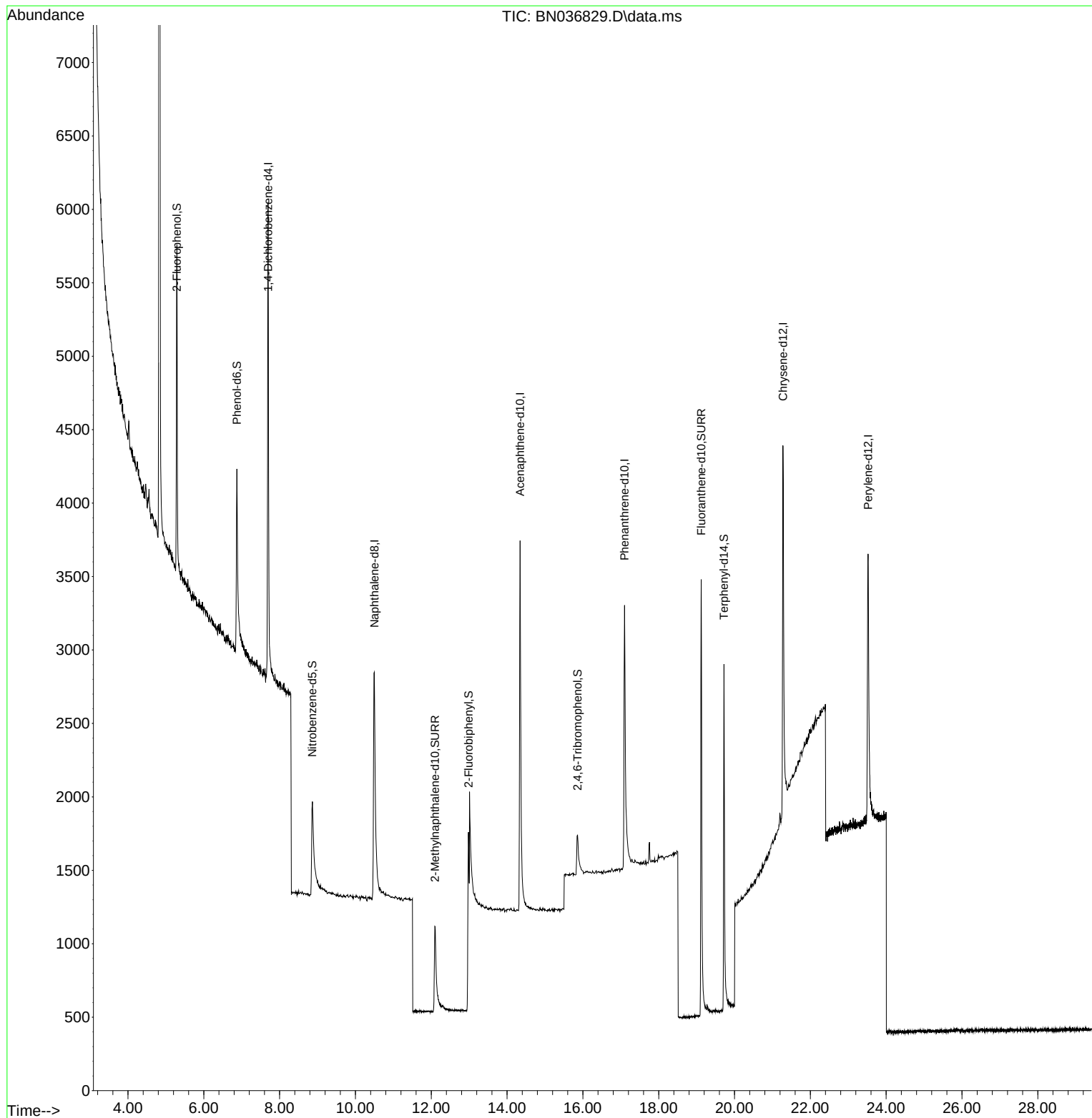
Target Compounds	Qvalue
------------------	--------

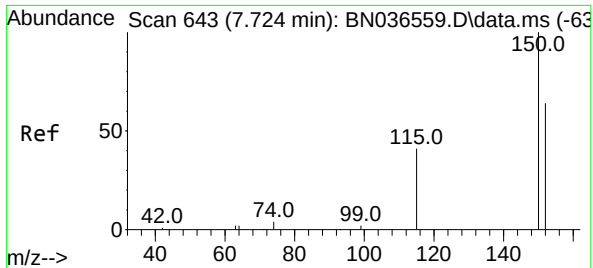
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN040325\
Data File : BN036829.D
Acq On : 03 Apr 2025 19:02
Operator : RC/JU
Sample : PB167450BL
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB167450BL

Quant Time: Apr 04 00:56:48 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

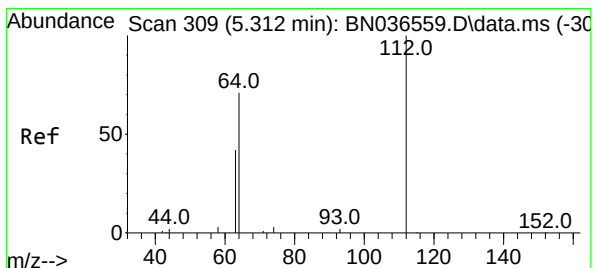
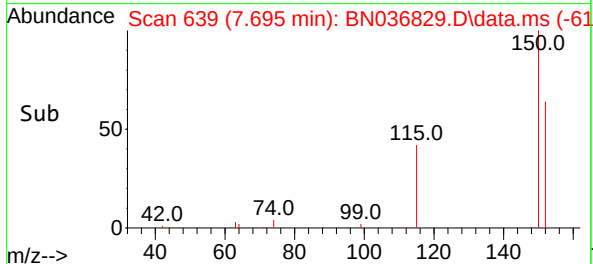
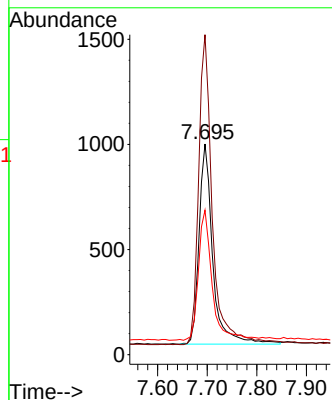
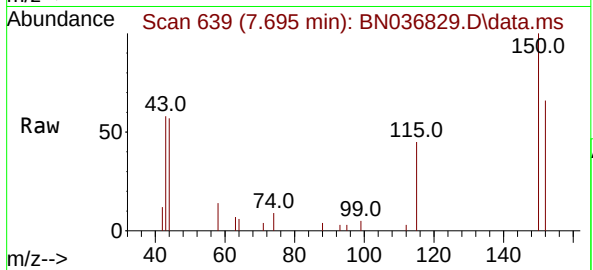




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.695 min Scan# 61
Delta R.T. -0.029 min
Lab File: BN036829.D
Acq: 03 Apr 2025 19:02

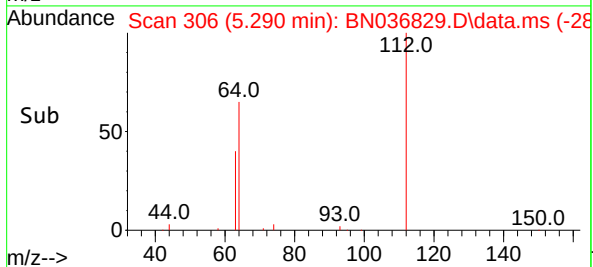
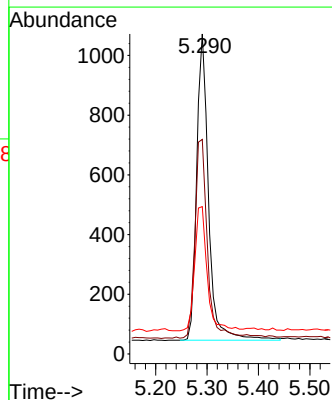
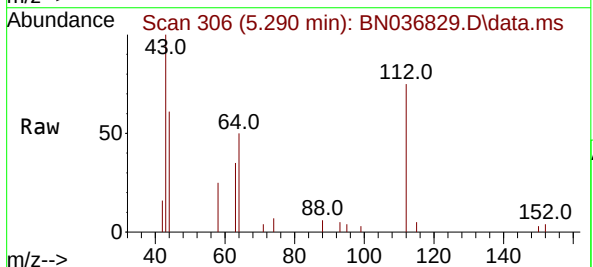
Instrument :
BNA_N
ClientSampleId :
PB167450BL

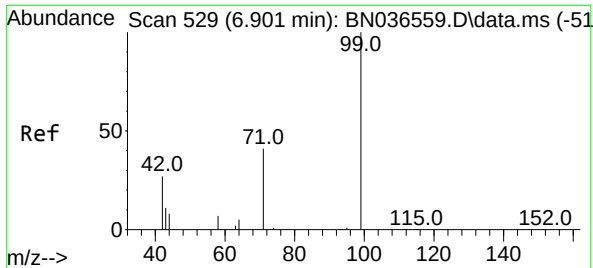
Tgt Ion:152 Resp: 1836
Ion Ratio Lower Upper
152 100
150 151.9 123.7 185.5
115 68.6 54.3 81.5



#4
2-Fluorophenol
Concen: 0.384 ng
RT: 5.290 min Scan# 306
Delta R.T. -0.022 min
Lab File: BN036829.D
Acq: 03 Apr 2025 19:02

Tgt Ion:112 Resp: 1644
Ion Ratio Lower Upper
112 100
64 68.3 53.1 79.7
63 42.3 31.8 47.8

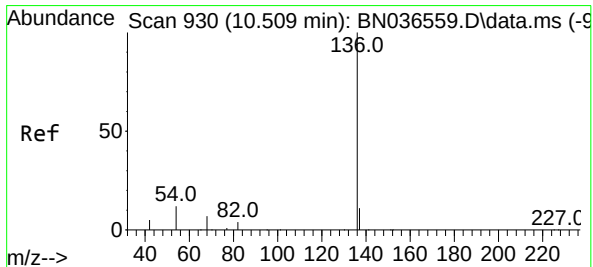
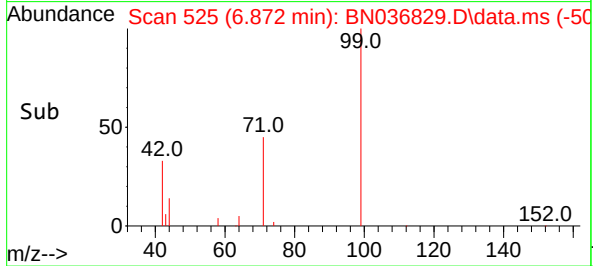
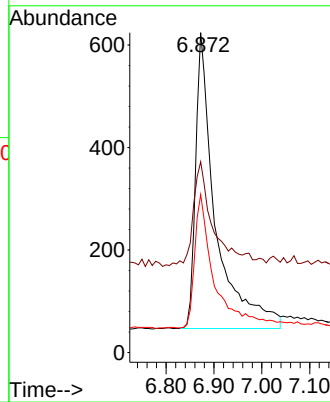
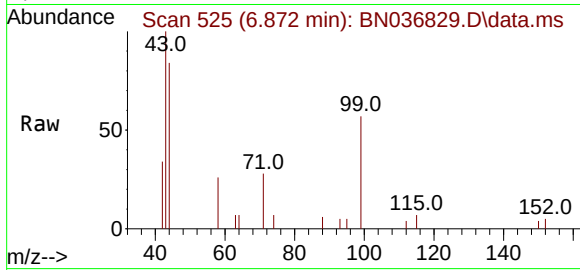




#5
Phenol-d6
Concen: 0.316 ng
RT: 6.872 min Scan# 511
Delta R.T. -0.029 min
Lab File: BN036829.D
Acq: 03 Apr 2025 19:02

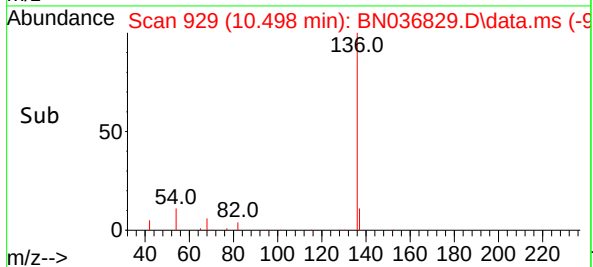
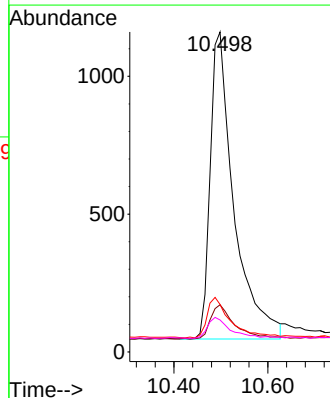
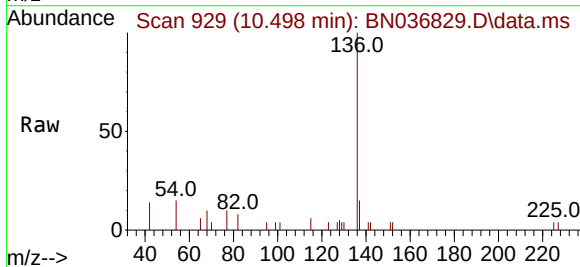
Instrument :
BNA_N
ClientSampleId :
PB167450BL

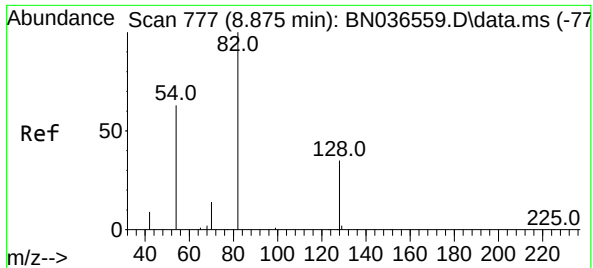
Tgt Ion: 99 Resp: 1668
Ion Ratio Lower Upper
99 100
42 36.1 26.5 39.7
71 45.6 34.1 51.1



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 929
Delta R.T. -0.011 min
Lab File: BN036829.D
Acq: 03 Apr 2025 19:02

Tgt Ion: 136 Resp: 3906
Ion Ratio Lower Upper
136 100
137 14.7 10.3 15.5
54 14.8 11.5 17.3
68 10.0 7.0 10.4

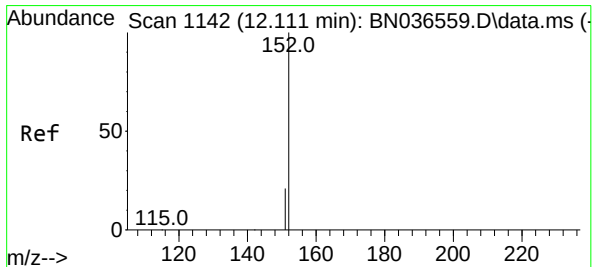
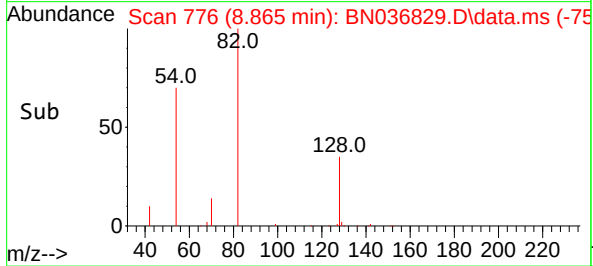
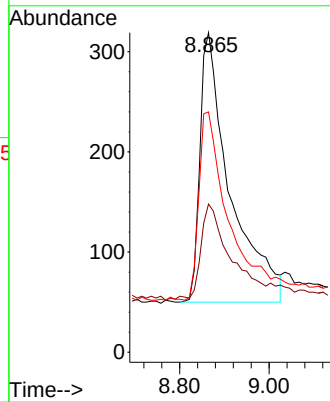
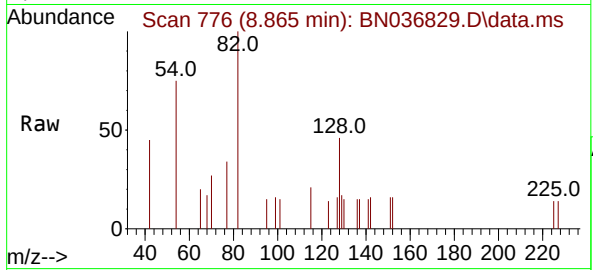




#8
Nitrobenzene-d5
Concen: 0.296 ng
RT: 8.865 min Scan# 71
Delta R.T. -0.011 min
Lab File: BN036829.D
Acq: 03 Apr 2025 19:02

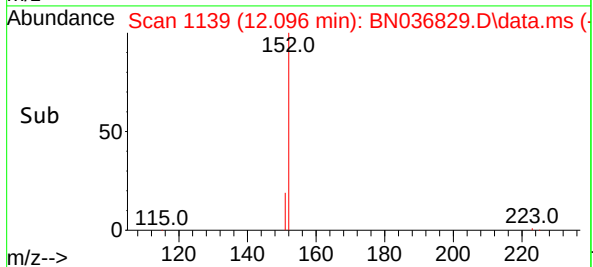
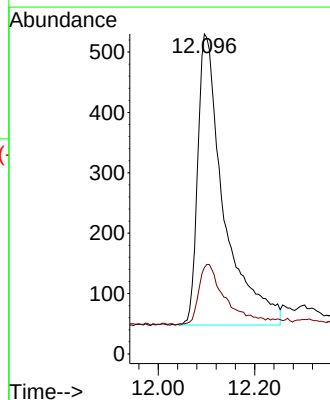
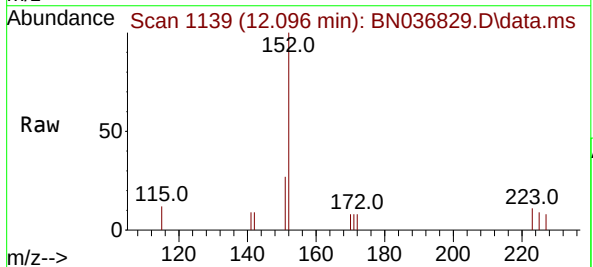
Instrument :
BNA_N
ClientSampleId :
PB167450BL

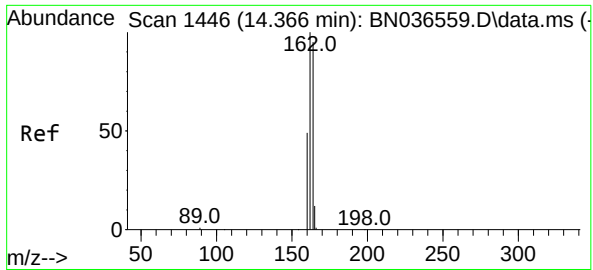
Tgt Ion: 82 Resp: 1256
Ion Ratio Lower Upper
82 100
128 46.4 30.6 45.8#
54 75.2 52.2 78.4



#11
2-Methylnaphthalene-d10
Concen: 0.312 ng
RT: 12.096 min Scan# 1139
Delta R.T. -0.015 min
Lab File: BN036829.D
Acq: 03 Apr 2025 19:02

Tgt Ion: 152 Resp: 1811
Ion Ratio Lower Upper
152 100
151 21.4 17.0 25.6

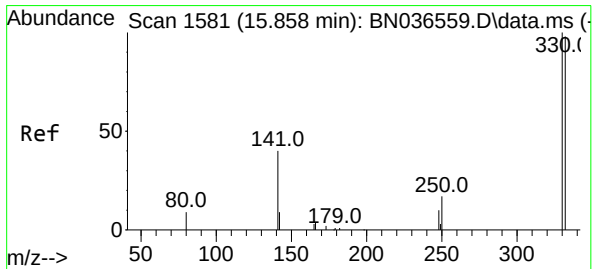
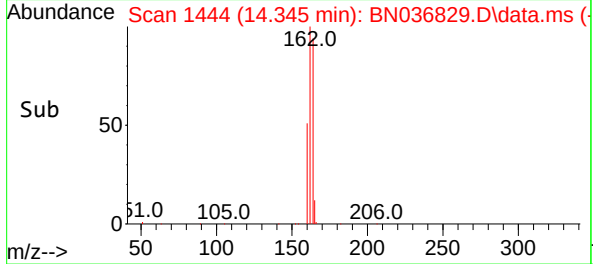
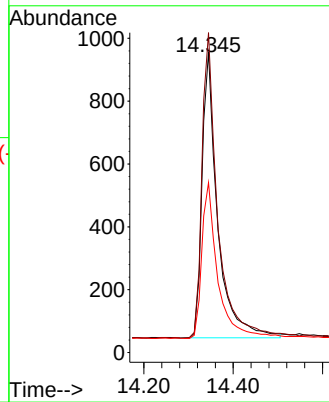
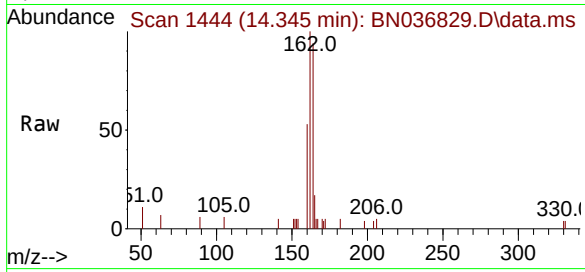




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 1444
Delta R.T. -0.021 min
Lab File: BN036829.D
Acq: 03 Apr 2025 19:02

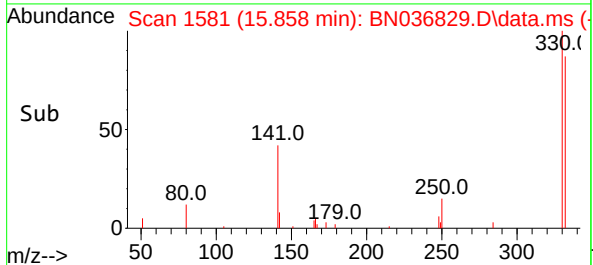
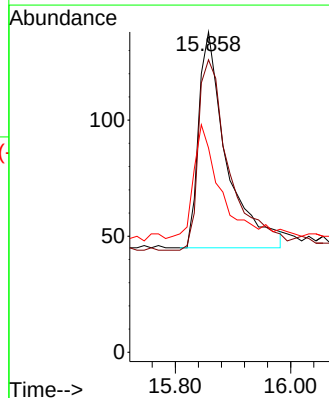
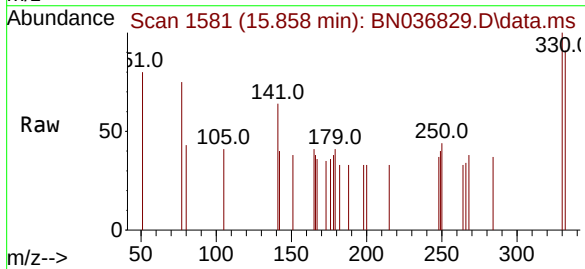
Instrument :
BNA_N
ClientSampleId :
PB167450BL

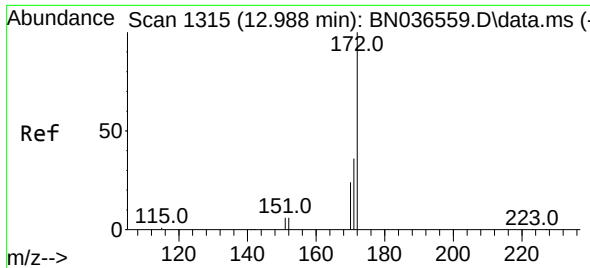
Tgt Ion:164 Resp: 2194
Ion Ratio Lower Upper
164 100
162 106.5 84.2 126.2
160 56.6 42.2 63.2



#14
2,4,6-Tribromophenol
Concen: 0.313 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036829.D
Acq: 03 Apr 2025 19:02

Tgt Ion:330 Resp: 312
Ion Ratio Lower Upper
330 100
332 99.0 75.2 112.8
141 51.3 43.4 65.2

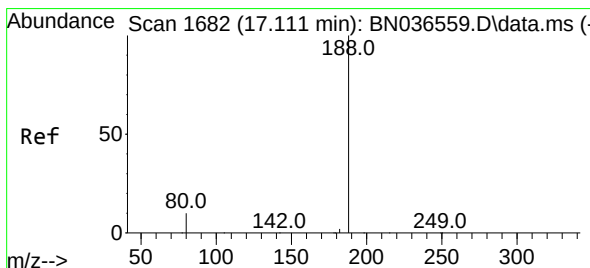
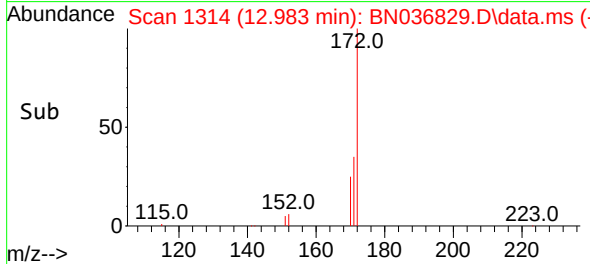
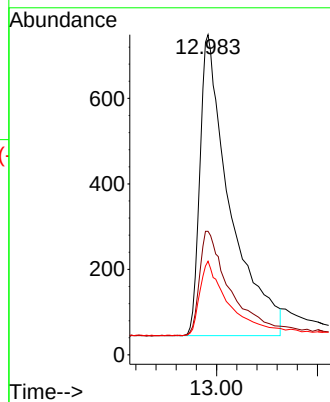
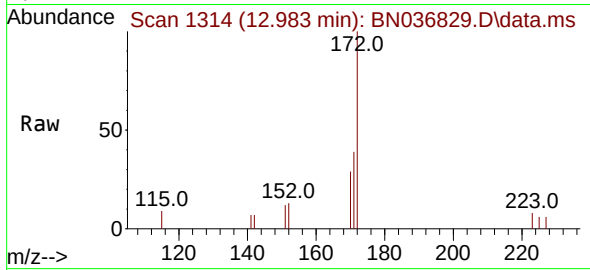




#15
2-Fluorobiphenyl
Concen: 0.255 ng
RT: 12.983 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN036829.D
Acq: 03 Apr 2025 19:02

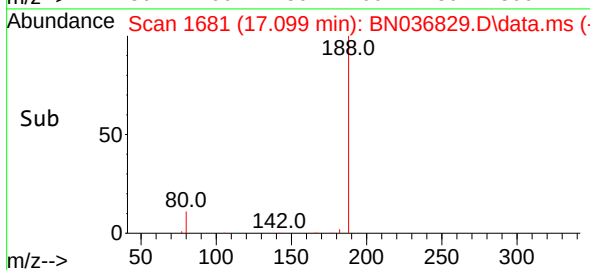
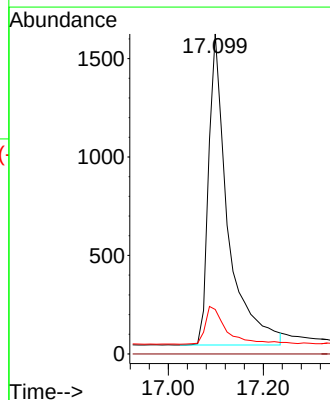
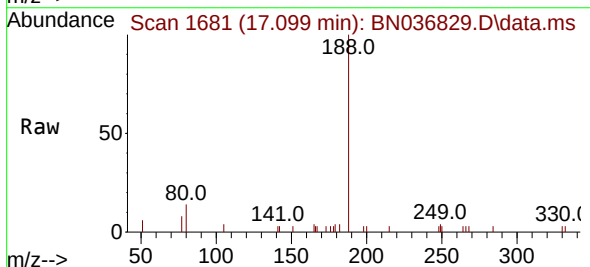
Instrument :
BNA_N
ClientSampleId :
PB167450BL

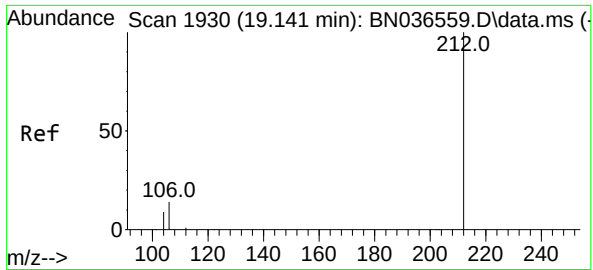
Tgt Ion:172 Resp: 3249
Ion Ratio Lower Upper
172 100
171 38.6 29.5 44.3
170 29.2 20.2 30.4



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1681
Delta R.T. -0.012 min
Lab File: BN036829.D
Acq: 03 Apr 2025 19:02

Tgt Ion:188 Resp: 4456
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 13.9 8.8 13.2#

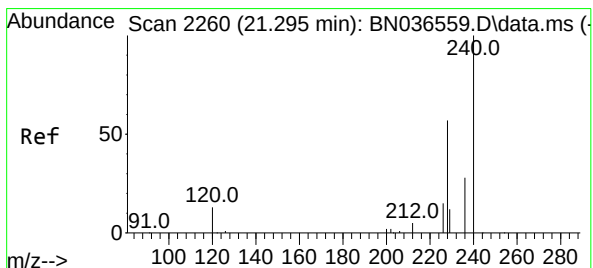
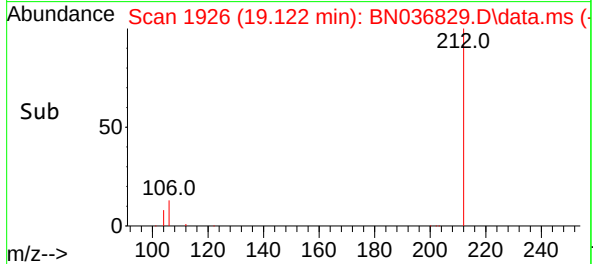
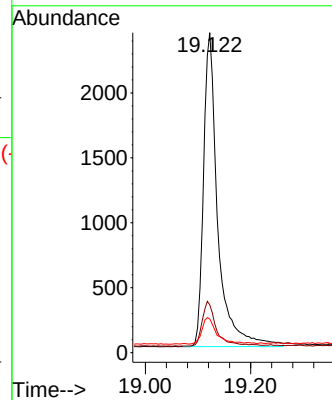
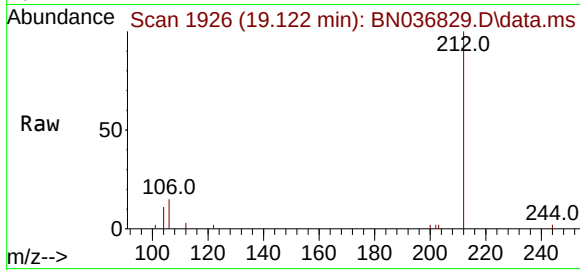




#27
Fluoranthene-d10
Concen: 0.399 ng
RT: 19.122 min Scan# 19
Delta R.T. -0.019 min
Lab File: BN036829.D
Acq: 03 Apr 2025 19:02

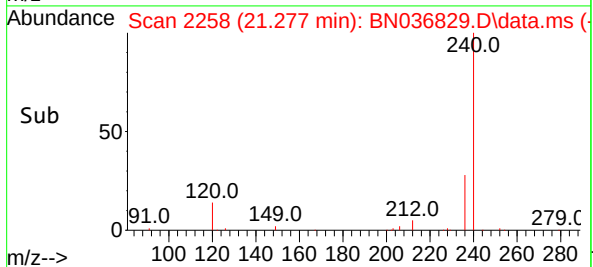
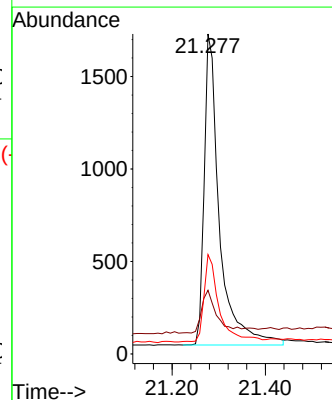
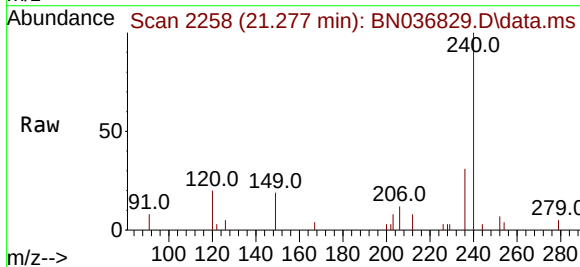
Instrument :
BNA_N
ClientSampleId :
PB167450BL

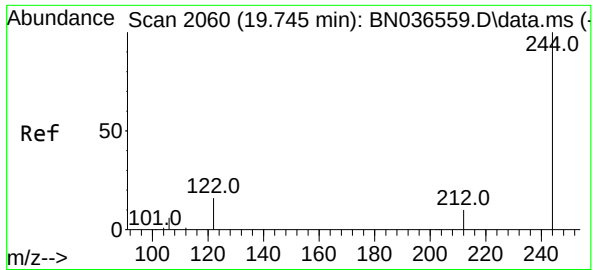
Tgt Ion	Ratio	Lower	Upper
212	100		
106	14.3	11.8	17.6
104	8.5	7.3	10.9



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.018 min
Lab File: BN036829.D
Acq: 03 Apr 2025 19:02

Tgt Ion	Ratio	Lower	Upper
240	100		
120	19.9	14.6	22.0
236	31.0	24.1	36.1

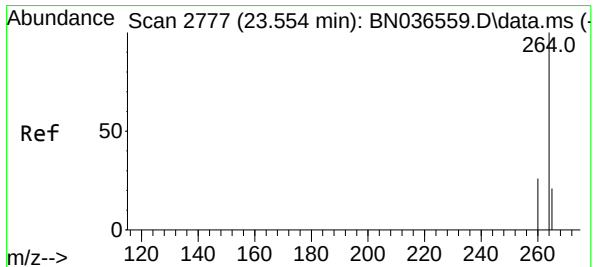
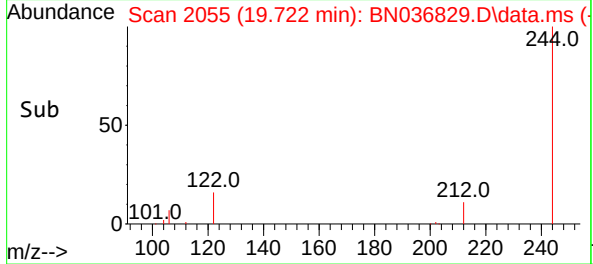
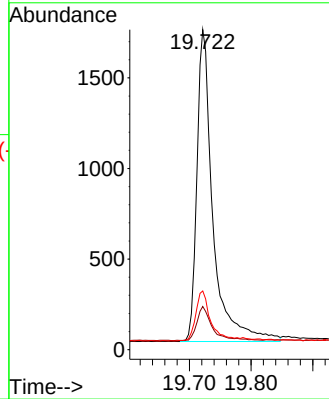
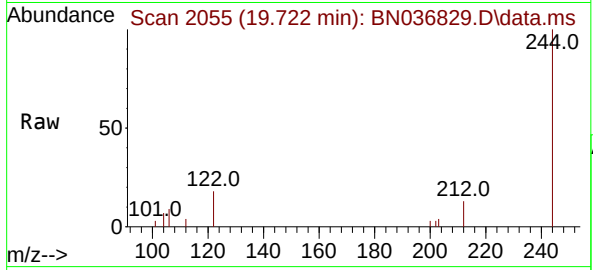




#31
Terphenyl-d14
Concen: 0.338 ng
RT: 19.722 min Scan# 2060
Delta R.T. -0.023 min
Lab File: BN036829.D
Acq: 03 Apr 2025 19:02

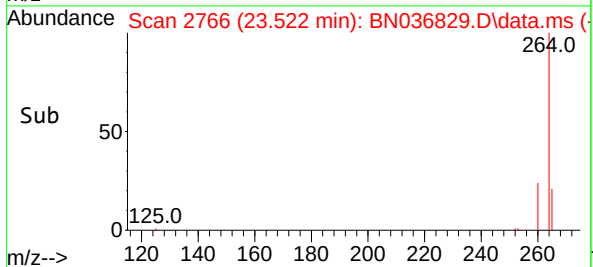
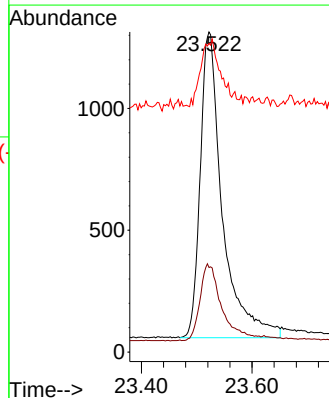
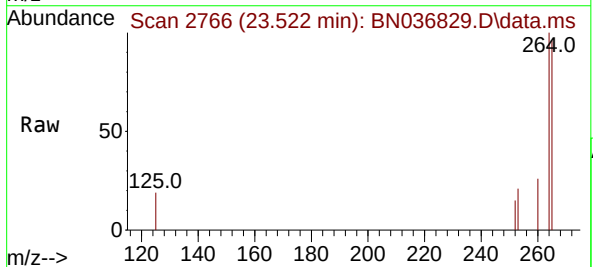
Instrument :
BNA_N
ClientSampleId :
PB167450BL

Tgt Ion:244 Resp: 3114
Ion Ratio Lower Upper
244 100
212 13.5 9.6 14.4
122 18.3 13.9 20.9



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.522 min Scan# 2766
Delta R.T. -0.032 min
Lab File: BN036829.D
Acq: 03 Apr 2025 19:02

Tgt Ion:264 Resp: 3492
Ion Ratio Lower Upper
264 100
260 26.4 22.6 33.8
265 96.4 88.1 132.1



Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger STC PTC Site # D3868221	Date Received:	
Client Sample ID:	PB167450BS	SDG No.:	Q1711
Lab Sample ID:	PB167450BS	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
BN036828.D	1	04/03/25 13:10	04/03/25 18:26	PB167450

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
123-91-1	1,4-Dioxane	0.36		0.070	0.20	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.40		30 (20) - 150 (139)	101%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 (30) - 150 (150)	91%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		30 (27) - 130 (154)	80%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		30 (25) - 130 (149)	88%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.34		30 (54) - 130 (175)	86%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	2000	7.695			
1146-65-2	Naphthalene-d8	4750	10.477			
15067-26-2	Acenaphthene-d10	2610	14.334			
1517-22-2	Phenanthrene-d10	5480	17.086			
1719-03-5	Chrysene-d12	4280	21.268			
1520-96-3	Perylene-d12	3760	23.513			

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\BN040325\
 Data File : BN036828.D
 Acq On : 03 Apr 2025 18:26
 Operator : RC/JU
 Sample : PB167450BS
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

PB167450BS

Manual Integrations**APPROVED**

Reviewed By :Rahul Chavli 04/04/2025

Supervised By :Jagrut Upadhyay 04/04/2025

Quant Time: Apr 04 00:56:29 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Mon Mar 10 16:06:28 2025

Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.695	152	2002	0.400	ng	-0.03
7) Naphthalene-d8	10.477	136	4746	0.400	ng	-0.03
13) Acenaphthene-d10	14.334	164	2613	0.400	ng	-0.03
19) Phenanthrene-d10	17.086	188	5480	0.400	ng	-0.02
29) Chrysene-d12	21.268	240	4282	0.400	ng	-0.03
35) Perylene-d12	23.513	264	3764	0.400	ng	#-0.04
System Monitoring Compounds						
4) 2-Fluorophenol	5.290	112	1834	0.393	ng	-0.02
5) Phenol-d6	6.872	99	2150	0.373	ng	-0.03
8) Nitrobenzene-d5	8.843	82	1657	0.321	ng	-0.03
11) 2-Methylnaphthalene-d10	12.075	152	2854m	0.404	ng	-0.04
14) 2,4,6-Tribromophenol	15.833	330	431	0.363	ng	-0.02
15) 2-Fluorobiphenyl	12.958	172	5388	0.354	ng	-0.03
27) Fluoranthene-d10	19.113	212	5132	0.365	ng	-0.03
31) Terphenyl-d14	19.722	244	3530	0.344	ng	-0.02
Target Compounds					Qvalue	
2) 1,4-Dioxane	3.225	88	795	0.358	ng	# 40
3) n-Nitrosodimethylamine	3.528	42	1789	0.398	ng	99
6) bis(2-Chloroethyl)ether	7.125	93	2154	0.362	ng	99
9) Naphthalene	10.530	128	5090	0.365	ng	99
10) Hexachlorobutadiene	10.818	225	1229	0.374	ng	# 96
12) 2-Methylnaphthalene	12.146	142	3230	0.364	ng	98
16) Acenaphthylene	14.056	152	4832	0.392	ng	99
17) Acenaphthene	14.398	154	3102	0.384	ng	99
18) Fluorene	15.382	166	4152	0.380	ng	100
20) 4,6-Dinitro-2-methylph...	15.478	198	425	0.449	ng	# 80
21) 4-Bromophenyl-phenylether	16.280	248	1280	0.373	ng	92
22) Hexachlorobenzene	16.391	284	1493	0.360	ng	95
23) Atrazine	16.553	200	1157	0.420	ng	98
24) Pentachlorophenol	16.739	266	1209	0.640	ng	98
25) Phenanthrene	17.124	178	6546	0.398	ng	100
26) Anthracene	17.210	178	5976m	0.403	ng	
28) Fluoranthene	19.146	202	7512	0.407	ng	99
30) Pyrene	19.508	202	7742	0.370	ng	99
32) Benzo(a)anthracene	21.259	228	5808	0.390	ng	100
33) Chrysene	21.313	228	6830	0.420	ng	99
34) Bis(2-ethylhexyl)phtha...	21.196	149	3526	0.333	ng	98
36) Indeno(1,2,3-cd)pyrene	25.776	276	5856	0.431	ng	96
37) Benzo(b)fluoranthene	22.841	252	5486	0.400	ng	95
38) Benzo(k)fluoranthene	22.885	252	6379m	0.444	ng	
39) Benzo(a)pyrene	23.417	252	5008	0.434	ng	# 92
40) Dibenzo(a,h)anthracene	25.800	278	4402	0.416	ng	96
41) Benzo(g,h,i)perylene	26.466	276	4787	0.396	ng	96

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN040325\
 Data File : BN036828.D
 Acq On : 03 Apr 2025 18:26
 Operator : RC/JU
 Sample : PB167450BS
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

PB167450BS

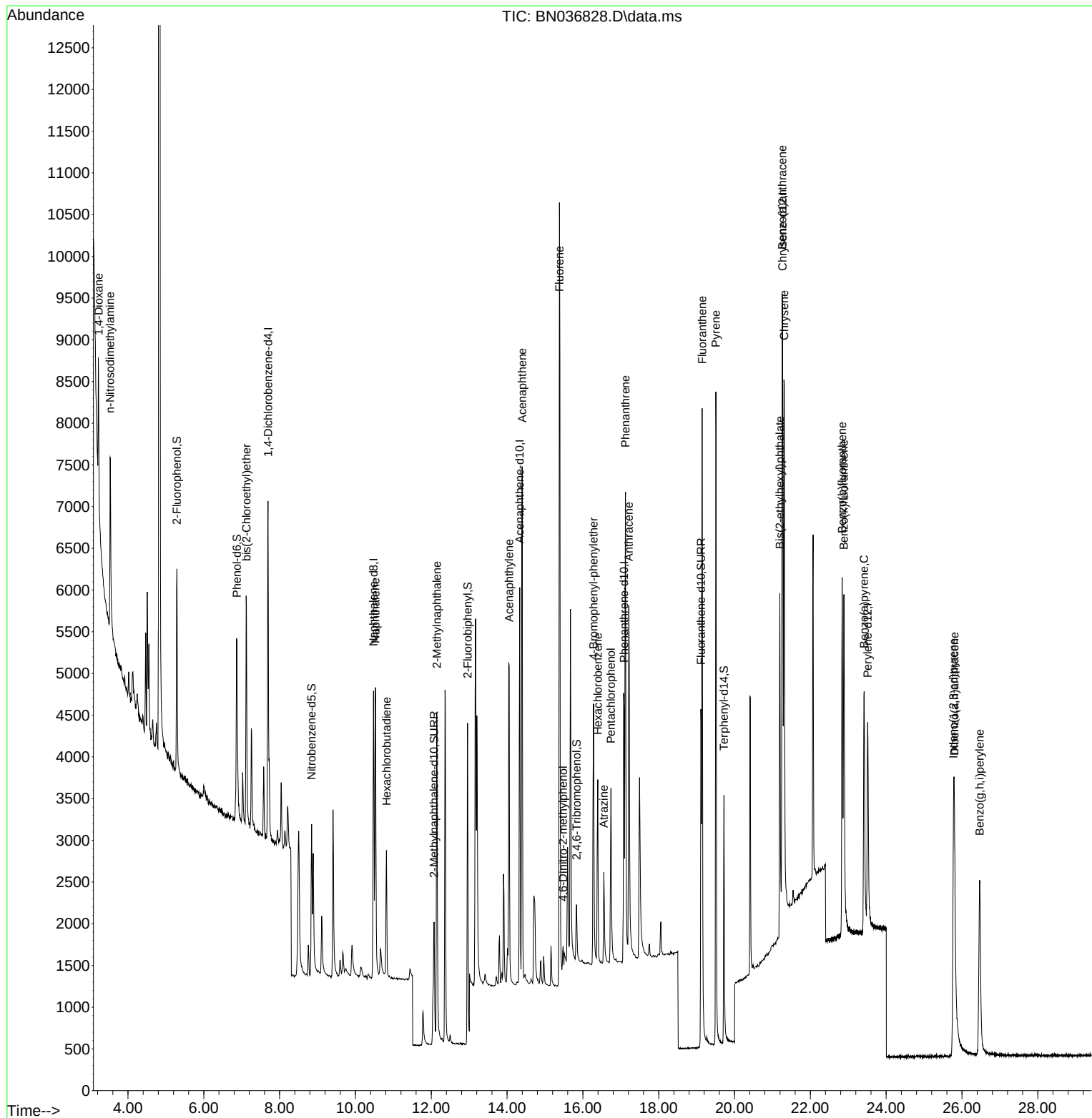
Manual Integrations

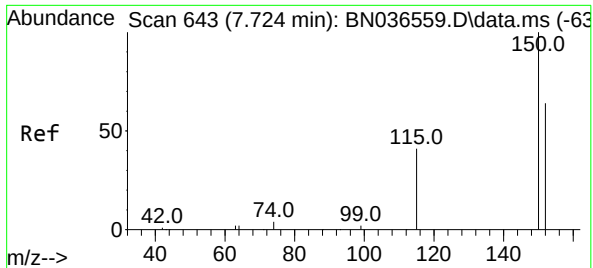
APPROVED

Reviewed By :Rahul Chavli 04/04/2025

Supervised By :Jagrut Upadhyay 04/04/2025

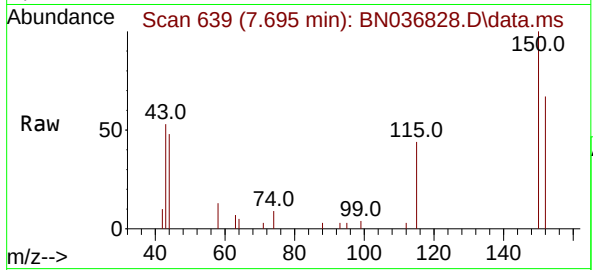
Quant Time: Apr 04 00:56:29 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 16:06:28 2025
 Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.695 min Scan# 61
Delta R.T. -0.029 min
Lab File: BN036828.D
Acq: 03 Apr 2025 18:26

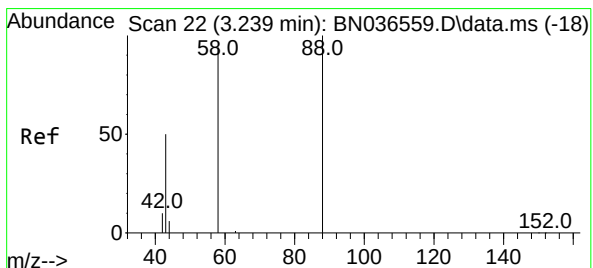
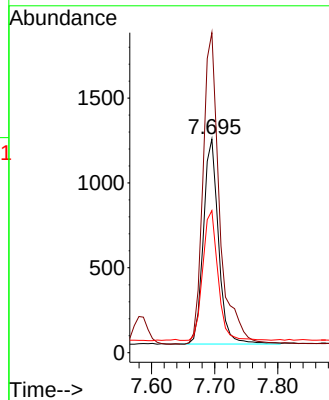
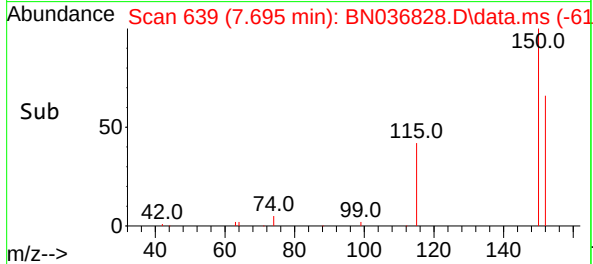
Instrument :
BNA_N
ClientSampleId :
PB167450BS



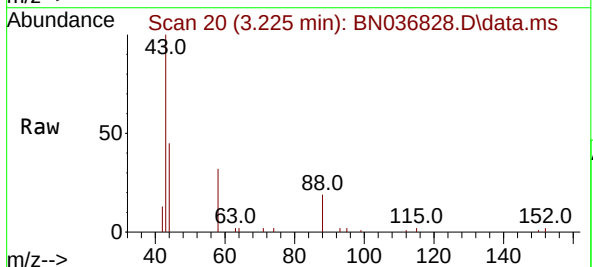
Tgt Ion: 152 Resp: 200
Ion Ratio Lower Upper
152 100
150 149.8 123.7 185.5
115 66.5 54.3 81.5

Manual Integrations
APPROVED

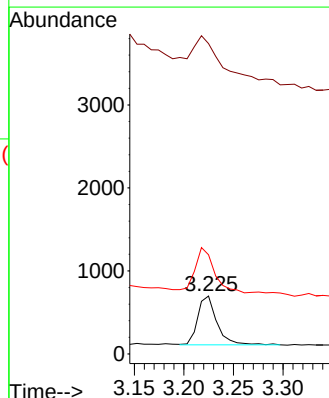
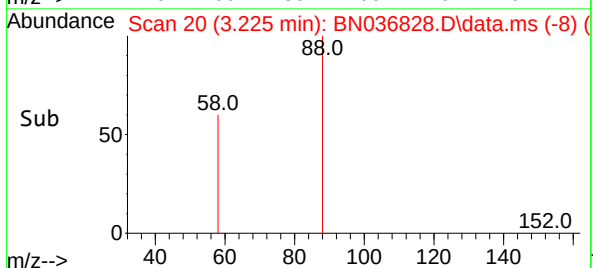
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

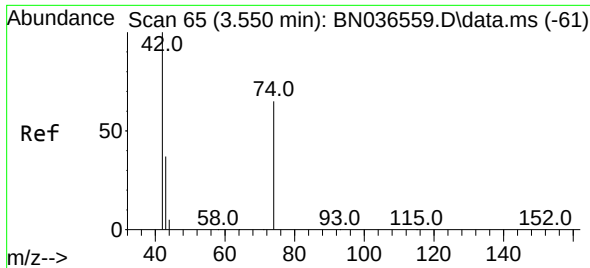


#2
1,4-Dioxane
Concen: 0.358 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036828.D
Acq: 03 Apr 2025 18:26



Tgt Ion: 88 Resp: 795
Ion Ratio Lower Upper
88 100
43 152.8 37.8 56.8#
58 89.7 67.4 101.2





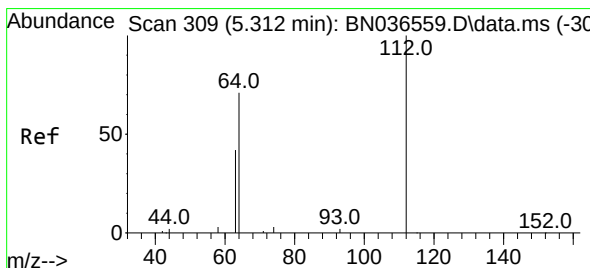
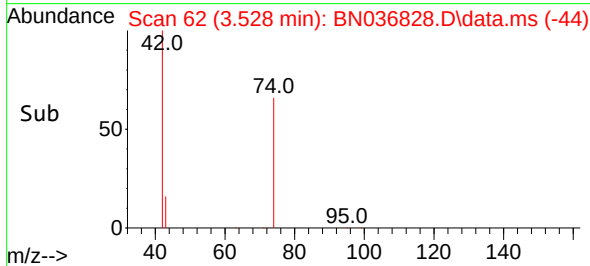
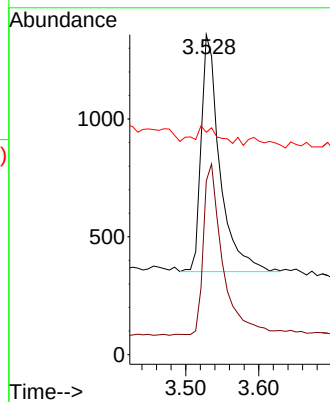
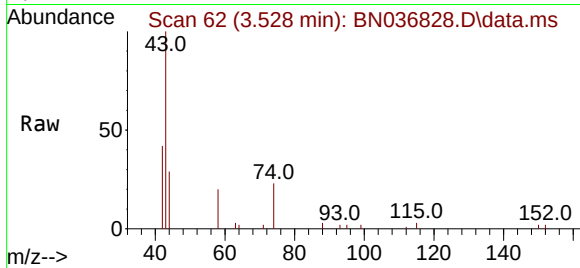
#3
n-Nitrosodimethylamine
Concen: 0.398 ng
RT: 3.528 min Scan# 61
Delta R.T. -0.022 min
Lab File: BN036828.D
Acq: 03 Apr 2025 18:26

Instrument :
BNA_N
ClientSampleId :
PB167450BS

Tgt Ion: 42 Resp: 1789
Ion Ratio Lower Upper
42 100
74 75.2 60.6 90.8
44 7.4 6.3 9.5

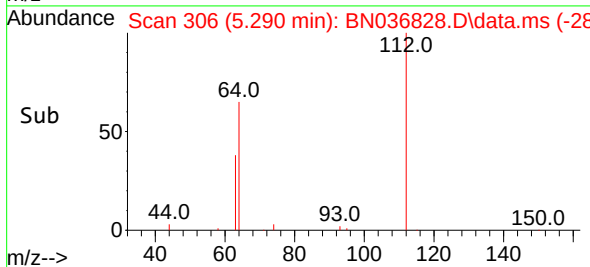
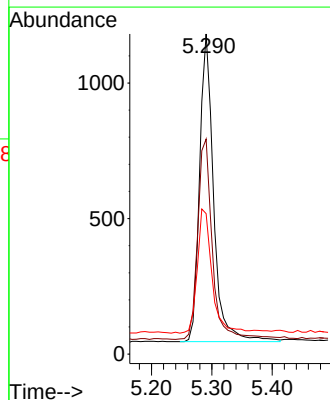
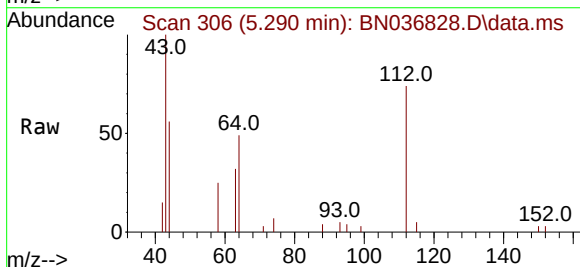
Manual Integrations
APPROVED

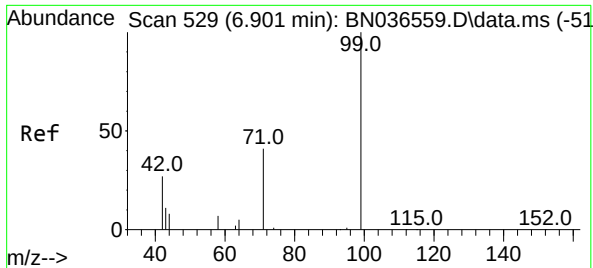
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025



#4
2-Fluorophenol
Concen: 0.393 ng
RT: 5.290 min Scan# 306
Delta R.T. -0.022 min
Lab File: BN036828.D
Acq: 03 Apr 2025 18:26

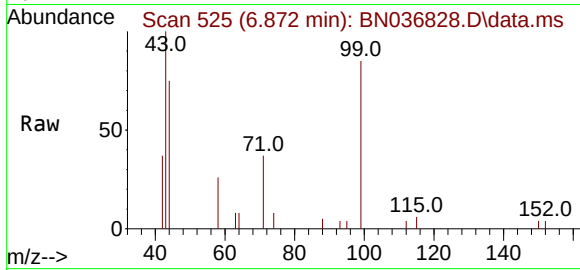
Tgt Ion:112 Resp: 1834
Ion Ratio Lower Upper
112 100
64 69.0 53.1 79.7
63 42.4 31.8 47.8





#5
Phenol-d6
Concen: 0.373 ng
RT: 6.872 min Scan# 51
Delta R.T. -0.029 min
Lab File: BN036828.D
Acq: 03 Apr 2025 18:26

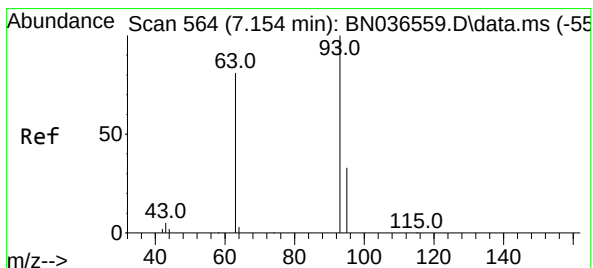
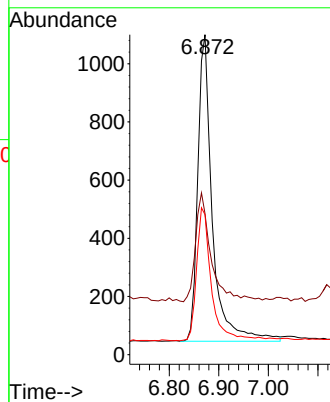
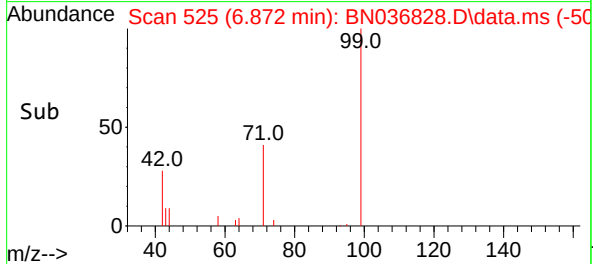
Instrument :
BNA_N
ClientSampleId :
PB167450BS



Tgt Ion: 99 Resp: 2150
Ion Ratio Lower Upper
99 100
42 38.4 26.5 39.7
71 44.1 34.1 51.1

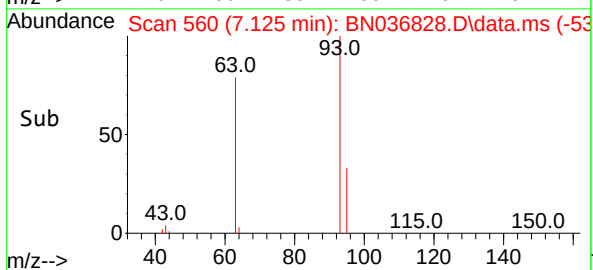
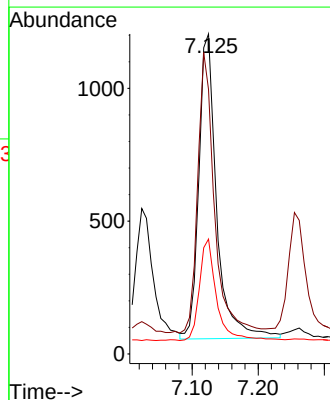
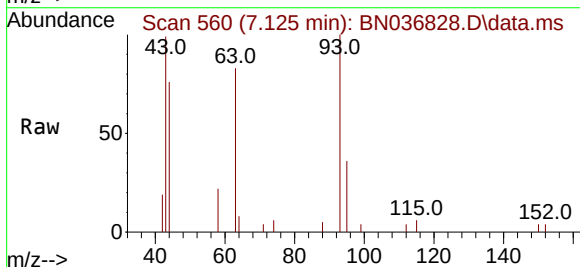
Manual Integrations
APPROVED

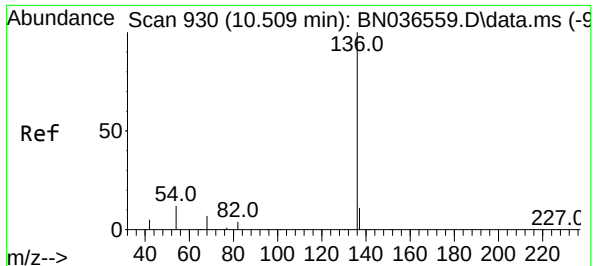
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025



#6
bis(2-Chloroethyl)ether
Concen: 0.362 ng
RT: 7.125 min Scan# 560
Delta R.T. -0.029 min
Lab File: BN036828.D
Acq: 03 Apr 2025 18:26

Tgt Ion: 93 Resp: 2154
Ion Ratio Lower Upper
93 100
63 85.6 67.7 101.5
95 31.9 25.6 38.4





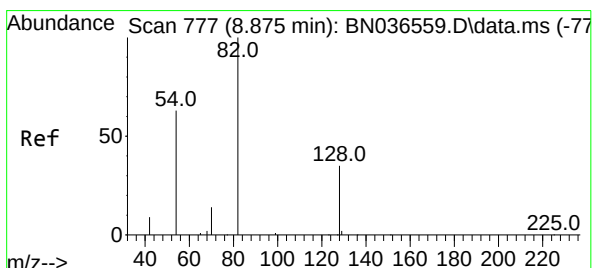
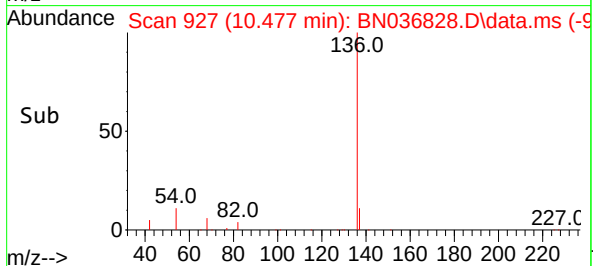
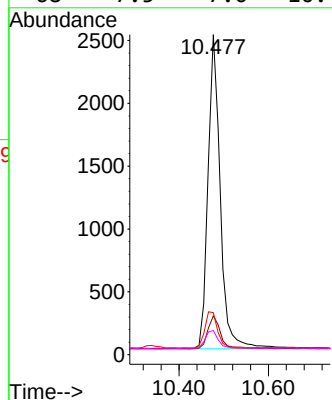
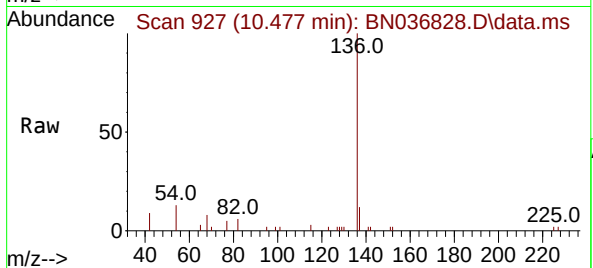
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.477 min Scan# 91
Delta R.T. -0.032 min
Lab File: BN036828.D
Acq: 03 Apr 2025 18:26

Instrument :
BNA_N
ClientSampleId :
PB167450BS

Tgt Ion:	136	Resp:	474
Ion	Ratio	Lower	Upper
136	100		
137	12.2	10.3	15.5
54	13.2	11.5	17.3
68	7.5	7.0	10.4

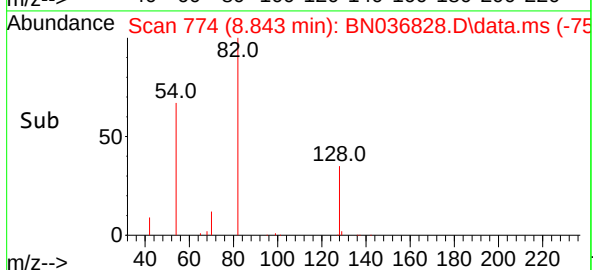
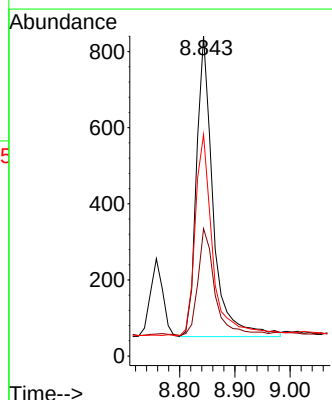
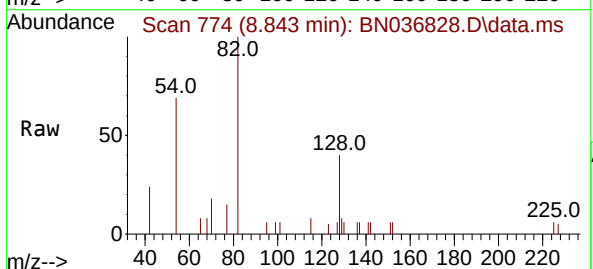
Manual Integrations
APPROVED

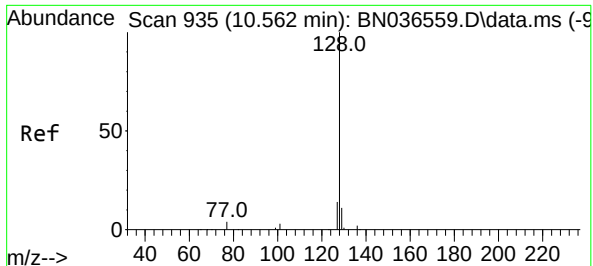
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025



#8
Nitrobenzene-d5
Concen: 0.321 ng
RT: 8.843 min Scan# 774
Delta R.T. -0.032 min
Lab File: BN036828.D
Acq: 03 Apr 2025 18:26

Tgt Ion:	82	Resp:	1657
Ion	Ratio	Lower	Upper
82	100		
128	39.8	30.6	45.8
54	69.2	52.2	78.4





#9

Naphthalene

Concen: 0.365 ng

RT: 10.530 min Scan# 91

Delta R.T. -0.032 min

Lab File: BN036828.D

Acq: 03 Apr 2025 18:26

Instrument :

BNA_N

ClientSampleId :

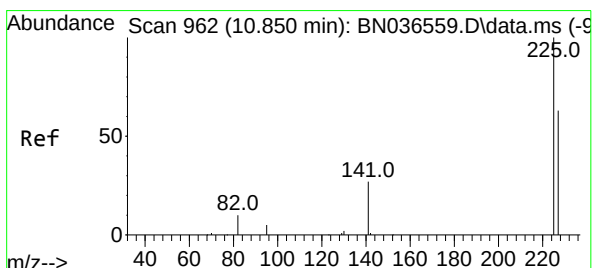
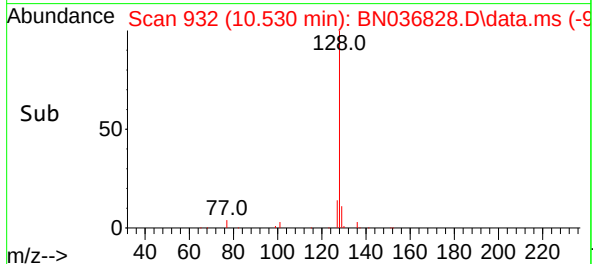
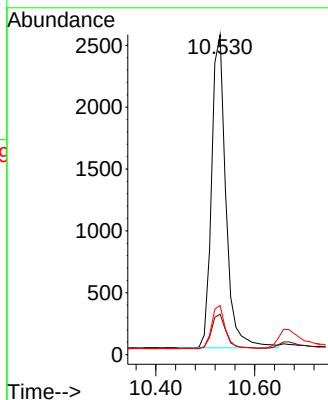
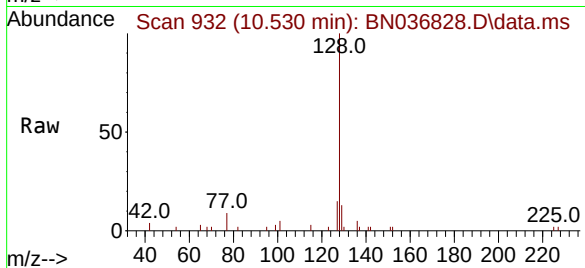
PB167450BS

Tgt Ion:	128	Resp:	5090
Ion Ratio	Lower	Upper	
128	100		
129	12.6	9.8	14.6
127	15.3	11.8	17.8

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 04/04/2025

Supervised By :Jagrut Upadhyay 04/04/2025



#10

Hexachlorobutadiene

Concen: 0.374 ng

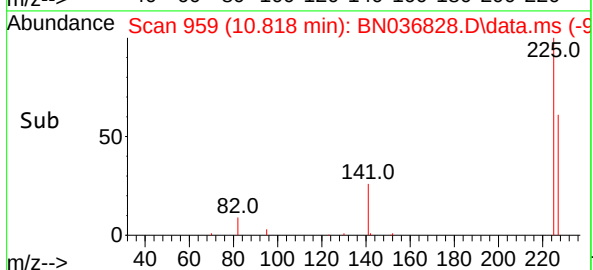
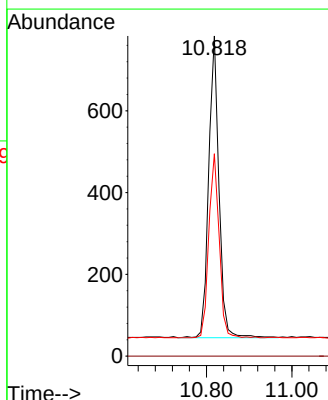
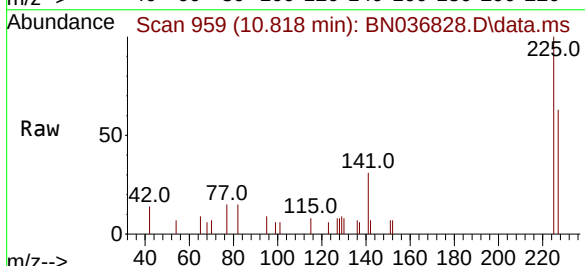
RT: 10.818 min Scan# 959

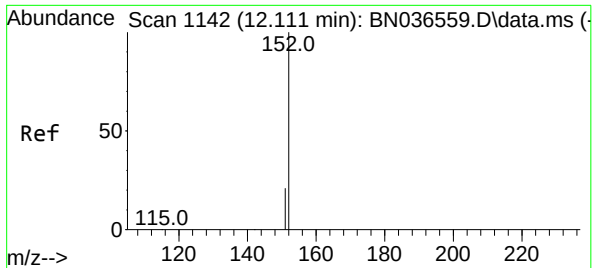
Delta R.T. -0.032 min

Lab File: BN036828.D

Acq: 03 Apr 2025 18:26

Tgt Ion:	225	Resp:	1229
Ion Ratio	Lower	Upper	
225	100		
223	0.0	0.0	0.0
227	61.5	51.8	77.8





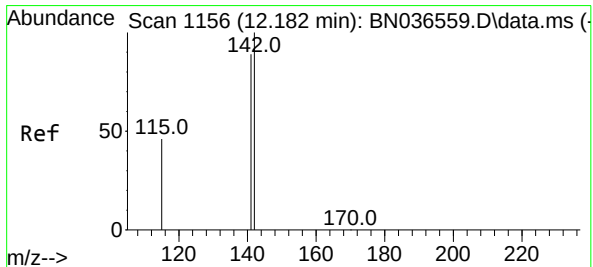
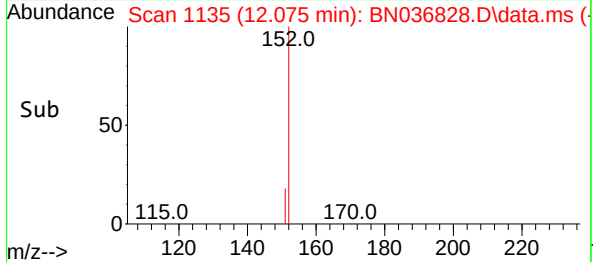
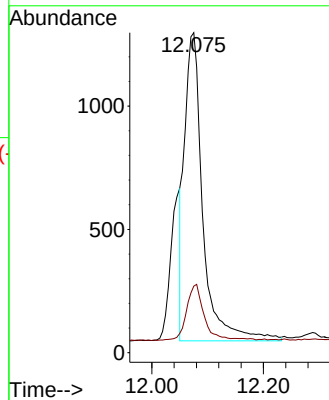
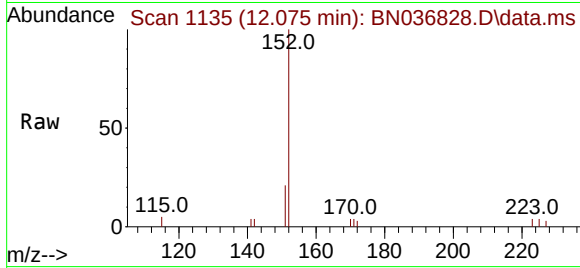
#11
2-Methylnaphthalene-d10
Concen: 0.404 ng m
RT: 12.075 min Scan# 1142
Delta R.T. -0.035 min
Lab File: BN036828.D
Acq: 03 Apr 2025 18:26

Instrument :
BNA_N
ClientSampleId :
PB167450BS

Tgt Ion:152 Resp: 2854
Ion Ratio Lower Upper
152 100
151 17.3 17.0 25.6

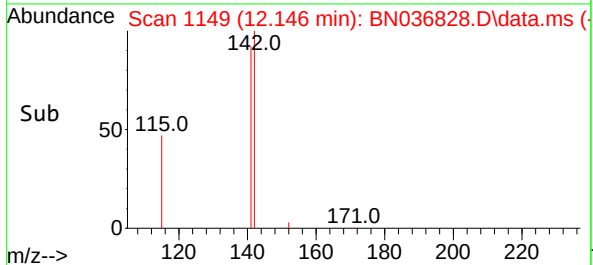
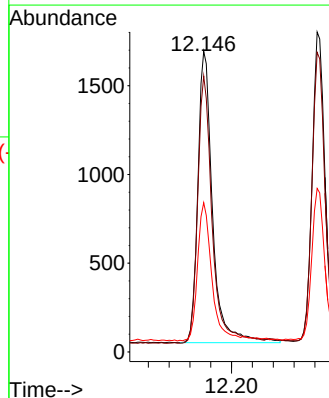
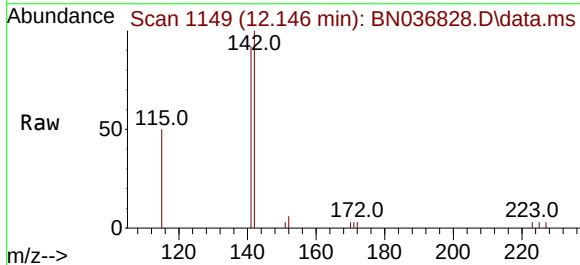
Manual Integrations
APPROVED

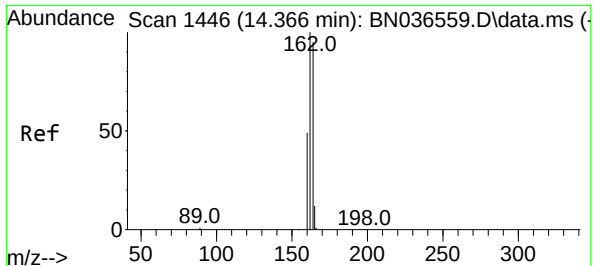
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025



#12
2-Methylnaphthalene
Concen: 0.364 ng
RT: 12.146 min Scan# 1149
Delta R.T. -0.035 min
Lab File: BN036828.D
Acq: 03 Apr 2025 18:26

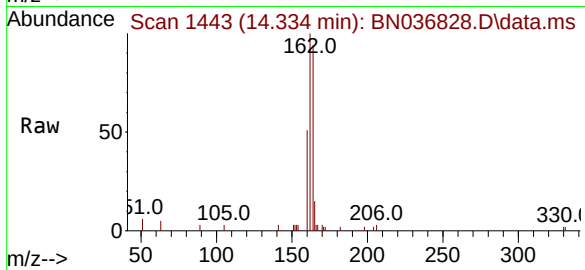
Tgt Ion:142 Resp: 3230
Ion Ratio Lower Upper
142 100
141 91.8 71.7 107.5
115 49.6 38.3 57.5





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 1443
Delta R.T. -0.032 min
Lab File: BN036828.D
Acq: 03 Apr 2025 18:26

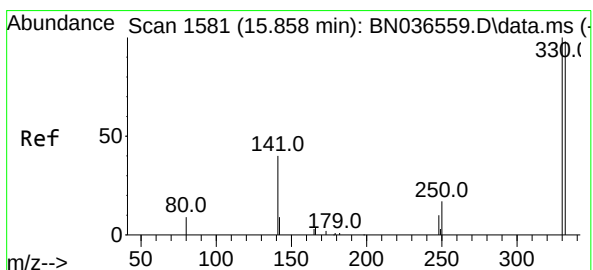
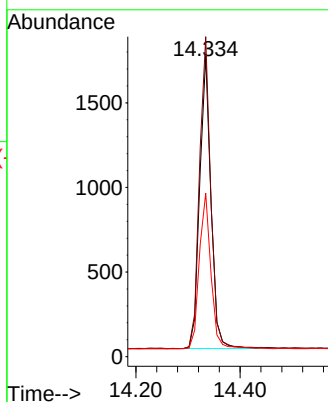
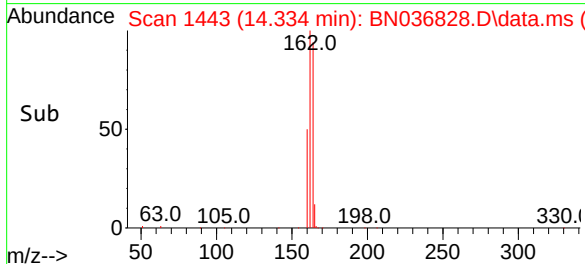
Instrument :
BNA_N
ClientSampleId :
PB167450BS



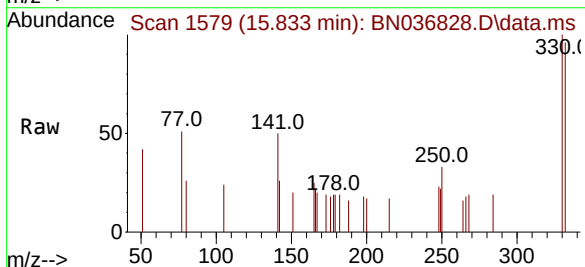
Tgt Ion:164 Resp: 261
Ion Ratio Lower Upper
164 100
162 106.4 84.2 126.2
160 54.3 42.2 63.2

Manual Integrations
APPROVED

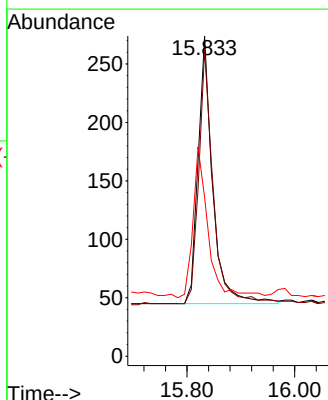
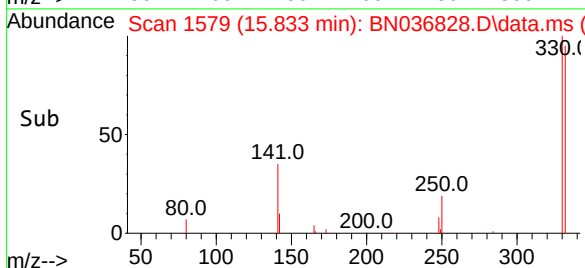
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

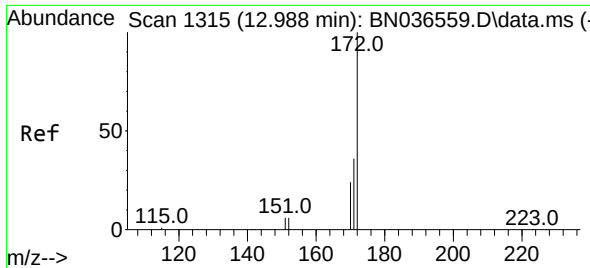


#14
2,4,6-Tribromophenol
Concen: 0.363 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036828.D
Acq: 03 Apr 2025 18:26



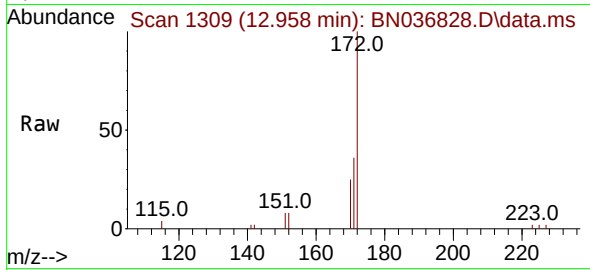
Tgt Ion:330 Resp: 431
Ion Ratio Lower Upper
330 100
332 94.0 75.2 112.8
141 58.7 43.4 65.2





#15
2-Fluorobiphenyl
Concen: 0.354 ng
RT: 12.958 min Scan# 111
Delta R.T. -0.030 min
Lab File: BN036828.D
Acq: 03 Apr 2025 18:26

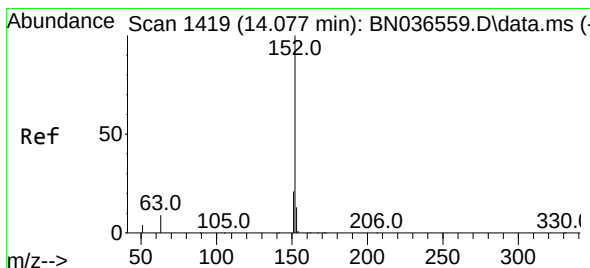
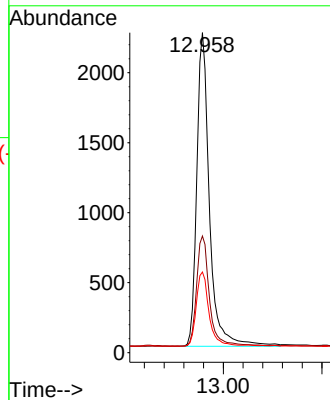
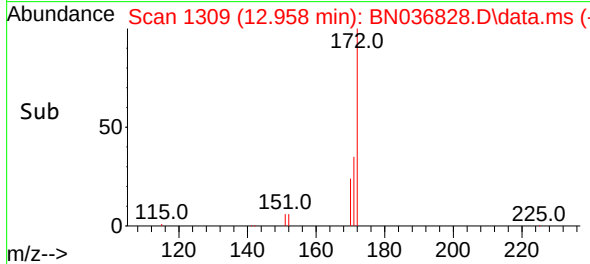
Instrument :
BNA_N
ClientSampleId :
PB167450BS



Tgt Ion:172 Resp: 538
Ion Ratio Lower Upper
172 100
171 36.4 29.5 44.3
170 25.2 20.2 30.4

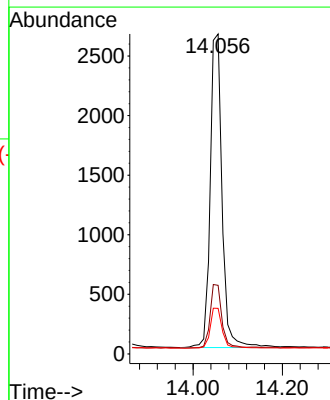
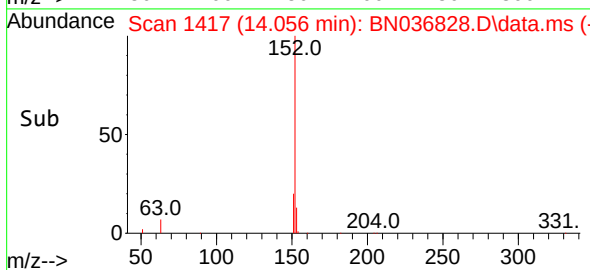
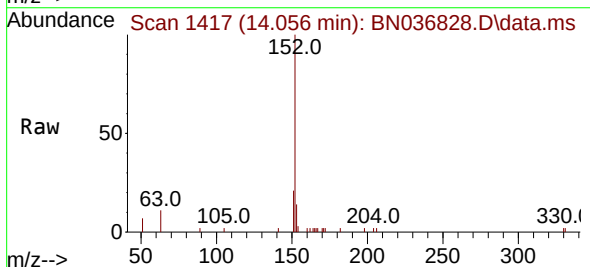
Manual Integrations
APPROVED

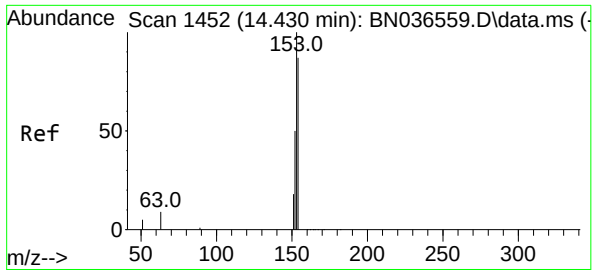
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025



#16
Acenaphthylene
Concen: 0.392 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036828.D
Acq: 03 Apr 2025 18:26

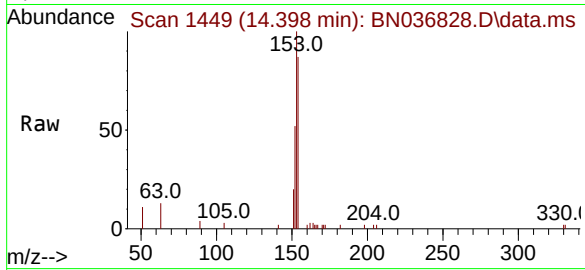
Tgt Ion:152 Resp: 4832
Ion Ratio Lower Upper
152 100
151 19.9 16.2 24.4
153 13.1 10.6 15.8





#17
Acenaphthene
Concen: 0.384 ng
RT: 14.398 min Scan# 1449
Delta R.T. -0.032 min
Lab File: BN036828.D
Acq: 03 Apr 2025 18:26

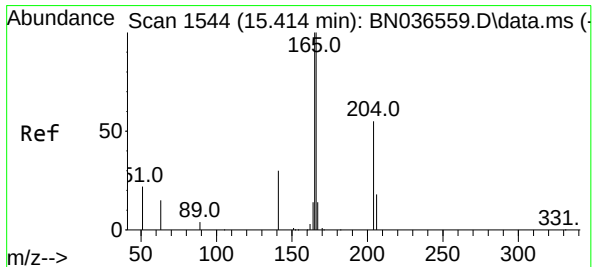
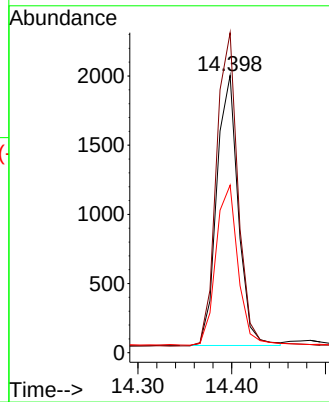
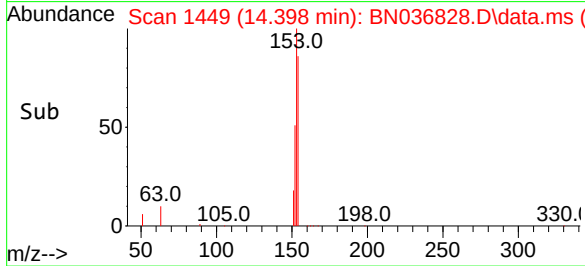
Instrument :
BNA_N
ClientSampleId :
PB167450BS



Tgt Ion:154 Resp: 310
Ion Ratio Lower Upper
154 100
153 118.6 94.1 141.1
152 62.0 49.8 74.6

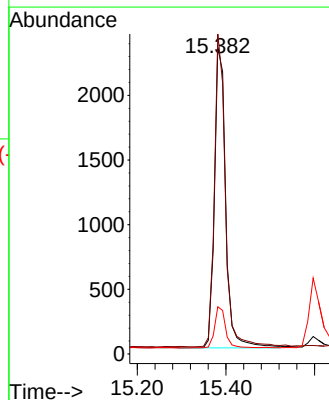
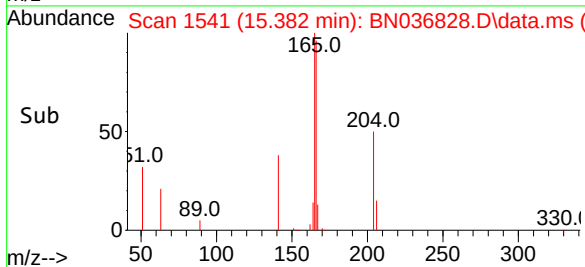
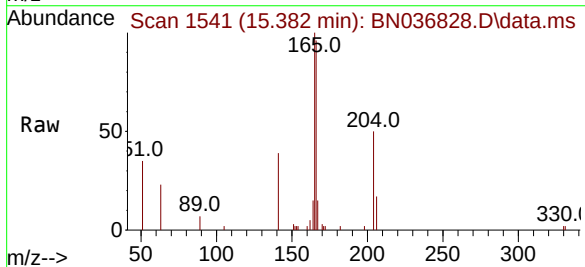
Manual Integrations
APPROVED

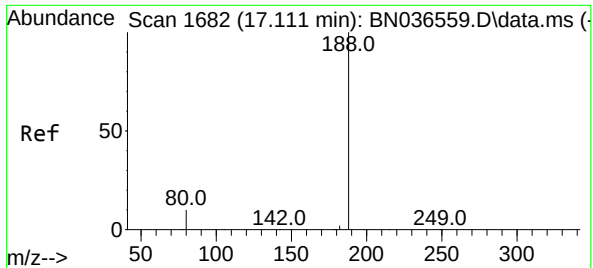
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025



#18
Fluorene
Concen: 0.380 ng
RT: 15.382 min Scan# 1541
Delta R.T. -0.032 min
Lab File: BN036828.D
Acq: 03 Apr 2025 18:26

Tgt Ion:166 Resp: 4152
Ion Ratio Lower Upper
166 100
165 100.2 79.8 119.8
167 13.2 10.6 15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.086 min Scan# 1

Delta R.T. -0.025 min

Lab File: BN036828.D

Acq: 03 Apr 2025 18:26

Instrument :

BNA_N

ClientSampleId :

PB167450BS

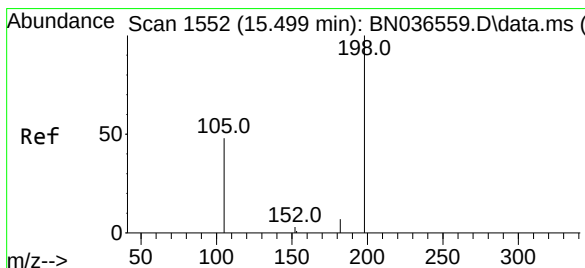
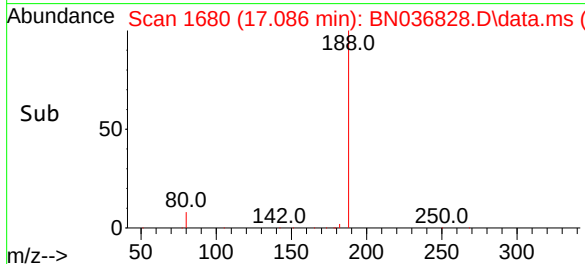
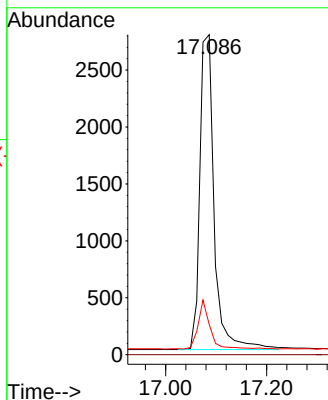
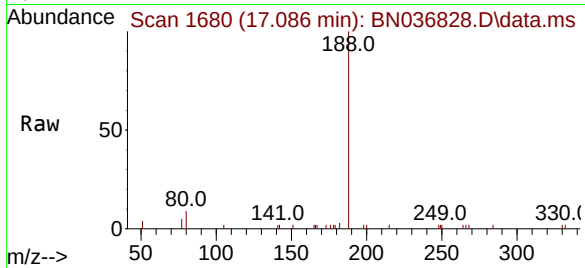
Tgt Ion:188	Resp:	548
Ion Ratio	Lower	Upper
188	100	
94	0.0	0.0
80	9.4	13.2

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 04/04/2025

Supervised By :Jagrut Upadhyay 04/04/2025



#20

4,6-Dinitro-2-methylphenol

Concen: 0.449 ng

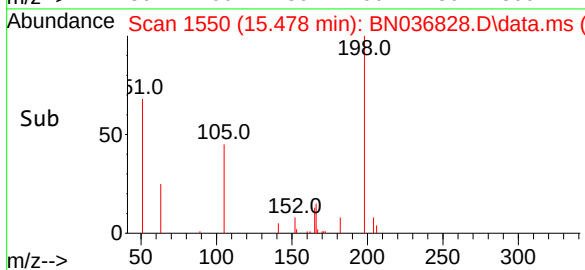
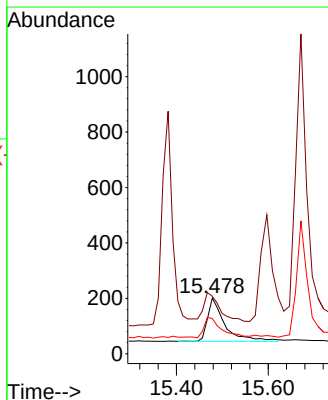
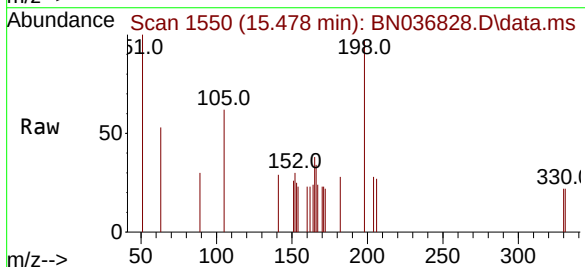
RT: 15.478 min Scan# 1550

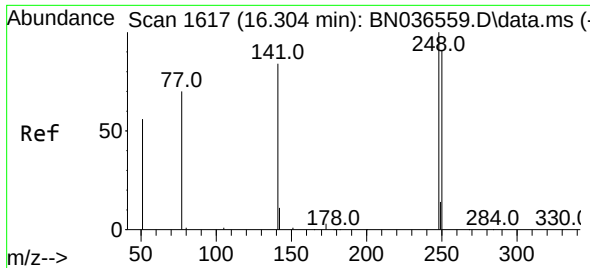
Delta R.T. -0.021 min

Lab File: BN036828.D

Acq: 03 Apr 2025 18:26

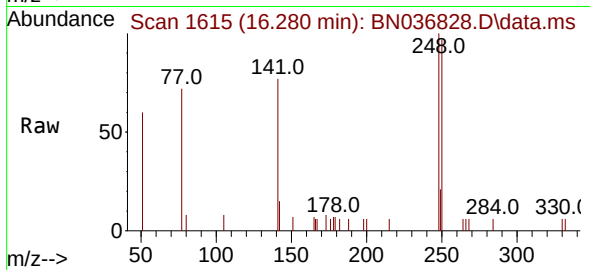
Tgt Ion:198	Resp:	425
Ion Ratio	Lower	Upper
198	100	
51	103.5	107.9
105	63.7	84.2





#21
4-Bromophenyl-phenylether
Concen: 0.373 ng
RT: 16.280 min Scan# 1615
Delta R.T. -0.025 min
Lab File: BN036828.D
Acq: 03 Apr 2025 18:26

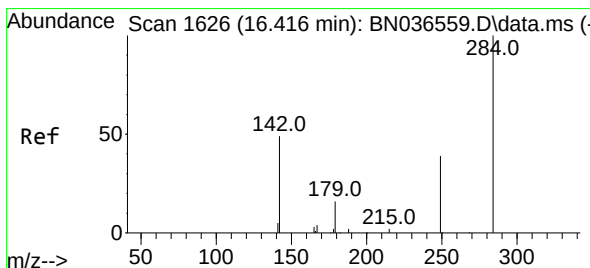
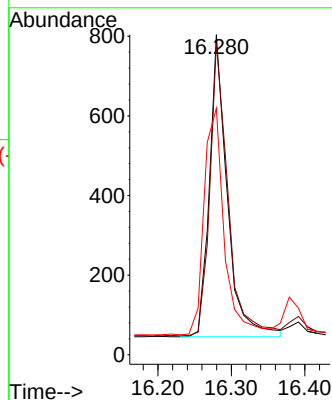
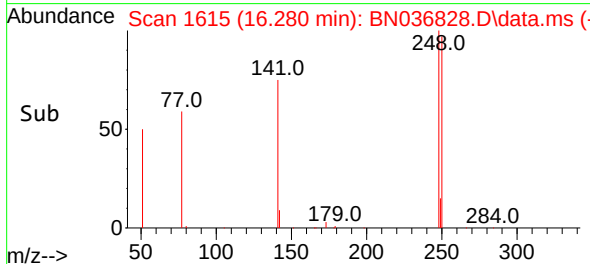
Instrument :
BNA_N
ClientSampleId :
PB167450BS



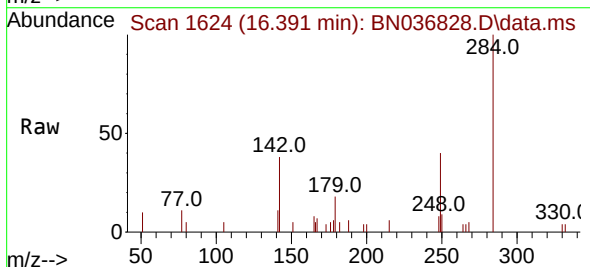
Tgt Ion:248 Resp: 1280
Ion Ratio Lower Upper
248 100
250 97.4 73.0 109.6
141 77.0 68.6 103.0

Manual Integrations
APPROVED

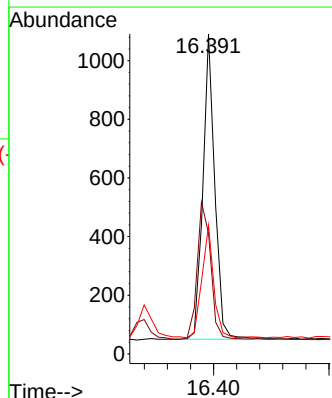
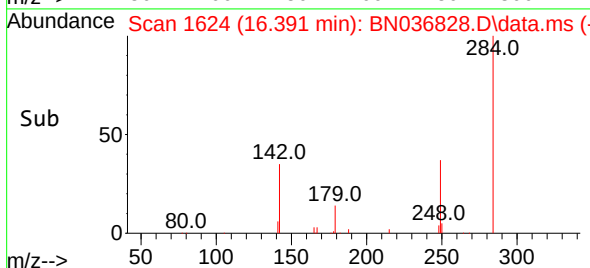
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

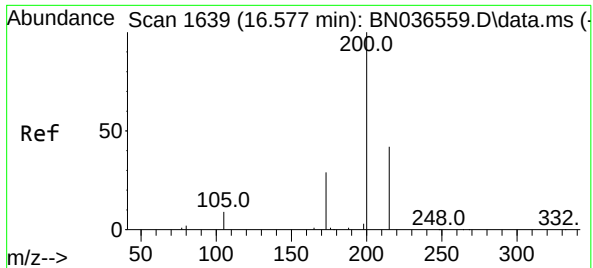


#22
Hexachlorobenzene
Concen: 0.360 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.025 min
Lab File: BN036828.D
Acq: 03 Apr 2025 18:26



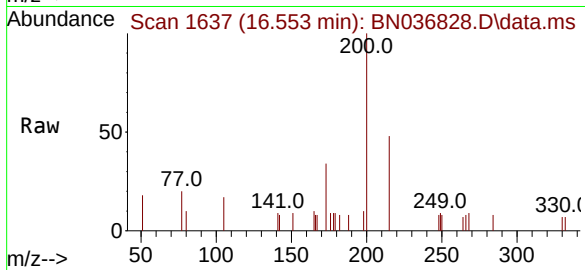
Tgt Ion:284 Resp: 1493
Ion Ratio Lower Upper
284 100
142 51.0 37.0 55.4
249 36.4 28.1 42.1





#23
Atrazine
Concen: 0.420 ng
RT: 16.553 min Scan# 1637
Delta R.T. -0.025 min
Lab File: BN036828.D
Acq: 03 Apr 2025 18:26

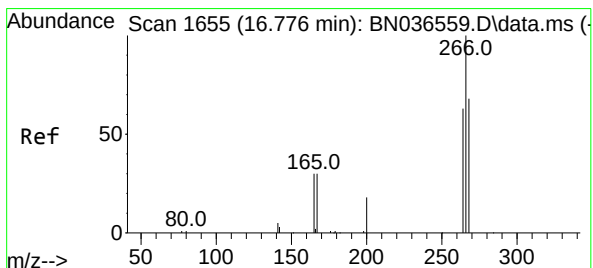
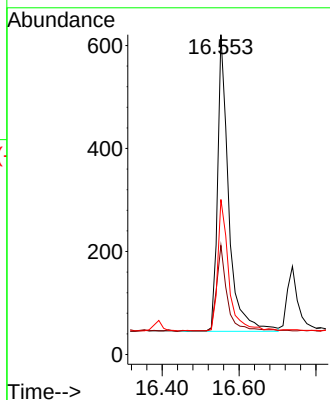
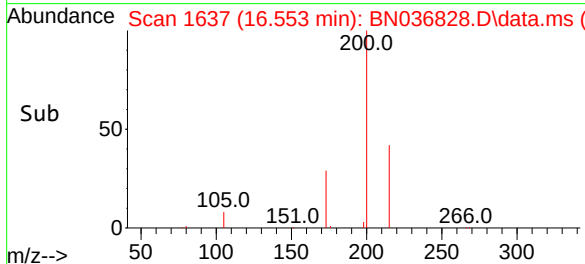
Instrument :
BNA_N
ClientSampleId :
PB167450BS



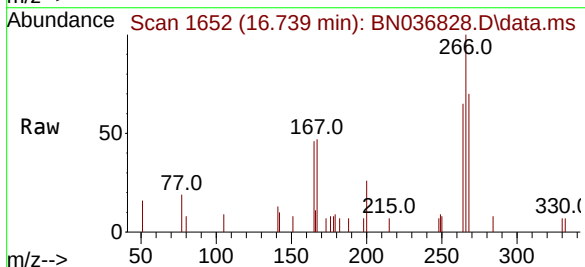
Tgt Ion:200 Resp: 115
Ion Ratio Lower Upper
200 100
173 34.1 27.3 40.9
215 48.5 36.8 55.2

Manual Integrations
APPROVED

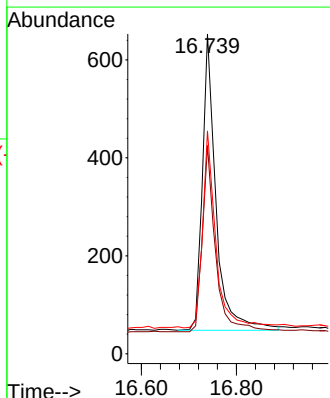
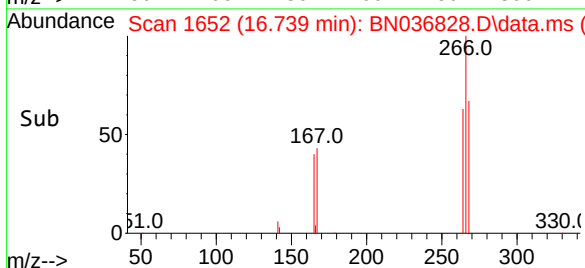
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

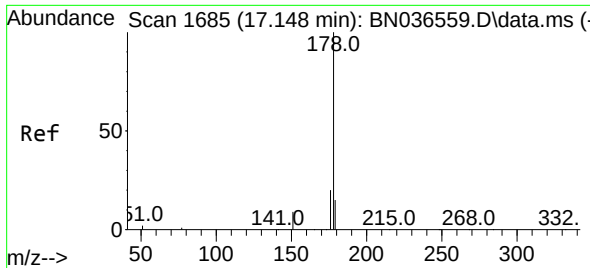


#24
Pentachlorophenol
Concen: 0.640 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.037 min
Lab File: BN036828.D
Acq: 03 Apr 2025 18:26



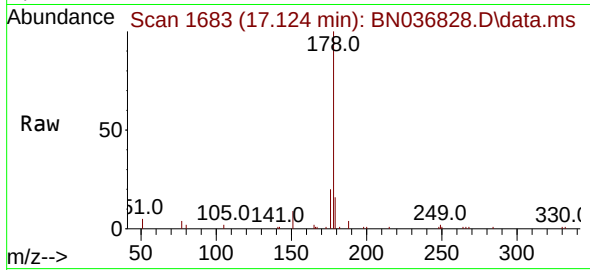
Tgt Ion:266 Resp: 1209
Ion Ratio Lower Upper
266 100
264 61.1 49.6 74.4
268 65.1 50.9 76.3





#25
Phenanthrene
Concen: 0.398 ng
RT: 17.124 min Scan# 1683
Delta R.T. -0.025 min
Lab File: BN036828.D
Acq: 03 Apr 2025 18:26

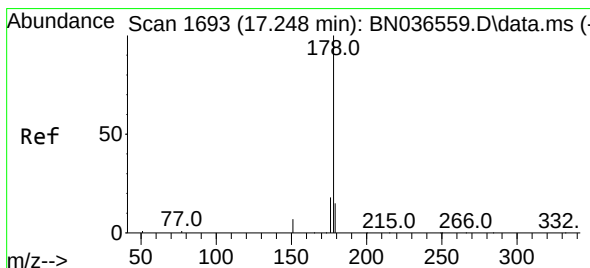
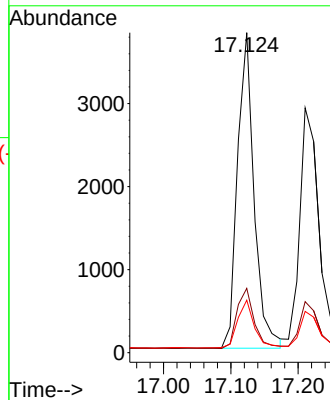
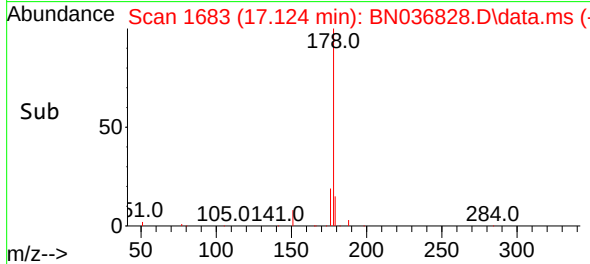
Instrument :
BNA_N
ClientSampleId :
PB167450BS



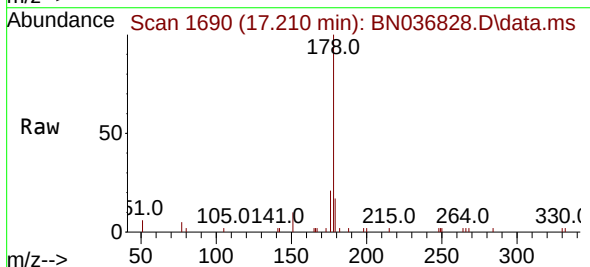
Tgt Ion:178 Resp: 6540
Ion Ratio Lower Upper
178 100
176 19.7 15.9 23.9
179 15.2 12.2 18.4

Manual Integrations
APPROVED

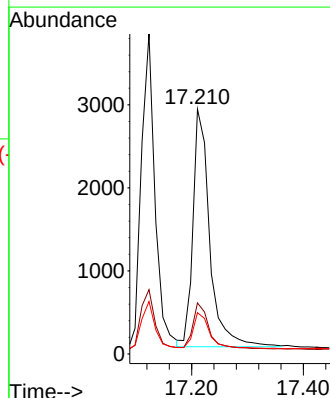
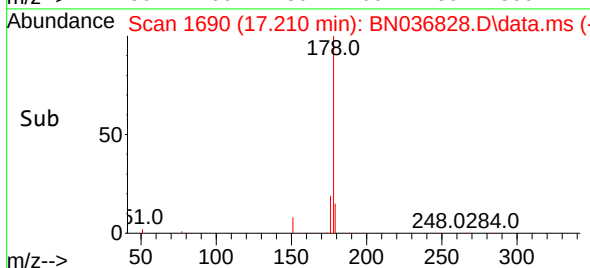
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

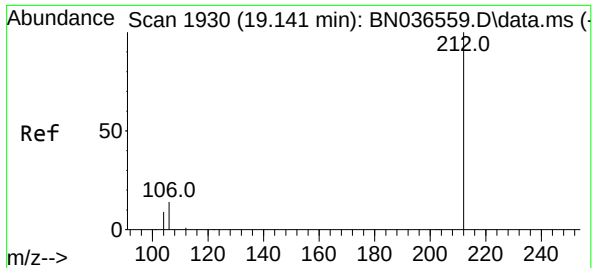


#26
Anthracene
Concen: 0.403 ng m
RT: 17.210 min Scan# 1690
Delta R.T. -0.037 min
Lab File: BN036828.D
Acq: 03 Apr 2025 18:26



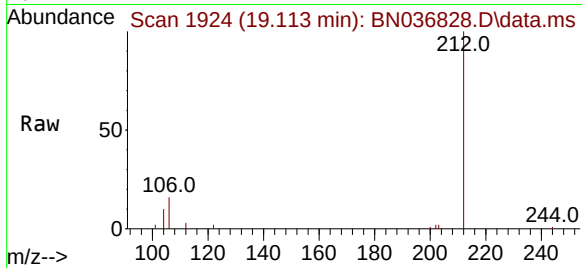
Tgt Ion:178 Resp: 5976
Ion Ratio Lower Upper
178 100
176 19.3 15.4 23.2
179 15.3 12.6 18.8





#27
Fluoranthene-d10
Concen: 0.365 ng
RT: 19.113 min Scan# 1913
Delta R.T. -0.028 min
Lab File: BN036828.D
Acq: 03 Apr 2025 18:26

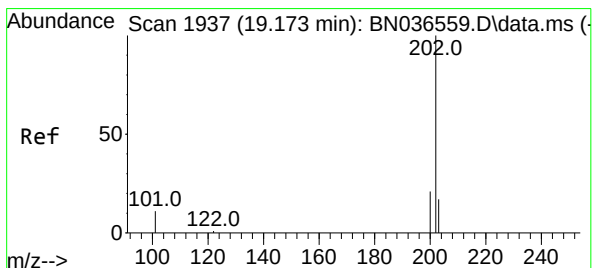
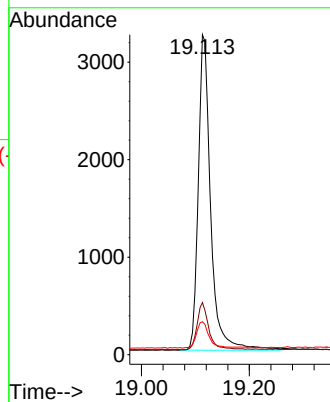
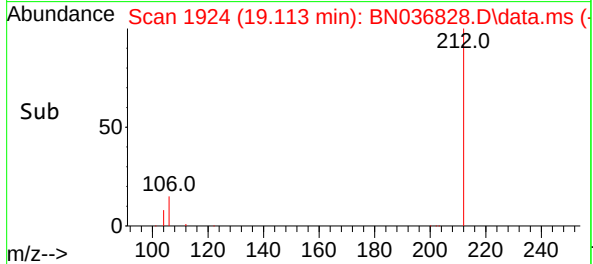
Instrument :
BNA_N
ClientSampleId :
PB167450BS



Tgt Ion:212 Resp: 513
Ion Ratio Lower Upper
212 100
106 14.3 11.8 17.6
104 8.6 7.3 10.9

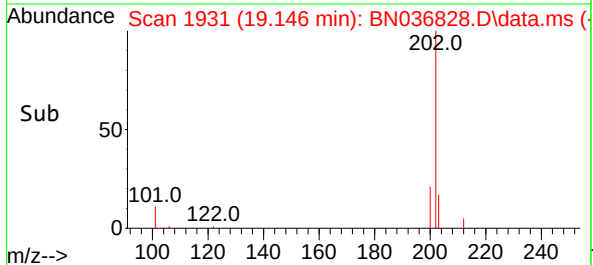
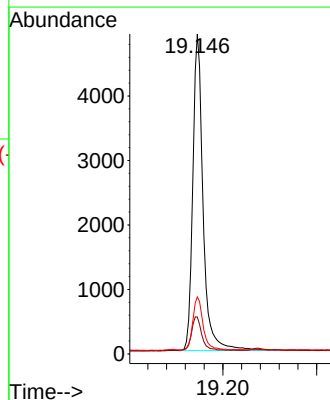
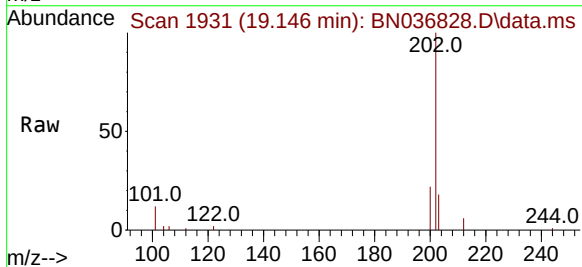
Manual Integrations
APPROVED

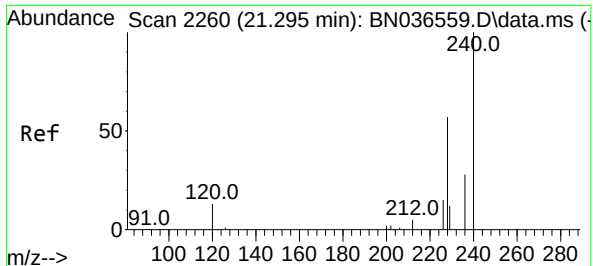
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025



#28
Fluoranthene
Concen: 0.407 ng
RT: 19.146 min Scan# 1931
Delta R.T. -0.028 min
Lab File: BN036828.D
Acq: 03 Apr 2025 18:26

Tgt Ion:202 Resp: 7512
Ion Ratio Lower Upper
202 100
101 11.2 9.4 14.0
203 16.7 13.5 20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.268 min Scan# 21

Delta R.T. -0.027 min

Lab File: BN036828.D

Acq: 03 Apr 2025 18:26

Instrument :

BNA_N

ClientSampleId :

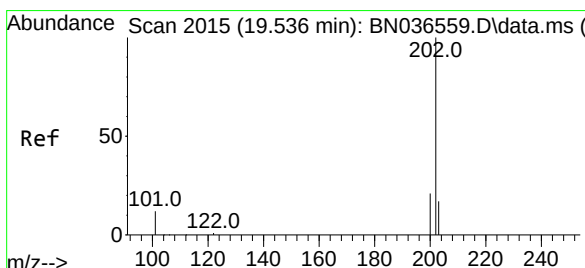
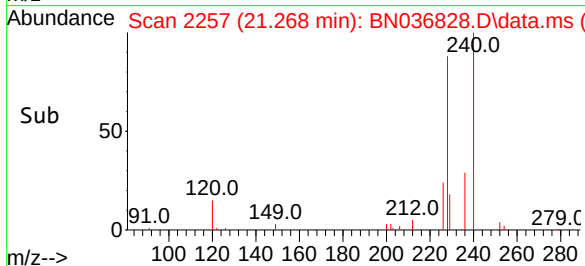
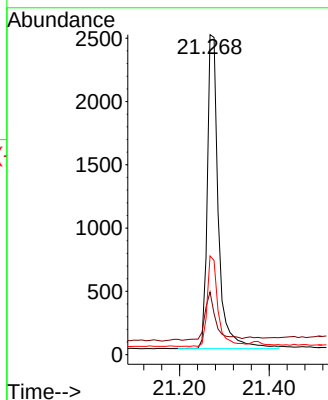
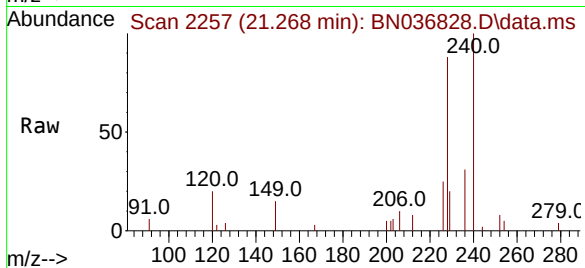
PB167450BS

Tgt Ion:	240	Resp:	428
Ion Ratio	Lower	Upper	
240	100		
120	19.6	14.6	22.0
236	30.9	24.1	36.1

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 04/04/2025

Supervised By :Jagrut Upadhyay 04/04/2025



#30

Pyrene

Concen: 0.370 ng

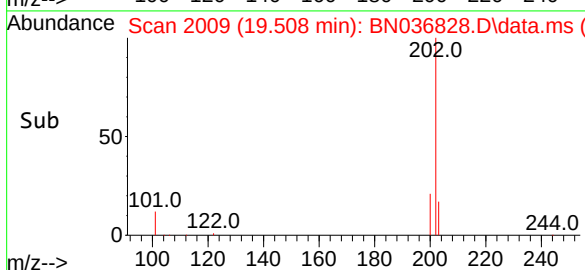
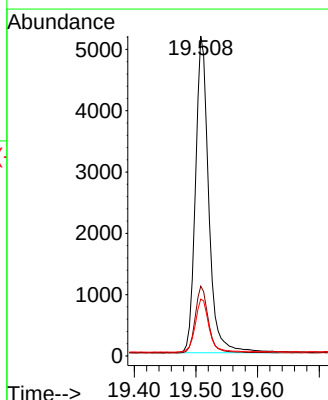
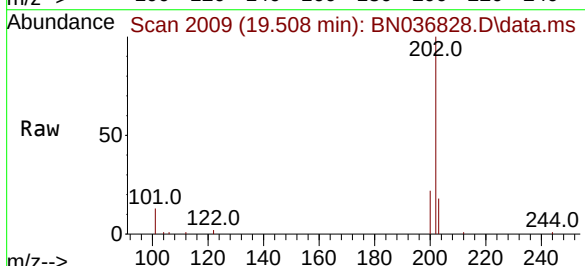
RT: 19.508 min Scan# 2009

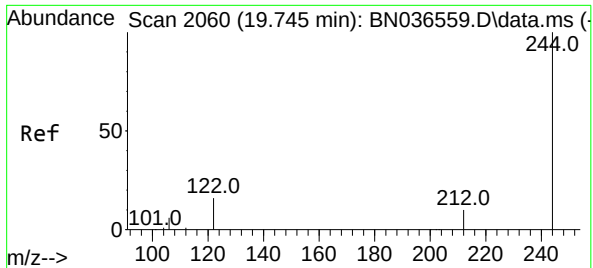
Delta R.T. -0.028 min

Lab File: BN036828.D

Acq: 03 Apr 2025 18:26

Tgt Ion:	202	Resp:	7742
Ion Ratio	Lower	Upper	
202	100		
200	21.2	17.1	25.7
203	17.2	14.1	21.1





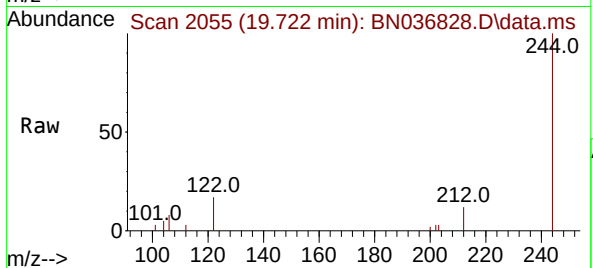
#31
Terphenyl-d14
Concen: 0.344 ng
RT: 19.722 min Scan# 2060
Delta R.T. -0.023 min
Lab File: BN036828.D
Acq: 03 Apr 2025 18:26

Instrument :

BNA_N

ClientSampleId :

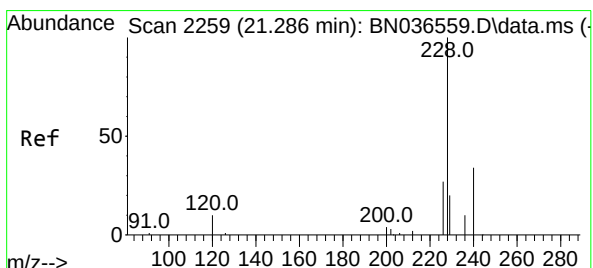
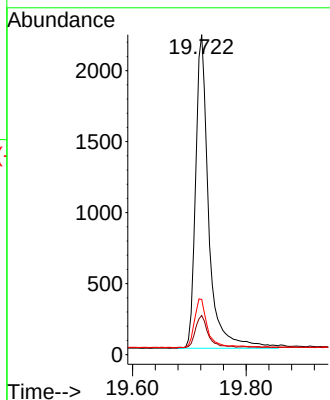
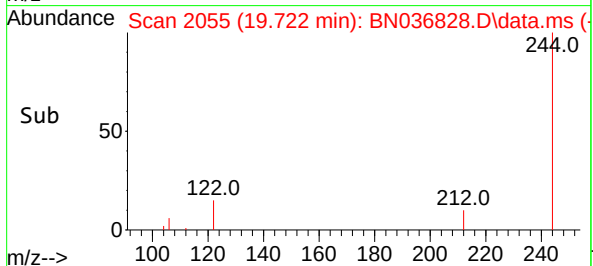
PB167450BS



Tgt Ion:244 Resp: 3530
Ion Ratio Lower Upper
244 100
212 12.3 9.6 14.4
122 17.2 13.9 20.9

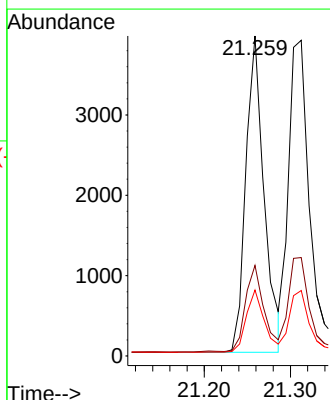
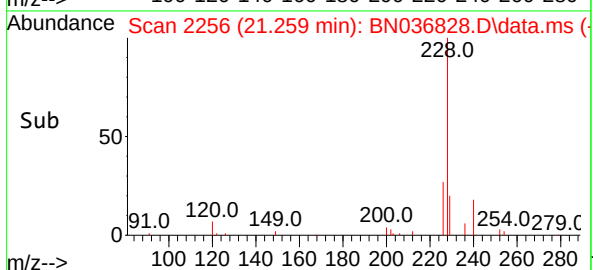
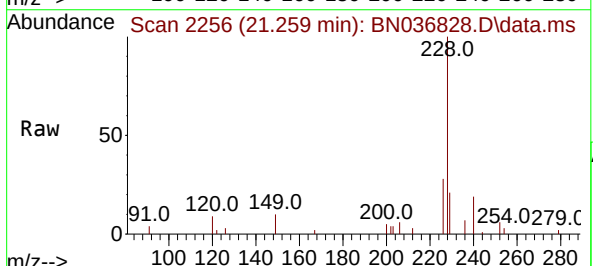
Manual Integrations
APPROVED

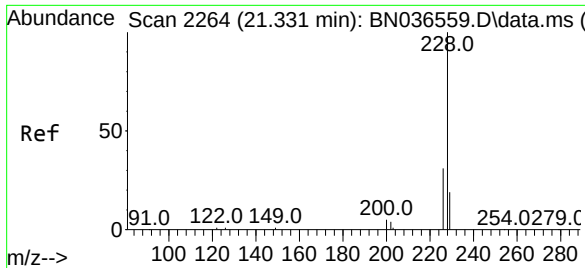
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025



#32
Benzo(a)anthracene
Concen: 0.390 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.027 min
Lab File: BN036828.D
Acq: 03 Apr 2025 18:26

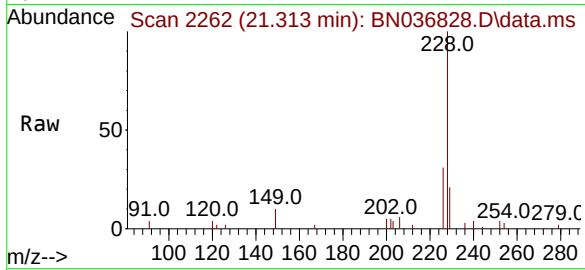
Tgt Ion:228 Resp: 5808
Ion Ratio Lower Upper
228 100
226 28.3 22.5 33.7
229 20.6 16.6 25.0





#33
Chrysene
Concen: 0.420 ng
RT: 21.313 min Scan# 2113
Delta R.T. -0.018 min
Lab File: BN036828.D
Acq: 03 Apr 2025 18:26

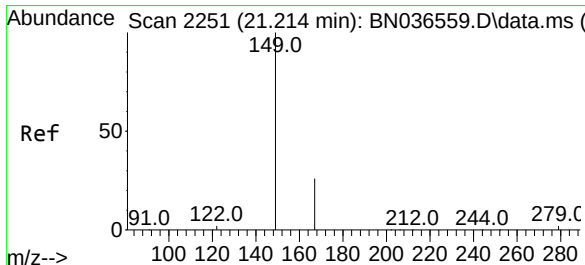
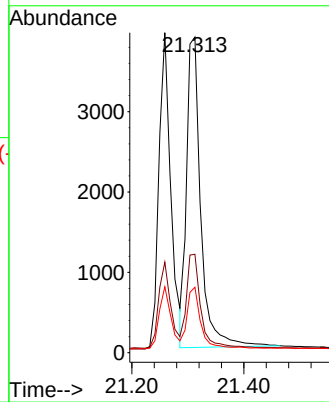
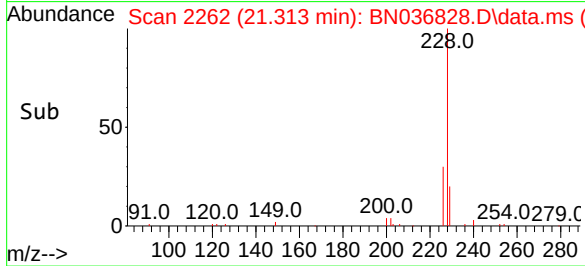
Instrument :
BNA_N
ClientSampleId :
PB167450BS



Tgt Ion:228 Resp: 6830
Ion Ratio Lower Upper
228 100
226 31.2 25.3 37.9
229 20.7 15.8 23.8

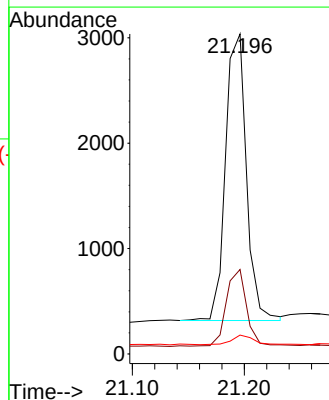
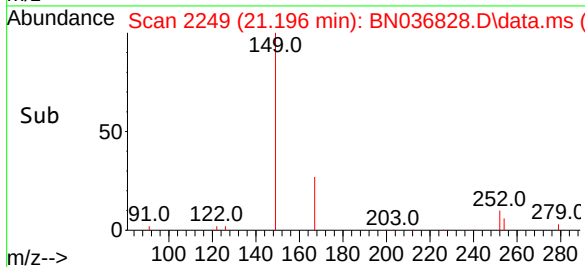
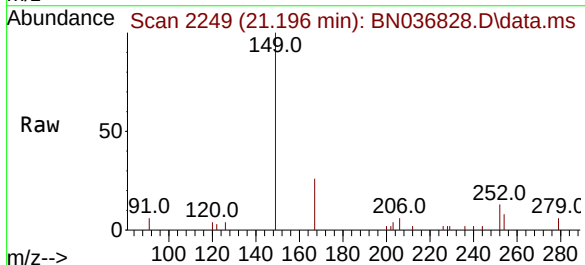
Manual Integrations
APPROVED

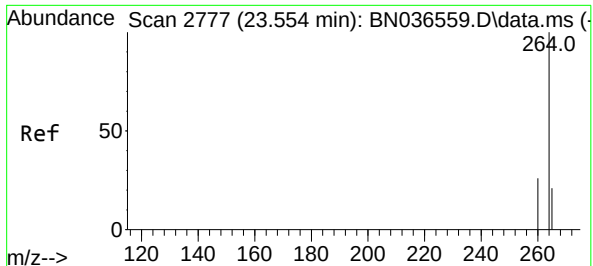
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.333 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036828.D
Acq: 03 Apr 2025 18:26

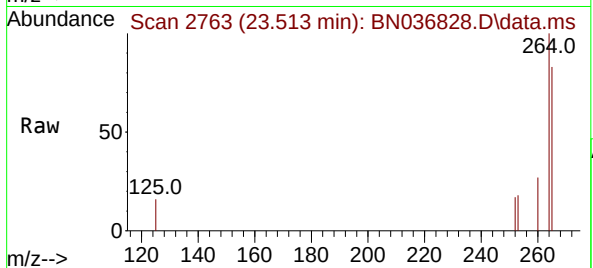
Tgt Ion:149 Resp: 3526
Ion Ratio Lower Upper
149 100
167 26.7 20.7 31.1
279 3.7 3.6 5.4





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.513 min Scan# 21
Delta R.T. -0.041 min
Lab File: BN036828.D
Acq: 03 Apr 2025 18:26

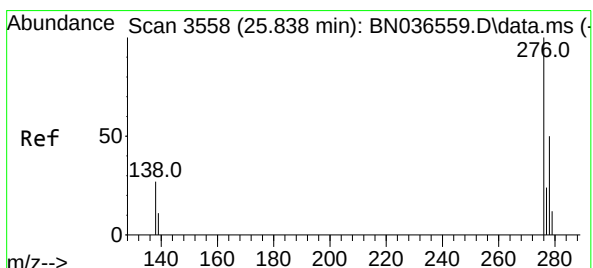
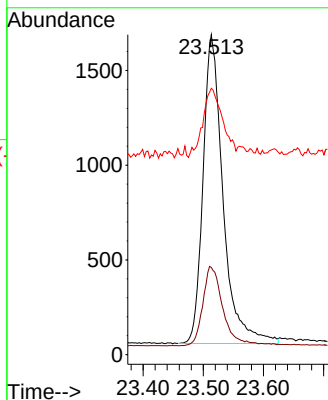
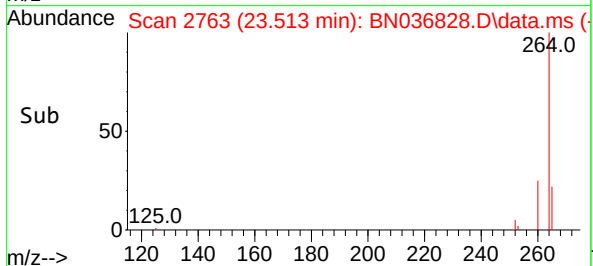
Instrument :
BNA_N
ClientSampleId :
PB167450BS



Tgt Ion:264 Resp: 3764
Ion Ratio Lower Upper
264 100
260 27.2 22.6 33.8
265 83.2 88.1 132.1

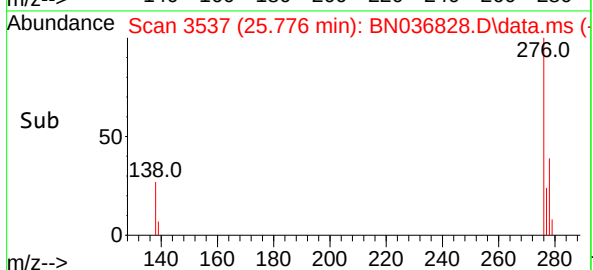
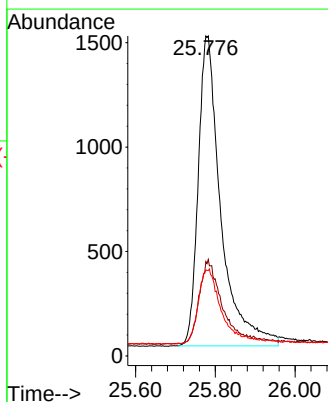
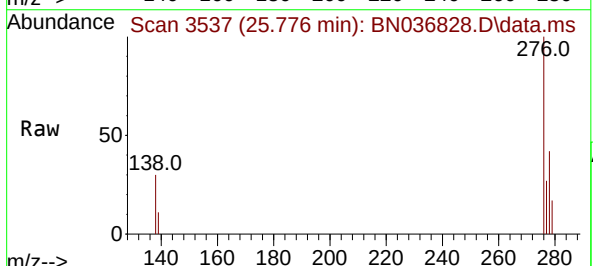
Manual Integrations
APPROVED

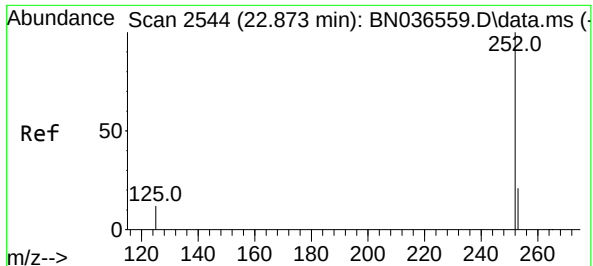
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.431 ng
RT: 25.776 min Scan# 3537
Delta R.T. -0.061 min
Lab File: BN036828.D
Acq: 03 Apr 2025 18:26

Tgt Ion:276 Resp: 5856
Ion Ratio Lower Upper
276 100
138 26.8 23.4 35.2
277 23.2 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.400 ng

RT: 22.841 min Scan# 21

Delta R.T. -0.032 min

Lab File: BN036828.D

Acq: 03 Apr 2025 18:26

Instrument :

BNA_N

ClientSampleId :

PB167450BS

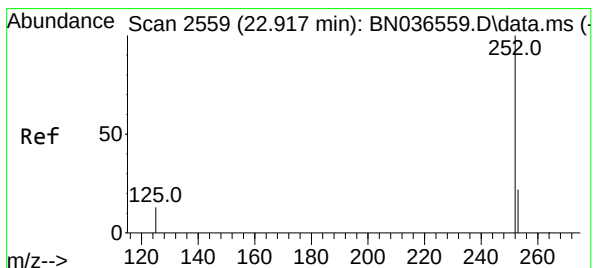
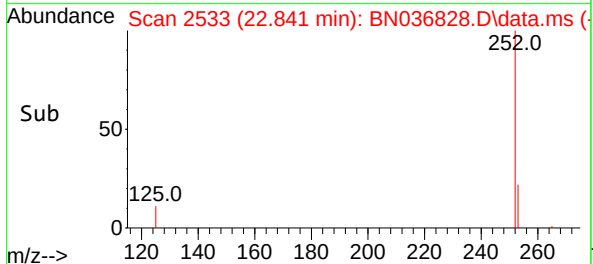
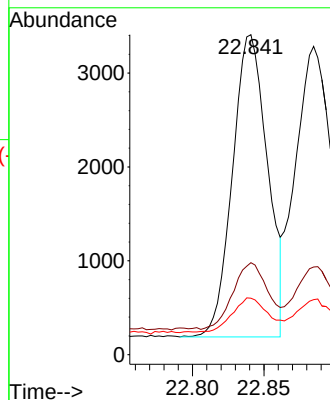
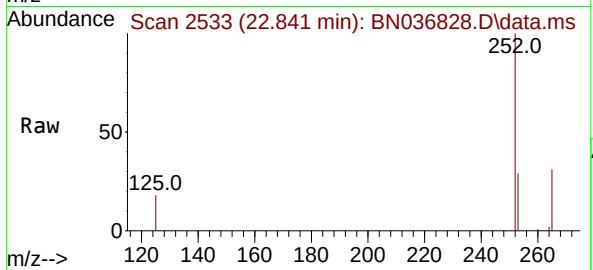
Tgt Ion:252	Resp:	548
Ion Ratio	Lower	Upper
252	100	
253	28.8	23.9 35.9
125	17.7	17.4 26.2

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 04/04/2025

Supervised By :Jagrut Upadhyay 04/04/2025



#38

Benzo(k)fluoranthene

Concen: 0.444 ng m

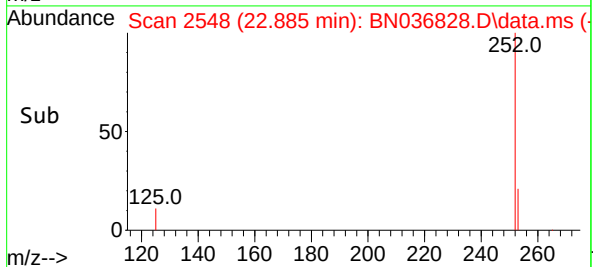
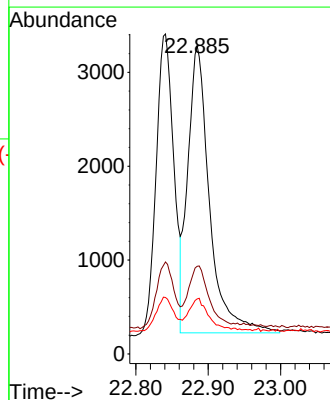
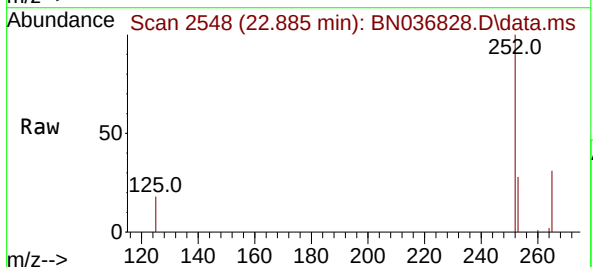
RT: 22.885 min Scan# 2548

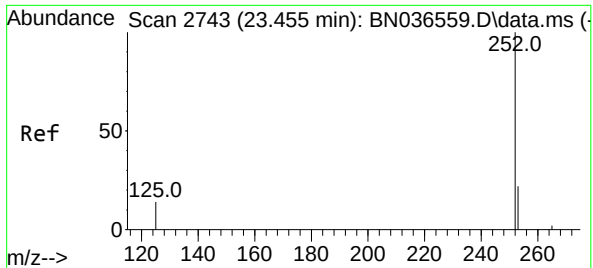
Delta R.T. -0.032 min

Lab File: BN036828.D

Acq: 03 Apr 2025 18:26

Tgt Ion:252	Resp:	6379
Ion Ratio	Lower	Upper
252	100	
253	28.5	24.6 36.8
125	17.9	17.8 26.8





#39

Benzo(a)pyrene

Concen: 0.434 ng

RT: 23.417 min Scan# 21

Delta R.T. -0.038 min

Lab File: BN036828.D

Acq: 03 Apr 2025 18:26

Instrument :

BNA_N

ClientSampleId :

PB167450BS

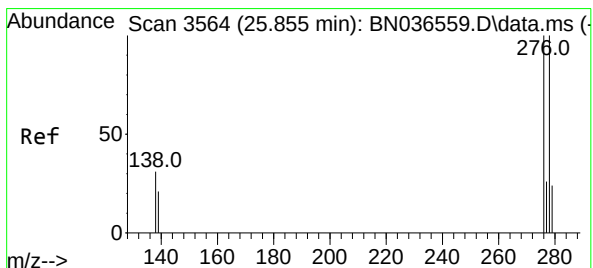
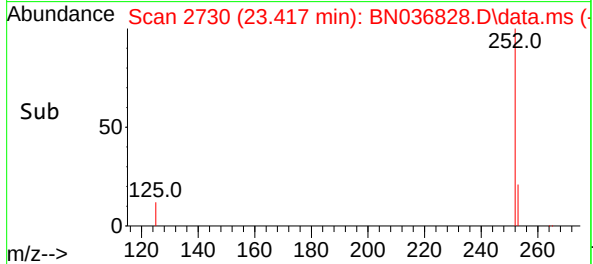
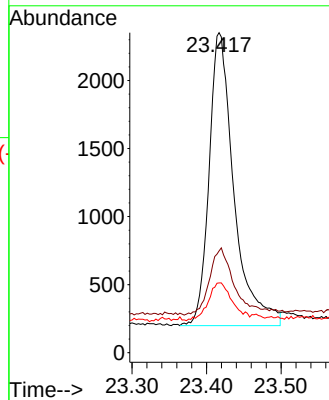
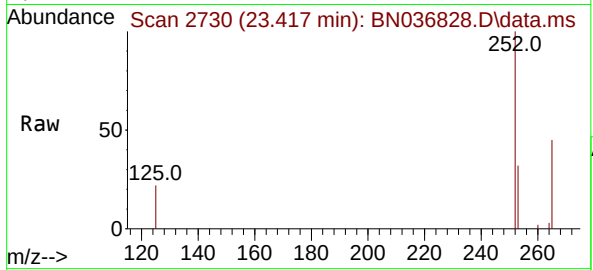
Tgt Ion:	252	Resp:	500
Ion Ratio	Lower	Upper	
252	100		
253	31.8	27.8	41.8
125	21.8	22.7	34.1

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 04/04/2025

Supervised By :Jagrut Upadhyay 04/04/2025



#40

Dibenzo(a,h)anthracene

Concen: 0.416 ng

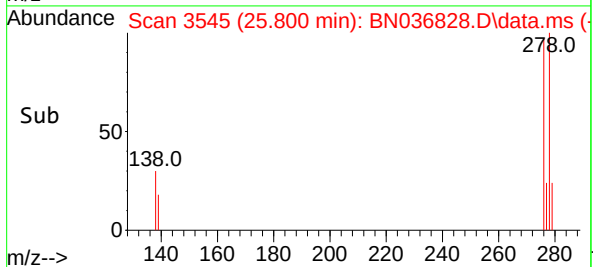
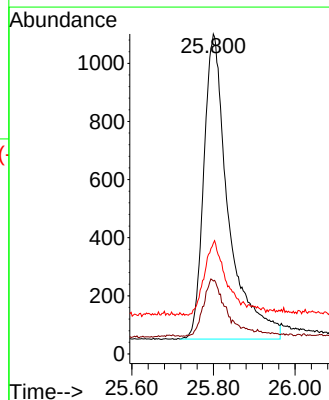
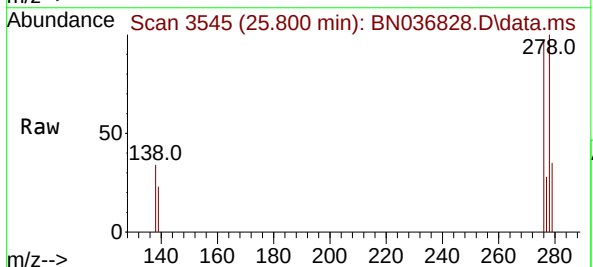
RT: 25.800 min Scan# 3545

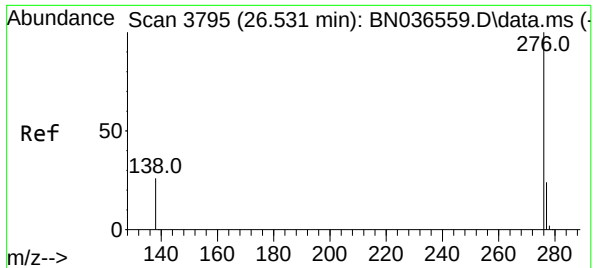
Delta R.T. -0.056 min

Lab File: BN036828.D

Acq: 03 Apr 2025 18:26

Tgt Ion:	278	Resp:	4402
Ion Ratio	Lower	Upper	
278	100		
139	22.8	20.8	31.2
279	34.6	28.8	43.2





#41

Benzo(g,h,i)perylene

Concen: 0.396 ng

RT: 26.466 min Scan# 31

Delta R.T. -0.064 min

Lab File: BN036828.D

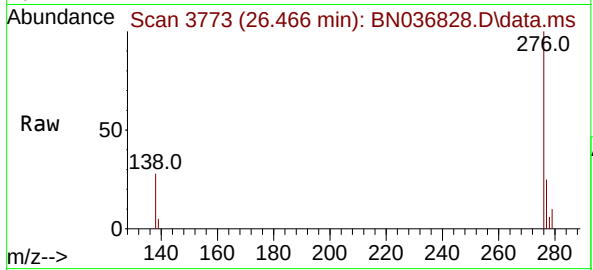
Acq: 03 Apr 2025 18:26

Instrument :

BNA_N

ClientSampleId :

PB167450BS



Tgt Ion:276 Resp: 478

Ion Ratio Lower Upper

276 100

277 25.3 22.2 33.4

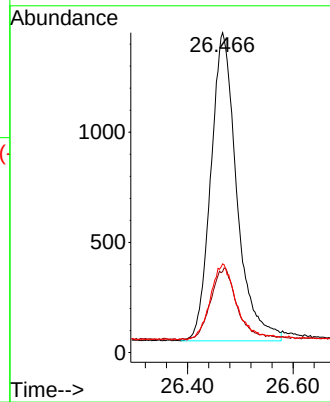
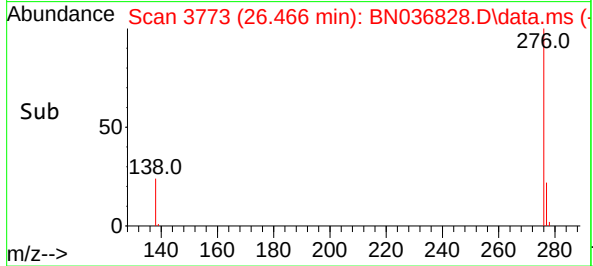
138 27.8 24.1 36.1

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 04/04/2025

Supervised By :Jagrut Upadhyay 04/04/2025



Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	04/02/25
Project:	Former Schlumberger STC PTC Site # D3868221	Date Received:	04/02/25
Client Sample ID:	MW-18B-56-040225MS	SDG No.:	Q1711
Lab Sample ID:	Q1711-02MS	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
BN036834.D	1	04/03/25 13:10	04/03/25 22:03	PB167450

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
123-91-1	1,4-Dioxane	3.60		0.070	0.20	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.34		30 (20) - 150 (139)	84%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.42		30 (30) - 150 (150)	106%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		30 (27) - 130 (154)	79%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		30 (25) - 130 (149)	93%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.37		30 (54) - 130 (175)	92%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	2280	7.696			
1146-65-2	Naphthalene-d8	5940	10.477			
15067-26-2	Acenaphthene-d10	3400	14.334			
1517-22-2	Phenanthrene-d10	7220	17.074			
1719-03-5	Chrysene-d12	6800	21.268			
1520-96-3	Perylene-d12	6380	23.508			

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\BN040325\
 Data File : BN036834.D
 Acq On : 03 Apr 2025 22:03
 Operator : RC/JU
 Sample : Q1711-02MS
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 MW-18B-56-040225MS

Quant Time: Apr 04 00:57:50 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 16:06:28 2025
 Response via : Initial Calibration

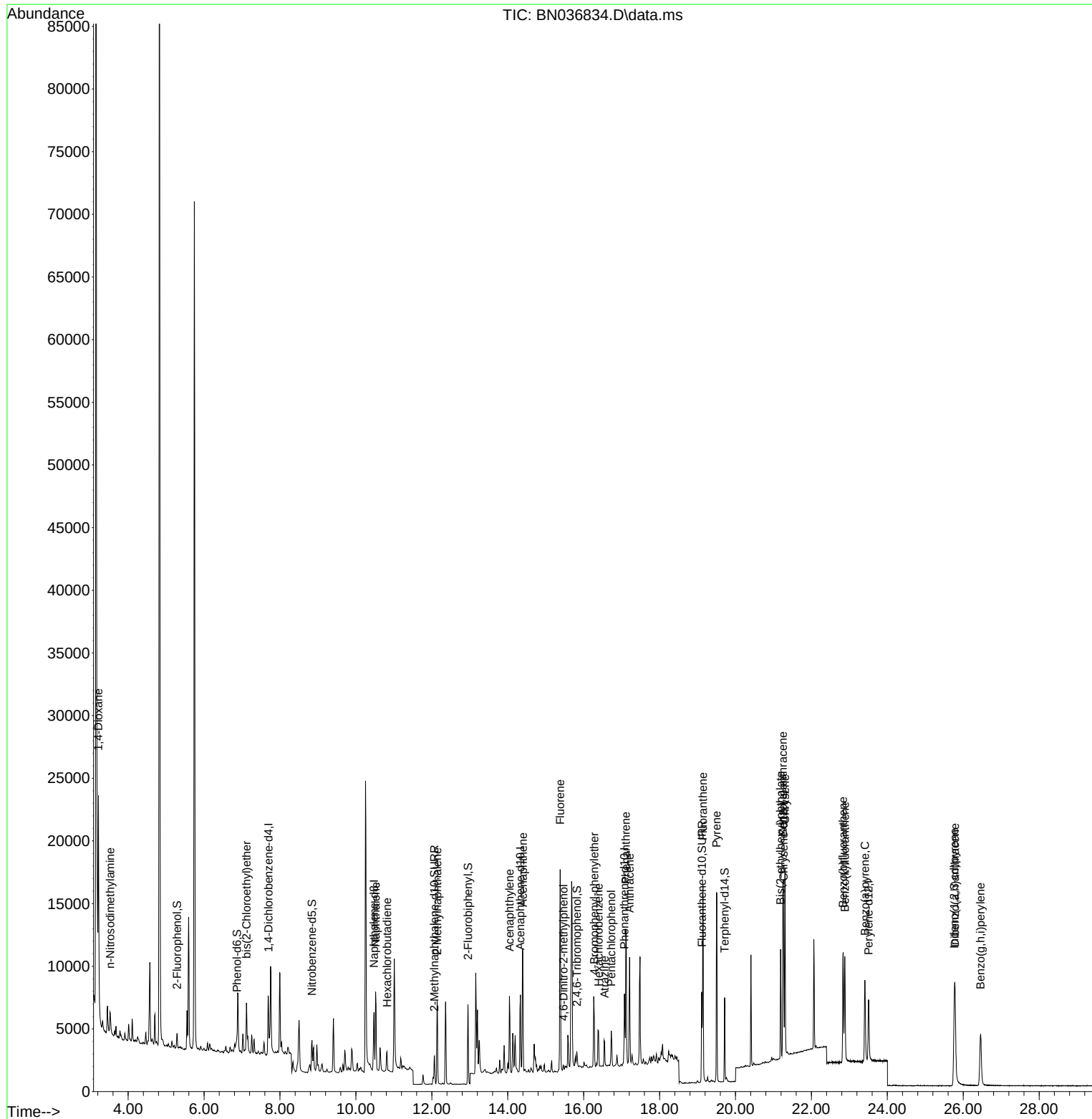
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.696	152	2278	0.400	ng	-0.03
7) Naphthalene-d8	10.477	136	5938	0.400	ng	#-0.03
13) Acenaphthene-d10	14.334	164	3398	0.400	ng	-0.03
19) Phenanthrene-d10	17.074	188	7219	0.400	ng	#-0.04
29) Chrysene-d12	21.268	240	6803	0.400	ng	#-0.03
35) Perylene-d12	23.508	264	6381	0.400	ng	#-0.05
System Monitoring Compounds						
4) 2-Fluorophenol	5.291	112	810	0.153	ng	-0.02
5) Phenol-d6	6.865	99	679	0.104	ng	-0.04
8) Nitrobenzene-d5	8.843	82	2043	0.316	ng	-0.03
11) 2-Methylnaphthalene-d10	12.070	152	2972	0.336	ng	-0.04
14) 2,4,6-Tribromophenol	15.820	330	612	0.397	ng	-0.04
15) 2-Fluorobiphenyl	12.953	172	7361	0.372	ng	-0.04
27) Fluoranthene-d10	19.113	212	7849	0.424	ng	-0.03
31) Terphenyl-d14	19.713	244	6012	0.369	ng	-0.03
Target Compounds						
2) 1,4-Dioxane	3.218	88	8945	3.540	ng	# 83
3) n-Nitrosodimethylamine	3.528	42	974	0.191	ng	87
6) bis(2-Chloroethyl)ether	7.118	93	2649	0.391	ng	99
9) Naphthalene	10.520	128	7858	0.450	ng	100
10) Hexachlorobutadiene	10.819	225	1270	0.309	ng	# 99
12) 2-Methylnaphthalene	12.141	142	4519	0.407	ng	99
16) Acenaphthylene	14.046	152	6599	0.412	ng	99
17) Acenaphthene	14.398	154	5048	0.481	ng	99
18) Fluorene	15.382	166	6157	0.434	ng	100
20) 4,6-Dinitro-2-methylph...	15.467	198	355	0.339	ng	89
21) 4-Bromophenyl-phenylether	16.280	248	1881	0.416	ng	# 74
22) Hexachlorobenzene	16.391	284	2032	0.372	ng	96
23) Atrazine	16.553	200	1837	0.507	ng	# 91
24) Pentachlorophenol	16.727	266	1303	0.523	ng	98
25) Phenanthrene	17.111	178	12318	0.569	ng	100
26) Anthracene	17.211	178	9554	0.489	ng	100
28) Fluoranthene	19.141	202	12736	0.524	ng	# 92
30) Pyrene	19.503	202	13231	0.398	ng	100
32) Benzo(a)anthracene	21.250	228	10909	0.461	ng	98
33) Chrysene	21.304	228	11562	0.447	ng	100
34) Bis(2-ethylhexyl)phtha...	21.187	149	7055	0.419	ng	# 98
36) Indeno(1,2,3-cd)pyrene	25.765	276	10894	0.473	ng	99
37) Benzo(b)fluoranthene	22.835	252	10597	0.456	ng	# 91
38) Benzo(k)fluoranthene	22.879	252	10984	0.451	ng	# 89
39) Benzo(a)pyrene	23.408	252	9561	0.489	ng	# 85
40) Dibenzo(a,h)anthracene	25.785	278	8260	0.461	ng	# 88
41) Benzo(g,h,i)perylene	26.458	276	8573	0.418	ng	95

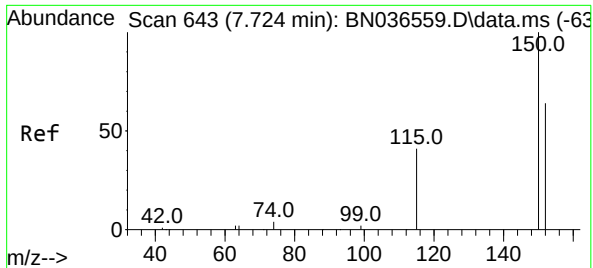
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN040325\
Data File : BN036834.D
Acq On : 03 Apr 2025 22:03
Operator : RC/JU
Sample : Q1711-02MS
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
MW-18B-56-040225MS

Quant Time: Apr 04 00:57:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

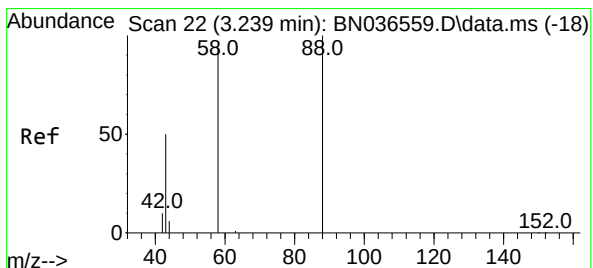
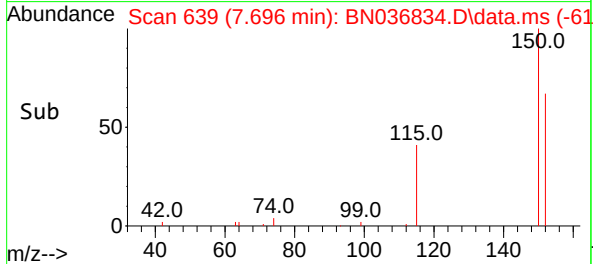
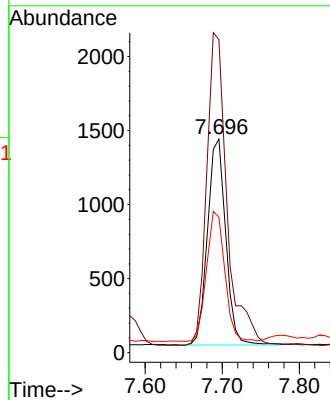
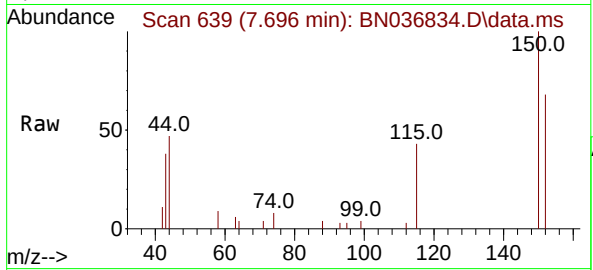




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.696 min Scan# 61
Delta R.T. -0.028 min
Lab File: BN036834.D
Acq: 03 Apr 2025 22:03

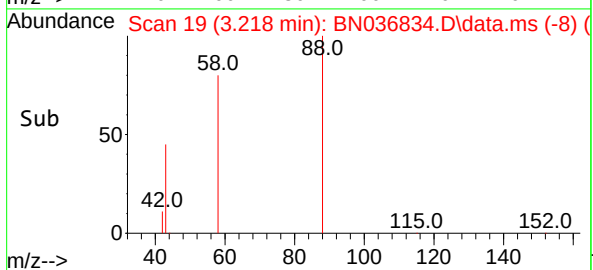
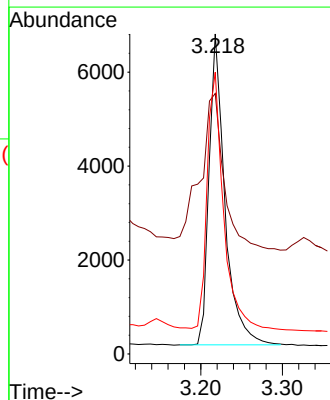
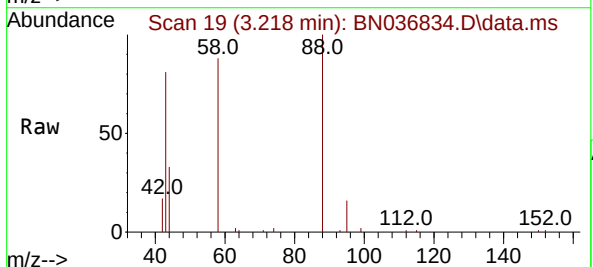
Instrument :
BNA_N
ClientSampleId :
MW-18B-56-040225MS

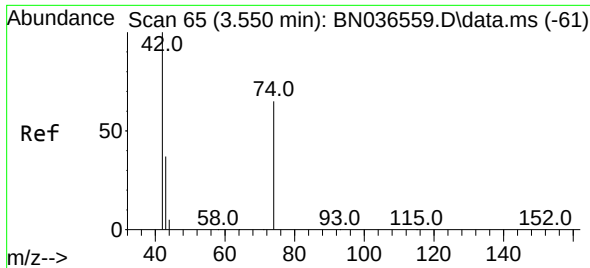
Tgt Ion:152 Resp: 2278
Ion Ratio Lower Upper
152 100
150 146.7 123.7 185.5
115 63.5 54.3 81.5



#2
1,4-Dioxane
Concen: 3.540 ng
RT: 3.218 min Scan# 19
Delta R.T. -0.021 min
Lab File: BN036834.D
Acq: 03 Apr 2025 22:03

Tgt Ion: 88 Resp: 8945
Ion Ratio Lower Upper
88 100
43 77.8 37.8 56.8#
58 85.7 67.4 101.2

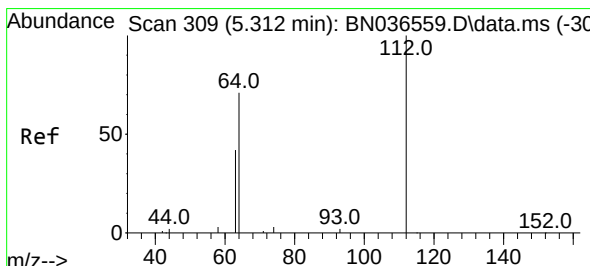
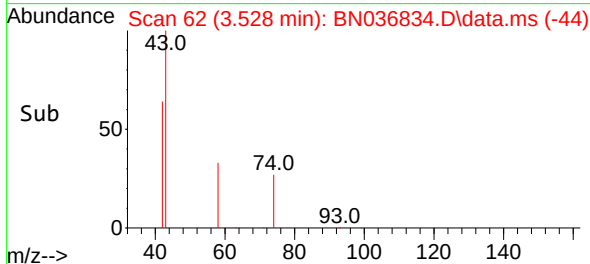
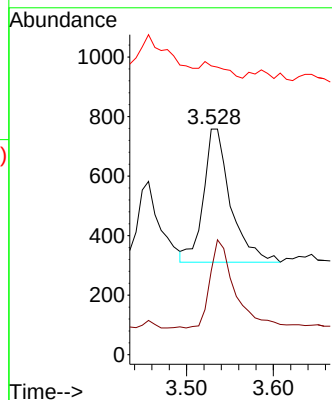
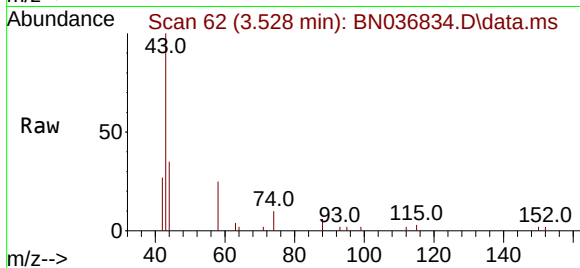




#3
n-Nitrosodimethylamine
Concen: 0.191 ng
RT: 3.528 min Scan# 61
Delta R.T. -0.021 min
Lab File: BN036834.D
Acq: 03 Apr 2025 22:03

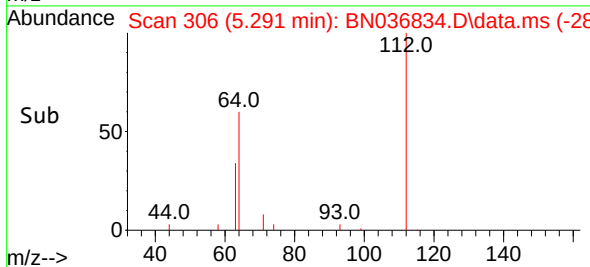
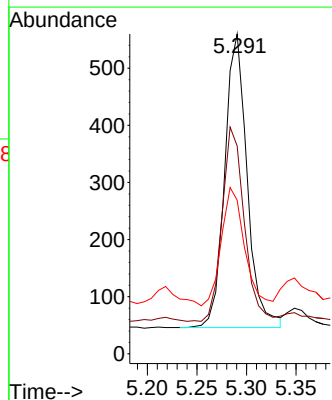
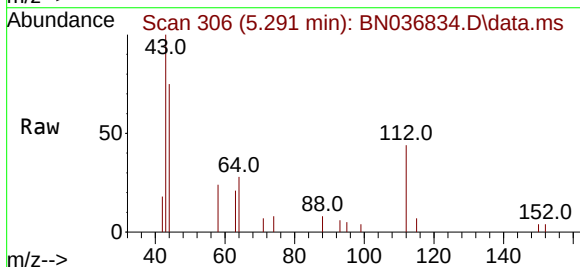
Instrument :
BNA_N
ClientSampleId :
MW-18B-56-040225MS

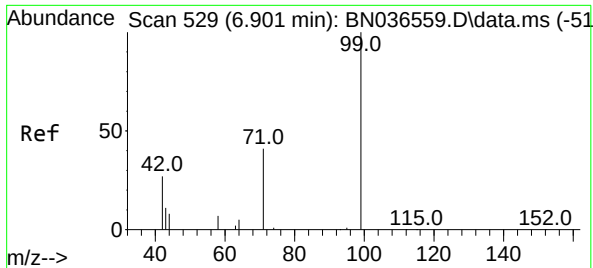
Tgt Ion: 42 Resp: 974
Ion Ratio Lower Upper
42 100
74 63.4 60.6 90.8
44 8.7 6.3 9.5



#4
2-Fluorophenol
Concen: 0.153 ng
RT: 5.291 min Scan# 306
Delta R.T. -0.021 min
Lab File: BN036834.D
Acq: 03 Apr 2025 22:03

Tgt Ion: 112 Resp: 810
Ion Ratio Lower Upper
112 100
64 65.1 53.1 79.7
63 41.5 31.8 47.8

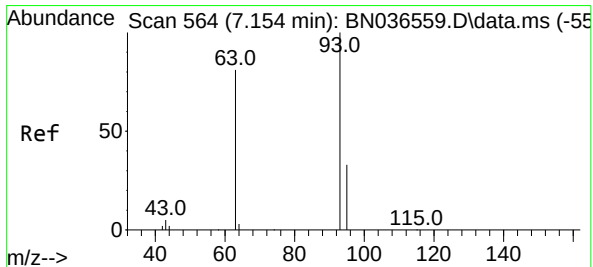
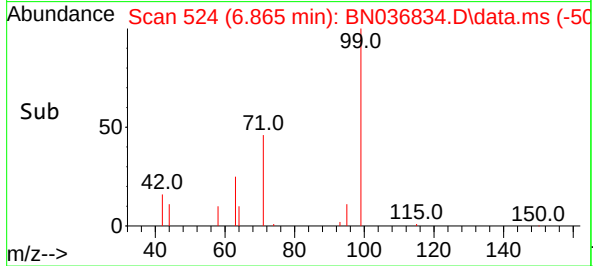
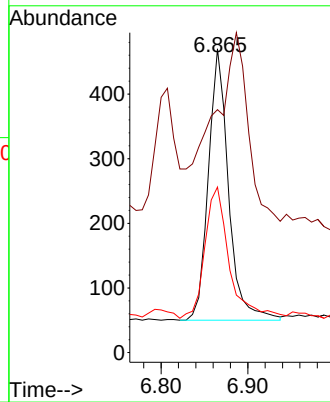
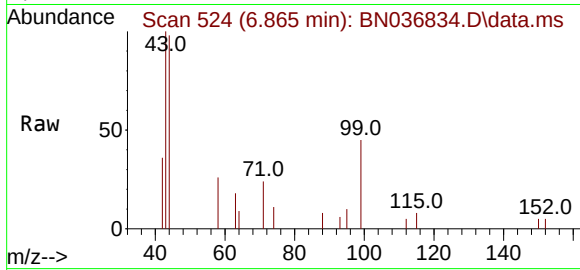




#5
Phenol-d6
Concen: 0.104 ng
RT: 6.865 min Scan# 51
Delta R.T. -0.036 min
Lab File: BN036834.D
Acq: 03 Apr 2025 22:03

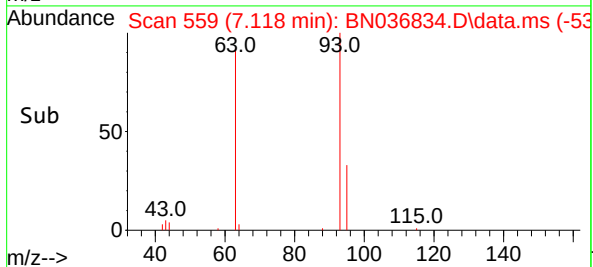
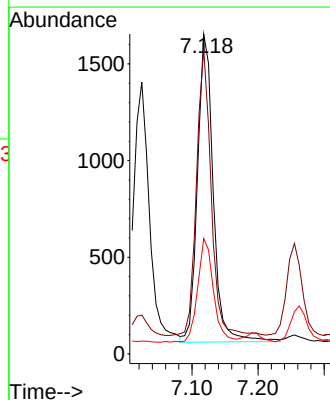
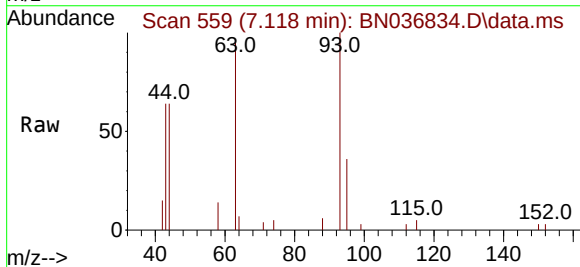
Instrument :
BNA_N
ClientSampleId :
MW-18B-56-040225MS

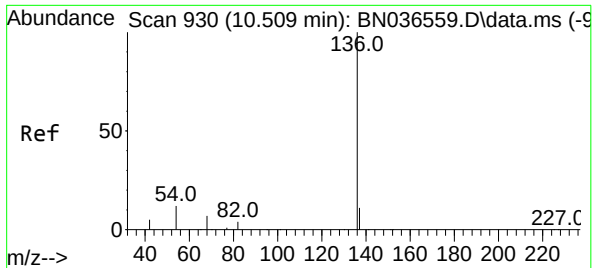
Tgt Ion: 99 Resp: 679
Ion Ratio Lower Upper
99 100
42 0.0 26.5 39.7#
71 58.6 34.1 51.1#



#6
bis(2-Chloroethyl)ether
Concen: 0.391 ng
RT: 7.118 min Scan# 559
Delta R.T. -0.036 min
Lab File: BN036834.D
Acq: 03 Apr 2025 22:03

Tgt Ion: 93 Resp: 2649
Ion Ratio Lower Upper
93 100
63 85.4 67.7 101.5
95 33.4 25.6 38.4

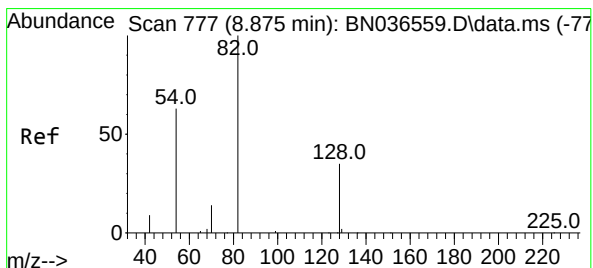
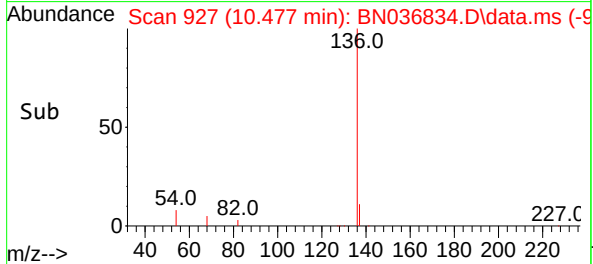
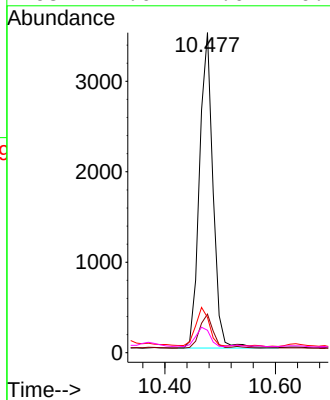
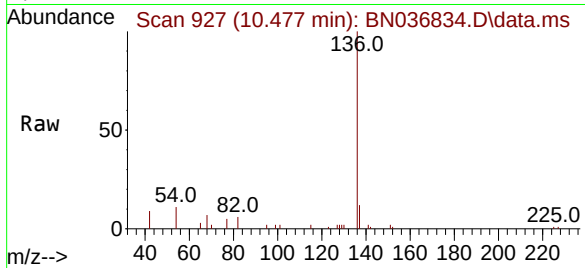




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.477 min Scan# 91
Delta R.T. -0.032 min
Lab File: BN036834.D
Acq: 03 Apr 2025 22:03

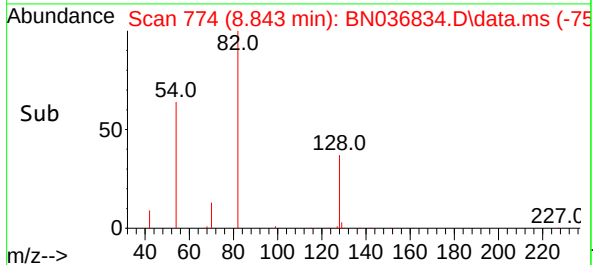
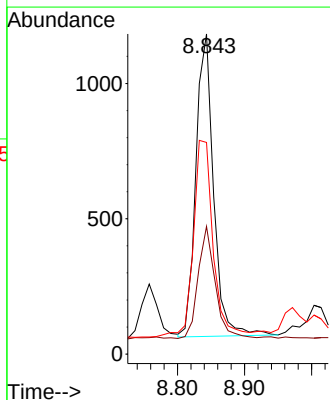
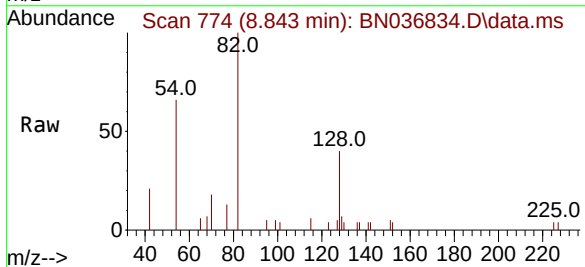
Instrument :
BNA_N
ClientSampleId :
MW-18B-56-040225MS

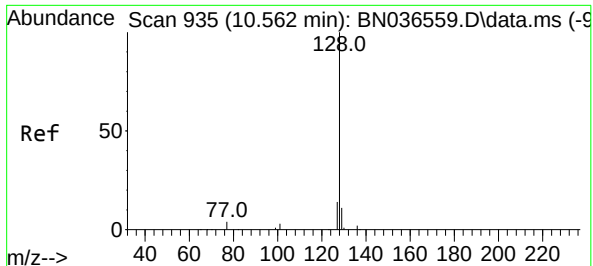
Tgt Ion:	136	Resp:	5938
Ion	Ratio	Lower	Upper
136	100		
137	12.0	10.3	15.5
54	11.0	11.5	17.3
68	7.0	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.316 ng
RT: 8.843 min Scan# 774
Delta R.T. -0.032 min
Lab File: BN036834.D
Acq: 03 Apr 2025 22:03

Tgt Ion:	82	Resp:	2043
Ion	Ratio	Lower	Upper
82	100		
128	39.9	30.6	45.8
54	66.1	52.2	78.4





#9

Naphthalene

Concen: 0.450 ng

RT: 10.520 min Scan# 91

Delta R.T. -0.043 min

Lab File: BN036834.D

Acq: 03 Apr 2025 22:03

Instrument :

BNA_N

ClientSampleId :

MW-18B-56-040225MS

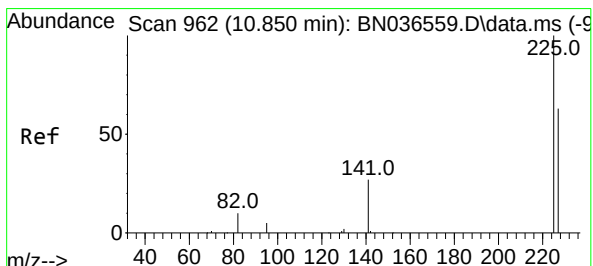
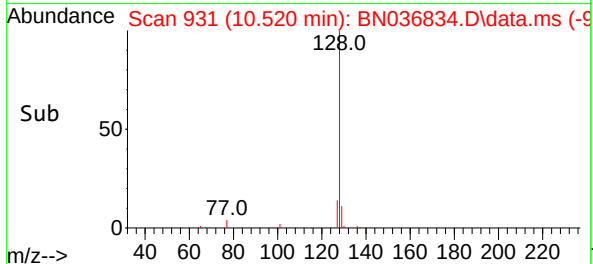
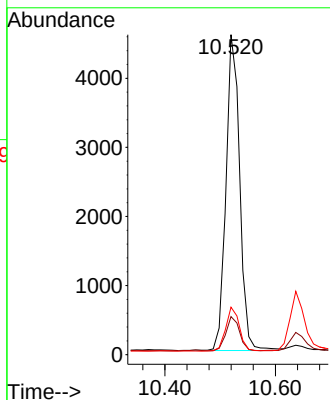
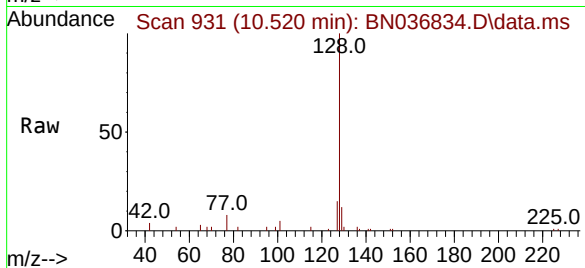
Tgt Ion:128 Resp: 7858

Ion Ratio Lower Upper

128 100

129 11.9 9.8 14.6

127 14.8 11.8 17.8



#10

Hexachlorobutadiene

Concen: 0.309 ng

RT: 10.819 min Scan# 959

Delta R.T. -0.032 min

Lab File: BN036834.D

Acq: 03 Apr 2025 22:03

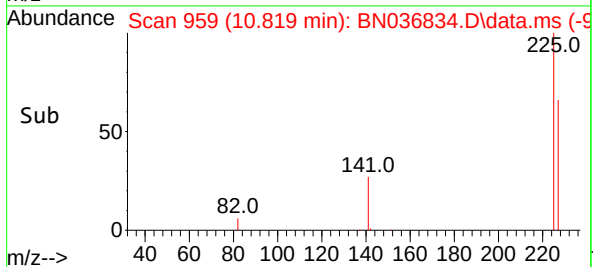
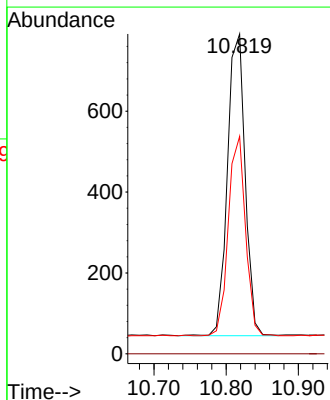
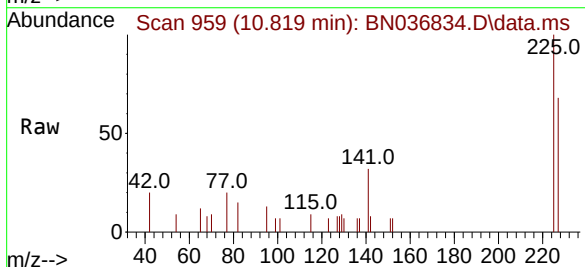
Tgt Ion:225 Resp: 1270

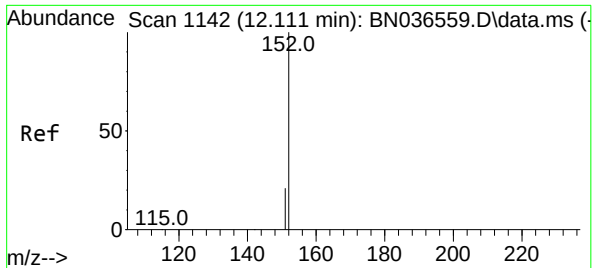
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 64.0 51.8 77.8

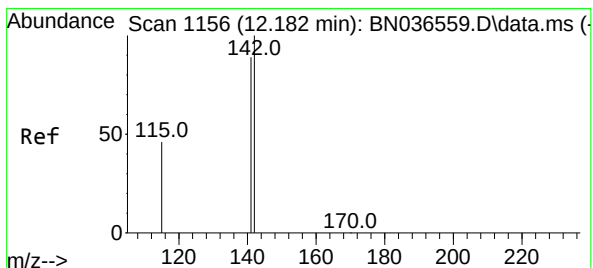
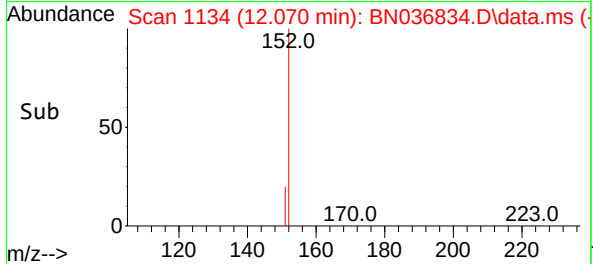
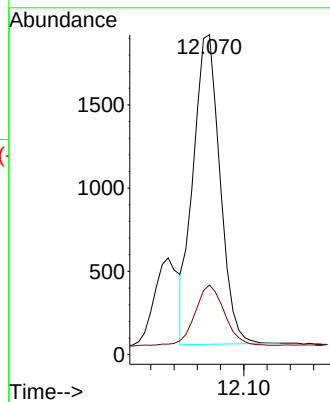
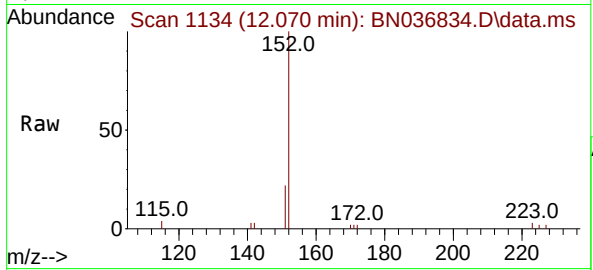




#11
2-Methylnaphthalene-d10
Concen: 0.336 ng
RT: 12.070 min Scan# 1142
Delta R.T. -0.040 min
Lab File: BN036834.D
Acq: 03 Apr 2025 22:03

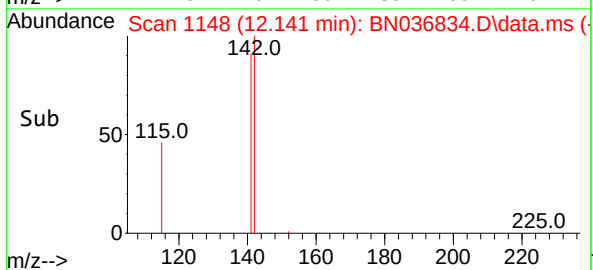
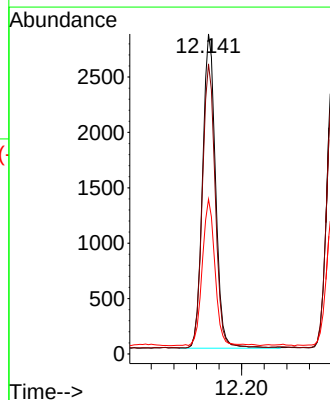
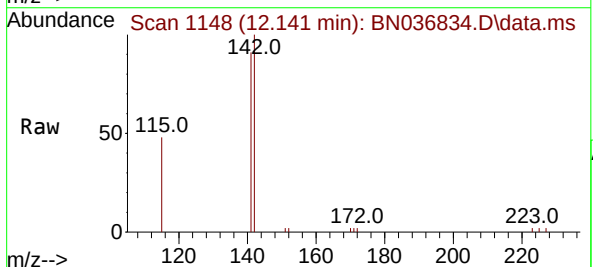
Instrument :
BNA_N
ClientSampleId :
MW-18B-56-040225MS

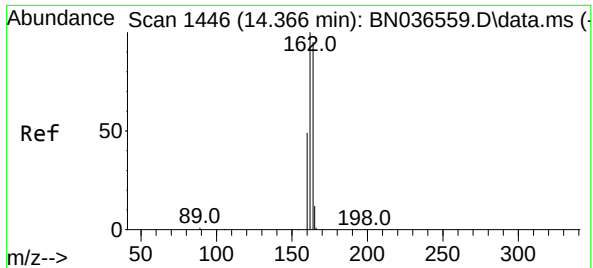
Tgt Ion:152 Resp: 2972
Ion Ratio Lower Upper
152 100
151 22.3 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.407 ng
RT: 12.141 min Scan# 1148
Delta R.T. -0.040 min
Lab File: BN036834.D
Acq: 03 Apr 2025 22:03

Tgt Ion:142 Resp: 4519
Ion Ratio Lower Upper
142 100
141 90.7 71.7 107.5
115 48.4 38.3 57.5

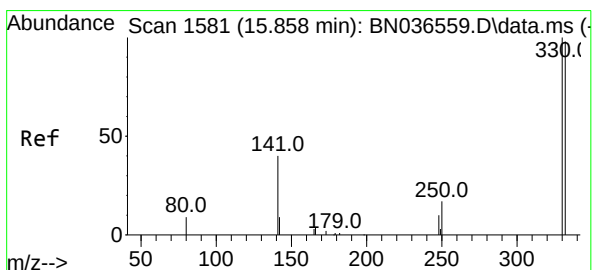
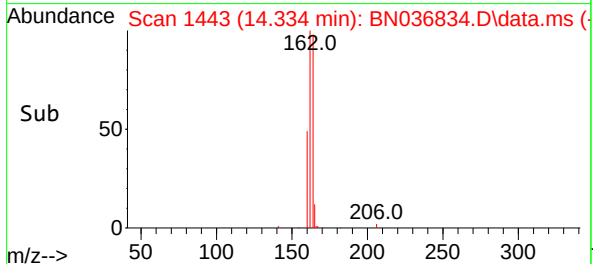
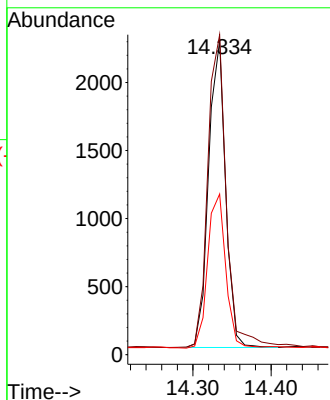
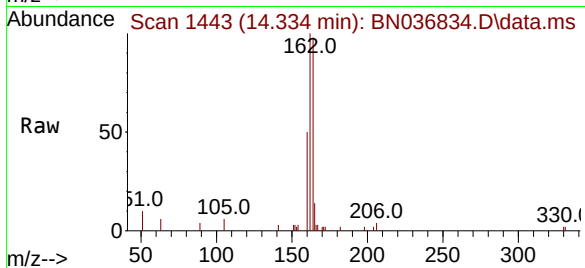




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 1443
Delta R.T. -0.032 min
Lab File: BN036834.D
Acq: 03 Apr 2025 22:03

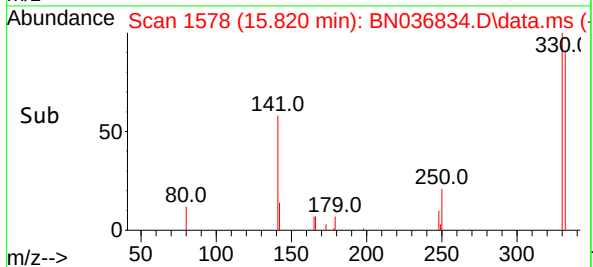
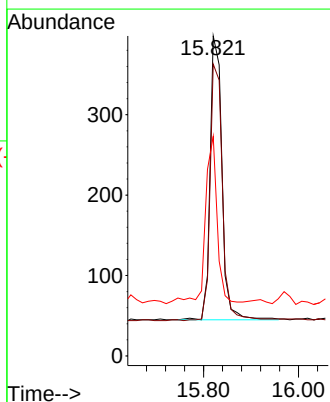
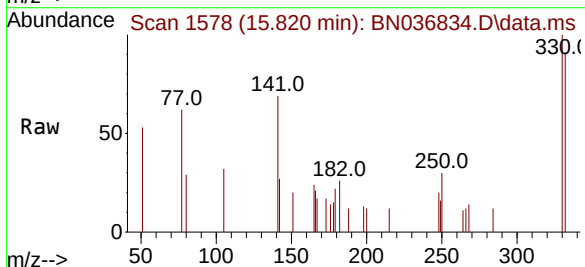
Instrument :
BNA_N
ClientSampleId :
MW-18B-56-040225MS

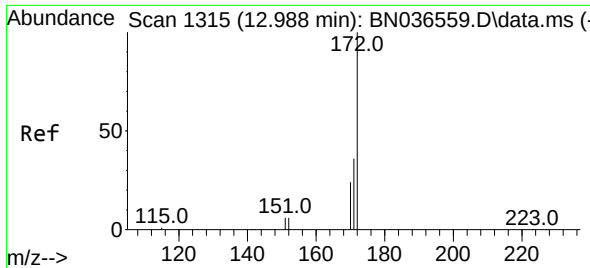
Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.0	84.2	126.2
160	51.1	42.2	63.2



#14
2,4,6-Tribromophenol
Concen: 0.397 ng
RT: 15.820 min Scan# 1578
Delta R.T. -0.037 min
Lab File: BN036834.D
Acq: 03 Apr 2025 22:03

Tgt Ion	Ratio	Lower	Upper
330	100		
332	94.4	75.2	112.8
141	59.2	43.4	65.2

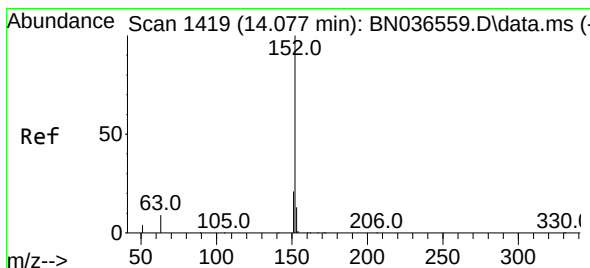
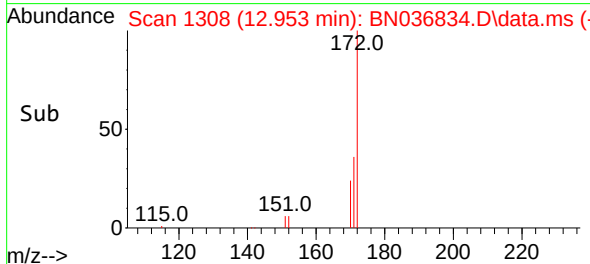
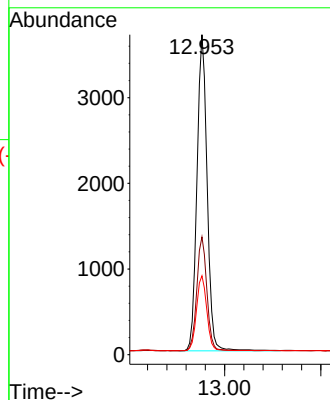
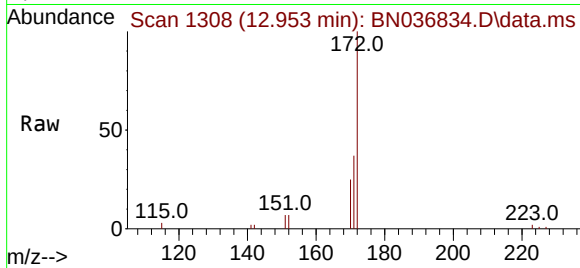




#15
2-Fluorobiphenyl
Concen: 0.372 ng
RT: 12.953 min Scan# 11
Delta R.T. -0.035 min
Lab File: BN036834.D
Acq: 03 Apr 2025 22:03

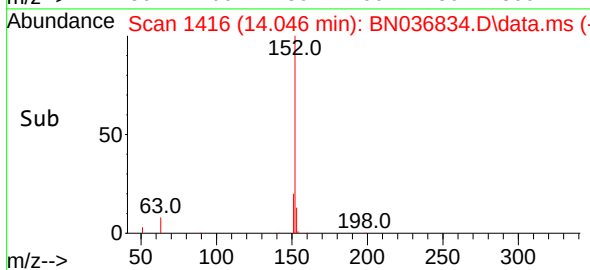
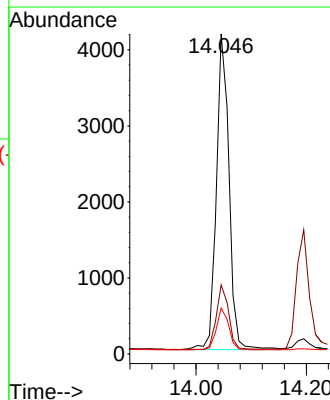
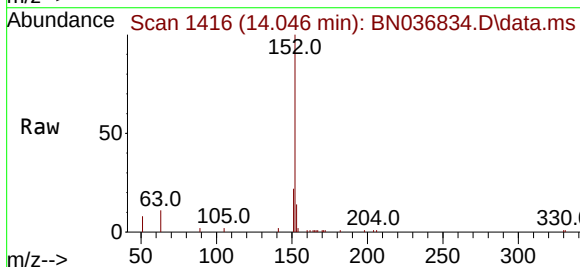
Instrument :
BNA_N
ClientSampleId :
MW-18B-56-040225MS

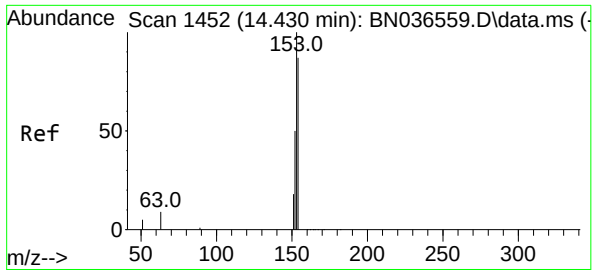
Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.8	29.5	44.3
170	24.6	20.2	30.4



#16
Acenaphthylene
Concen: 0.412 ng
RT: 14.046 min Scan# 1416
Delta R.T. -0.032 min
Lab File: BN036834.D
Acq: 03 Apr 2025 22:03

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.5	16.2	24.4
153	13.1	10.6	15.8

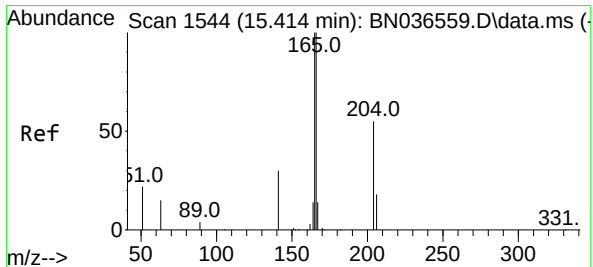
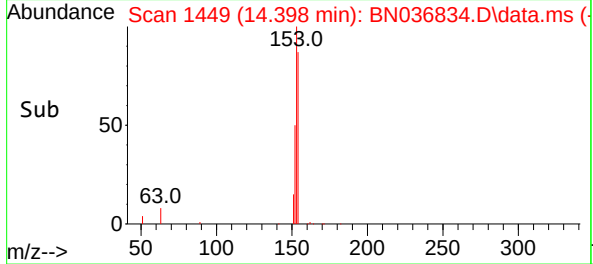
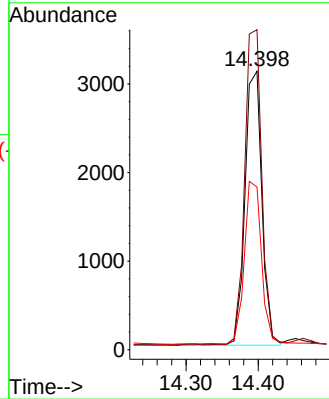
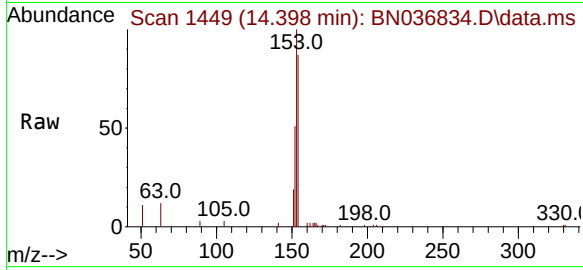




#17
Acenaphthene
Concen: 0.481 ng
RT: 14.398 min Scan# 1449
Delta R.T. -0.032 min
Lab File: BN036834.D
Acq: 03 Apr 2025 22:03

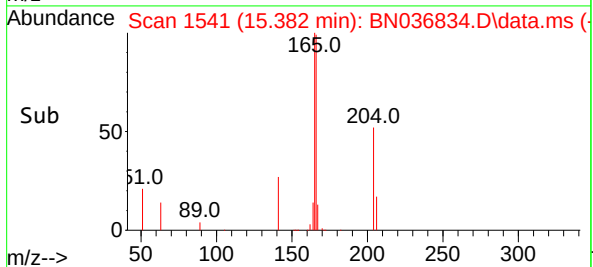
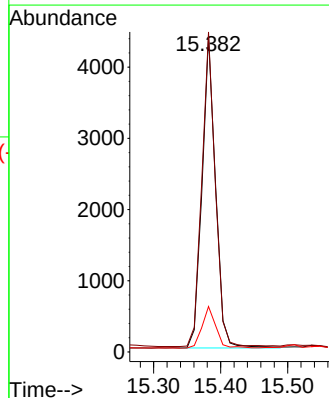
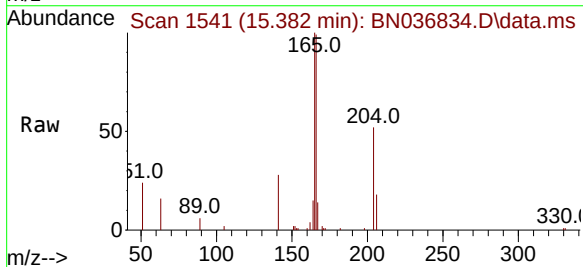
Instrument :
BNA_N
ClientSampleId :
MW-18B-56-040225MS

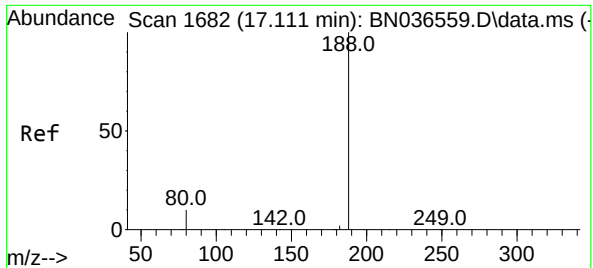
Tgt Ion:	154	Resp:	5048
Ion Ratio	Lower	Upper	
154	100		
153	116.3	94.1	141.1
152	61.3	49.8	74.6



#18
Fluorene
Concen: 0.434 ng
RT: 15.382 min Scan# 1541
Delta R.T. -0.032 min
Lab File: BN036834.D
Acq: 03 Apr 2025 22:03

Tgt Ion:	166	Resp:	6157
Ion Ratio	Lower	Upper	
166	100		
165	100.1	79.8	119.8
167	13.8	10.6	15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.074 min Scan# 1

Delta R.T. -0.037 min

Lab File: BN036834.D

Acq: 03 Apr 2025 22:03

Instrument :

BNA_N

ClientSampleId :

MW-18B-56-040225MS

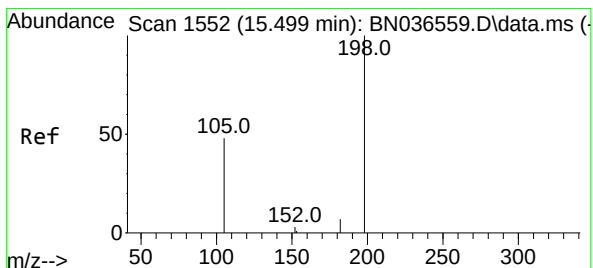
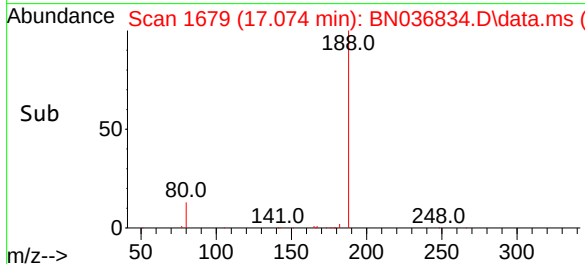
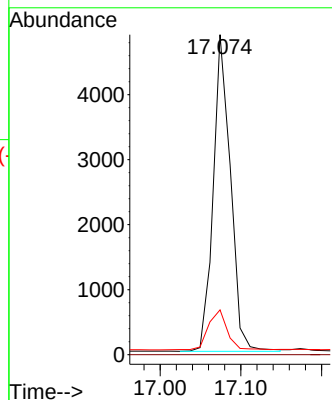
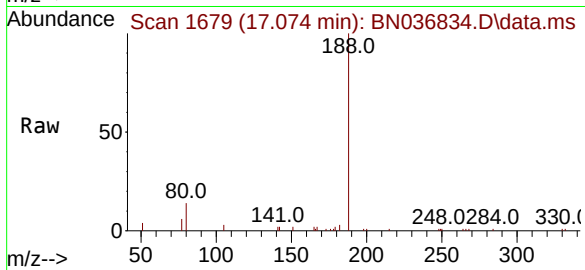
Tgt Ion:188 Resp: 7219

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 14.0 8.8 13.2#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.339 ng

RT: 15.467 min Scan# 1549

Delta R.T. -0.032 min

Lab File: BN036834.D

Acq: 03 Apr 2025 22:03

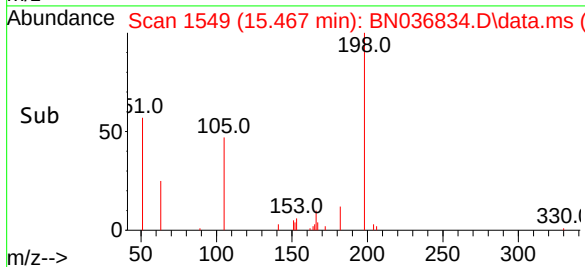
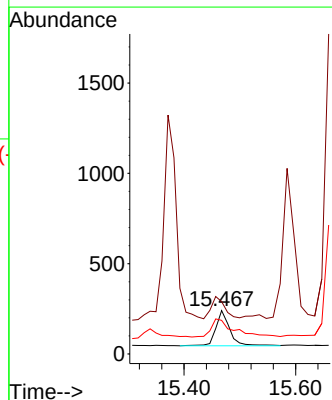
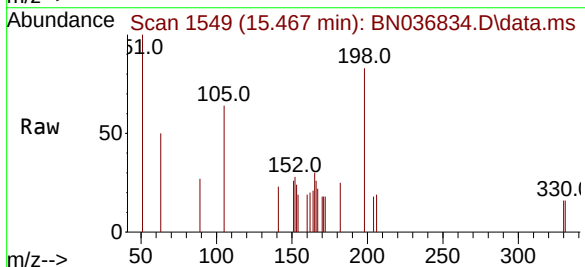
Tgt Ion:198 Resp: 355

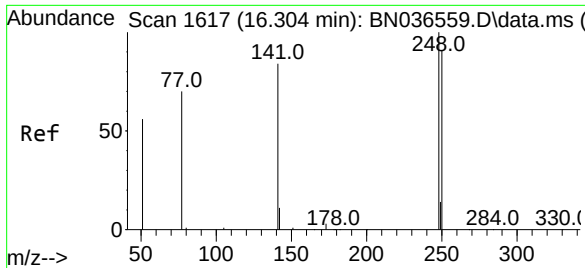
Ion Ratio Lower Upper

198 100

51 120.8 107.9 161.9

105 77.5 56.2 84.2

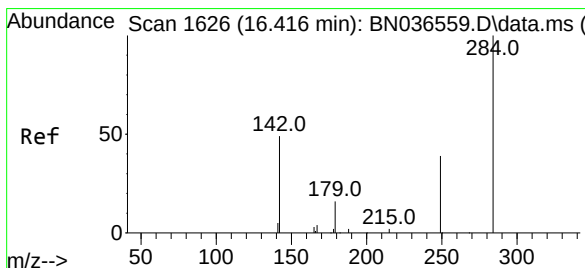
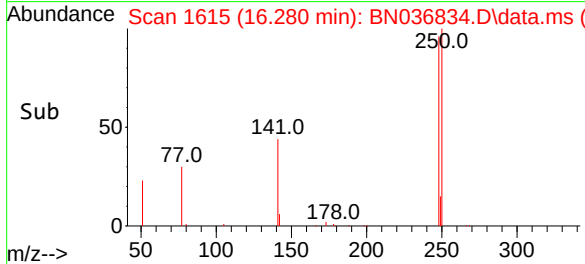
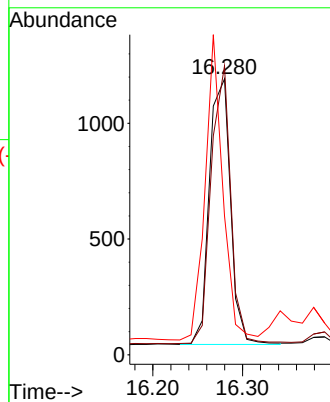
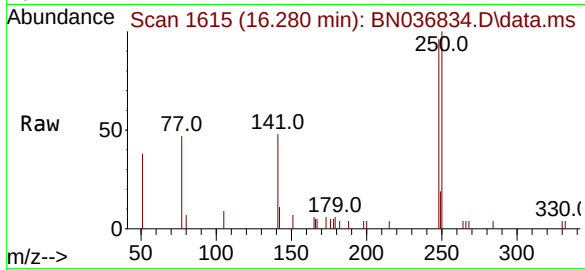




#21
4-Bromophenyl-phenylether
Concen: 0.416 ng
RT: 16.280 min Scan# 1615
Delta R.T. -0.025 min
Lab File: BN036834.D
Acq: 03 Apr 2025 22:03

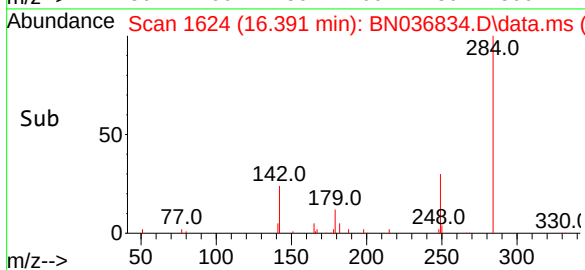
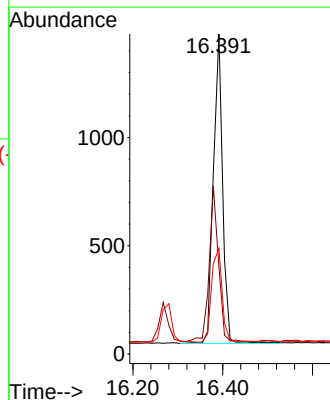
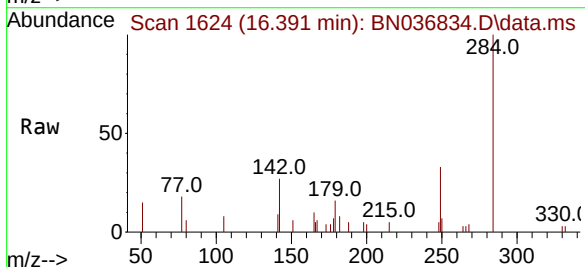
Instrument :
BNA_N
ClientSampleId :
MW-18B-56-040225MS

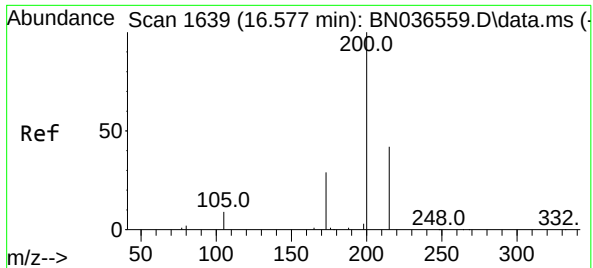
Tgt Ion	Ratio	Lower	Upper
248	100		
250	104.7	73.0	109.6
141	50.3	68.6	103.0



#22
Hexachlorobenzene
Concen: 0.372 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.025 min
Lab File: BN036834.D
Acq: 03 Apr 2025 22:03

Tgt Ion	Ratio	Lower	Upper
284	100		
142	50.3	37.0	55.4
249	34.4	28.1	42.1

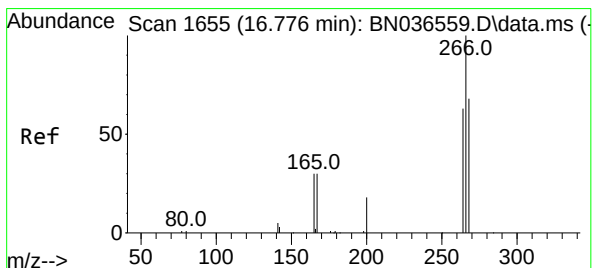
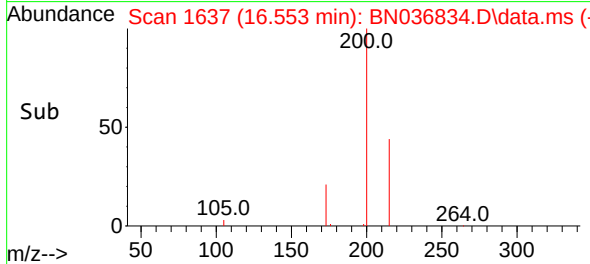
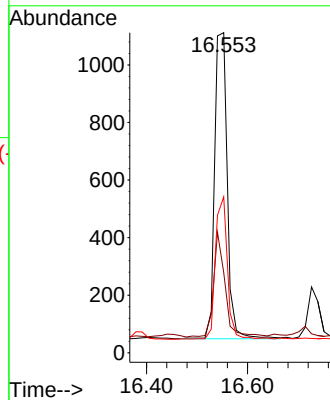
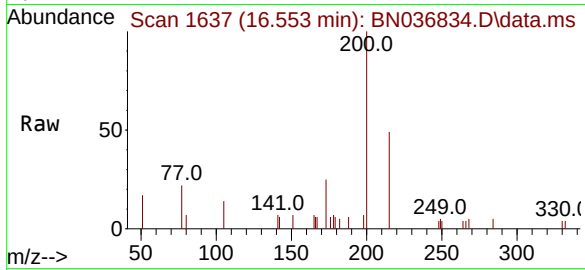




#23
Atrazine
Concen: 0.507 ng
RT: 16.553 min Scan# 1637
Delta R.T. -0.025 min
Lab File: BN036834.D
Acq: 03 Apr 2025 22:03

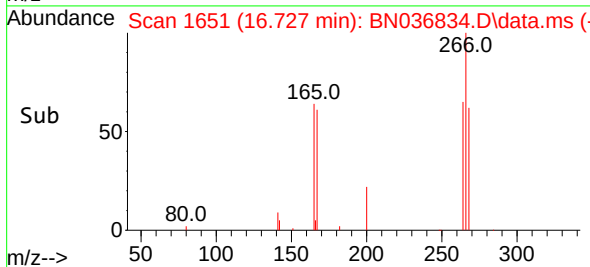
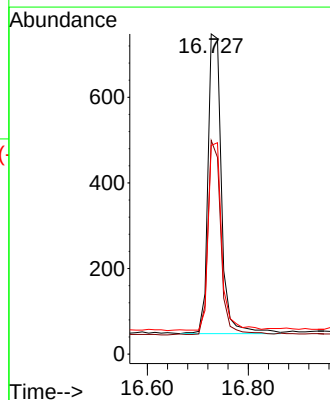
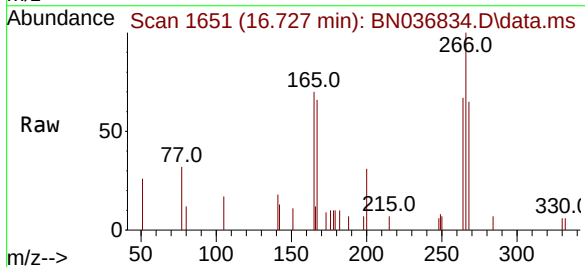
Instrument :
BNA_N
ClientSampleId :
MW-18B-56-040225MS

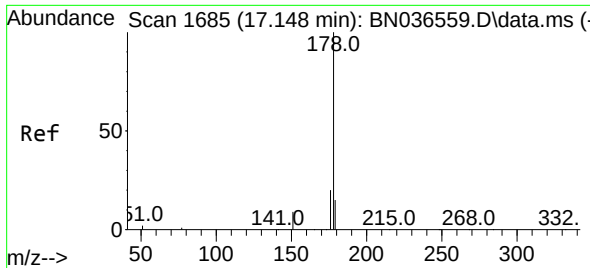
Tgt Ion:200 Resp: 1837
Ion Ratio Lower Upper
200 100
173 25.1 27.3 40.9#
215 48.7 36.8 55.2



#24
Pentachlorophenol
Concen: 0.523 ng
RT: 16.727 min Scan# 1651
Delta R.T. -0.049 min
Lab File: BN036834.D
Acq: 03 Apr 2025 22:03

Tgt Ion:266 Resp: 1303
Ion Ratio Lower Upper
266 100
264 61.3 49.6 74.4
268 61.5 50.9 76.3

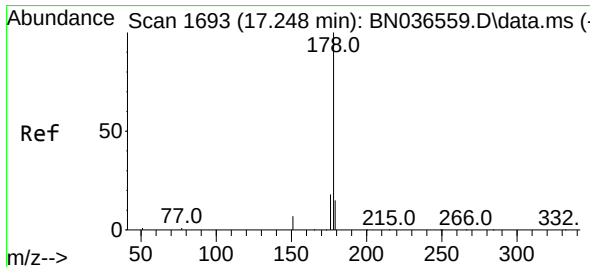
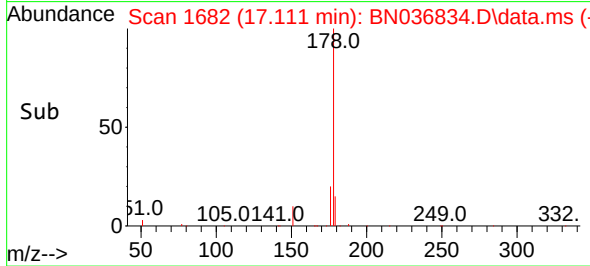
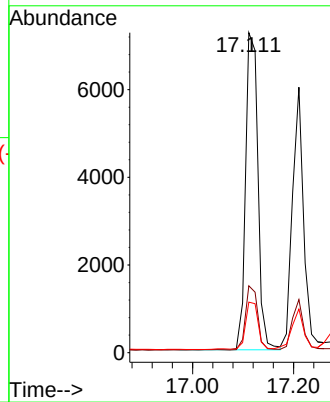
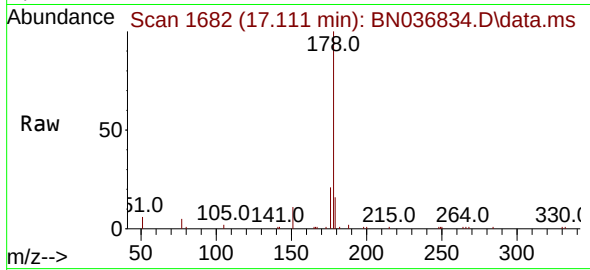




#25
Phenanthrene
Concen: 0.569 ng
RT: 17.111 min Scan# 1682
Delta R.T. -0.037 min
Lab File: BN036834.D
Acq: 03 Apr 2025 22:03

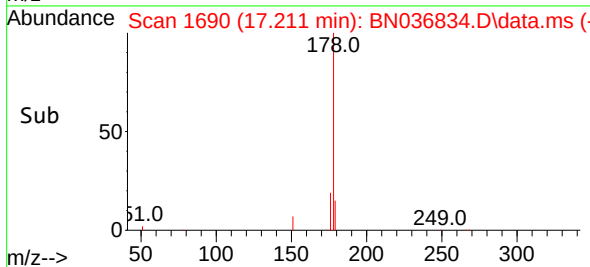
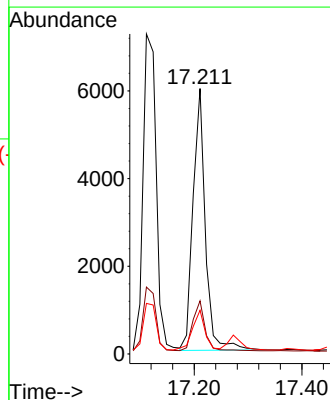
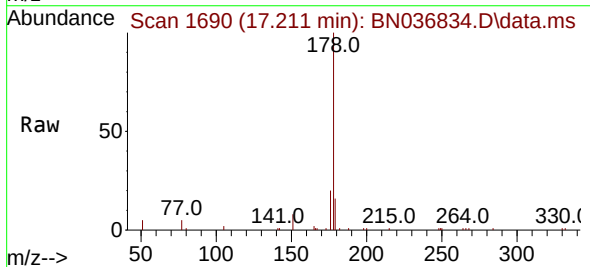
Instrument :
BNA_N
ClientSampleId :
MW-18B-56-040225MS

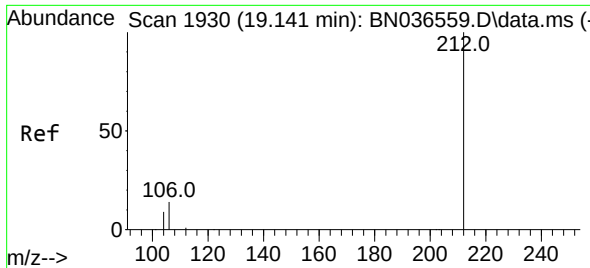
Tgt Ion:178 Resp: 12318
Ion Ratio Lower Upper
178 100
176 19.8 15.9 23.9
179 15.4 12.2 18.4



#26
Anthracene
Concen: 0.489 ng
RT: 17.211 min Scan# 1690
Delta R.T. -0.037 min
Lab File: BN036834.D
Acq: 03 Apr 2025 22:03

Tgt Ion:178 Resp: 9554
Ion Ratio Lower Upper
178 100
176 19.2 15.4 23.2
179 15.5 12.6 18.8

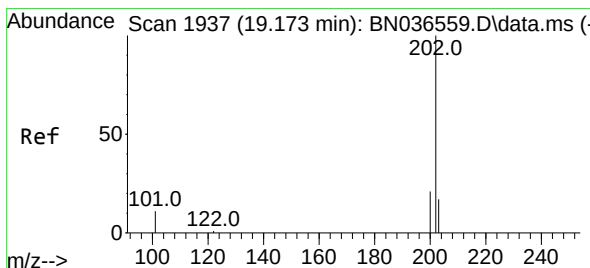
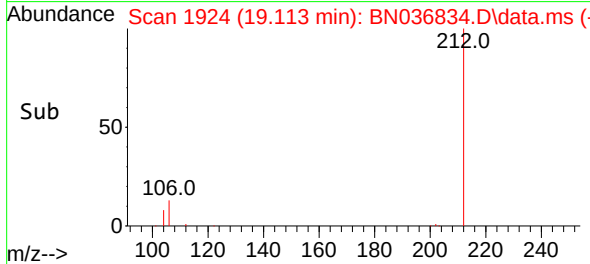
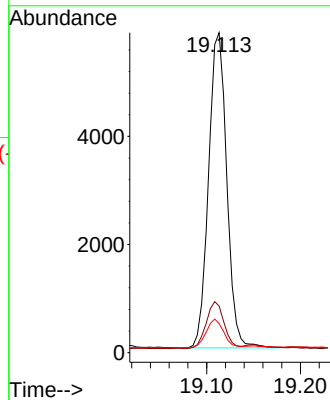
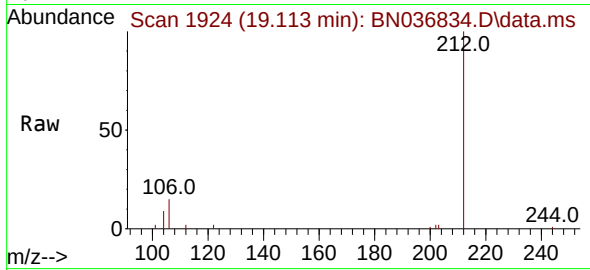




#27
Fluoranthene-d10
Concen: 0.424 ng
RT: 19.113 min Scan# 1913
Delta R.T. -0.028 min
Lab File: BN036834.D
Acq: 03 Apr 2025 22:03

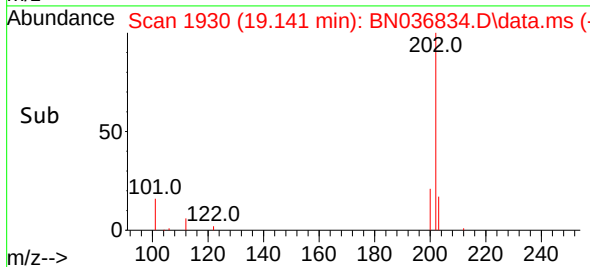
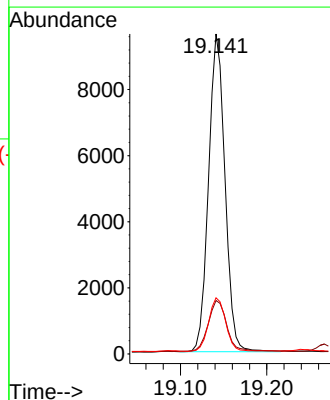
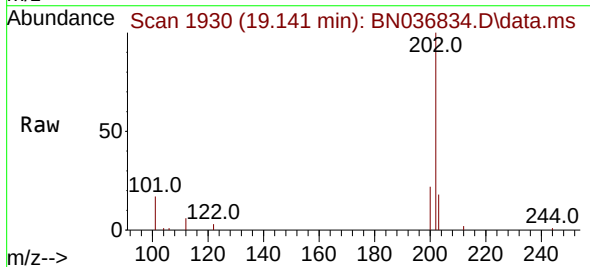
Instrument :
BNA_N
ClientSampleId :
MW-18B-56-040225MS

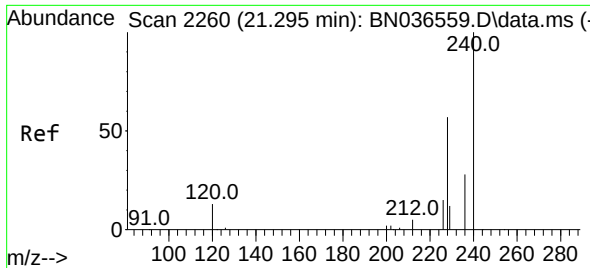
Tgt Ion	Ratio	Lower	Upper
212	100		
106	14.7	11.8	17.6
104	8.9	7.3	10.9



#28
Fluoranthene
Concen: 0.524 ng
RT: 19.141 min Scan# 1930
Delta R.T. -0.032 min
Lab File: BN036834.D
Acq: 03 Apr 2025 22:03

Tgt Ion	Ratio	Lower	Upper
202	100		
101	18.4	9.4	14.0#
203	17.4	13.5	20.3

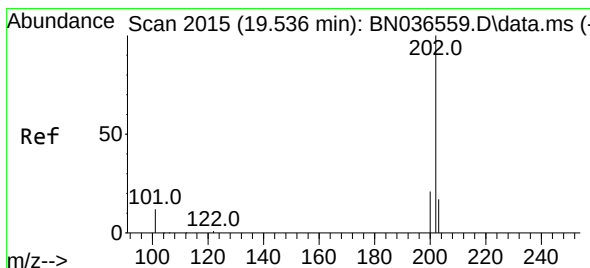
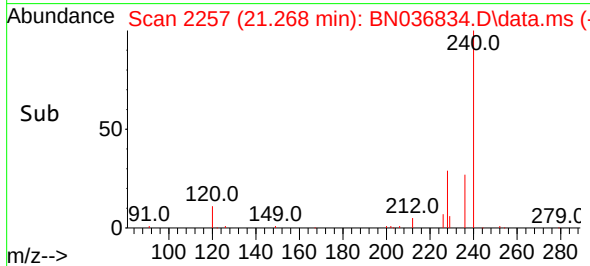
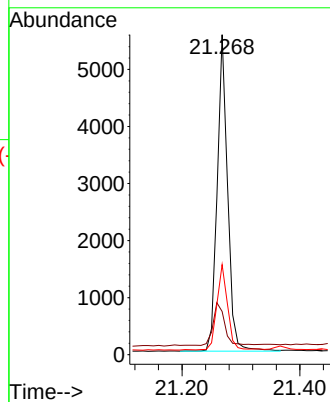
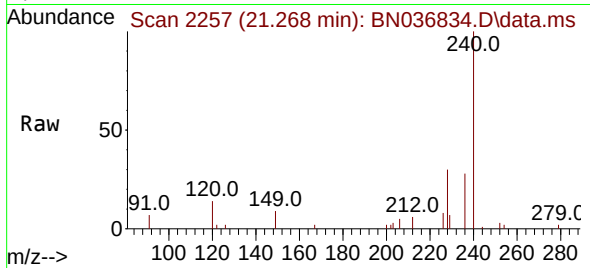




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.268 min Scan# 21
Delta R.T. -0.027 min
Lab File: BN036834.D
Acq: 03 Apr 2025 22:03

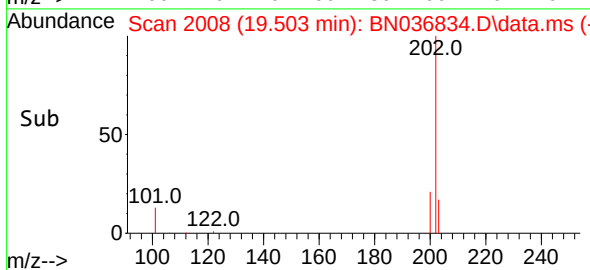
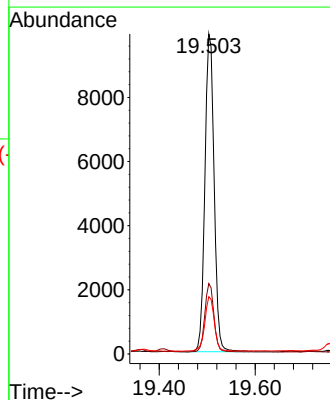
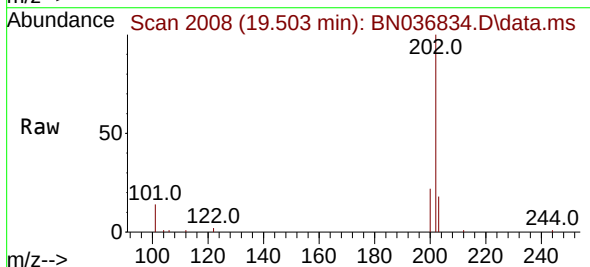
Instrument :
BNA_N
ClientSampleId :
MW-18B-56-040225MS

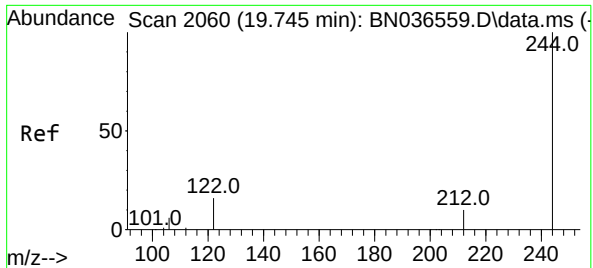
Tgt Ion:240 Resp: 6803
Ion Ratio Lower Upper
240 100
120 13.5 14.6 22.0#
236 28.1 24.1 36.1



#30
Pyrene
Concen: 0.398 ng
RT: 19.503 min Scan# 2008
Delta R.T. -0.032 min
Lab File: BN036834.D
Acq: 03 Apr 2025 22:03

Tgt Ion:202 Resp: 13231
Ion Ratio Lower Upper
202 100
200 21.2 17.1 25.7
203 17.7 14.1 21.1

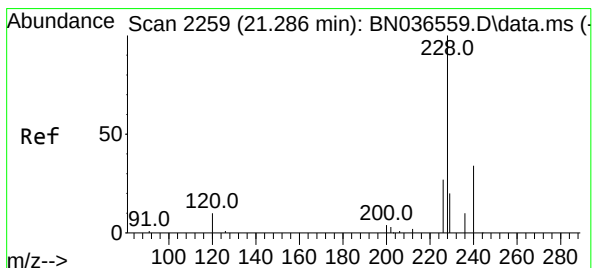
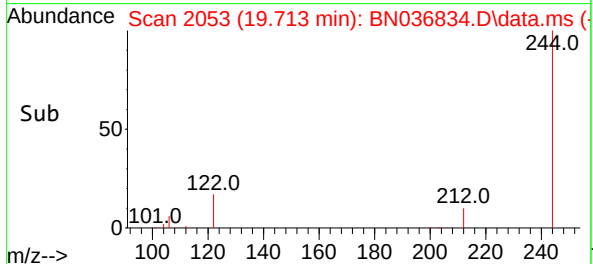
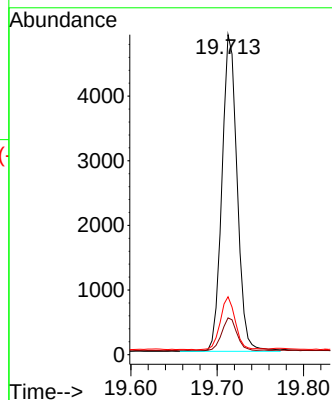
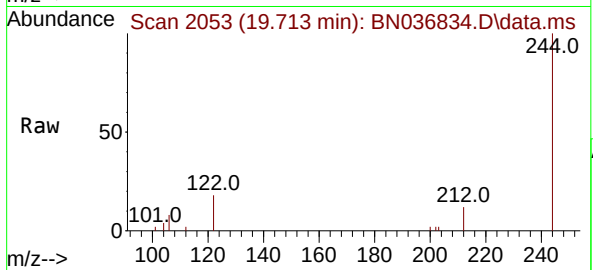




#31
Terphenyl-d14
Concen: 0.369 ng
RT: 19.713 min Scan# 2053
Delta R.T. -0.032 min
Lab File: BN036834.D
Acq: 03 Apr 2025 22:03

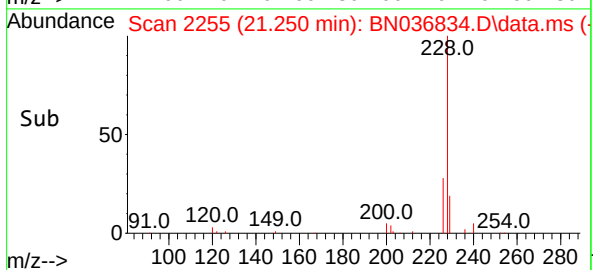
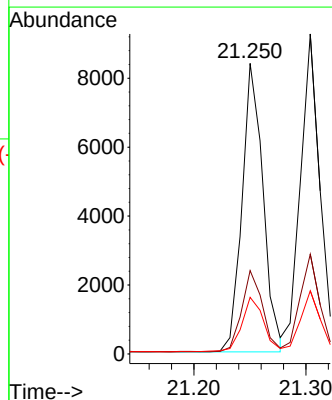
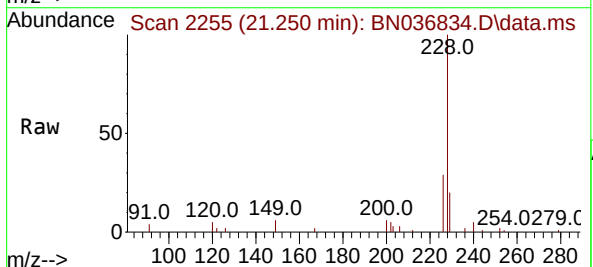
Instrument :
BNA_N
ClientSampleId :
MW-18B-56-040225MS

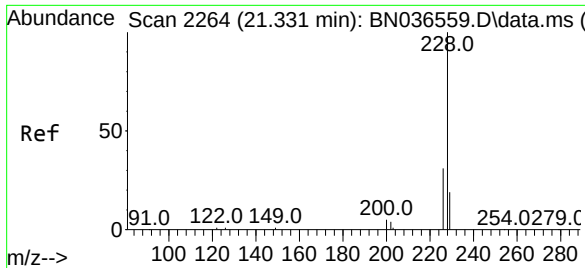
Tgt Ion:244 Resp: 6012
Ion Ratio Lower Upper
244 100
212 11.5 9.6 14.4
122 18.1 13.9 20.9



#32
Benzo(a)anthracene
Concen: 0.461 ng
RT: 21.250 min Scan# 2255
Delta R.T. -0.036 min
Lab File: BN036834.D
Acq: 03 Apr 2025 22:03

Tgt Ion:228 Resp: 10909
Ion Ratio Lower Upper
228 100
226 28.7 22.5 33.7
229 19.5 16.6 25.0





#33

Chrysene

Concen: 0.447 ng

RT: 21.304 min Scan# 21

Delta R.T. -0.027 min

Lab File: BN036834.D

Acq: 03 Apr 2025 22:03

Instrument :

BNA_N

ClientSampleId :

MW-18B-56-040225MS

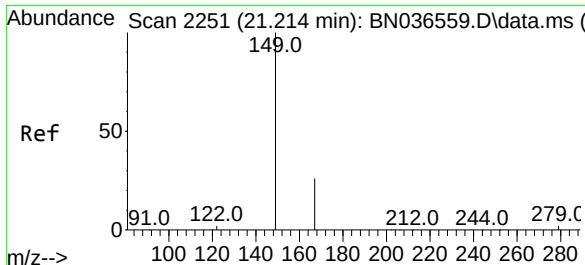
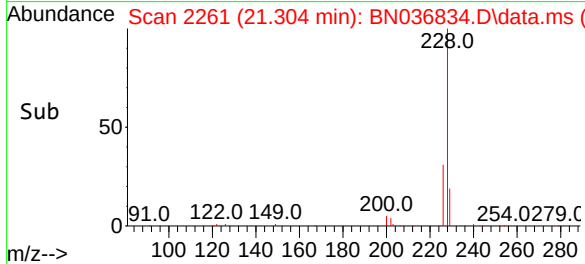
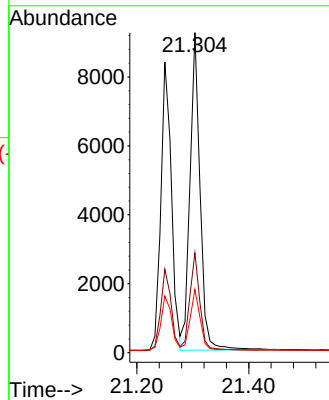
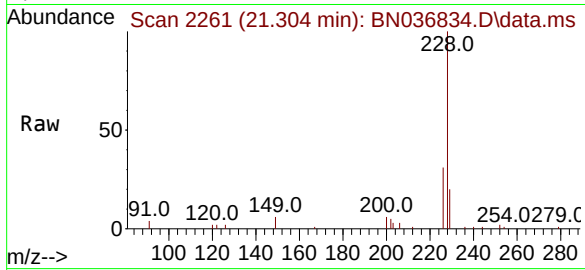
Tgt Ion:228 Resp: 11562

Ion Ratio Lower Upper

228 100

226 31.2 25.3 37.9

229 19.8 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.419 ng

RT: 21.187 min Scan# 2248

Delta R.T. -0.027 min

Lab File: BN036834.D

Acq: 03 Apr 2025 22:03

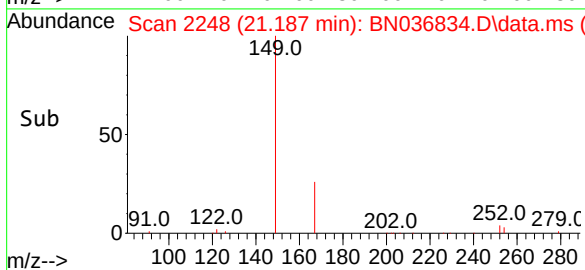
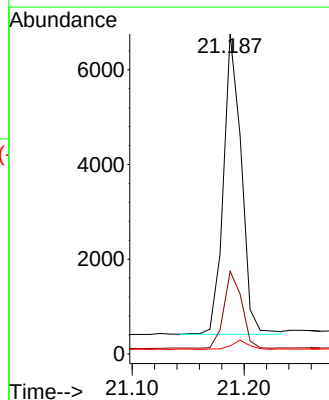
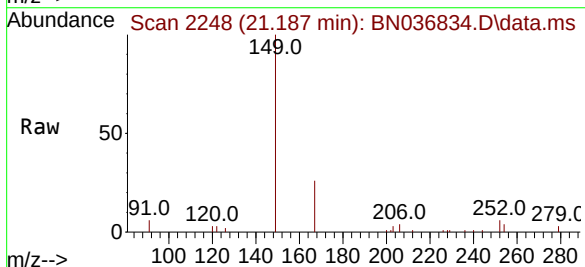
Tgt Ion:149 Resp: 7055

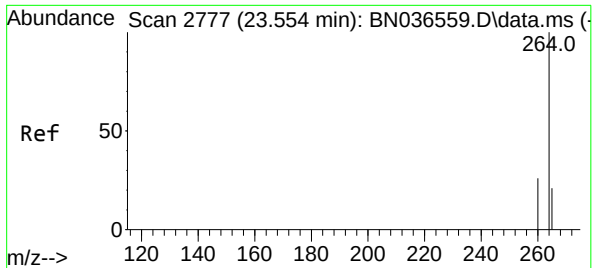
Ion Ratio Lower Upper

149 100

167 25.3 20.7 31.1

279 2.9 3.6 5.4#

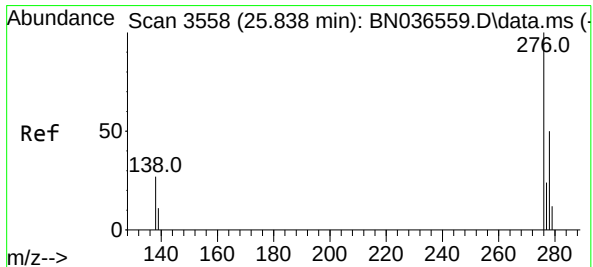
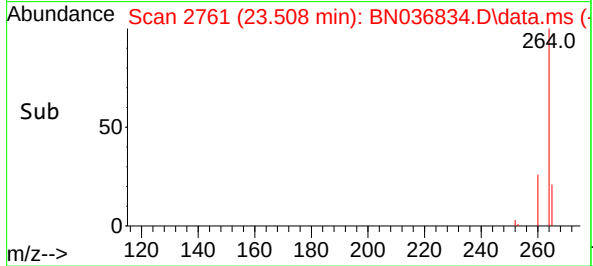
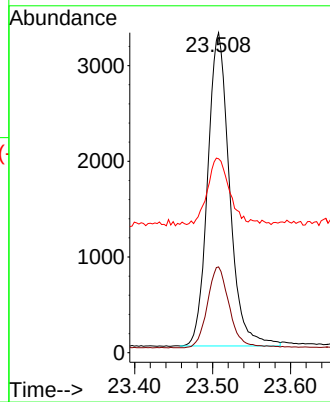
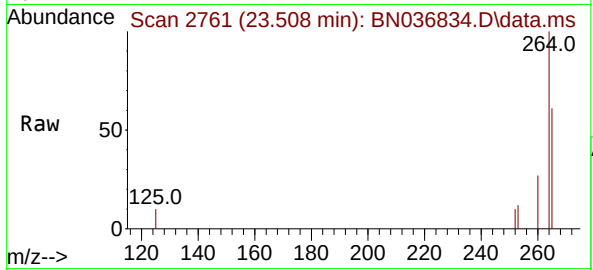




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.508 min Scan# 21
Delta R.T. -0.047 min
Lab File: BN036834.D
Acq: 03 Apr 2025 22:03

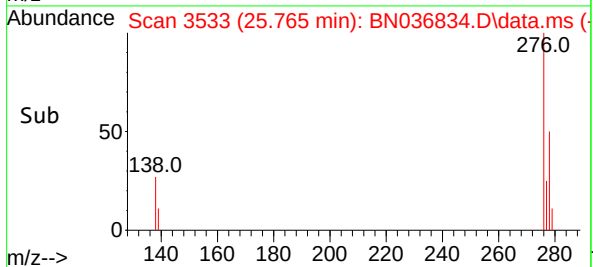
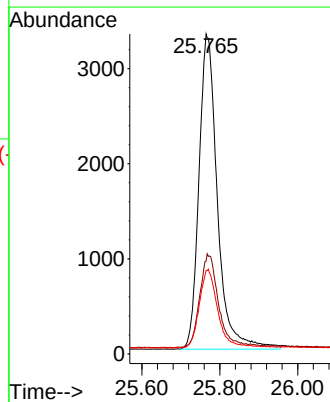
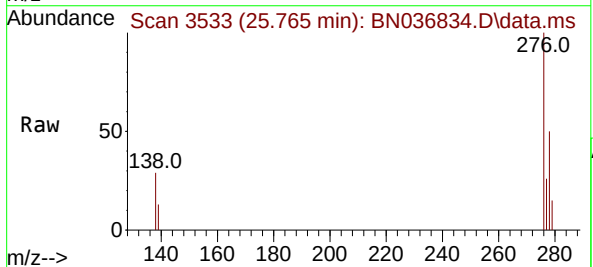
Instrument :
BNA_N
ClientSampleId :
MW-18B-56-040225MS

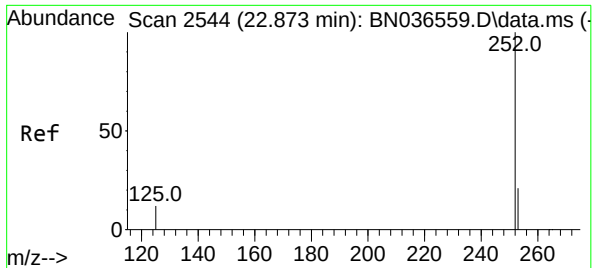
Tgt Ion:264 Resp: 6381
Ion Ratio Lower Upper
264 100
260 26.8 22.6 33.8
265 60.6 88.1 132.1#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.473 ng
RT: 25.765 min Scan# 3533
Delta R.T. -0.073 min
Lab File: BN036834.D
Acq: 03 Apr 2025 22:03

Tgt Ion:276 Resp: 10894
Ion Ratio Lower Upper
276 100
138 29.5 23.4 35.2
277 24.5 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.456 ng

RT: 22.835 min Scan# 21

Delta R.T. -0.038 min

Lab File: BN036834.D

Acq: 03 Apr 2025 22:03

Instrument :

BNA_N

ClientSampleId :

MW-18B-56-040225MS

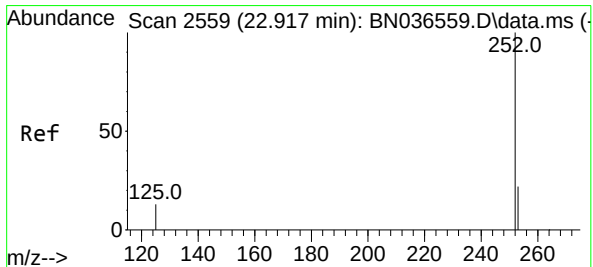
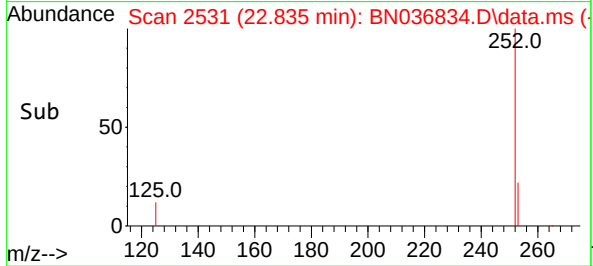
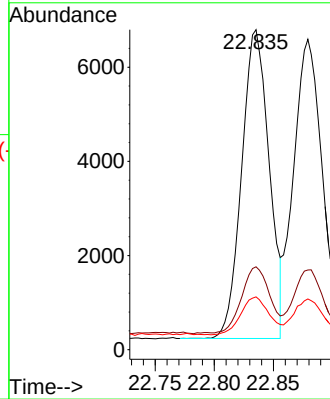
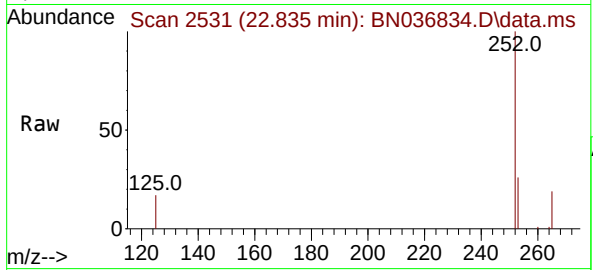
Tgt Ion:252 Resp: 10597

Ion Ratio Lower Upper

252 100

253 25.9 23.9 35.9

125 16.5 17.4 26.2#



#38

Benzo(k)fluoranthene

Concen: 0.451 ng

RT: 22.879 min Scan# 2546

Delta R.T. -0.038 min

Lab File: BN036834.D

Acq: 03 Apr 2025 22:03

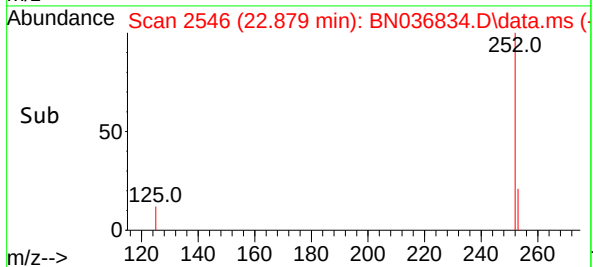
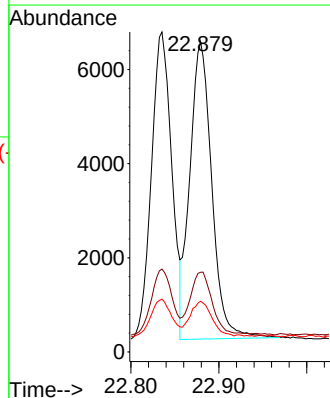
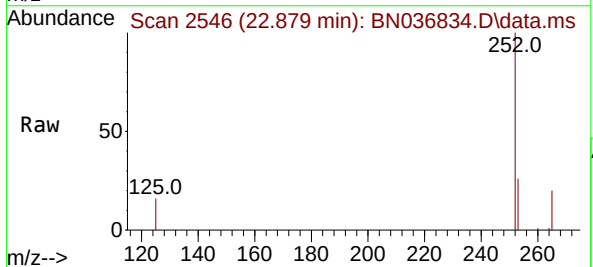
Tgt Ion:252 Resp: 10984

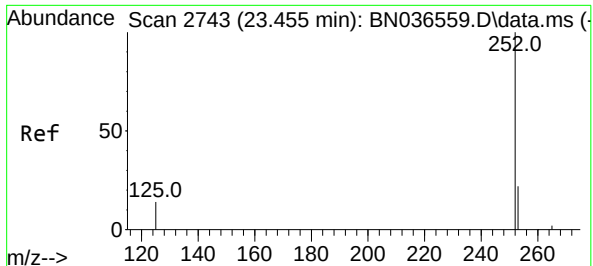
Ion Ratio Lower Upper

252 100

253 25.7 24.6 36.8

125 16.3 17.8 26.8#





#39

Benzo(a)pyrene

Concen: 0.489 ng

RT: 23.408 min Scan# 21

Delta R.T. -0.047 min

Lab File: BN036834.D

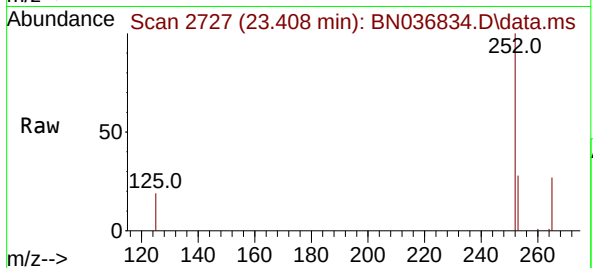
Acq: 03 Apr 2025 22:03

Instrument :

BNA_N

ClientSampleId :

MW-18B-56-040225MS



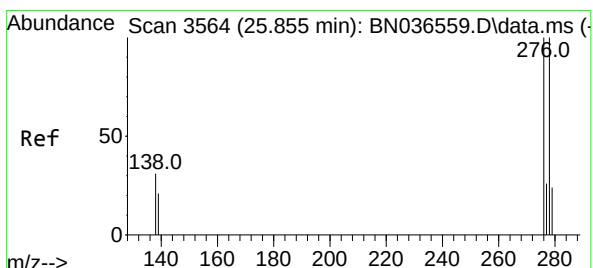
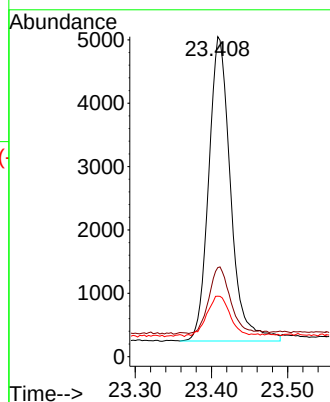
Tgt Ion:252 Resp: 9561

Ion Ratio Lower Upper

252 100

253 27.8 27.8 41.8#

125 18.9 22.7 34.1#



#40

Dibenzo(a,h)anthracene

Concen: 0.461 ng

RT: 25.785 min Scan# 3540

Delta R.T. -0.070 min

Lab File: BN036834.D

Acq: 03 Apr 2025 22:03

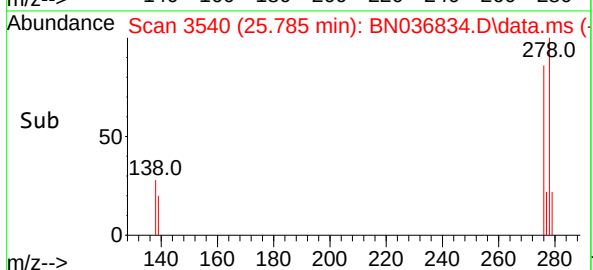
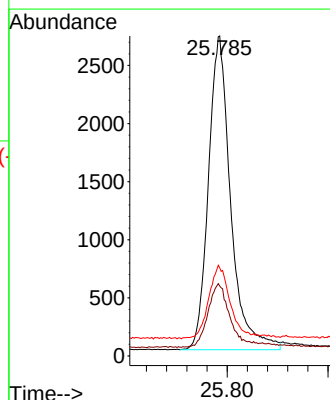
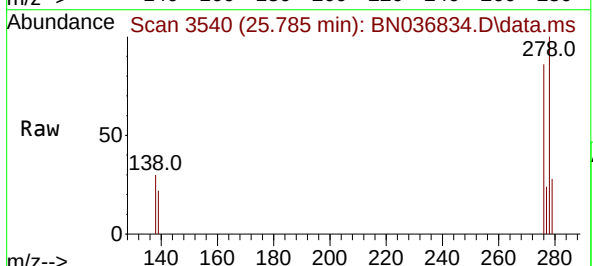
Tgt Ion:278 Resp: 8260

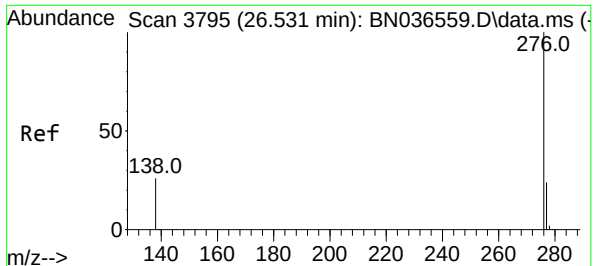
Ion Ratio Lower Upper

278 100

139 21.8 20.8 31.2

279 27.5 28.8 43.2#





#41

Benzo(g,h,i)perylene

Concen: 0.418 ng

RT: 26.458 min Scan# 31

Delta R.T. -0.073 min

Lab File: BN036834.D

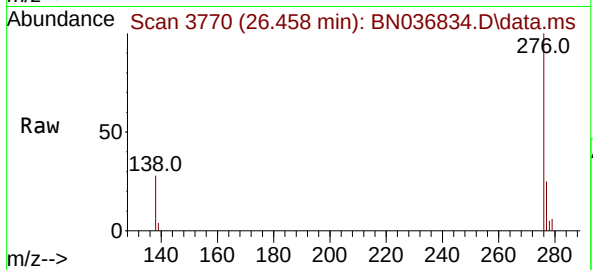
Acq: 03 Apr 2025 22:03

Instrument :

BNA_N

ClientSampleId :

MW-18B-56-040225MS



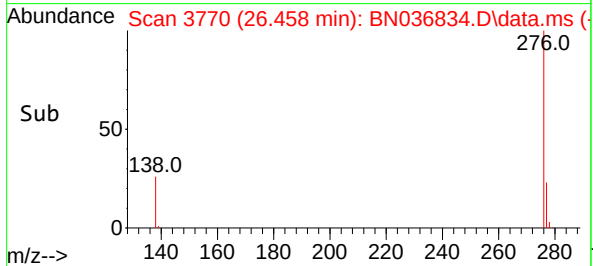
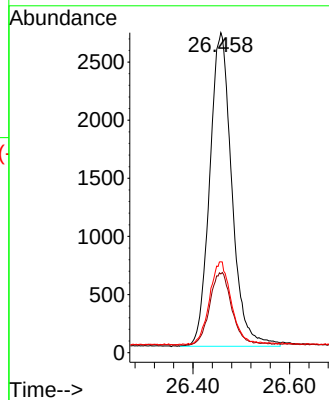
Tgt Ion:276 Resp: 8573

Ion	Ratio	Lower	Upper
-----	-------	-------	-------

276	100		
-----	-----	--	--

277	24.6	22.2	33.4
-----	------	------	------

138	28.4	24.1	36.1
-----	------	------	------



Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	04/02/25
Project:	Former Schlumberger STC PTC Site # D3868221	Date Received:	04/02/25
Client Sample ID:	MW-18B-56-040225MSD	SDG No.:	Q1711
Lab Sample ID:	Q1711-03MSD	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
BN036835.D	1	04/03/25 13:10	04/03/25 22:39	PB167450

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
123-91-1	1,4-Dioxane	3.70		0.070	0.20	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.36		30 (20) - 150 (139)	89%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.43		30 (30) - 150 (150)	108%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		30 (27) - 130 (154)	80%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		30 (25) - 130 (149)	94%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.39		30 (54) - 130 (175)	97%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	2360	7.696			
1146-65-2	Naphthalene-d8	6290	10.477			
15067-26-2	Acenaphthene-d10	3710	14.334			
1517-22-2	Phenanthrene-d10	7810	17.074			
1719-03-5	Chrysene-d12	7230	21.268			
1520-96-3	Perylene-d12	6860	23.508			

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\BN040325\
 Data File : BN036835.D
 Acq On : 03 Apr 2025 22:39
 Operator : RC/JU
 Sample : Q1711-03MSD
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 MW-18B-56-040225MSD

Quant Time: Apr 04 00:58:08 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 16:06:28 2025
 Response via : Initial Calibration

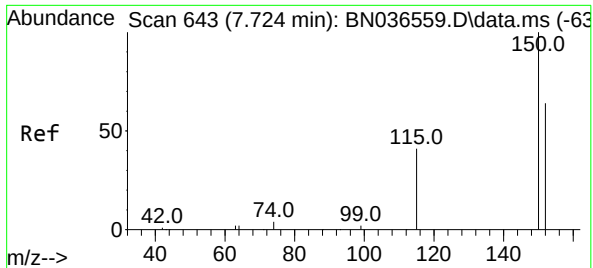
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.696	152	2362	0.400	ng	-0.03
7) Naphthalene-d8	10.477	136	6289	0.400	ng	#-0.03
13) Acenaphthene-d10	14.334	164	3711	0.400	ng	-0.03
19) Phenanthrene-d10	17.074	188	7810	0.400	ng	#-0.04
29) Chrysene-d12	21.268	240	7230	0.400	ng	#-0.03
35) Perylene-d12	23.508	264	6858	0.400	ng	#-0.05
System Monitoring Compounds						
4) 2-Fluorophenol	5.291	112	876	0.159	ng	-0.02
5) Phenol-d6	6.865	99	743	0.109	ng	-0.04
8) Nitrobenzene-d5	8.843	82	2180	0.319	ng	-0.03
11) 2-Methylnaphthalene-d10	12.070	152	3325	0.355	ng	-0.04
14) 2,4,6-Tribromophenol	15.820	330	649	0.385	ng	-0.04
15) 2-Fluorobiphenyl	12.953	172	8075	0.374	ng	-0.04
27) Fluoranthene-d10	19.113	212	8605	0.430	ng	-0.03
31) Terphenyl-d14	19.712	244	6741	0.389	ng	-0.03
Target Compounds						
2) 1,4-Dioxane	3.218	88	9380	3.580	ng	# 85
3) n-Nitrosodimethylamine	3.536	42	993	0.187	ng	# 82
6) bis(2-Chloroethyl)ether	7.118	93	2840	0.404	ng	99
9) Naphthalene	10.520	128	8584	0.464	ng	99
10) Hexachlorobutadiene	10.818	225	1366	0.314	ng	# 96
12) 2-Methylnaphthalene	12.141	142	4931	0.419	ng	99
16) Acenaphthylene	14.045	152	7290	0.416	ng	99
17) Acenaphthene	14.398	154	5544	0.484	ng	99
18) Fluorene	15.382	166	6801	0.439	ng	99
20) 4,6-Dinitro-2-methylph...	15.467	198	385	0.339	ng	88
21) 4-Bromophenyl-phenylether	16.280	248	2052	0.419	ng	# 74
22) Hexachlorobenzene	16.391	284	2205	0.373	ng	97
23) Atrazine	16.553	200	1983	0.505	ng	# 91
24) Pentachlorophenol	16.739	266	1402	0.520	ng	98
25) Phenanthrene	17.111	178	13424	0.573	ng	100
26) Anthracene	17.211	178	10457	0.495	ng	99
28) Fluoranthene	19.141	202	13948	0.530	ng	# 92
30) Pyrene	19.503	202	14444	0.409	ng	100
32) Benzo(a)anthracene	21.250	228	11959	0.476	ng	99
33) Chrysene	21.304	228	12508	0.455	ng	99
34) Bis(2-ethylhexyl)phtha...	21.187	149	7549	0.422	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.765	276	11711	0.473	ng	99
37) Benzo(b)fluoranthene	22.835	252	11523	0.462	ng	# 91
38) Benzo(k)fluoranthene	22.879	252	11855	0.453	ng	# 90
39) Benzo(a)pyrene	23.408	252	10379	0.494	ng	# 86
40) Dibenzo(a,h)anthracene	25.779	278	8832	0.458	ng	# 89
41) Benzo(g,h,i)perylene	26.455	276	9182	0.417	ng	96

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

Instrument :
BNA_N
ClientSampleId :
MW-18B-56-040225MSD

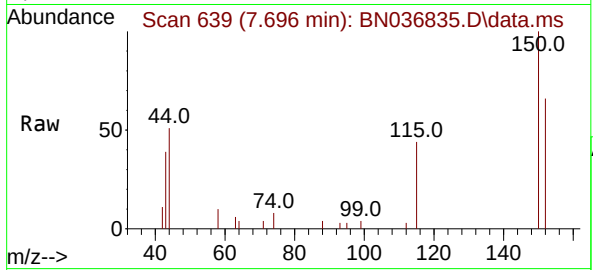
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17



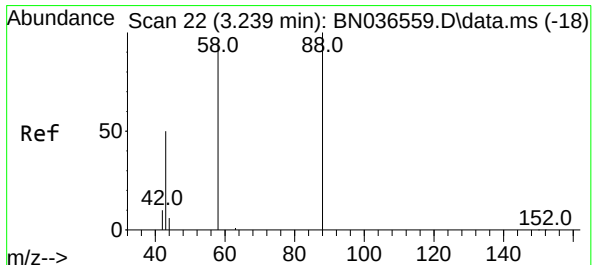
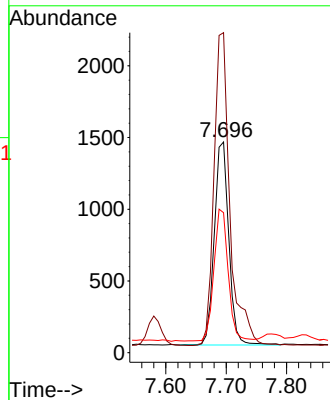
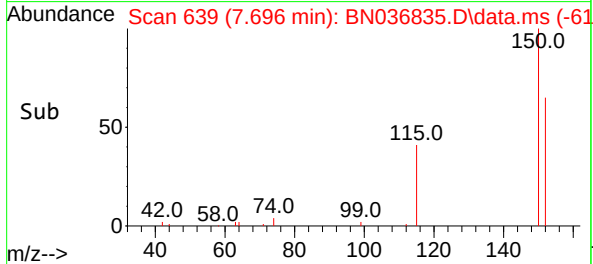


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.696 min Scan# 61
Delta R.T. -0.028 min
Lab File: BN036835.D
Acq: 03 Apr 2025 22:39

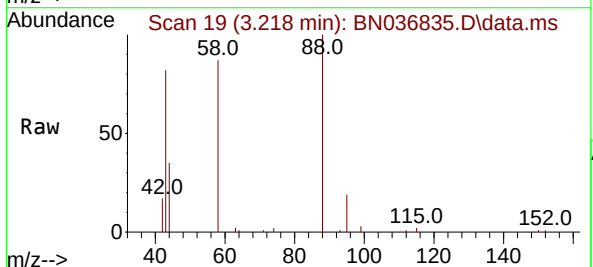
Instrument :
BNA_N
ClientSampleId :
MW-18B-56-040225MSD



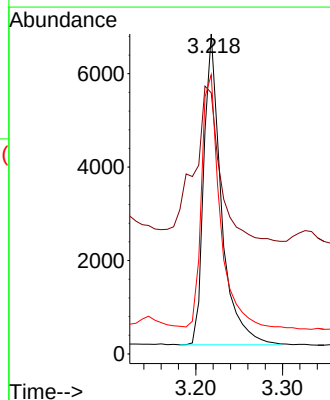
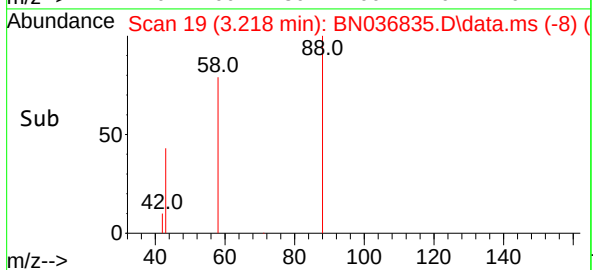
Tgt Ion:152 Resp: 2362
Ion Ratio Lower Upper
152 100
150 151.9 123.7 185.5
115 66.4 54.3 81.5

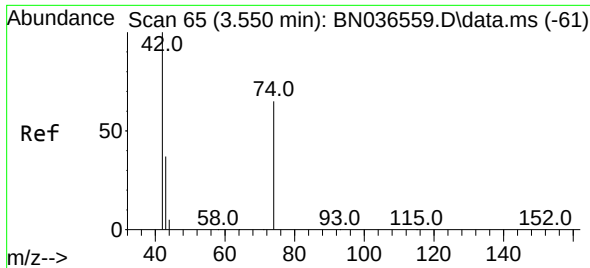


#2
1,4-Dioxane
Concen: 3.580 ng
RT: 3.218 min Scan# 19
Delta R.T. -0.021 min
Lab File: BN036835.D
Acq: 03 Apr 2025 22:39



Tgt Ion: 88 Resp: 9380
Ion Ratio Lower Upper
88 100
43 75.3 37.8 56.8#
58 84.6 67.4 101.2

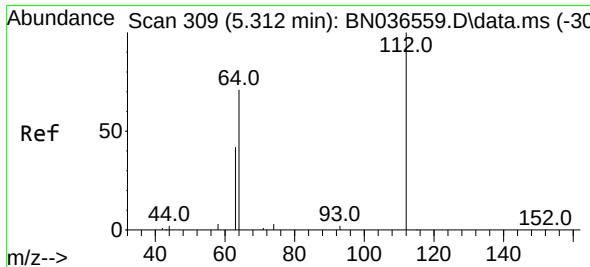
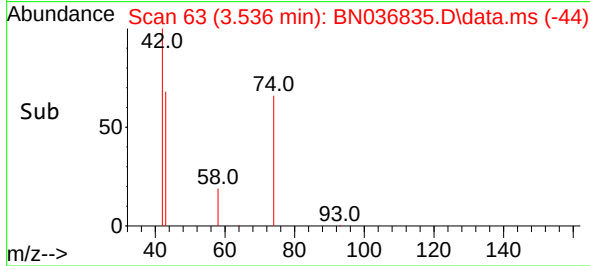
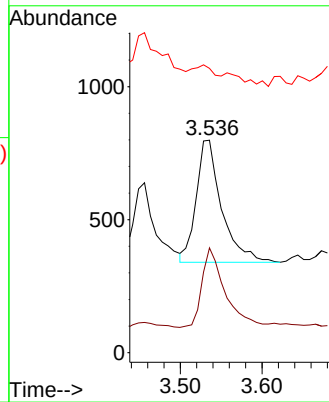
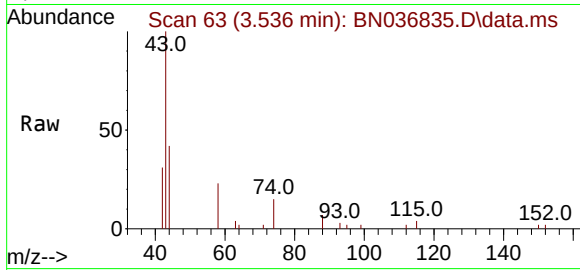




#3
n-Nitrosodimethylamine
Concen: 0.187 ng
RT: 3.536 min Scan# 61
Delta R.T. -0.014 min
Lab File: BN036835.D
Acq: 03 Apr 2025 22:39

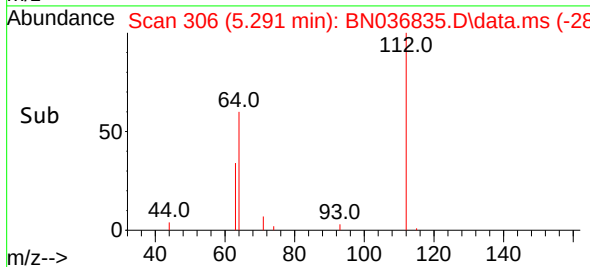
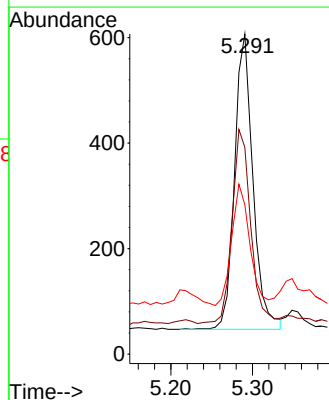
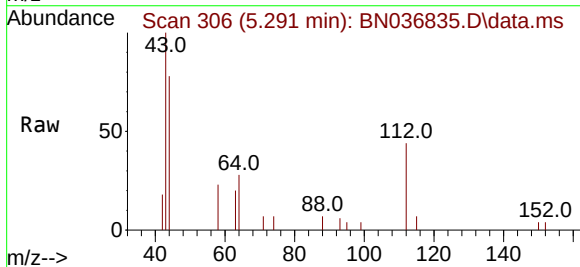
Instrument :
BNA_N
ClientSampleId :
MW-18B-56-040225MSD

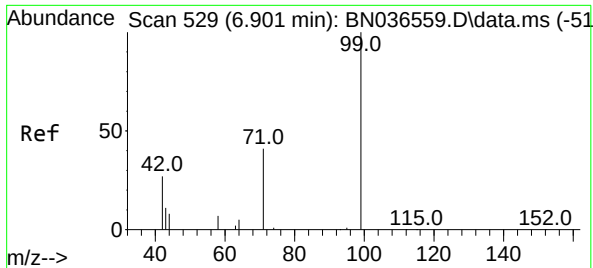
Tgt Ion: 42 Resp: 993
Ion Ratio Lower Upper
42 100
74 59.6 60.6 90.8#
44 4.6 6.3 9.5#



#4
2-Fluorophenol
Concen: 0.159 ng
RT: 5.291 min Scan# 306
Delta R.T. -0.022 min
Lab File: BN036835.D
Acq: 03 Apr 2025 22:39

Tgt Ion: 112 Resp: 876
Ion Ratio Lower Upper
112 100
64 66.0 53.1 79.7
63 40.2 31.8 47.8

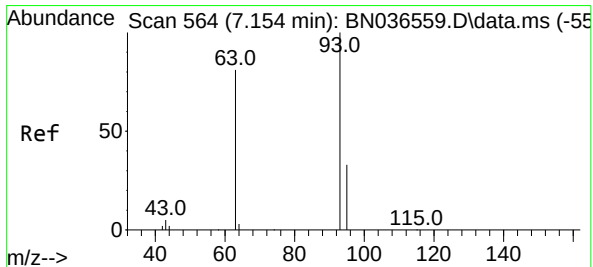
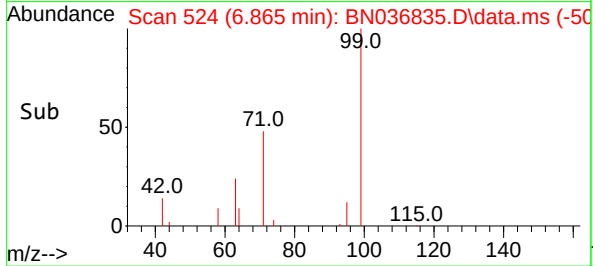
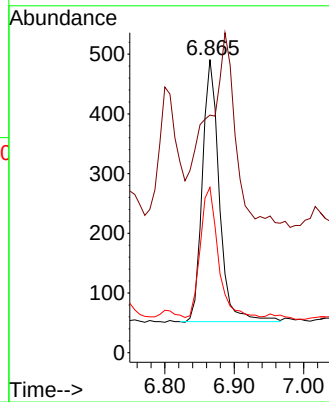
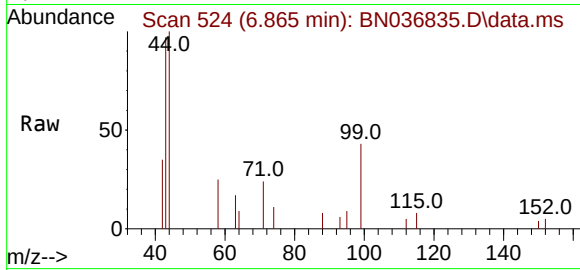




#5
Phenol-d6
Concen: 0.109 ng
RT: 6.865 min Scan# 51
Delta R.T. -0.036 min
Lab File: BN036835.D
Acq: 03 Apr 2025 22:39

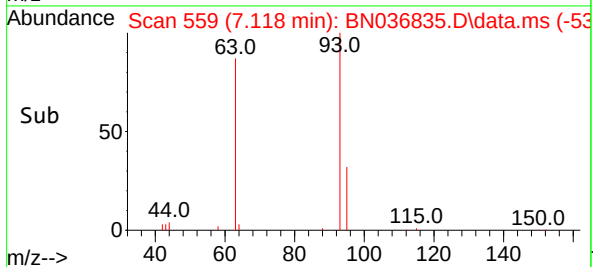
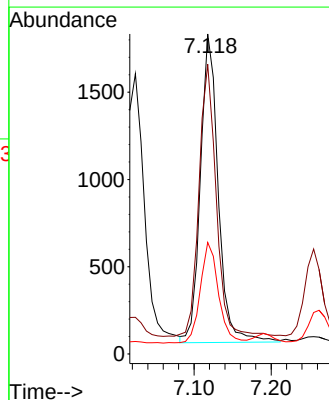
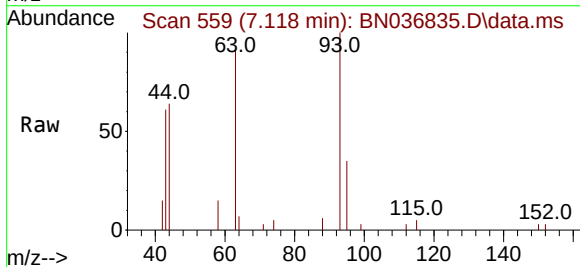
Instrument :
BNA_N
ClientSampleId :
MW-18B-56-040225MSD

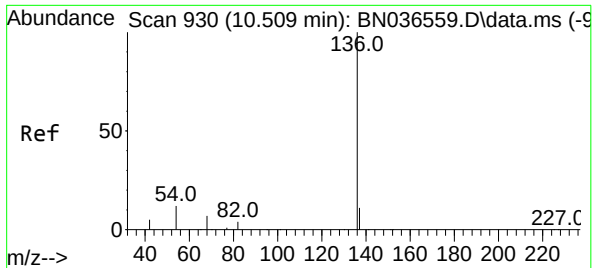
Tgt Ion: 99 Resp: 743
Ion Ratio Lower Upper
99 100
42 0.0 26.5 39.7#
71 53.6 34.1 51.1#



#6
bis(2-Chloroethyl)ether
Concen: 0.404 ng
RT: 7.118 min Scan# 559
Delta R.T. -0.036 min
Lab File: BN036835.D
Acq: 03 Apr 2025 22:39

Tgt Ion: 93 Resp: 2840
Ion Ratio Lower Upper
93 100
63 85.2 67.7 101.5
95 33.5 25.6 38.4

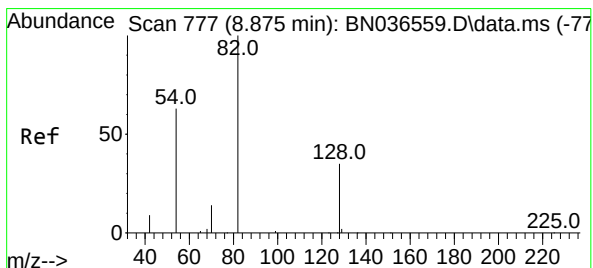
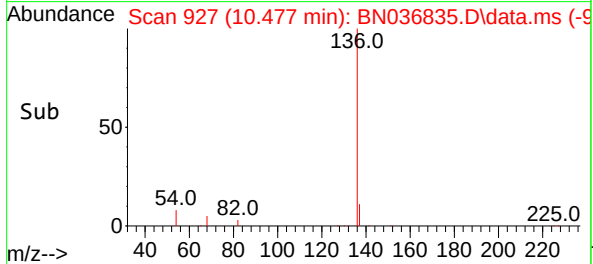
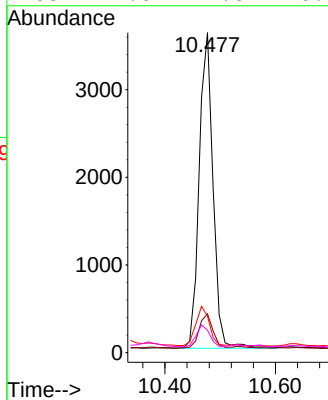
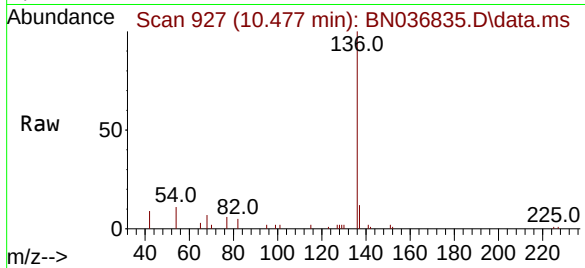




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.477 min Scan# 91
Delta R.T. -0.032 min
Lab File: BN036835.D
Acq: 03 Apr 2025 22:39

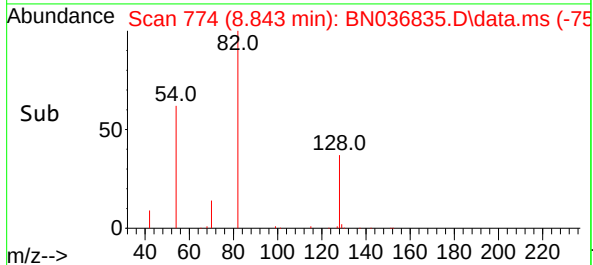
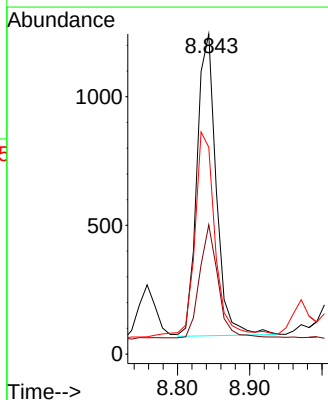
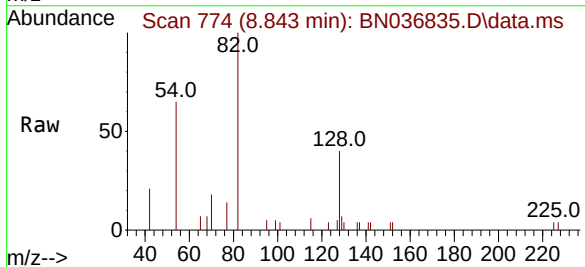
Instrument :
BNA_N
ClientSampleId :
MW-18B-56-040225MSD

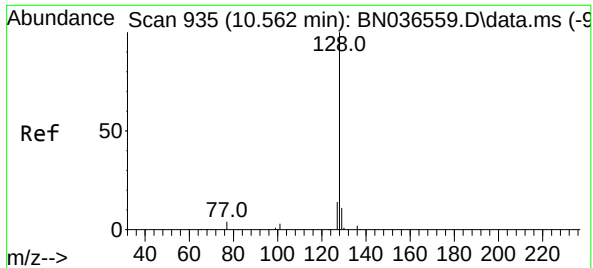
Tgt Ion:	136	Resp:	6289
Ion	Ratio	Lower	Upper
136	100		
137	12.1	10.3	15.5
54	11.3	11.5	17.3#
68	7.0	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.319 ng
RT: 8.843 min Scan# 774
Delta R.T. -0.032 min
Lab File: BN036835.D
Acq: 03 Apr 2025 22:39

Tgt Ion:	82	Resp:	2180
Ion	Ratio	Lower	Upper
82	100		
128	40.4	30.6	45.8
54	64.6	52.2	78.4

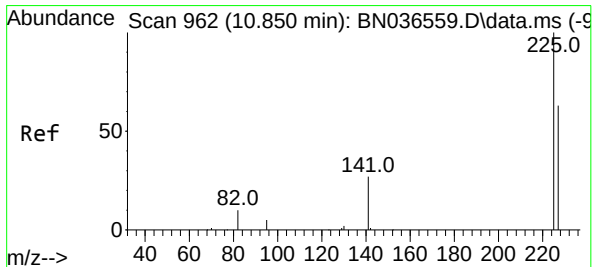
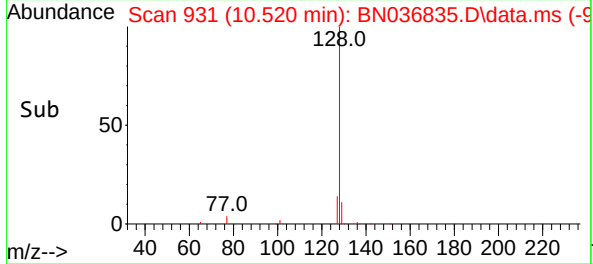
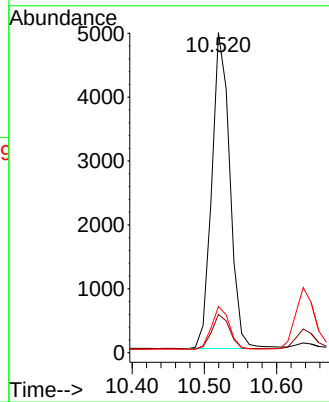
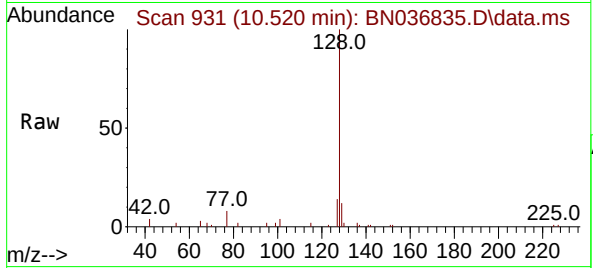




#9
Naphthalene
Concen: 0.464 ng
RT: 10.520 min Scan# 911
Delta R.T. -0.043 min
Lab File: BN036835.D
Acq: 03 Apr 2025 22:39

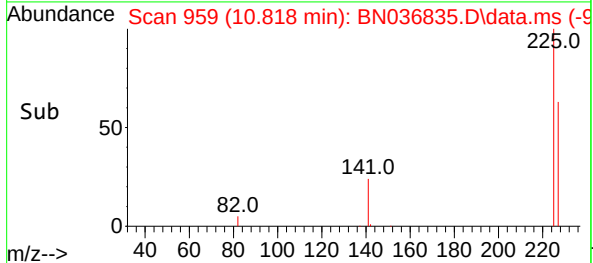
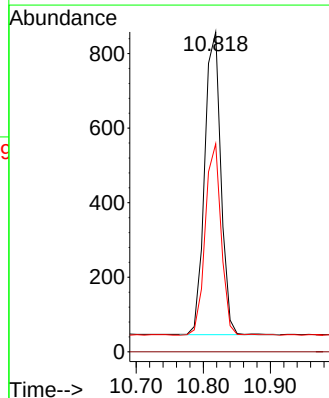
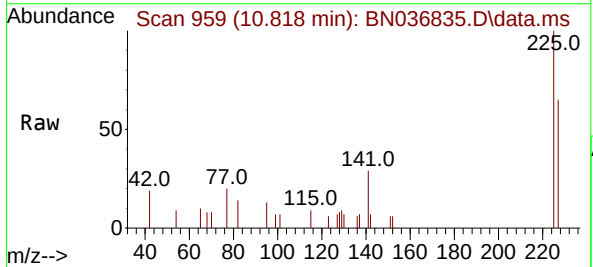
Instrument :
BNA_N
ClientSampleId :
MW-18B-56-040225MSD

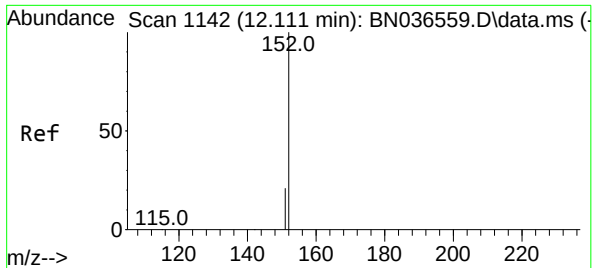
Tgt Ion:	128	Resp:	8584
Ion	Ratio	Lower	Upper
128	100		
129	12.0	9.8	14.6
127	14.4	11.8	17.8



#10
Hexachlorobutadiene
Concen: 0.314 ng
RT: 10.818 min Scan# 959
Delta R.T. -0.032 min
Lab File: BN036835.D
Acq: 03 Apr 2025 22:39

Tgt Ion:	225	Resp:	1366
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	61.9	51.8	77.8

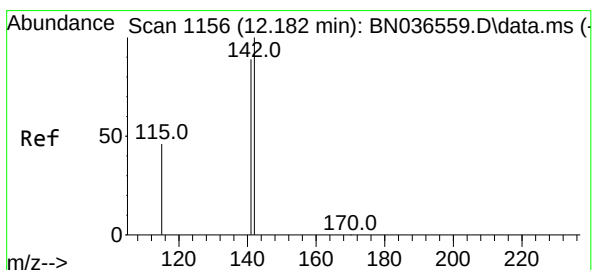
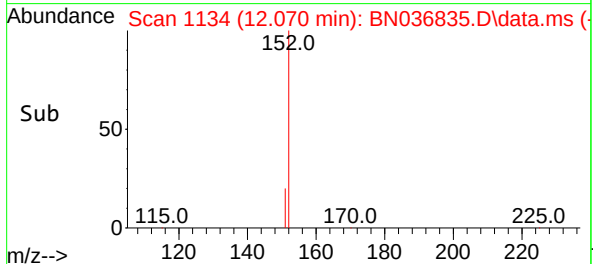
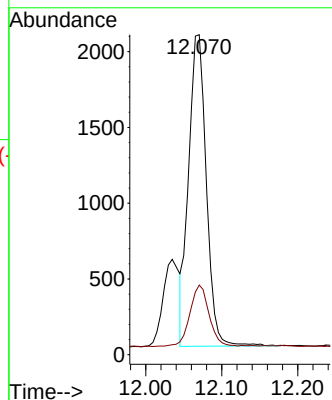
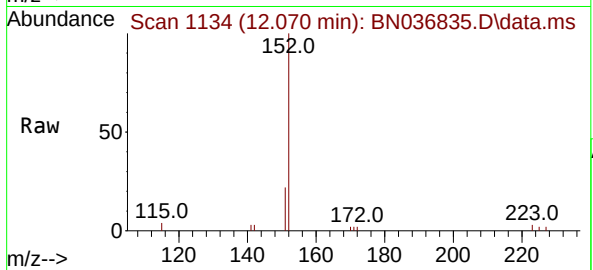




#11
2-Methylnaphthalene-d10
Concen: 0.355 ng
RT: 12.070 min Scan# 1142
Delta R.T. -0.040 min
Lab File: BN036835.D
Acq: 03 Apr 2025 22:39

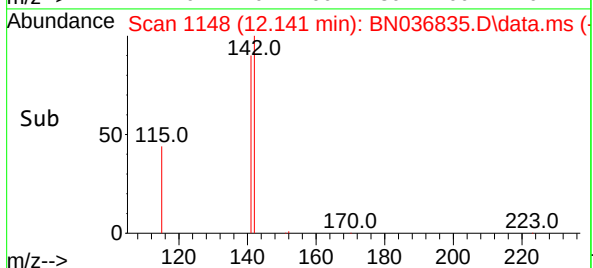
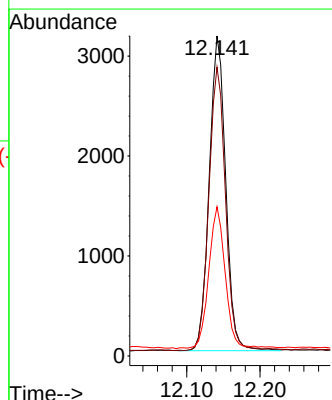
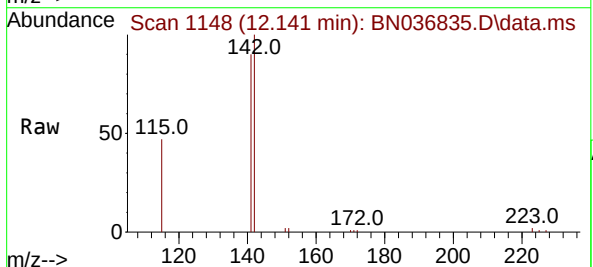
Instrument :
BNA_N
ClientSampleId :
MW-18B-56-040225MSD

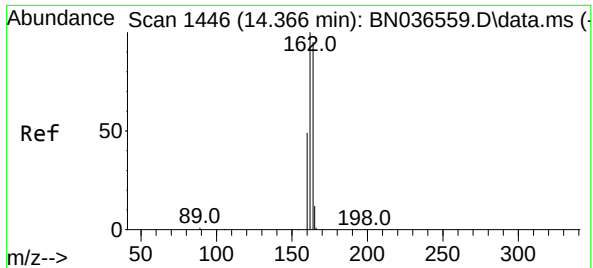
Tgt Ion:152 Resp: 3325
Ion Ratio Lower Upper
152 100
151 21.5 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.419 ng
RT: 12.141 min Scan# 1148
Delta R.T. -0.040 min
Lab File: BN036835.D
Acq: 03 Apr 2025 22:39

Tgt Ion:142 Resp: 4931
Ion Ratio Lower Upper
142 100
141 90.3 71.7 107.5
115 46.6 38.3 57.5

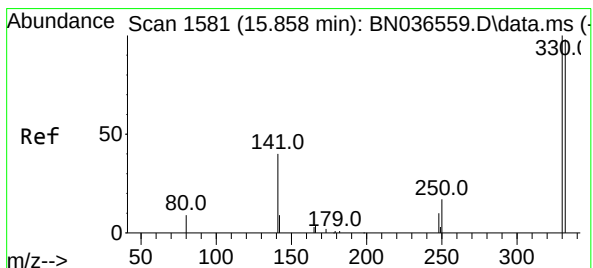
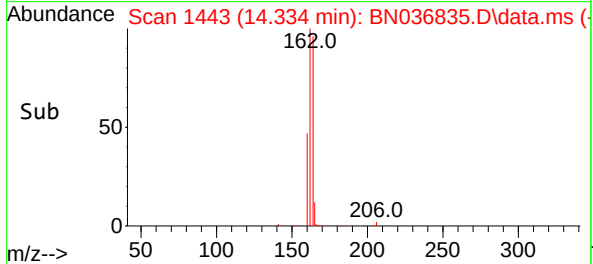
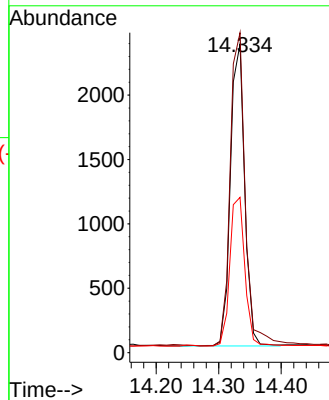
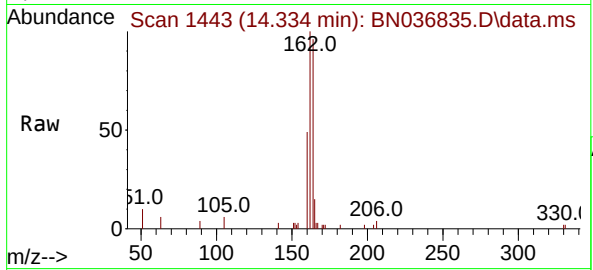




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 1443
Delta R.T. -0.032 min
Lab File: BN036835.D
Acq: 03 Apr 2025 22:39

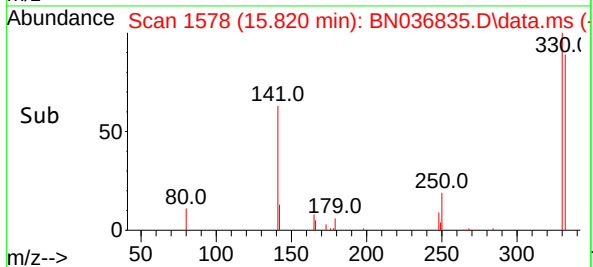
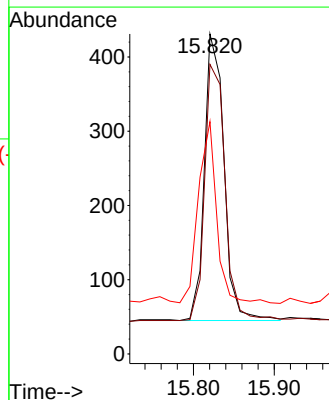
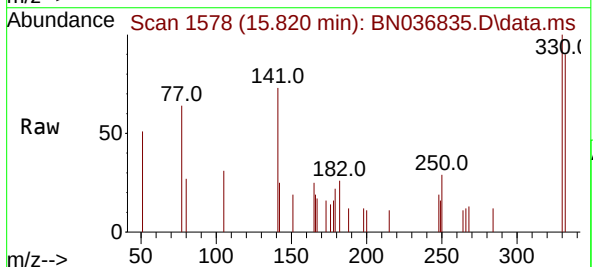
Instrument :
BNA_N
ClientSampleId :
MW-18B-56-040225MSD

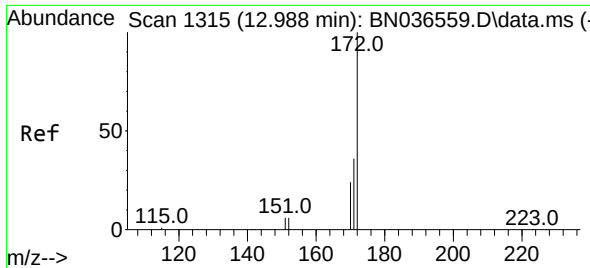
Tgt Ion:164 Resp: 3711
Ion Ratio Lower Upper
164 100
162 103.6 84.2 126.2
160 50.3 42.2 63.2



#14
2,4,6-Tribromophenol
Concen: 0.385 ng
RT: 15.820 min Scan# 1578
Delta R.T. -0.037 min
Lab File: BN036835.D
Acq: 03 Apr 2025 22:39

Tgt Ion:330 Resp: 649
Ion Ratio Lower Upper
330 100
332 94.0 75.2 112.8
141 59.6 43.4 65.2

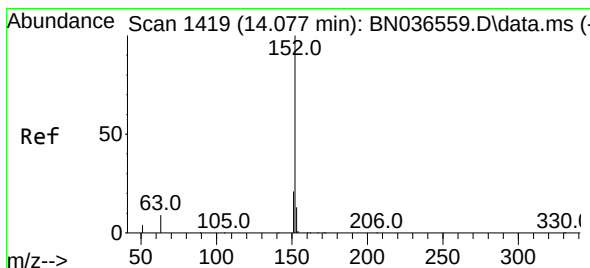
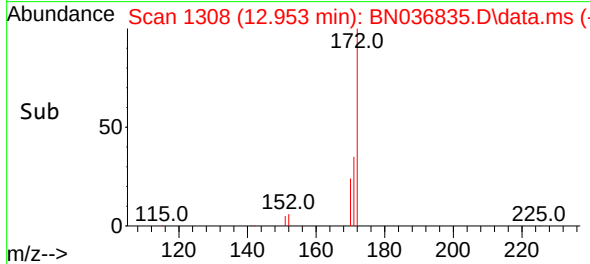
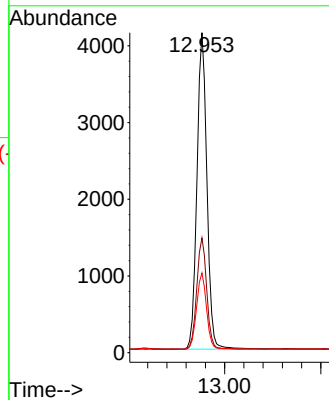
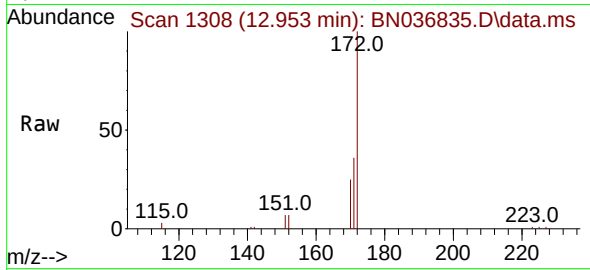




#15
2-Fluorobiphenyl
Concen: 0.374 ng
RT: 12.953 min Scan# 11
Delta R.T. -0.035 min
Lab File: BN036835.D
Acq: 03 Apr 2025 22:39

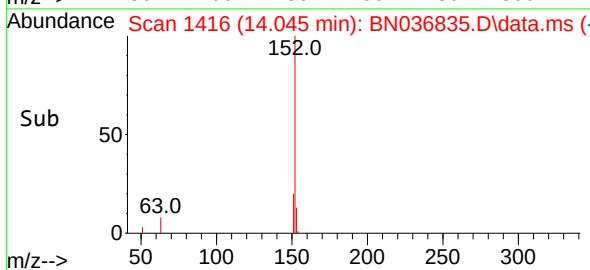
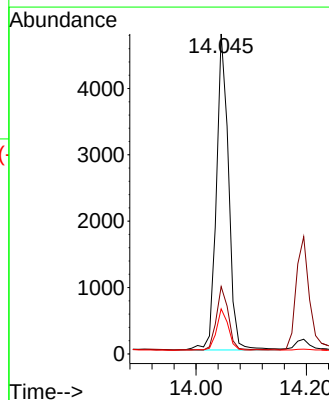
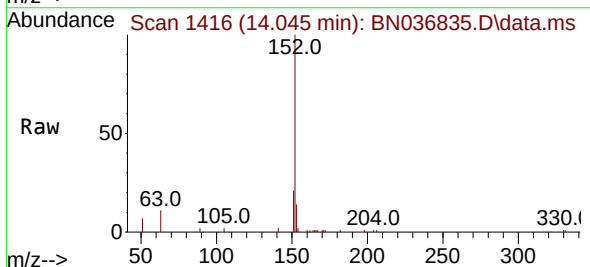
Instrument :
BNA_N
ClientSampleId :
MW-18B-56-040225MSD

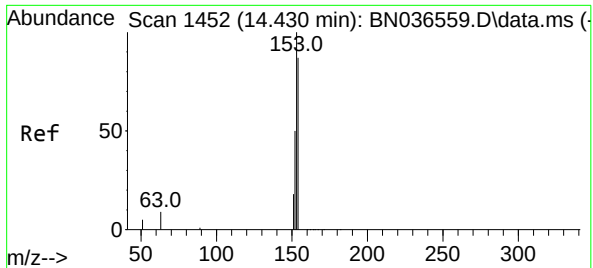
Tgt Ion:	172	Resp:	8075
Ion	Ratio	Lower	Upper
172	100		
171	35.9	29.5	44.3
170	24.9	20.2	30.4



#16
Acenaphthylene
Concen: 0.416 ng
RT: 14.045 min Scan# 1416
Delta R.T. -0.032 min
Lab File: BN036835.D
Acq: 03 Apr 2025 22:39

Tgt Ion:	152	Resp:	7290
Ion	Ratio	Lower	Upper
152	100		
151	19.7	16.2	24.4
153	12.9	10.6	15.8

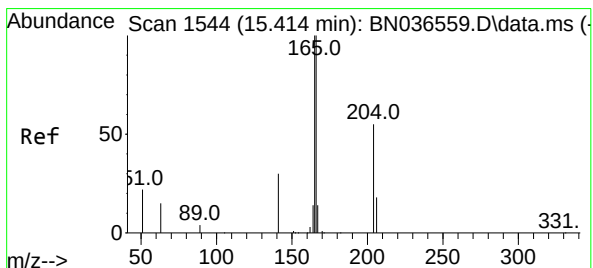
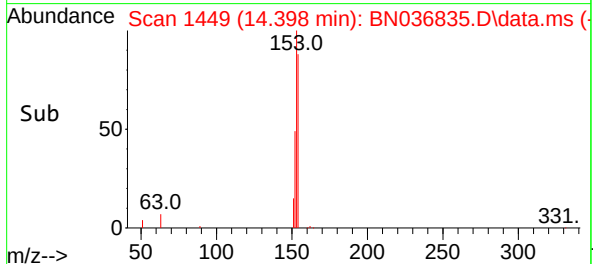
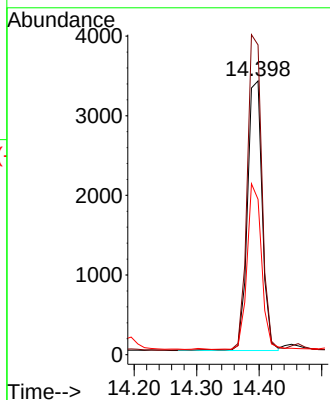
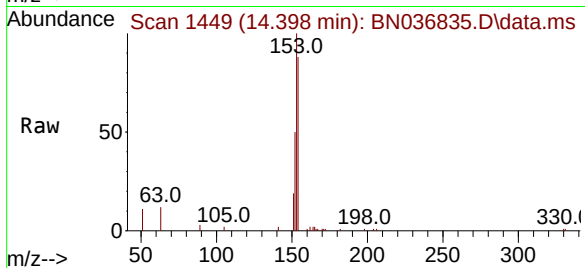




#17
Acenaphthene
Concen: 0.484 ng
RT: 14.398 min Scan# 1449
Delta R.T. -0.032 min
Lab File: BN036835.D
Acq: 03 Apr 2025 22:39

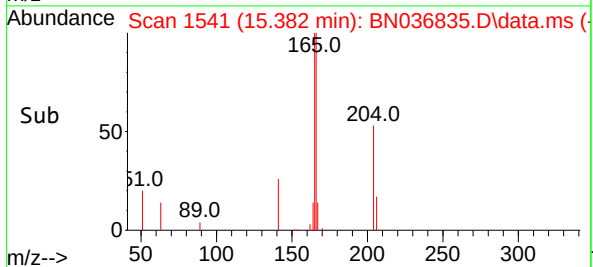
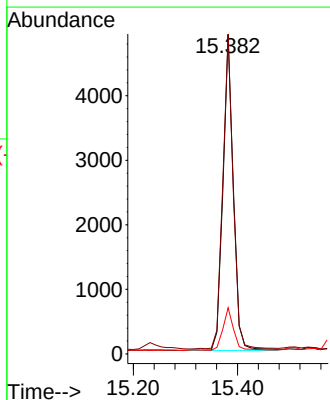
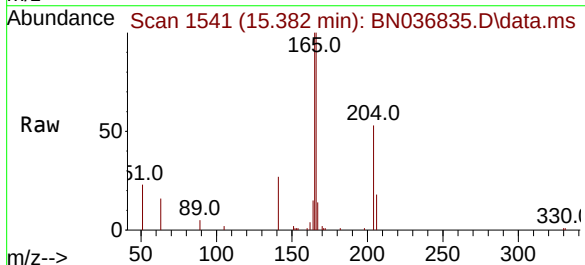
Instrument :
BNA_N
ClientSampleId :
MW-18B-56-040225MSD

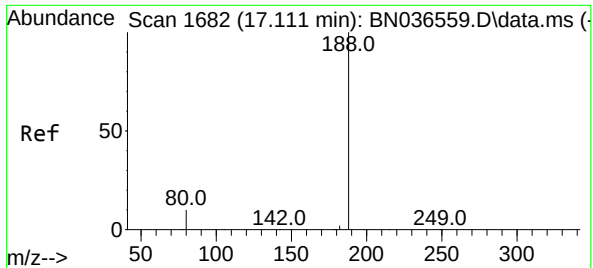
Tgt Ion:154 Resp: 5544
Ion Ratio Lower Upper
154 100
153 116.5 94.1 141.1
152 60.6 49.8 74.6



#18
Fluorene
Concen: 0.439 ng
RT: 15.382 min Scan# 1541
Delta R.T. -0.032 min
Lab File: BN036835.D
Acq: 03 Apr 2025 22:39

Tgt Ion:166 Resp: 6801
Ion Ratio Lower Upper
166 100
165 99.3 79.8 119.8
167 13.6 10.6 15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.074 min Scan# 1

Delta R.T. -0.037 min

Lab File: BN036835.D

Acq: 03 Apr 2025 22:39

Instrument :

BNA_N

ClientSampleId :

MW-18B-56-040225MSD

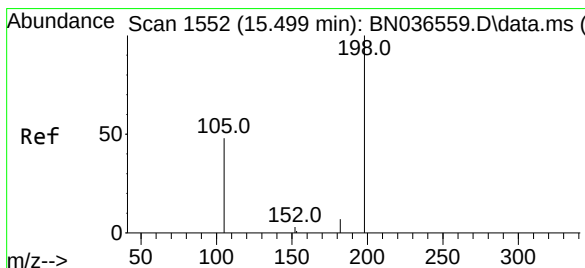
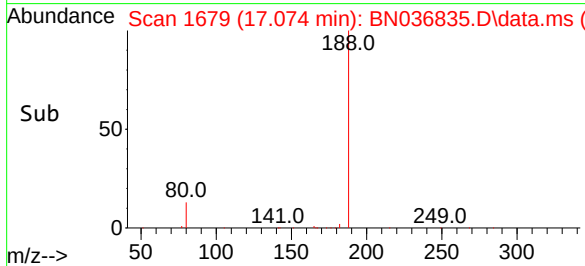
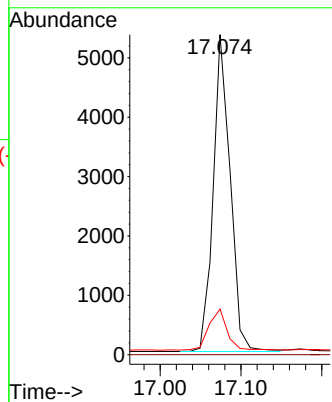
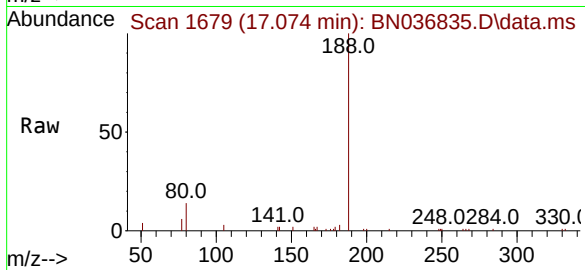
Tgt Ion:188 Resp: 7810

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 14.2 8.8 13.2#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.339 ng

RT: 15.467 min Scan# 1549

Delta R.T. -0.032 min

Lab File: BN036835.D

Acq: 03 Apr 2025 22:39

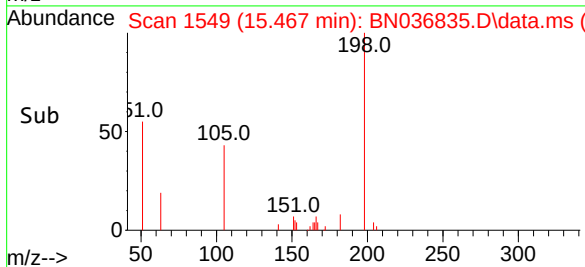
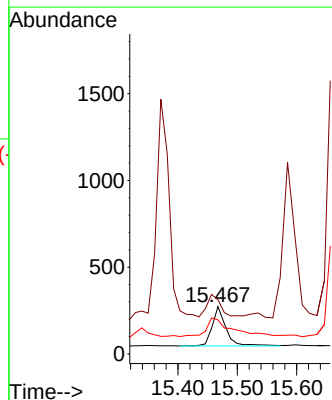
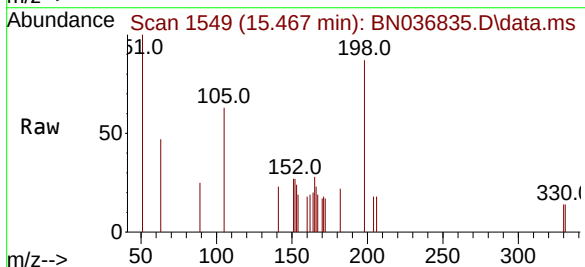
Tgt Ion:198 Resp: 385

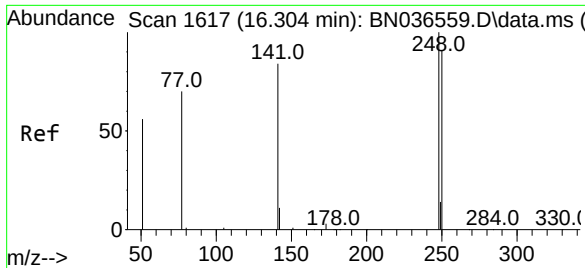
Ion Ratio Lower Upper

198 100

51 114.7 107.9 161.9

105 72.2 56.2 84.2

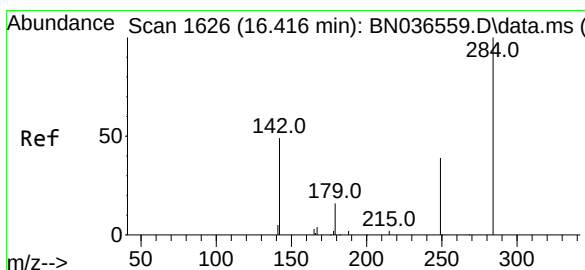
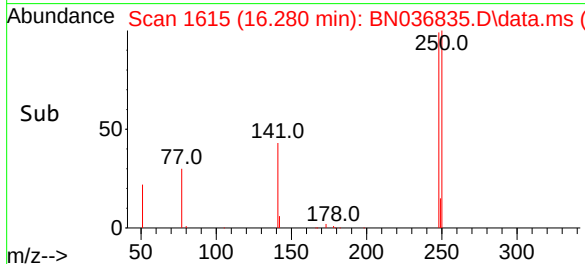
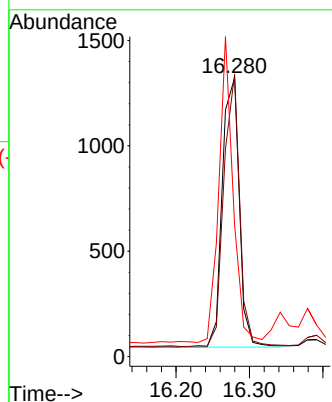
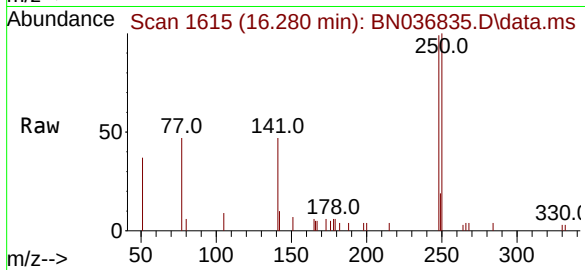




#21
4-Bromophenyl-phenylether
Concen: 0.419 ng
RT: 16.280 min Scan# 1615
Delta R.T. -0.025 min
Lab File: BN036835.D
Acq: 03 Apr 2025 22:39

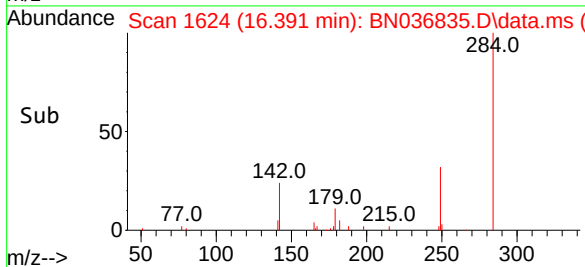
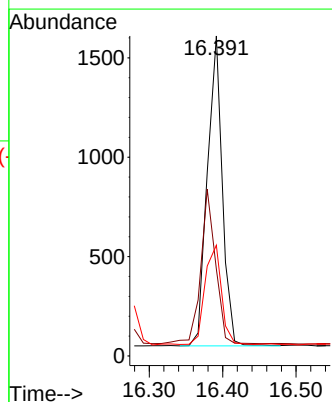
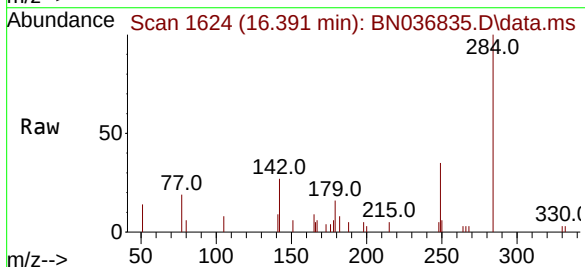
Instrument :
BNA_N
ClientSampleId :
MW-18B-56-040225MSD

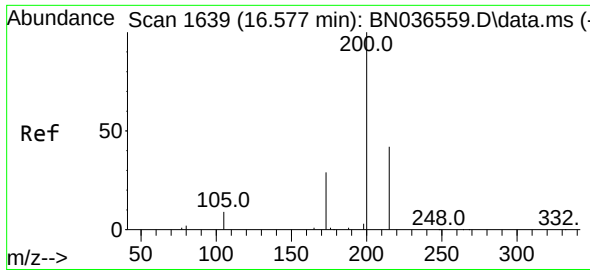
Tgt Ion	Ratio	Lower	Upper
248	100		
250	101.4	73.0	109.6
141	47.2	68.6	103.0#



#22
Hexachlorobenzene
Concen: 0.373 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.025 min
Lab File: BN036835.D
Acq: 03 Apr 2025 22:39

Tgt Ion	Ratio	Lower	Upper
284	100		
142	49.7	37.0	55.4
249	35.4	28.1	42.1

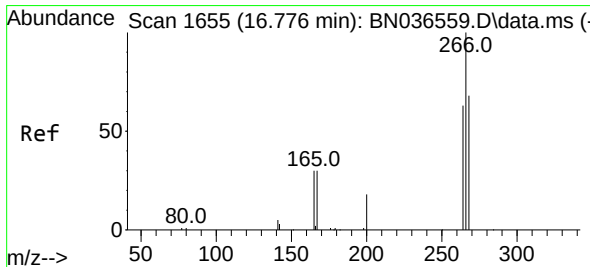
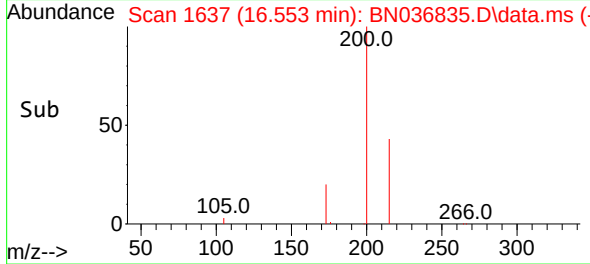
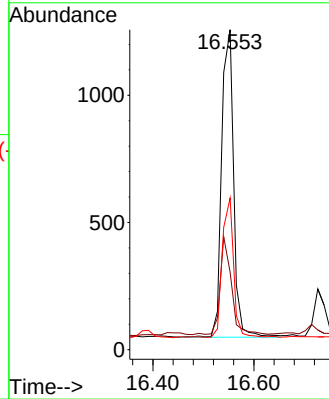
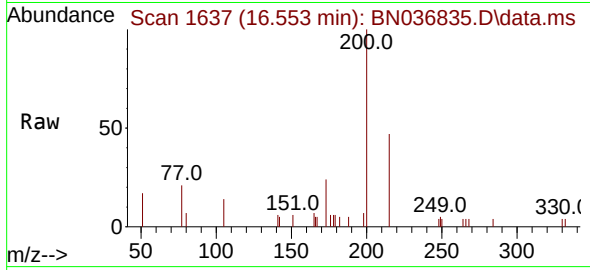




#23
Atrazine
Concen: 0.505 ng
RT: 16.553 min Scan# 1637
Delta R.T. -0.025 min
Lab File: BN036835.D
Acq: 03 Apr 2025 22:39

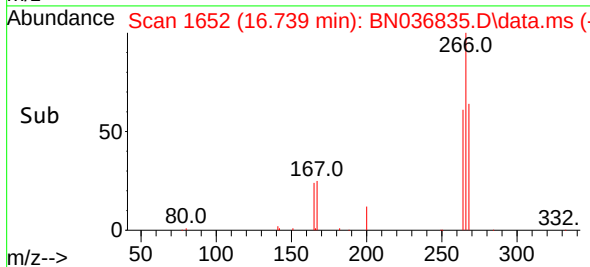
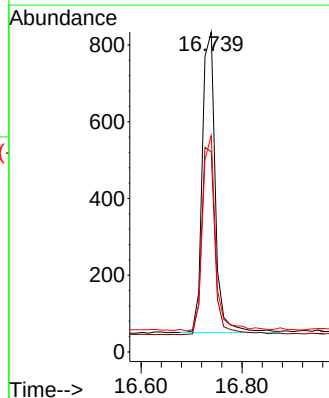
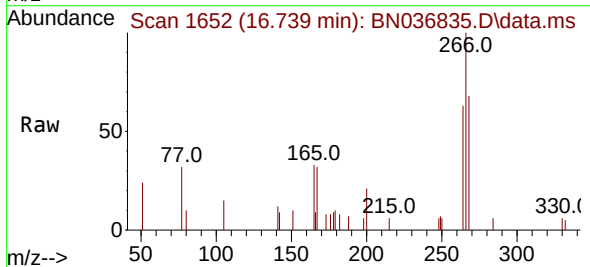
Instrument :
BNA_N
ClientSampleId :
MW-18B-56-040225MSD

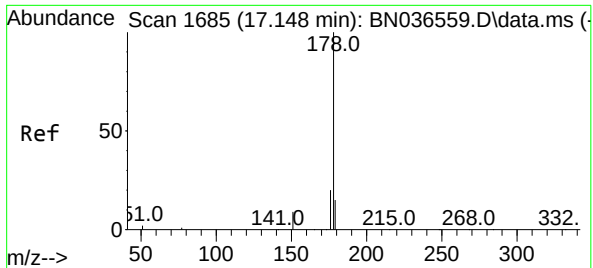
Tgt Ion:200 Resp: 1983
Ion Ratio Lower Upper
200 100
173 24.2 27.3 40.9#
215 47.4 36.8 55.2



#24
Pentachlorophenol
Concen: 0.520 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.037 min
Lab File: BN036835.D
Acq: 03 Apr 2025 22:39

Tgt Ion:266 Resp: 1402
Ion Ratio Lower Upper
266 100
264 64.9 49.6 74.4
268 64.6 50.9 76.3

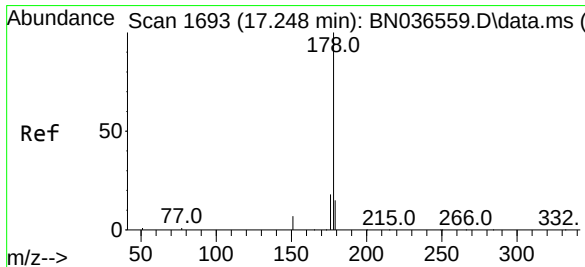
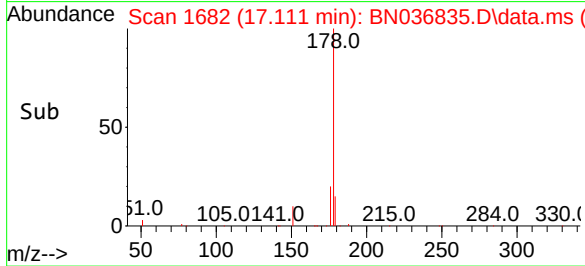
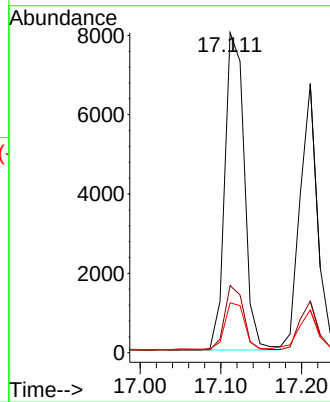
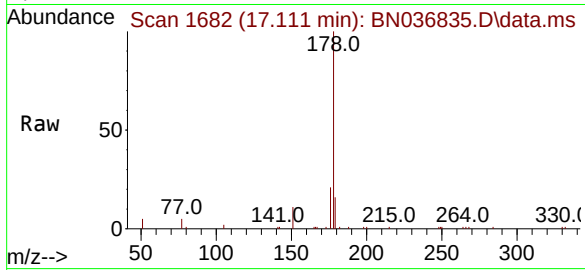




#25
Phenanthrene
Concen: 0.573 ng
RT: 17.111 min Scan# 1682
Delta R.T. -0.037 min
Lab File: BN036835.D
Acq: 03 Apr 2025 22:39

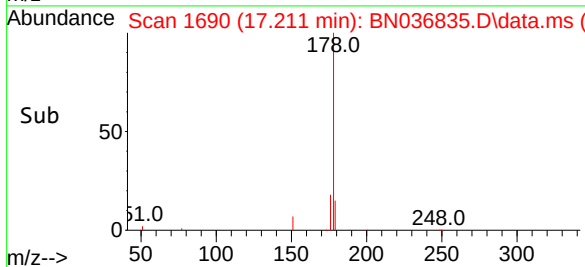
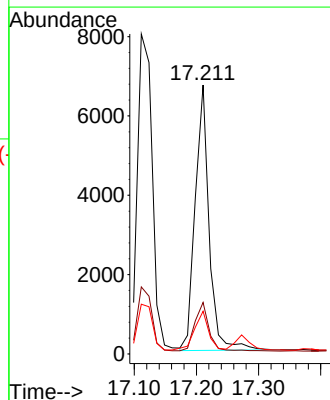
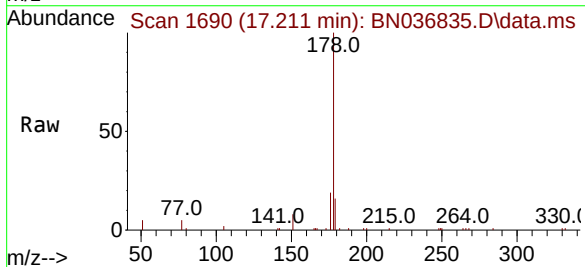
Instrument :
BNA_N
ClientSampleId :
MW-18B-56-040225MSD

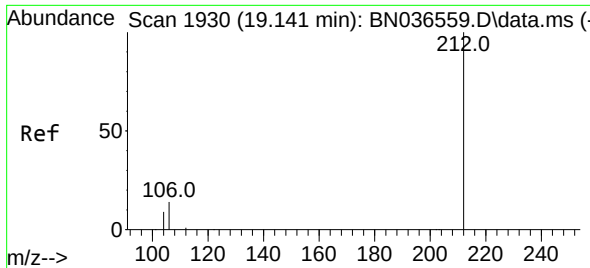
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.9	23.9
179	15.4	12.2	18.4



#26
Anthracene
Concen: 0.495 ng
RT: 17.211 min Scan# 1690
Delta R.T. -0.037 min
Lab File: BN036835.D
Acq: 03 Apr 2025 22:39

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.4	23.2
179	15.3	12.6	18.8

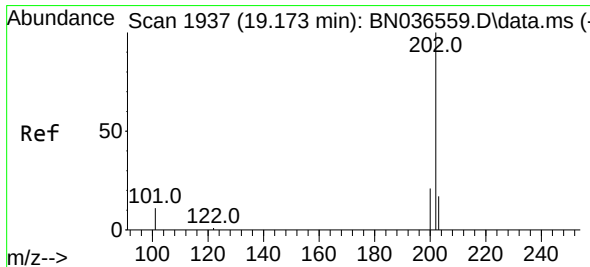
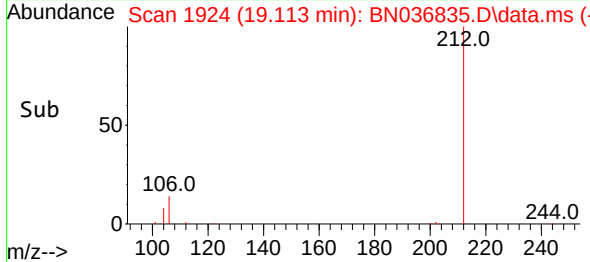
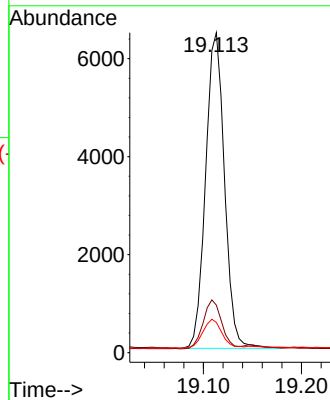
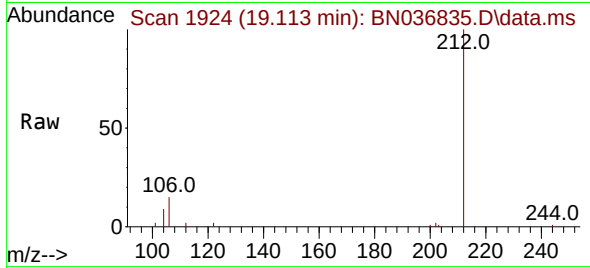




#27
Fluoranthene-d10
Concen: 0.430 ng
RT: 19.113 min Scan# 1913
Delta R.T. -0.028 min
Lab File: BN036835.D
Acq: 03 Apr 2025 22:39

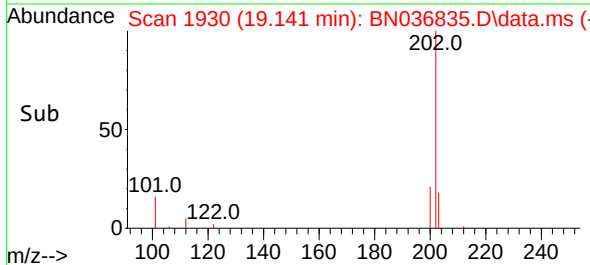
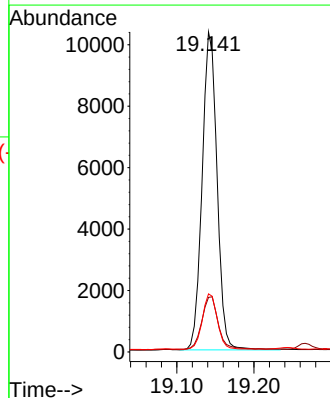
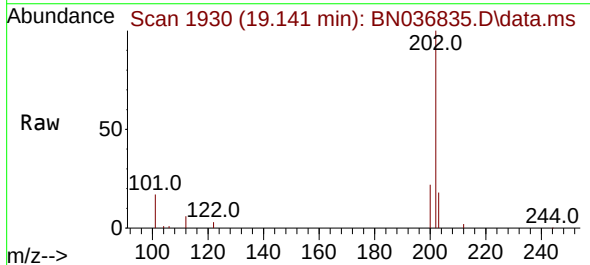
Instrument :
BNA_N
ClientSampleId :
MW-18B-56-040225MSD

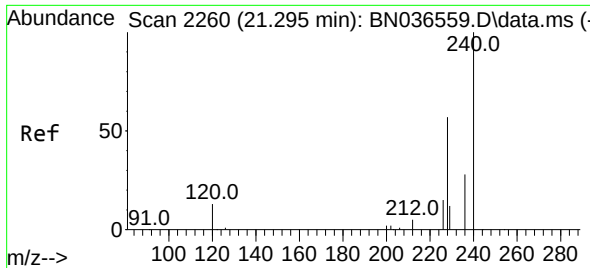
Tgt Ion:	212	Resp:	8605
Ion Ratio	Lower	Upper	
212	100		
106	15.2	11.8	17.6
104	9.1	7.3	10.9



#28
Fluoranthene
Concen: 0.530 ng
RT: 19.141 min Scan# 1930
Delta R.T. -0.032 min
Lab File: BN036835.D
Acq: 03 Apr 2025 22:39

Tgt Ion:	202	Resp:	13948
Ion Ratio	Lower	Upper	
202	100		
101	18.4	9.4	14.0#
203	17.7	13.5	20.3

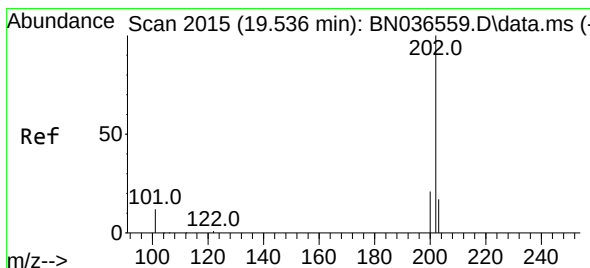
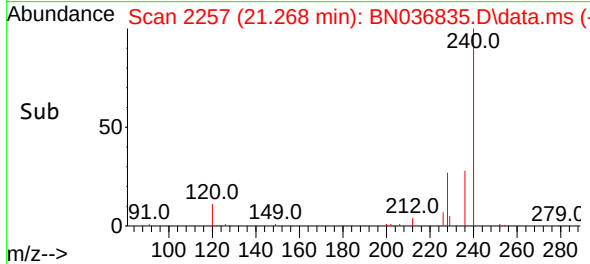
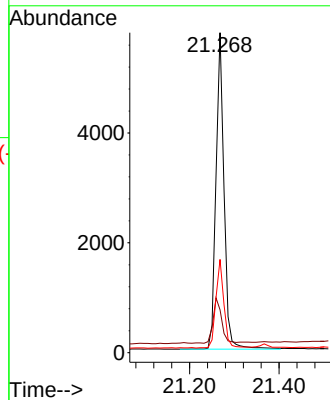
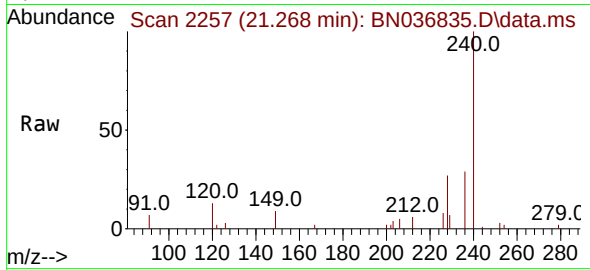




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.268 min Scan# 21
Delta R.T. -0.027 min
Lab File: BN036835.D
Acq: 03 Apr 2025 22:39

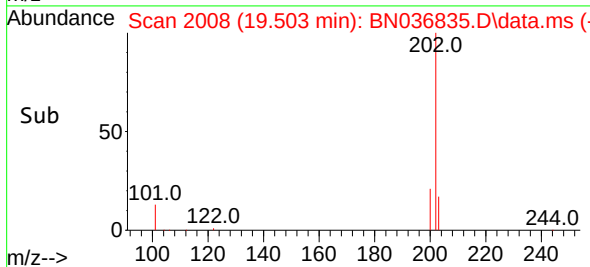
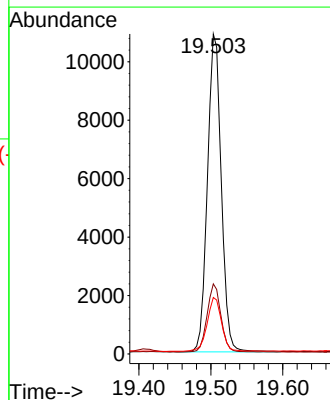
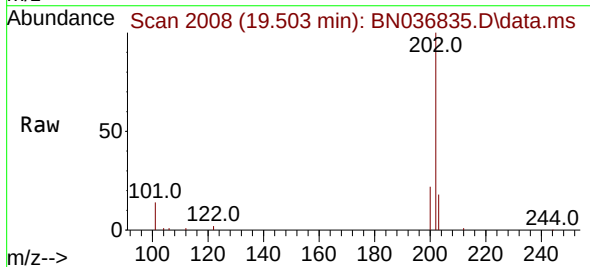
Instrument :
BNA_N
ClientSampleId :
MW-18B-56-040225MSD

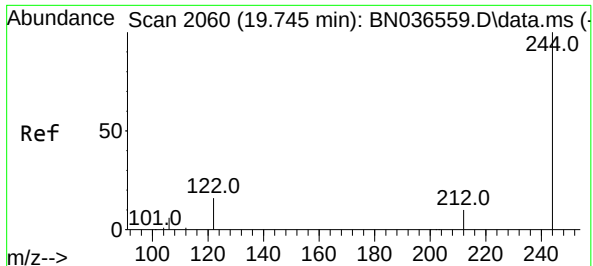
Tgt Ion:240 Resp: 7230
Ion Ratio Lower Upper
240 100
120 13.4 14.6 22.0#
236 29.1 24.1 36.1



#30
Pyrene
Concen: 0.409 ng
RT: 19.503 min Scan# 2008
Delta R.T. -0.032 min
Lab File: BN036835.D
Acq: 03 Apr 2025 22:39

Tgt Ion:202 Resp: 14444
Ion Ratio Lower Upper
202 100
200 21.3 17.1 25.7
203 17.7 14.1 21.1

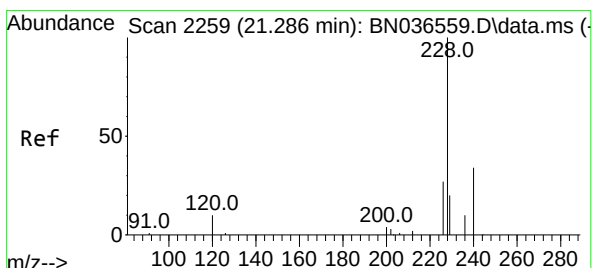
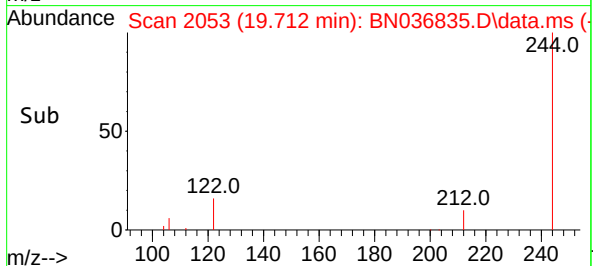
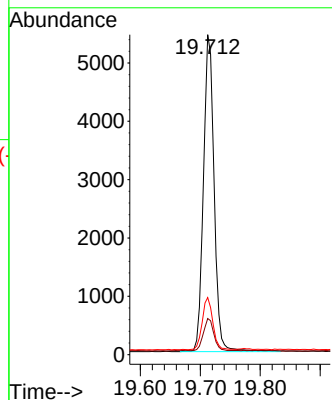
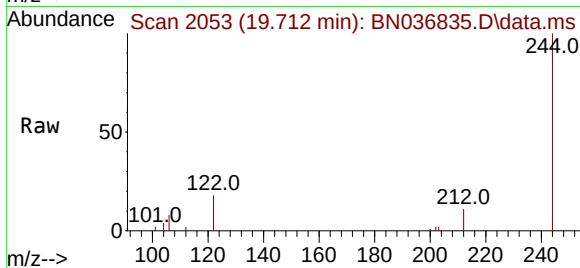




#31
Terphenyl-d14
Concen: 0.389 ng
RT: 19.712 min Scan# 2060
Delta R.T. -0.032 min
Lab File: BN036835.D
Acq: 03 Apr 2025 22:39

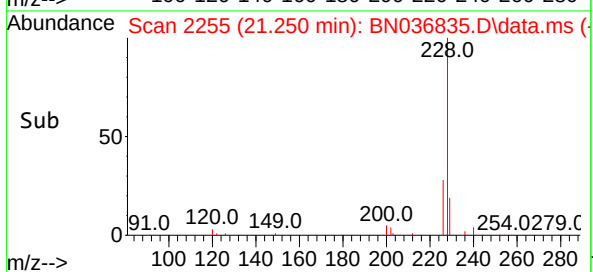
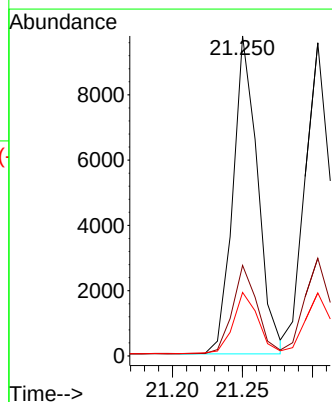
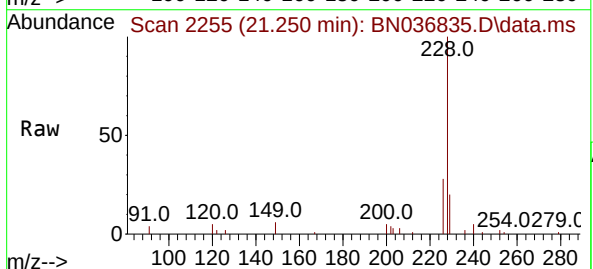
Instrument :
BNA_N
ClientSampleId :
MW-18B-56-040225MSD

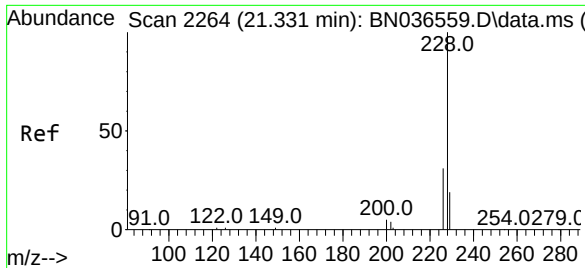
Tgt Ion:244 Resp: 6741
Ion Ratio Lower Upper
244 100
212 11.3 9.6 14.4
122 17.9 13.9 20.9



#32
Benzo(a)anthracene
Concen: 0.476 ng
RT: 21.250 min Scan# 2255
Delta R.T. -0.036 min
Lab File: BN036835.D
Acq: 03 Apr 2025 22:39

Tgt Ion:228 Resp: 11959
Ion Ratio Lower Upper
228 100
226 28.3 22.5 33.7
229 19.9 16.6 25.0

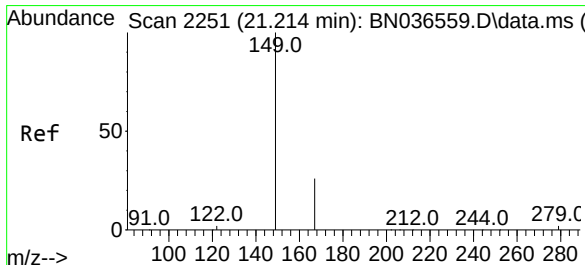
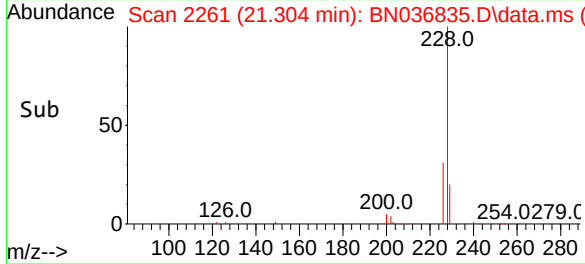
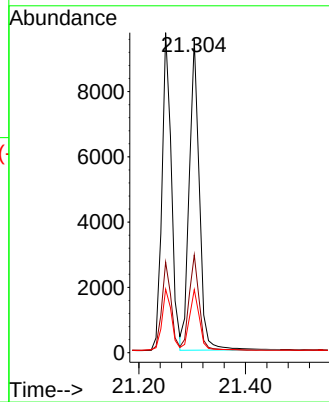
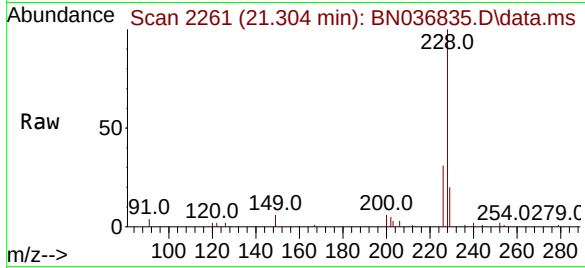




#33
Chrysene
Concen: 0.455 ng
RT: 21.304 min Scan# 21
Delta R.T. -0.027 min
Lab File: BN036835.D
Acq: 03 Apr 2025 22:39

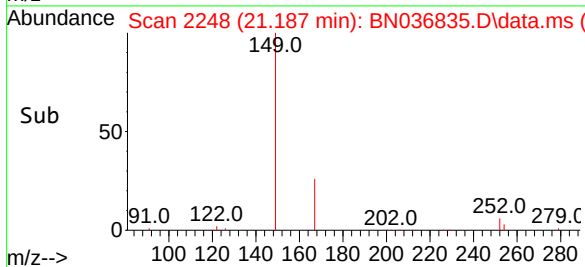
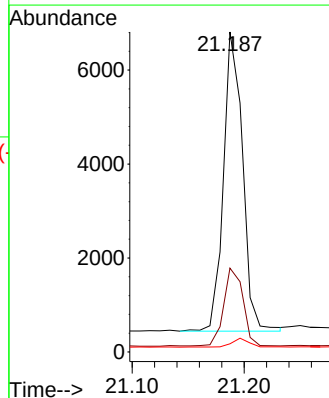
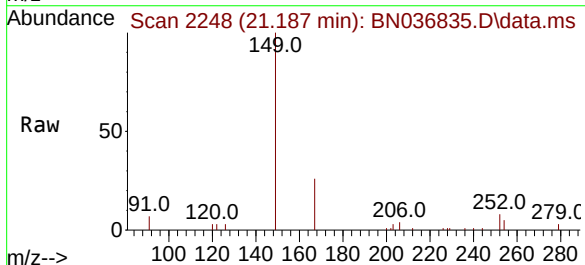
Instrument :
BNA_N
ClientSampleId :
MW-18B-56-040225MSD

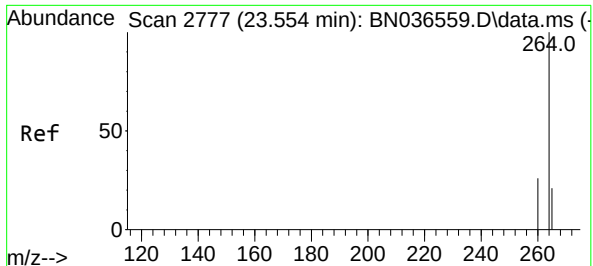
Tgt Ion:	228	Resp:	12508
Ion Ratio	Lower	Upper	
228	100		
226	31.2	25.3	37.9
229	20.1	15.8	23.8



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.422 ng
RT: 21.187 min Scan# 2248
Delta R.T. -0.027 min
Lab File: BN036835.D
Acq: 03 Apr 2025 22:39

Tgt Ion:	149	Resp:	7549
Ion Ratio	Lower	Upper	
149	100		
167	26.0	20.7	31.1
279	2.7	3.6	5.4#

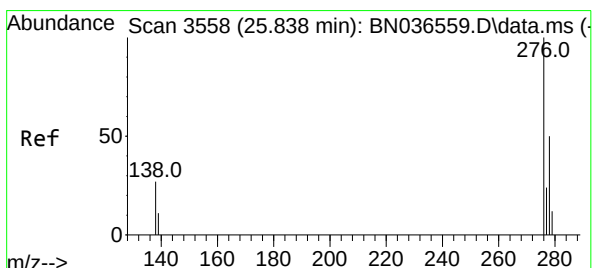
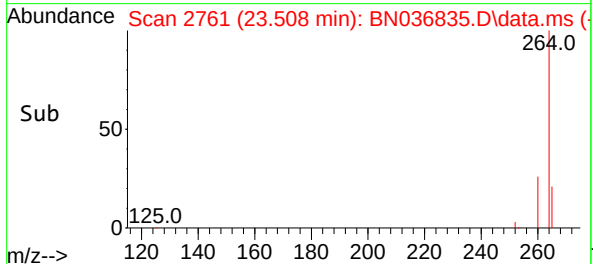
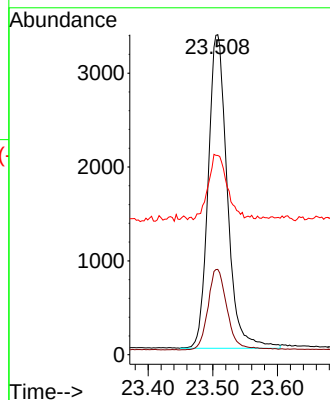
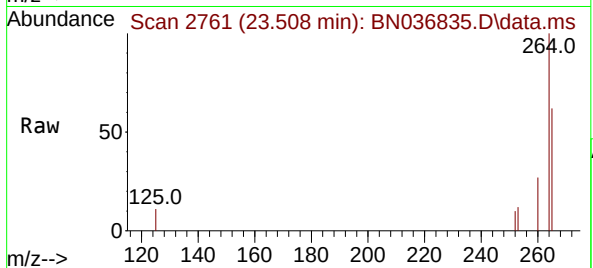




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.508 min Scan# 21
Delta R.T. -0.047 min
Lab File: BN036835.D
Acq: 03 Apr 2025 22:39

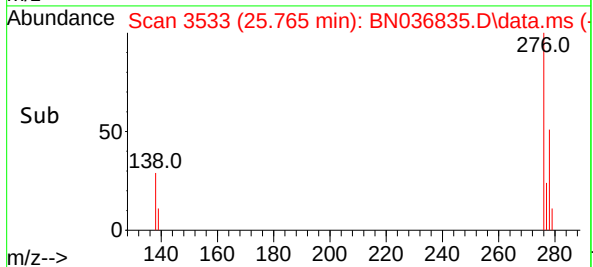
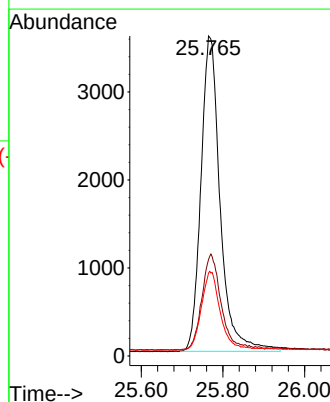
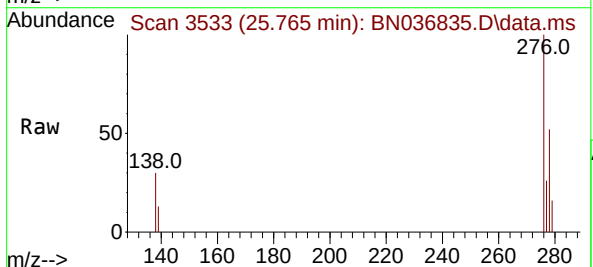
Instrument :
BNA_N
ClientSampleId :
MW-18B-56-040225MSD

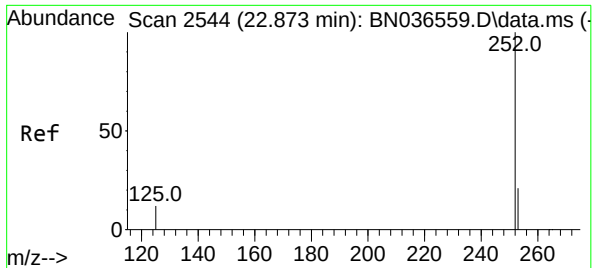
Tgt Ion:264 Resp: 6858
Ion Ratio Lower Upper
264 100
260 26.7 22.6 33.8
265 62.3 88.1 132.1#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.473 ng
RT: 25.765 min Scan# 3533
Delta R.T. -0.073 min
Lab File: BN036835.D
Acq: 03 Apr 2025 22:39

Tgt Ion:276 Resp: 11711
Ion Ratio Lower Upper
276 100
138 30.1 23.4 35.2
277 24.4 20.0 30.0

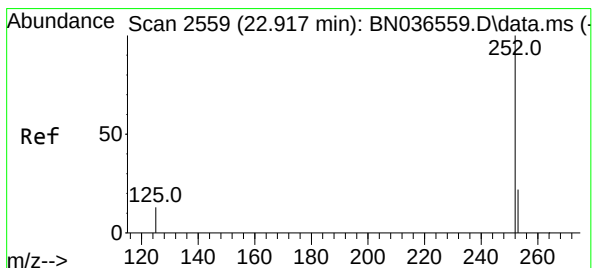
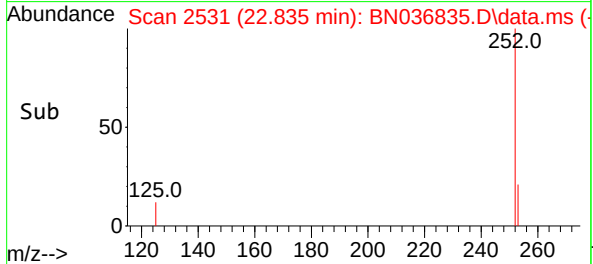
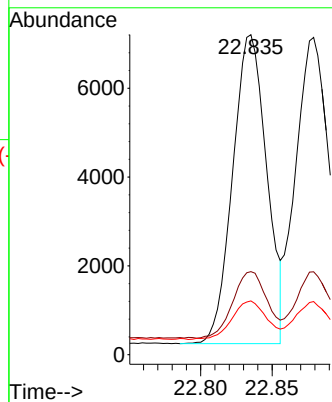
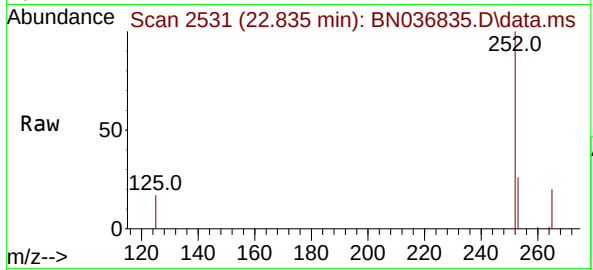




#37
Benzo(b)fluoranthene
Concen: 0.462 ng
RT: 22.835 min Scan# 21
Delta R.T. -0.038 min
Lab File: BN036835.D
Acq: 03 Apr 2025 22:39

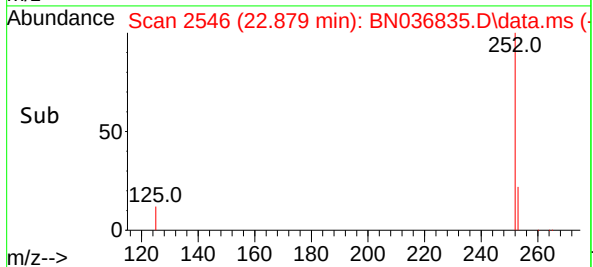
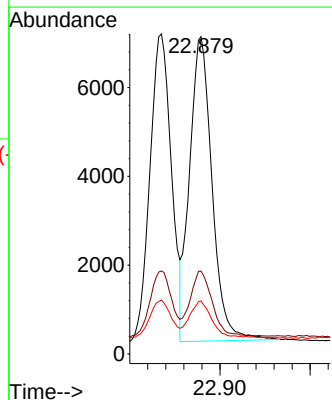
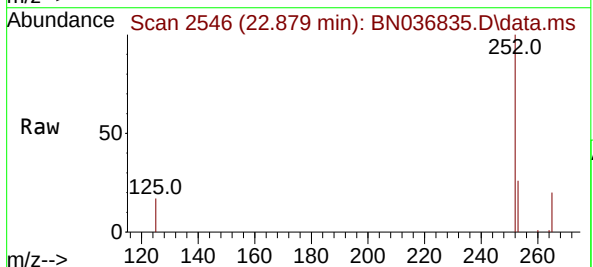
Instrument :
BNA_N
ClientSampleId :
MW-18B-56-040225MSD

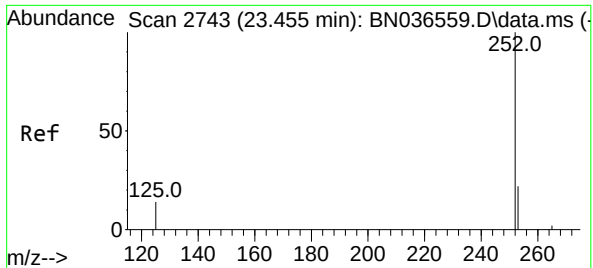
Tgt Ion:252 Resp: 11523
Ion Ratio Lower Upper
252 100
253 26.0 23.9 35.9
125 16.8 17.4 26.2#



#38
Benzo(k)fluoranthene
Concen: 0.453 ng
RT: 22.879 min Scan# 2546
Delta R.T. -0.038 min
Lab File: BN036835.D
Acq: 03 Apr 2025 22:39

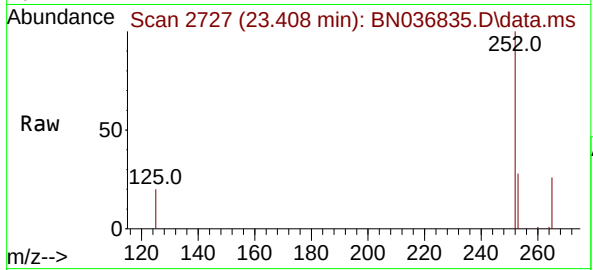
Tgt Ion:252 Resp: 11855
Ion Ratio Lower Upper
252 100
253 26.1 24.6 36.8
125 16.8 17.8 26.8#



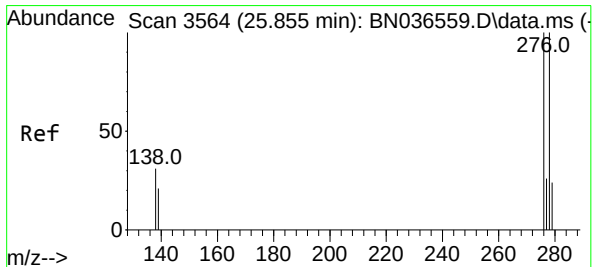
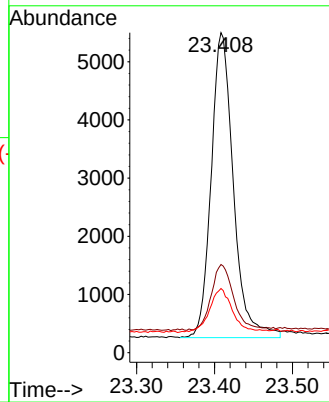
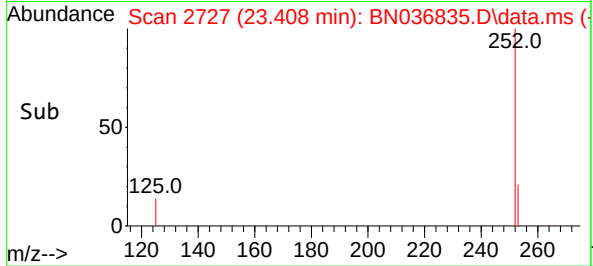


#39
Benzo(a)pyrene
Concen: 0.494 ng
RT: 23.408 min Scan# 21
Delta R.T. -0.047 min
Lab File: BN036835.D
Acq: 03 Apr 2025 22:39

Instrument :
BNA_N
ClientSampleId :
MW-18B-56-040225MSD

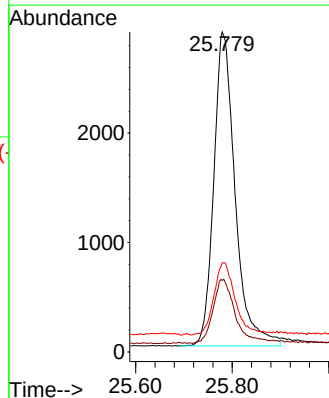
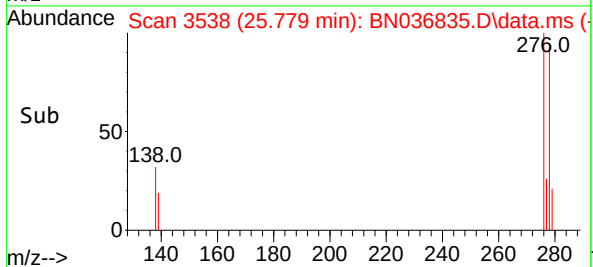
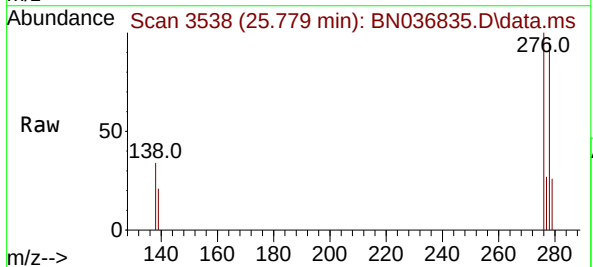


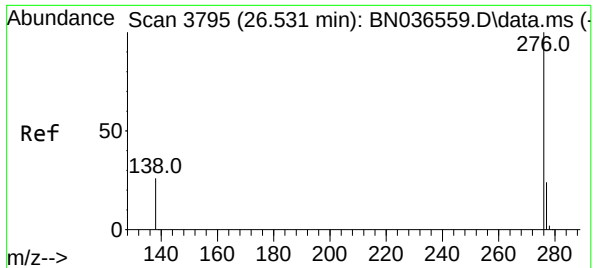
Tgt Ion:252 Resp: 10379
Ion Ratio Lower Upper
252 100
253 27.5 27.8 41.8#
125 20.1 22.7 34.1#



#40
Dibenzo(a,h)anthracene
Concen: 0.458 ng
RT: 25.779 min Scan# 3538
Delta R.T. -0.076 min
Lab File: BN036835.D
Acq: 03 Apr 2025 22:39

Tgt Ion:278 Resp: 8832
Ion Ratio Lower Upper
278 100
139 22.4 20.8 31.2
279 27.8 28.8 43.2#





#41

Benzo(g,h,i)perylene

Concen: 0.417 ng

RT: 26.455 min Scan# 31

Delta R.T. -0.076 min

Lab File: BN036835.D

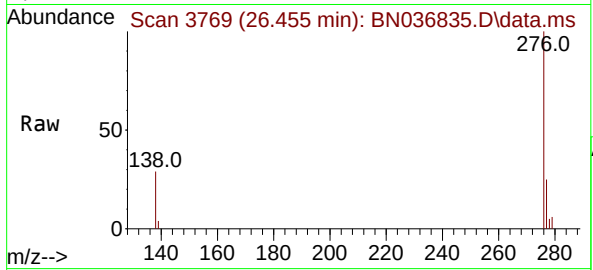
Acq: 03 Apr 2025 22:39

Instrument :

BNA_N

ClientSampleId :

MW-18B-56-040225MSD



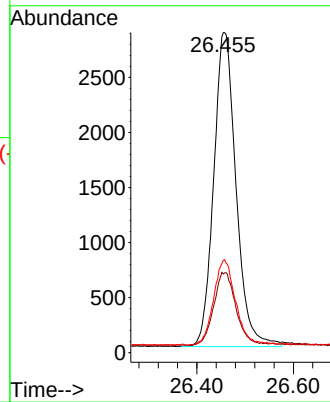
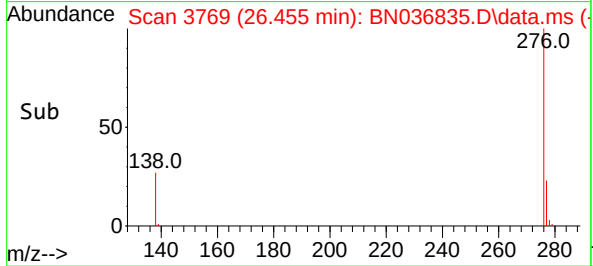
Tgt Ion:276 Resp: 9182

Ion Ratio Lower Upper

276 100

277 24.6 22.2 33.4

138 28.8 24.1 36.1



Manual Integration Report

Sequence:	BN031025	Instrument	BNA_n
-----------	----------	------------	-------

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC0.1	BN036557.D	1,4-Dioxane	anahy	3/11/2025 9:18:29 AM	Jagrut	3/11/2025 10:27:49 AM	Peak Integrated by Software
SSTDICC0.2	BN036558.D	1,4-Dioxane	anahy	3/11/2025 9:19:12 AM	Jagrut	3/11/2025 10:27:51 AM	Peak Integrated by Software
SSTDCCC0.4	BN036572.D	Benzo(k)fluoranthene	anahy	3/11/2025 9:20:59 AM	Jagrut	3/11/2025 10:27:55 AM	Peak Integrated by Software
SSTDCCC0.4	BN036572.D	Chrysene-d12	anahy	3/11/2025 9:20:59 AM	Jagrut	3/11/2025 10:27:55 AM	Peak Integrated by Software

Manual Integration Report

Sequence:

BN040325

Instrument

BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC0.4	BN036817.D	Benzo(k)fluoranthene	Rahul	4/4/2025 12:21:54 PM	Jagrut	4/4/2025 12:42:41 PM	Peak Integrated by Software
PB167450BS	BN036828.D	2-Methylnaphthalene-d10	Rahul	4/4/2025 12:22:07 PM	Jagrut	4/4/2025 12:42:52 PM	Peak Integrated by Software
PB167450BS	BN036828.D	Anthracene	Rahul	4/4/2025 12:22:07 PM	Jagrut	4/4/2025 12:42:52 PM	Peak Integrated by Software
PB167450BS	BN036828.D	Benzo(k)fluoranthene	Rahul	4/4/2025 12:22:07 PM	Jagrut	4/4/2025 12:42:52 PM	Peak Integrated by Software
Q1711-04	BN036830.D	Phenanthrene	Rahul	4/4/2025 12:22:11 PM	Jagrut	4/4/2025 12:42:54 PM	Peak Integrated by Software

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN031025

Review By	anahy	Review On	3/11/2025 9:36:11 AM
Supervise By	Jagrut	Supervise On	3/11/2025 10:28:11 AM
SubDirectory	BN031025	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn031025
STD. NAME	STD REF.#		
Tune/Reschk	SP6717		
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731		
CCC	SP6735		
Internal Standard/PEM	SP6740,1ul/100ul sample		
ICV/I.BLK	SP6684		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN036556.D	10 Mar 2025 11:03	RC/JU	Ok
2	SSTDIC0.1	BN036557.D	10 Mar 2025 11:42	RC/JU	Ok,M
3	SSTDIC0.2	BN036558.D	10 Mar 2025 12:18	RC/JU	Ok,M
4	SSTDIC0.4	BN036559.D	10 Mar 2025 12:54	RC/JU	Ok
5	SSTDIC0.8	BN036560.D	10 Mar 2025 13:31	RC/JU	Ok
6	SSTDIC1.6	BN036561.D	10 Mar 2025 14:07	RC/JU	Ok
7	SSTDIC3.2	BN036562.D	10 Mar 2025 14:43	RC/JU	Ok
8	SSTDIC5.0	BN036563.D	10 Mar 2025 15:19	RC/JU	Ok
9	SSTDICV0.4	BN036564.D	10 Mar 2025 16:38	RC/JU	Ok
10	PB167057BL	BN036565.D	10 Mar 2025 17:14	RC/JU	Ok
11	Q1531-03	BN036566.D	10 Mar 2025 17:50	RC/JU	Ok
12	Q1531-04	BN036567.D	10 Mar 2025 18:26	RC/JU	Ok
13	Q1531-05	BN036568.D	10 Mar 2025 19:02	RC/JU	Ok
14	Q1531-06	BN036569.D	10 Mar 2025 19:38	RC/JU	Ok,M
15	Q1531-13	BN036570.D	10 Mar 2025 20:14	RC/JU	Ok
16	Q1531-14	BN036571.D	10 Mar 2025 20:50	RC/JU	Ok
17	SSTDIC0.4	BN036572.D	10 Mar 2025 21:26	RC/JU	Ok,M

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN040325

Review By	Rahul	Review On	4/4/2025 12:22:50 PM
Supervise By	Jagrut	Supervise On	4/4/2025 12:43:19 PM
SubDirectory	BN040325	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn031025
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731		
CCC	SP6735		
Internal Standard/PEM	SP6740,1ul/100ul sample		
ICV/I.BLK	SP6684		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN036816.D	03 Apr 2025 11:08	RC/JU	Ok
2	SSTDCCC0.4	BN036817.D	03 Apr 2025 11:47	RC/JU	Ok,M
3	PB167430BL	BN036818.D	03 Apr 2025 12:24	RC/JU	Ok
4	Q1690-01	BN036819.D	03 Apr 2025 13:00	RC/JU	Ok
5	Q1697-01	BN036820.D	03 Apr 2025 13:37	RC/JU	Dilution
6	Q1697-02	BN036821.D	03 Apr 2025 14:13	RC/JU	Ok
7	Q1697-03	BN036822.D	03 Apr 2025 14:49	RC/JU	Ok
8	Q1697-04	BN036823.D	03 Apr 2025 15:25	RC/JU	Ok
9	Q1697-05	BN036824.D	03 Apr 2025 16:01	RC/JU	Ok
10	Q1697-01DL	BN036825.D	03 Apr 2025 16:38	RC/JU	Ok
11	PB167430BS	BN036826.D	03 Apr 2025 17:14	RC/JU	Ok,M
12	PB167430BSD	BN036827.D	03 Apr 2025 17:50	RC/JU	Ok,M
13	PB167450BS	BN036828.D	03 Apr 2025 18:26	RC/JU	Ok,M
14	PB167450BL	BN036829.D	03 Apr 2025 19:02	RC/JU	Ok
15	Q1711-04	BN036830.D	03 Apr 2025 19:38	RC/JU	Ok,M
16	Q1711-07	BN036831.D	03 Apr 2025 20:14	RC/JU	Ok
17	Q1711-08	BN036832.D	03 Apr 2025 20:51	RC/JU	Ok
18	Q1711-01	BN036833.D	03 Apr 2025 21:27	RC/JU	Ok
19	Q1711-02MS	BN036834.D	03 Apr 2025 22:03	RC/JU	Ok
20	Q1711-03MSD	BN036835.D	03 Apr 2025 22:39	RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN031025

Review By	anahy	Review On	3/11/2025 9:36:11 AM
Supervise By	Jagrut	Supervise On	3/11/2025 10:28:11 AM
SubDirectory	BN031025	HP Acquire Method	BNA_N, 8270_HP Processing Method bn031025

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731
CCC	SP6735
Internal Standard/PEM	SP6740,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN036556.D	10 Mar 2025 11:03		RC/JU	Ok
2	SSTDICC0.1	SSTDICC0.1	BN036557.D	10 Mar 2025 11:42	Compound #20 removed.	RC/JU	Ok,M
3	SSTDICC0.2	SSTDICC0.2	BN036558.D	10 Mar 2025 12:18		RC/JU	Ok,M
4	SSTDICCC0.4	SSTDICCC0.4	BN036559.D	10 Mar 2025 12:54		RC/JU	Ok
5	SSTDICC0.8	SSTDICC0.8	BN036560.D	10 Mar 2025 13:31		RC/JU	Ok
6	SSTDICC1.6	SSTDICC1.6	BN036561.D	10 Mar 2025 14:07	Compound #20 kept on QR.	RC/JU	Ok
7	SSTDICC3.2	SSTDICC3.2	BN036562.D	10 Mar 2025 14:43	Method is good for DOD.	RC/JU	Ok
8	SSTDICC5.0	SSTDICC5.0	BN036563.D	10 Mar 2025 15:19		RC/JU	Ok
9	SSTDICV0.4	ICVBN031025	BN036564.D	10 Mar 2025 16:38		RC/JU	Ok
10	PB167057BL	PB167057BL	BN036565.D	10 Mar 2025 17:14		RC/JU	Ok
11	Q1531-03	RE122D1-20250305	BN036566.D	10 Mar 2025 17:50		RC/JU	Ok
12	Q1531-04	RE126D1-20250306	BN036567.D	10 Mar 2025 18:26		RC/JU	Ok
13	Q1531-05	RE126D2-20250306	BN036568.D	10 Mar 2025 19:02		RC/JU	Ok
14	Q1531-06	DUP01-20250306	BN036569.D	10 Mar 2025 19:38		RC/JU	Ok,M
15	Q1531-13	RE108D1-20250306	BN036570.D	10 Mar 2025 20:14		RC/JU	Ok
16	Q1531-14	RE105D1-20250306	BN036571.D	10 Mar 2025 20:50		RC/JU	Ok
17	SSTDCCC0.4	SSTDCCC0.4EC	BN036572.D	10 Mar 2025 21:26		RC/JU	Ok,M

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN040325

Review By	Rahul	Review On	4/4/2025 12:22:50 PM
Supervise By	Jagrut	Supervise On	4/4/2025 12:43:19 PM
SubDirectory	BN040325	HP Acquire Method	BNA_N, 8270_HP Processing Method bn031025

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731
CCC	SP6735
Internal Standard/PEM	SP6740,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN036816.D	03 Apr 2025 11:08		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN036817.D	03 Apr 2025 11:47		RC/JU	Ok,M
3	PB167430BL	PB167430BL	BN036818.D	03 Apr 2025 12:24		RC/JU	Ok
4	Q1690-01	MW112010	BN036819.D	03 Apr 2025 13:00		RC/JU	Ok
5	Q1697-01	MW-19B-72-040125	BN036820.D	03 Apr 2025 13:37	Need 2X Dilution	RC/JU	Dilution
6	Q1697-02	IW-01-55-040125	BN036821.D	03 Apr 2025 14:13		RC/JU	Ok
7	Q1697-03	IW-02-55-040125	BN036822.D	03 Apr 2025 14:49		RC/JU	Ok
8	Q1697-04	IW-02-55-040125-FD	BN036823.D	03 Apr 2025 15:25		RC/JU	Ok
9	Q1697-05	IW-03-55-040125	BN036824.D	03 Apr 2025 16:01		RC/JU	Ok
10	Q1697-01DL	MW-19B-72-040125DL	BN036825.D	03 Apr 2025 16:38		RC/JU	Ok
11	PB167430BS	PB167430BS	BN036826.D	03 Apr 2025 17:14		RC/JU	Ok,M
12	PB167430BSD	PB167430BSD	BN036827.D	03 Apr 2025 17:50		RC/JU	Ok,M
13	PB167450BS	PB167450BS	BN036828.D	03 Apr 2025 18:26		RC/JU	Ok,M
14	PB167450BL	PB167450BL	BN036829.D	03 Apr 2025 19:02		RC/JU	Ok
15	Q1711-04	MW-17B-55-040225	BN036830.D	03 Apr 2025 19:38		RC/JU	Ok,M
16	Q1711-07	RMW-05B-89-040225	BN036831.D	03 Apr 2025 20:14		RC/JU	Ok
17	Q1711-08	EB01-040225	BN036832.D	03 Apr 2025 20:51		RC/JU	Ok
18	Q1711-01	MW-18B-56-040225	BN036833.D	03 Apr 2025 21:27		RC/JU	Ok

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN040325

Review By	Rahul	Review On	4/4/2025 12:22:50 PM
Supervise By	Jagrut	Supervise On	4/4/2025 12:43:19 PM
SubDirectory	BN040325	HP Acquire Method	BNA_N, 8270_HP Processing Method bn031025
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731		
CCC	SP6735		
Internal Standard/PEM	SP6740,1ul/100ul sample		
ICV/I.BLK	SP6684		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	Q1711-02MS	MW-18B-56-040225MS	BN036834.D	03 Apr 2025 22:03		RC/JU	Ok
20	Q1711-03MSD	MW-18B-56-040225MS	BN036835.D	03 Apr 2025 22:39		RC/JU	Ok

M : Manual Integration

SOP ID: M3510C,3580A-Extraction SVOC-20

Clean Up SOP #: N/A

Matrix : Water

Weigh By: N/A **Extraction By:** RJ

Balance check: N/A **Filter By:** RJ

Balance ID: N/A **pH Meter ID:** N/A

pH Strip Lot#: E3880 **Hood ID:** 4,5,6,7

Extraction Method: ☒ Separatory Funnel ☐ Continous Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☐ Soxhlet

Extraction Start Date : 04/03/2025

Extraction Start Time : 13:10

Extraction End Date : 04/03/2025

Extraction End Time : 18:00

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	SP6739
Surrogate	1.0ML	0.4 PPM	SP6755
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3904
Baked Na2SO4	N/A	EP2597
10N NaOH	N/A	EP2559
H2SO4 1:1	N/A	EP2565
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210673. pH Adjusted<2 with 1:1 H2SO4 &>11 with 10 N NaOH.

KD Bath ID: WATER BATH-1,2 **Envap ID:** NEVAP-02

KD Bath Temperature: 60 °C **Envap Temperature:** 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
04/03/25 18:05	RP (Ext. Lab)	Rc/swc
	Preparation Group	Analysis Group

Analytical Method: M3510C,3580A-Extraction SVOC-20

Concentration Date: 04/03/2025

Sample ID	Client Sample ID	Test	g / (mL)	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB167450BL	SBLK450	SVOC-SIMGrou p1	1000	2	ritesh	rajesh	1			SEP-01
PB167450BS	SLCS450	SVOC-SIMGrou p1	1000	2	ritesh	rajesh	1			2
Q1711-01	MW-18B-56-040225	SVOC-SIMGrou p1	970	2	ritesh	rajesh	1	H		3
Q1711-02	Q1711-01MS	SVOC-SIMGrou p1	980	6	ritesh	rajesh	1	H		4
Q1711-03	Q1711-01MSD	SVOC-SIMGrou p1	980	6	ritesh	rajesh	1	H		5
Q1711-04	MW-17B-55-040225	SVOC-SIMGrou p1	990	6	ritesh	rajesh	1	H		6
Q1711-07	RMW-05B-89-040225	SVOC-SIMGrou p1	990	6	ritesh	rajesh	1	D		7
Q1711-08	EB01-040225	SVOC-SIMGrou p1	960	6	ritesh	rajesh	1	H		8

* Extracts relinquished on the same date as received.

2
4/3/25

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1711 WorkList ID : 188715 Department : Extraction Date : 04-03-2025 13:09:50

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1711-01	MW-18B-56-040225	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	I41	04/02/2025	8270-Modified
Q1711-02	Q1711-01MS	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	I41	04/02/2025	8270-Modified
Q1711-03	Q1711-01MSD	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	I41	04/02/2025	8270-Modified
Q1711-04	MW-17B-55-040225	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	I41	04/02/2025	8270-Modified
Q1711-07	RMW-05B-89-040225	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	I41	04/02/2025	8270-Modified
Q1711-08	EB01-040225	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	I41	04/02/2025	8270-Modified

Date/Time 04/03/25 13:09
 Raw Sample Received by: R J (Eek) (as)
 Raw Sample Relinquished by: R J (Eek) (as)

Date/Time 04/03/25 13:40
 Raw Sample Received by: R J (Eek) (as)
 Raw Sample Relinquished by: R J (Eek) (as)

Prep Standard - Chemical Standard Summary

Order ID : Q1711
Test : SVOC-SIMGroup1
Prepbatch ID : PB167450,
Sequence ID/Qc Batch ID: BN040325,

Standard ID :
EP2559,EP2565,EP2597,SP6682,SP6683,SP6684,SP6730,SP6731,SP6732,SP6733,SP6734,SP6735,SP6736,SP6738,SP6739,SP6740,SP6755,SP6757,

Chemical ID :
1ul/100ul
sample,E3551,E3657,E3828,E3873,E3874,E3902,E3904,M5173,S10104,S11074,S11495,S11650,S11785,S11831,S11832,S12114,S12142,S12189,S12195,S12208,S12216,S12270,S12328,S12469,S12478,S12517,S12525,S12577,S12651,S12791,S12966,W3112,

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1874	10 N SODIUM HYDROXIDE SOLN	EP2559	11/14/2024	05/14/2025	Rajesh Parikh	Extraction_SC ALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 11/14/2024

FROM 1000.00000ml of W3112 + 400.00000gram of E3657 = Final Quantity: 1000.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
314	1.1 H2SO4 SOLN	EP2565	11/20/2024	05/20/2025	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 11/20/2024

FROM 1000.00000ml of M5173 + 1000.00000ml of W3112 = Final Quantity: 2000.000 ml

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3923	Baked Sodium Sulfate	EP2597	03/28/2025	07/01/2025	Rajesh Parikh	Extraction_SC ALE_2 (EX-SC-2)	None	Evelyn Huang 03/28/2025

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3493	Internal Standard 0.4 PPM	SP6682	11/15/2024	05/09/2025	Jagrut Upadhyay	None	None	Yogesh Patel 12/03/2024

FROM 0.10000ml of S12328 + 4.90000ml of E3828 = Final Quantity: 5.000 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3355	8270-SIM MDL-3.2PPM CALIBRATION STOCK SOL- 2ND	SP6683	11/15/2024	04/10/2025	Jagrut Upadhyay	None	None	Yogesh Patel
SOURCE FROM 0.00630ml of S12189 + 0.01280ml of S12208 + 0.03200ml of S11074 + 0.03200ml of S11831 + 0.06400ml of S12142 + 0.06400ml of S12469 + 0.06400ml of S12517 + 19.72490ml of E3828 = Final Quantity: 20.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3356	8270-SIM MDL-0.4PPM CALIBRATION SOL ICV-2ND	SP6684	11/15/2024	04/10/2025	Jagrut Upadhyay	None	None	Yogesh Patel
SOURCE FROM 0.87500ml of E3828 + 0.01000ml of SP6682 + 0.12500ml of SP6683 = Final Quantity: 1.010 ml								

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3339	8270 sim calibration stock 10ppm (CPI)	SP6730	02/04/2025	05/12/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.03350ml of S10104 + 0.05000ml of S11495 + 0.12500ml of S11832 + 0.12500ml of S12114 + 0.25000ml of S12270 + 0.25000ml of S12791 + 24.16650ml of E3874 = Final Quantity: 25.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3361	8270-SIM MDL-5PPM CALIBRATION SOLUTION	SP6731	02/04/2025	05/09/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.50000ml of E3874 + 0.01000ml of SP6682 + 0.50000ml of SP6730 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3341	8270-SIM MDL-3.2PPM CALIBRATION SOLUTION	SP6732	02/04/2025	05/09/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.68000ml of E3874 + 0.01000ml of SP6682 + 0.32000ml of SP6730 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3344	8270-SIM MDL-1.6PPM CALIBRATION SOLUTION	SP6733	02/04/2025	05/09/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.84000ml of E3874 + 0.01000ml of SP6682 + 0.16000ml of SP6730 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3342	8270-SIM MDL-0.8PPM CALIBRATION SOLUTION	SP6734	02/04/2025	05/09/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.92000ml of E3874 + 0.01000ml of SP6682 + 0.08000ml of SP6730 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3343	8270-SIM MDL-0.4PPM CALIBRATION SOLUTION	SP6735	02/04/2025	05/09/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.96000ml of E3874 + 0.01000ml of SP6682 + 0.04000ml of SP6730 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3345	8270-SIM MDL-0.2PPM CALIBRATION SOLUTION	SP6736	02/04/2025	05/09/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.50000ml of E3874 + 0.01000ml of SP6682 + 0.50000ml of SP6735 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3346	8270-SIM MDL-0.1PPM CALIBRATION SOLUTION	SP6738	02/04/2025	05/09/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.75000ml of E3874 + 0.01000ml of SP6682 + 0.25000ml of SP6735 = Final Quantity: 1.010 ml

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>
3492	8270-SIM-Spike 0.4 PPM	SP6739	02/05/2025	07/29/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025
FROM 0.00080ml of S11650 + 0.01000ml of S11785 + 0.02000ml of S12478 + 0.02000ml of S12525 + 0.02000ml of S12966 + 49.92920ml of E3873 = Final Quantity: 50.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3493	Internal Standard 0.4 PPM	SP6740	02/13/2025	07/30/2025	Rahul Chavli	None	None	Yogesh Patel 02/28/2025
FROM 0.10000ml of S12651 + 4.90000ml of E3874 = Final Quantity: 5.000 ml								

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3491	8270-SIM-Surrogate 0.4 PPM	SP6755	03/20/2025	07/24/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								04/01/2025

FROM 0.00400ml of S12195 + 0.00800ml of S12216 + 0.02000ml of S11832 + 99.96800ml of E3902 = Final Quantity: 100.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3895	50 ug/ml DFTPP 8270E	SP6757	03/31/2025	09/30/2025	Rahul Chavli	None	None	Jagrut Upadhyay
								04/01/2025

FROM 1.00000ml of S12577 + 19.00000ml of E3904 = Final Quantity: 20.000 ml

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	313201	07/01/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19510-5 / Sodium Hydroxide Pellets 2.5 Kg, Pk of 4	23B1556310	12/31/2025	12/04/2023 / Rajesh	12/01/2023 / Rajesh	E3657

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24G0862003	05/09/2025	11/09/2024 / Rajesh	11/04/2024 / Rajesh	E3828

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	07/29/2025	01/29/2025 / Rajesh	01/29/2025 / Rajesh	E3873

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25A0262002	07/30/2025	01/30/2025 / Rajesh	01/20/2025 / Rajesh	E3874

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	09/18/2025	03/18/2025 / RUPESH	02/12/2025 / RUPESH	E3902

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24K1762005	01/07/2026	03/13/2025 /	12/27/2024 / RUPESH	E3904

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-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	07/30/2025	01/30/2025 / anahy	12/09/2021 / Christian	S10104

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0187043	05/15/2025	11/15/2024 / Jagrut	02/06/2023 / Christian	S11074

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110094-02 / CLP Base/Neutral Surrogate Solution, 5000 mg/L, 1ml	506889	05/12/2025	11/12/2024 / Jagrut	08/11/2023 / Yogesh	S11495

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555872 / Custom Standard, pentachlorophenol Std [CS 5328-5]	A0201728	07/29/2025	01/29/2025 / anahy	11/09/2023 / Yogesh	S11650

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	A0196453	07/29/2025	01/29/2025 / anahy	11/21/2023 / Rahul	S11785

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	33913 / SOM01.0 SIM Analysis Standard (Surrogate), 2000 PPM	A0201976	04/11/2025	10/11/2024 / Jagrut	11/21/2023 / rahul	S11831

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	33913 / SOM01.0 SIM Analysis Standard (Surrogate), 2000 PPM	A0201976	07/24/2025	01/24/2025 / anahy	11/21/2023 / rahul	S11832

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-010223-01 / 1,4-Dioxane Solution, 2,000mg/L, 1ml	454157	05/12/2025	11/12/2024 / Jagrut	03/08/2024 / Rahul	S12114

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH ₂ Cl ₂ [New Solvent 100% CH ₂ Cl ₂]	A0203726	04/30/2025	11/14/2024 / anahy	03/15/2024 / Rahul	S12142

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	31087 / Acid Surrogate 10,000ug/ml, methanol, 5ml/ ampul	A0206206	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12195

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml, CH ₂ Cl ₂ , 5ml	A0206381	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	31086 / Base Neutral Surrogate 5000ug/ml, CH ₂ Cl ₂ , 5ml	A0206381	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12216

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-110381-01 / 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1ml	520963	07/30/2025	01/30/2025 / anahy	05/24/2024 / Rahul	S12270

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH ₂ Cl ₂ , 1mL	A0206540	05/13/2025	11/13/2024 / anahy	05/30/2024 / Rahul	S12328

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request]	A0214021	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12469

[CS 4978-1]

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request]	A0214021	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12478

[CS 4978-1]

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at \$85 per ampul if requested - contact ARM with Request]	A0214017	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12517

[CS 4978-2]

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at \$85 per ampul if requested - contact ARM with Request]	A0214017	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12525

[CS 4978-2]

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31615 / SV Mixture, GC/MS Tuning Mixture, CH ₂ Cl ₂ , 1mL,	A0212955	06/30/2027	03/31/2025 / Rahul	08/01/2024 / Rahul	S12577

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH ₂ Cl ₂ , 1mL	A0212266	08/07/2025	02/07/2025 / anahy	09/20/2024 / anahy	S12651

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110816-01 / Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL, (Maximum Expiration: 180 Days)	414127	06/21/2025	01/30/2025 / anahy	05/24/2024 / Rahul	S12791

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH ₂ Cl ₂ [New Solvent 100% CH ₂ Cl ₂]	A0219438	07/29/2025	01/29/2025 / anahy	12/11/2024 / anahy	S12966

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / 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	≤ -10 °C	Methylene Chloride	2/16/2026	CLP Acid Surrogate Solution, 7,500 mg/L, 1 mL
-04					

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
2-chlorophenol-d ₄	93951-73-6	99.3	248.12.7P	7487 ± 17.2
2-fluorophenol	367-12-4	99.8	10.7.3.3P	7513 ± 17.26
phenol-d ₆	13127-88-3	99.9	949.120.8P	7481 ± 17.19
2,4,6-tribromophenol	118-79-6	99.8	12.1.6P	7469 ± 17.17

Received on

02/25/21

by
CG

S9236
to

S9240

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certified By:

Erica Castiglione
Chemist



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received on
02/08/23

b1
CG

S 11071
to
S 11075

Catalog No. : 31853 **Lot No.:** A0187043
Description : 1,4-dioxane
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : July 31, 2027 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	1,4-Dioxane CAS # 123-91-1 Purity 99% (Lot SHBN5929)	2,019.0 µg/mL	+/- 11.8486 µg/mL Gravimetric +/- 43.2570 µg/mL Unstressed +/- 44.5129 µg/mL Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

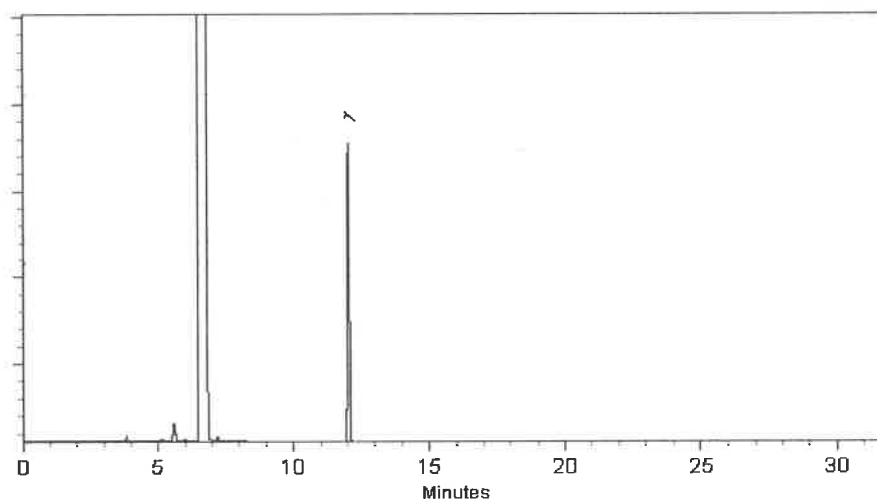
200°C

Det. Temp:

250°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brittany Federinko - Operations Tech I

Date Mixed: 07-Jul-2022

Balance: 1128360905

Marlina Cowan - Operations Tech II ARM QC

Date Passed: 12-Jul-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



**PRODUCTOS
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.

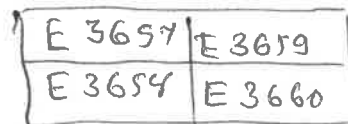
This document has been electronically produced and is valid without a signature.

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.



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

Acetone

BAKER RESI-ANALYZED® Reagent

For Organic Residue Analysis

avantor™



Material No.: 9254-03

Batch No.: 24H2762008

Manufactured Date: 2024-04-18

Expiration Date: 2027-04-18

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (μeq/g)	<= 0.3	0.2
Titration Base (μeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	<0.1 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

Recd. by RP on 1/29/25

E 3873

Jamie Croak

Director Quality Operations, Bioscience Production

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

Avantor

Material No.: 9266-A4
Batch No.: 25A0262002
Manufactured Date: 2024-11-21
Expiration Date: 2026-02-20
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	4
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	99.9%
Color (APHA)	≤ 10	10
Residue after Evaporation	≤ 1.0 ppm	0.8 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	$< 0.01\%$

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3874



Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA, 19087, U.S.A. Phone 610.386.1700

Acetone

BAKER RESI-ANALYZED® Reagent

For Organic Residue Analysis

avantortm

Material No.: 9254-03

Batch No.: 24H2762008

Manufactured Date: 2024-04-18

Expiration Date: 2027-04-18

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (µeq/g)	<= 0.3	0.2
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	<0.1 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E3902

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

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.

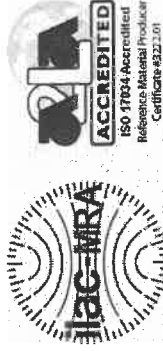


110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis
gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.
This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No.: 555872 Lot No.: A0201728

Description : Custom Pentachlorophenol Standard

Custom Pentachlorophenol Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL Pkg Amt: > 1 mL

Expiration Date : September 30, 2026 Storage: 10°C or colder

Ship: Ambient

511649 } Y.P.
↓ 11/13/23
511658 }

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty* (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP230530RSR	99%	25,000.0 µg/mL	+/- 777.0837

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Josh McCloskey - Operations Technician I

Date Mixed: 05-Sep-2023 Balance: B251644995

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31853 **Lot No.:** A0196453
Description : 1,4-dioxane
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : March 31, 2028 **Storage:** 0°C or colder
Ship: Ambient

S11749
↓
S11794 } RC / 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant flow 1.8 mL/min.

Temp. Program:

80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

Inj. Temp:

250°C

Det. Temp:

340°C

Det. Type:

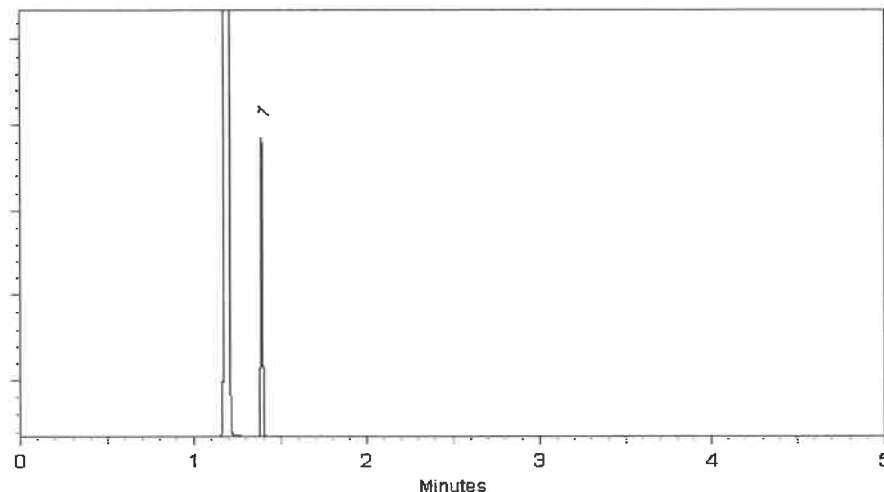
FID

Split Vent:

100 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023

Balance Serial # B707717271

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 33913 **Lot No.:** A0201976

Description : SOM01.0 SIM Analysis Standard
SOM01.0 SIM Analysis Standard 2000µg/mL, Methylene chloride, 1mL /ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S11828
↓
S11832 } RC/
11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Methylnaphthalene-d10	7297-45-2	EF-135	98%	2,015.9 µg/mL	+/- 90.8098
2	Fluoranthene-d10	93951-69-0	PR-32557	99%	2,020.0 µg/mL	+/- 90.9963

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

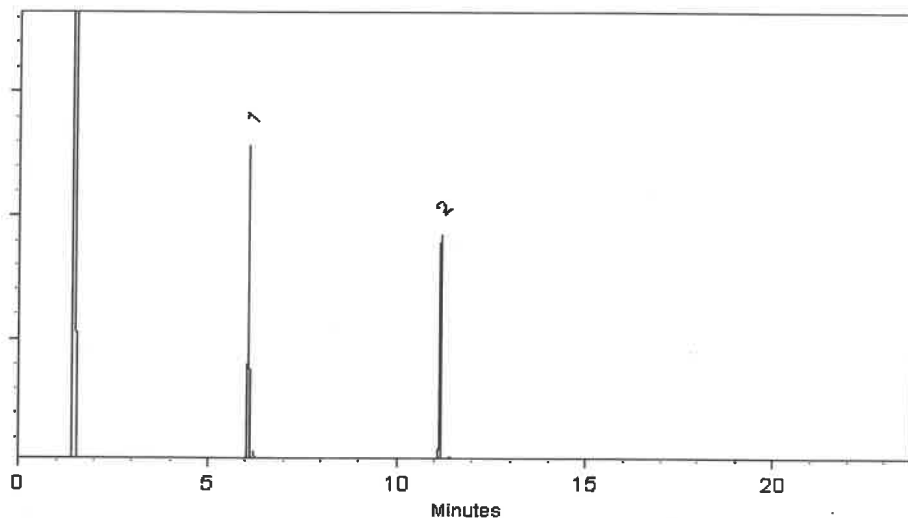
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl

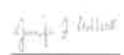


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 13-Sep-2023

Balance Serial # B442140311


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 28-Sep-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 33913 **Lot No.:** A0201976

Description : SOM01.0 SIM Analysis Standard
SOM01.0 SIM Analysis Standard 2000µg/mL, Methylene chloride, 1mL /ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S11828
↓
S11832 } RC/
11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Methylnaphthalene-d10	7297-45-2	EF-135	98%	2,015.9 µg/mL	+/- 90.8098
2	Fluoranthene-d10	93951-69-0	PR-32557	99%	2,020.0 µg/mL	+/- 90.9963

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

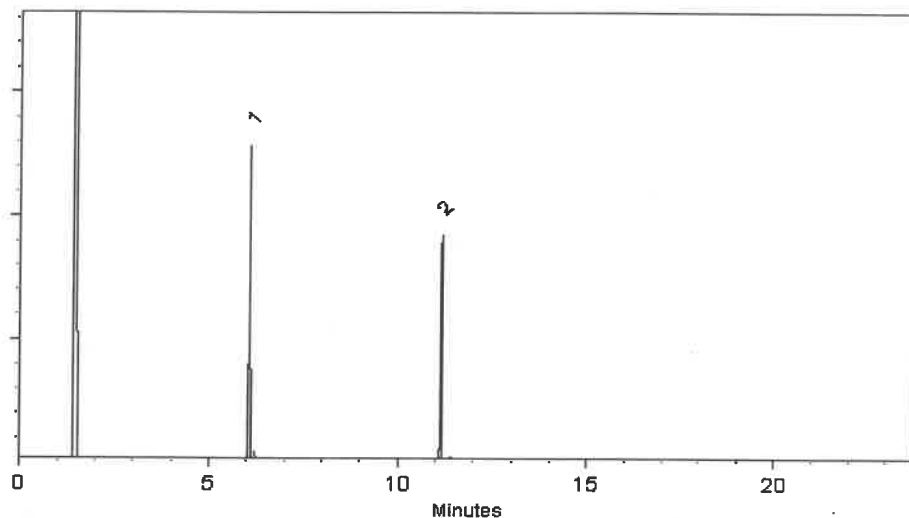
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl

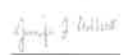


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 13-Sep-2023

Balance Serial # B442140311


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 28-Sep-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:	
Z-020223-01	454157	≤ -10 °C	P/T Methanol	6/10/2026	1,4-Dioxane Solution, 2000 mg/L, 1 mL	
Compound			CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,4-dioxane			123-91-1	100	223.1.3P	1997 ± 57.08

512112 } RC/
↓
912116 } 03/08/24

*Not a certified value

Certified By: _____

Melissa Workoff
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** 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	
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%

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



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31087 **Lot No.:** A0206206
Description : Acid Surrogate Mix (4/89 SOW)
Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : January 31, 2032 **Storage:** 10°C or colder
Ship: Ambient

512187 } RC/
↓
512206 } 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty* (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

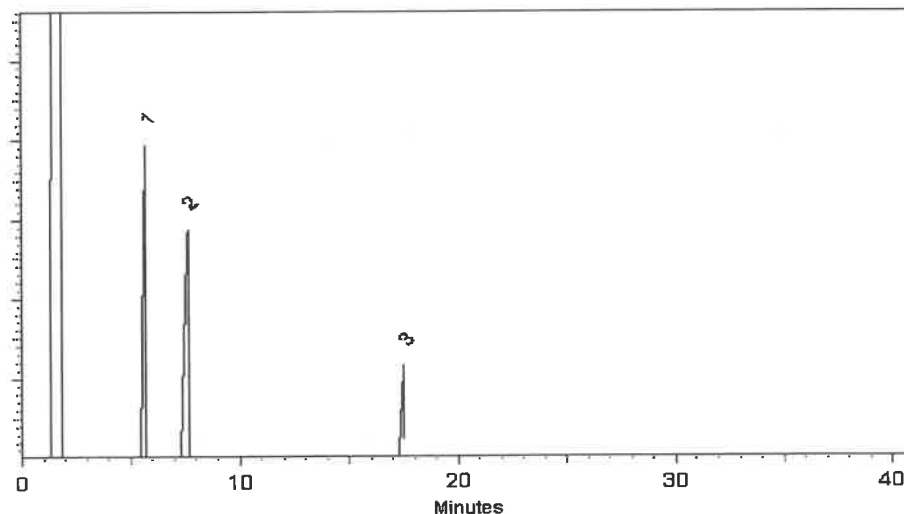
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope A. Riglin

Penelope Riglin - Operations Tech I

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
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31087 **Lot No.:** A0206206
Description : Acid Surrogate Mix (4/89 SOW)
Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : January 31, 2032 **Storage:** 10°C or colder
Ship: Ambient

512187 } RC/
↓
512206 } 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

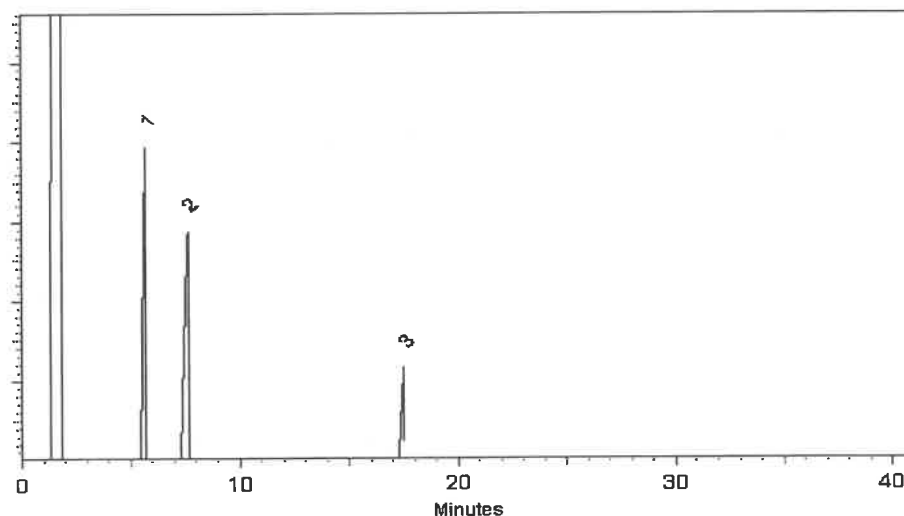
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope A. Riglin

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024

Balance Serial # 1128360905

Christie Mills

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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:

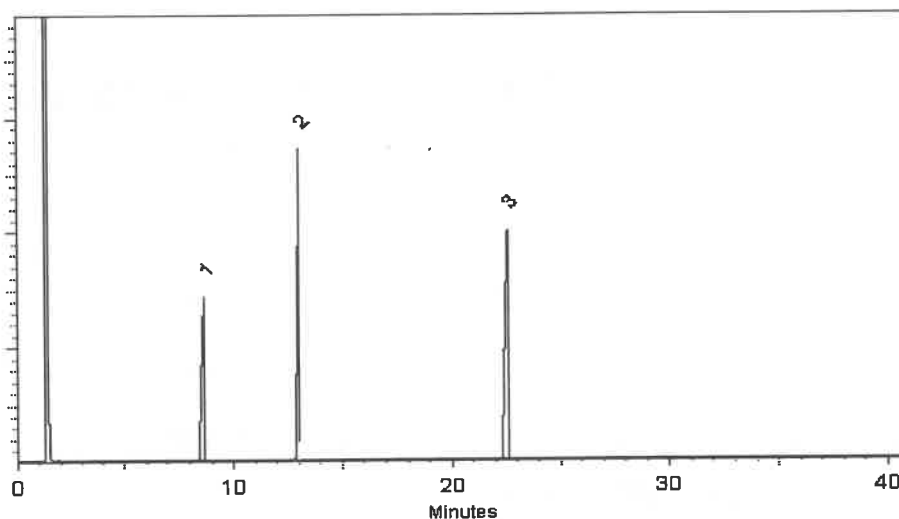
FID

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



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31086 **Lot No.:** A0206381
Description : B/N Surrogate Mix (4/89 SOW)
Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : December 31, 2029 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

S12207 } RC/
↓
S12221 } 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-S (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

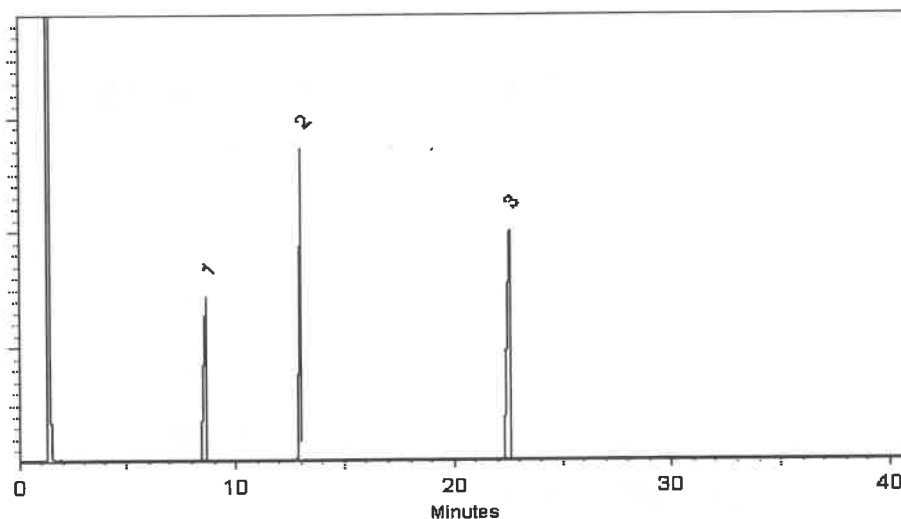
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024

Balance Serial # 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 4

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110381-01	520963	≤ -10 °C	Methylene Chloride	10/10/2028	Method 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
acenaphthene	83-32-9	99.9	13.1.5P	1010 ± 9.89
acenaphthylene	208-96-8	97.6	14.290.1P	1014 ± 9.93
aniline	62-53-3	99.97	64.1.4P	1001 ± 9.8
anthracene	120-12-7	99.5	15.7.1P	999.6 ± 9.79
azobenzene	103-33-3	98.1	252.7.2P	999.1 ± 9.8
benzo[a]anthracene	56-55-3	100	16.7.3P	1007 ± 9.86
benzo[b]fluoranthene	205-99-2	99.8	17.421.3P	1011 ± 14.11
benzo[k]fluoranthene	207-08-9	98.9	18.421.4P	1001 ± 10.96
benzo[ghi]perylene	191-24-2	93	19.286.4P	999.6 ± 13.95
benzo[a]pyrene	50-32-8	97	20.286.2P	999.9 ± 22.24
benzyl alcohol	100-51-6	99.9	65.18.1P	1001 ± 9.82
bis(2-chloroethoxy)methane	111-91-1	99.1	31.3.15P	1000 ± 14.69
bis(2-chloroethyl)ether	111-44-4	99.8	32.7.1P	1003 ± 13.89
bis(2-chloro-1-methylethyl) ether	108-60-1	99.5	34.3.15P	999.4 ± 14.68
bis(2-ethylhexyl)adipate	103-23-1	99.5	874.7.1P	999.5 ± 9.8
bis(2-ethylhexyl)phthalate	117-81-7	99.4	33.29.1P	998.8 ± 17.03
4-bromophenyl phenyl ether	101-55-3	99.4	35.7.1.1P	1000 ± 13.85
butyl benzyl phthalate	85-68-7	98.4	36.1.6P	984.7 ± 16.79
carbazole	86-74-8	99.4	239.7.2P	1000 ± 9.8

*Not a certified value

512270 } RC/
↓
512274 } 05/24/24

Kerry Kane

Certified By: _____

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.

Certificate of Analysis

Page 2 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
4-chloroaniline	106-47-8	100	66.7.1P	1000 ± 9.79
4-chlorophenylphenyl ether	7005-72-3	98	37.158.2P	1001 ± 17.07
4-chloro-3-methylphenol	59-50-7	99	102.1.2P	1006 ± 17.16
2-chloronaphthalene	91-58-7	99.9	42.7.6P	1000 ± 9.79
2-chlorophenol	95-57-8	99.8	103.7.1P	1007 ± 13.96
chrysene	218-01-9	96	21.286.2P	998.4 ± 12.85
dibenz[a,h]anthracene	53-70-3	99.44	22.286.3P	1000 ± 9.74
dibenzofuran	132-64-9	100	67.7.2.1P	1002 ± 9.77
di-n-butyl phthalate	84-74-2	99.84	40.286.1P	1007 ± 24.48
1,2-dichlorobenzene	95-50-1	99.8	43.7.1P	1000 ± 9.79
1,3-dichlorobenzene	541-73-1	99.5	44.1.3P	999.4 ± 9.79
1,4-dichlorobenzene	106-46-7	99.9	45.29.2P	1000 ± 9.79
2,4-dichlorophenol	120-83-2	99.6	104.7.1.1P	1005 ± 13.93
diethyl phthalate	84-66-2	99.8	38.7.1P	1011 ± 14
2,4-dimethylphenol	105-67-9	99.6	105.7.1.1P	1009 ± 13.98
dimethyl phthalate	131-11-3	99.9	39.9.2P	996.5 ± 13.8
1,2-dinitrobenzene	528-29-0	99.86	86.7.3.1P	999.5 ± 9.75
1,3-dinitrobenzene	99-65-0	100	313.7.2P	998 ± 9.79
1,4-dinitrobenzene	100-25-4	100	907.7.1P	999.5 ± 9.8
2,4-dinitrophenol	51-28-5	99.9	106.1.6DP	1002 ± 13.89
2,4-dinitrotoluene	121-14-2	100	87.7.3P	999.8 ± 13.85
2,6-dinitrotoluene	606-20-2	99.4	88.7.2.1P	999.6 ± 13.85
di-n-octyl phthalate	117-84-0	99.1	41.7.5P	991.6 ± 13.74
diphenylamine	122-39-4	100	78.1.6P	998 ± 13.79
2,3,5,6-tetrachlorophenol	935-95-5	97	1112.286.1P	1004 ± 14.02
fluoranthene	206-44-0	98.6	23.7.4P	999.6 ± 9.79
fluorene	86-73-7	98.4	24.7.1P	999.7 ± 9.79

*Not a certified value

Kerry Kane

Certified By:

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certificate of Analysis

Page 3 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
hexachlorobenzene	118-74-1	99	46.158.4P	999.9 ± 13.96
hexachlorobutadiene	87-68-3	97.4	47.1.4P	1000 ± 9.79
hexachlorocyclopentadiene	77-47-4	99.2	48.2.2P	1001 ± 9.8
hexachloroethane	67-72-1	99.9	49.1.4P	1003 ± 9.82
indeno[1,2,3-cd]pyrene	193-39-5	98	25.286.4P	999.4 ± 22.23
isophorone	78-59-1	98.9	90.1.4P	999.9 ± 13.85
2-methyl-4,6-dinitrophenol	534-52-1	99.6	107.421.2DP	991 ± 24.09
1-methylnaphthalene	90-12-0	97.1	249.7.5P	999.2 ± 13.95
2-methylnaphthalene	91-57-6	97.4	68.7.2P	1006 ± 22.38
2-methylphenol	95-48-7	99.6	114.7.3P	1001 ± 13.87
3-methylphenol	108-39-4	99.1	115.7.4P	499.7 ± 6.92
4-methylphenol	106-44-5	99.5	116.7.1P	501.2 ± 6.94
naphthalene	91-20-3	99.8	26.9.1P	1018 ± 9.97
2-nitroaniline	88-74-4	99.7	69.29.1P	999.6 ± 9.79
3-nitroaniline	99-09-2	100	70.7.3P	1000 ± 9.74
4-nitroaniline	100-01-6	99.7	71.29.1P	1001 ± 9.8
nitrobenzene	98-95-3	100	94.7.1P	1000 ± 13.85
2-nitrophenol	88-75-5	99.1	108.29.1P	996.5 ± 13.81
4-nitrophenol	100-02-7	100	109.7.1P	1000 ± 13.82
N-nitrosodimethylamine	62-75-9	99.5	57.3.19P	998.5 ± 14.67
N-nitrosodi-n-propylamine	621-64-7	99.8	59.286.1P	996.8 ± 17
pentachlorophenol	87-86-5	99	110.1.7P	1004 ± 13.92
phenanthrene	85-01-8	99.7	27.1.5P	999 ± 12.87
phenol	108-95-2	100	112.7.1P	998.5 ± 13.8
pyrene	129-00-0	99.2	28.9.2P	998.9 ± 9.78
pyridine	110-86-1	100	101.24.1P	999 ± 9.73
2,3,4,6-Tetrachlorophenol	58-90-2	91.8	120.421.1P	996.5 ± 13.92

*Not a certified value

Kerry Kane

Certified By:

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certificate of Analysis

Page 4 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2,4-trichlorobenzene	120-82-1	99.6	54.29.1P	999.6 ± 9.79
2,4,5-trichlorophenol	95-95-4	96.5	121.7.1.1P	999.5 ± 13.85
2,4,6-trichlorophenol	88-06-2	99.6	113.7.1P	996 ± 13.8

*Not a certified value

Kerry E Kane

Certified By:

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31206 **Lot No.:** A0206540

Description : SV Internal Standard Mix 2mg/ml
SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12312 } RC/
↓ 05/30/24
S12331 }

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,007.1 µg/mL	+/- 90.4025
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,005.9 µg/mL	+/- 90.3454
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,007.9 µg/mL	+/- 90.4385
4	Phenanthrene-d10	1517-22-2	PR-32303	99%	2,006.7 µg/mL	+/- 90.3845
5	Chrysene-d12	1719-03-5	PR-32210	99%	2,015.5 µg/mL	+/- 90.7778
6	Perylene-d12	1520-96-3	PR-33205	99%	2,014.7 µg/mL	+/- 90.7448

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

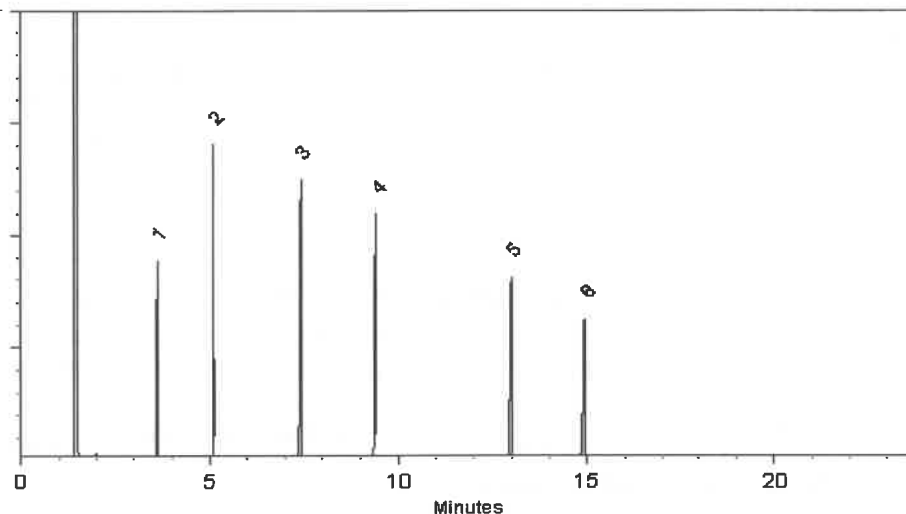
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Malina Homan
Malina Homan - Operations Technician I

Date Mixed: 12-Jan-2024

Balance Serial # 1128360905

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Jan-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1
Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 } RC/
↓
S12508 } 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024

Balance: 1128353505

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1
Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 } RC/
↓
S12508 } 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024

Balance: 1128353505

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 } RC/
↓
S12568 } 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024

Balance: 1128360905

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 } RC/
↓
S12568 } 7/24/24


Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024

Balance: 1128360905

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31615 **Lot No.:** A0212955
Description : GC/MS Tuning Mixture
GC/MS Tuning Mixture 1,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : June 30, 2027 **Storage:** 10°C or colder
Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,004.5 µg/mL	+/- 44.8902
2	DFTPP (Decafluorotriphenylphosphine)	5074-71-5	Q117-147	99%	1,004.5 µg/mL	+/- 44.8902
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 44.9572
4	4,4'-DDT	50-29-3	S240530RSR	97%	1,000.1 µg/mL	+/- 44.6922

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12577 } RC
↓
S12579 } 8/2/24

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

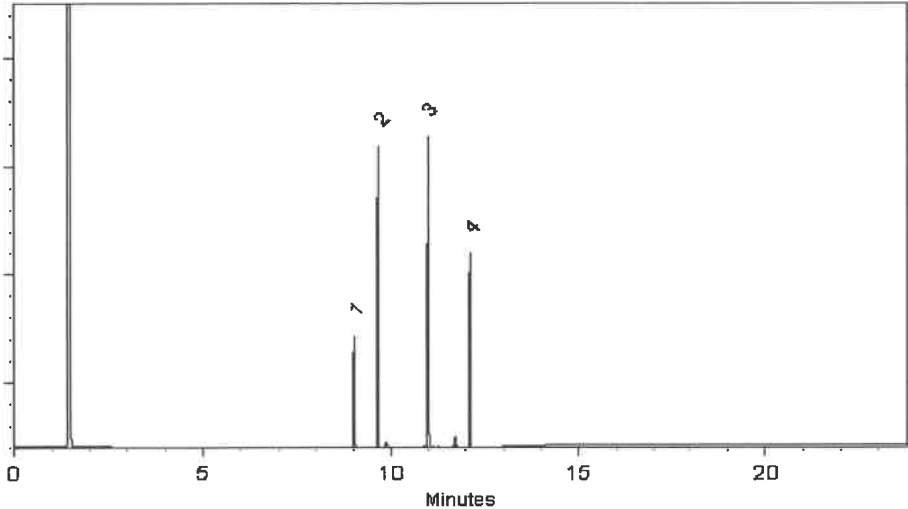
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

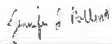
Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Ethan Winiarski - Operations Tech I

Date Mixed: 19-Jun-2024 Balance Serial # 1128353505


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 26-Jun-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31206 **Lot No.:** A0212266

Description : SV Internal Standard Mix 2mg/ml
SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,000.6 µg/mL	+/- 90.1075
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,000.3 µg/mL	+/- 90.0925
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,000.4 µg/mL	+/- 90.1000
4	Phenanthrene-d10	1517-22-2	PR-34099	99%	2,000.5 µg/mL	+/- 90.1037
5	Chrysene-d12	1719-03-5	PR-33506	99%	2,000.7 µg/mL	+/- 90.1112
6	Perylene-d12	1520-96-3	PR-33205	99%	2,000.6 µg/mL	+/- 90.1075

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12645
↓
S12674 } AC
10/1/24



5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110816-01	414127	≤ -10 °C	Methylene Chloride	6/21/2025	Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
atrazine	1912-24-9	99.5	337.7.3P	997 ± 5.81
benzidine	92-87-5	99.9	124.18.6.2P	991.8 ± 5.77
caprolactam	105-60-2	99.9	271.1.6P	999 ± 5.82

~~512280~~ } RCL
↓
~~512284~~ } 05/24/24

New Numbers Generated.

512790 } RCL
↓
512794 } 11/12/24

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: _____

Shane Overcash
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0219438

Description : 8270 MegaMix®
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12963
↓
S12992 } AC
12/17/20

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,008.3 µg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 µg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 µg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 µg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 µg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 µg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 µg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 µg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 µg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 µg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 µg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 µg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 µg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 µg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 µg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 µg/mL	+/- 36.4757

18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	µg/mL	+/- 36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	µg/mL	+/- 36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	µg/mL	+/- 36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	µg/mL	+/- 36.6257
22	2,4-Dichlorophenol	120-83-2	BCKK6969	99%	1,001.5	µg/mL	+/- 36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	µg/mL	+/- 36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	µg/mL	+/- 36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	µg/mL	+/- 36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	µg/mL	+/- 36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	µg/mL	+/- 36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	µg/mL	+/- 36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	µg/mL	+/- 36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	µg/mL	+/- 36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	µg/mL	+/- 36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	µg/mL	+/- 36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	µg/mL	+/- 36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	µg/mL	+/- 36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	µg/mL	+/- 36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	µg/mL	+/- 36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	µg/mL	+/- 36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	µg/mL	+/- 36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	µg/mL	+/- 36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	----%	1,005.6	µg/mL	+/- 36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	µg/mL	+/- 36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	µg/mL	+/- 36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	µg/mL	+/- 36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	µg/mL	+/- 36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	µg/mL	+/- 36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	µg/mL	+/- 36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	µg/mL	+/- 36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	µg/mL	+/- 36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	µg/mL	+/- 36.6257
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	µg/mL	+/- 36.4302

54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	µg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCKK0887	99%	1,002.4	µg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	µg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	µg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	µg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	µg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	µg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	µg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	µg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	µg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCKK2592	99%	1,002.0	µg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	µg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	µg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	µg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	µg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	µg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	µg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	µg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	µg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	µg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	µg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	µg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	µg/mL	+/- 36.5217

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:

N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

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



SHIPPING DOCUMENTS

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

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: Jacobs
ADDRESS: 412 Mt Kemble Ave Suite # 100
CITY Morrisstown STATE: NJ ZIP: 07960
ATTENTION: John Yufank John.Yufank@Jacobs.com
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: STC PTE
PROJECT NO.: 03868221 LOCATION: Princeton Junction
PROJECT MANAGER: Mary Murphy
e-mail: PM Pgt Mary.Murphy@Jacobs.com
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: Mary Murphy PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) Rush TAT (2 day) DAYS*
HARDCOPY (DATA PACKAGE): DAYS*
EDD: DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B
+ Raw Data ☐ Other
☐ EDD FORMAT

1. Site Specific VOCs (SM2320B)
2. 1st Diurnal (SM2320B)
3. Total 15 Metals (SM2320B)
4. Dissolved Iron (60208)
5. Alkalinity (SM2320B)
6. TDS (SM2320B)
7. Anions (9050)
8. Trace VOCs (SEAMOL-1-SIM)
9.

PRESERVATIVES

COMMENTS

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES								COMMENTS	
			COMP	GRAB	DATE	TIME		A/E	E	B/E	E	E	E	E	A/E	← Specify Preservatives A-HCl D-NaOH B-HNO3 E-ICE C-H2SO4 F-OTHER	
1.	MW-18B-56-040225	GW		✓	4/2/25	1235	2	✓	✓	✓	✓	✓	✓	✓	✓	MS/MSD !! (27 bottles)	
2.	MW-17B-55-040225	GW		✓	4/2/25	1535	2	✓	✓	✓	✓	✓	✓	✓	✓	9 bottles	
3.	MW-18B-56-040225-SIM	GW		✓	4/2/25	1235	2										
4.	MW-17B-55-040225-SIM	GW		✓	4/2/25	1535	2										
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER: 1. <u>HAL</u>	DATE/TIME: 4-2-25 1650	RECEIVED BY: 1. <u>[Signature]</u> 4-2-25 1650	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP <u>3.06</u> °C Comments: <u>See work order for list of site specific VOCs</u> <u>PRESERVE DISSOLVE IRON SAMPLES UPON ARRIVAL TO THE LAB</u> <u>PO # 148064311</u> <u>Temp 3.0°C C Adjusted Factor +1.0 IR Gun #1.</u>
RELINQUISHED BY SAMPLER: 2. <u>[Signature]</u>	DATE/TIME:	RECEIVED BY: 2. <u>[Signature]</u>	
RELINQUISHED BY SAMPLER: 3. <u>[Signature]</u>	DATE/TIME: 4-2-25 1825	RECEIVED BY: 3. <u>[Signature]</u>	

Page 1 of 2

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete

☐ YES ☐ NO

Q1711

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: Jacobs
ADDRESS: 412 Mt Kemble Ave Suite 100
CITY: Morristown STATE: NJ ZIP: 07960
ATTENTION: John Yufante John.Yufante@Jacobs.com
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: STC PTC
PROJECT NO.: D386821 LOCATION: Princeton Junction
PROJECT MANAGER: Mary Murphy
e-mail: Mary.Murphy@Jacobs.com
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: Mary Murphy PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) Standard TAT DAYS*
HARDCOPY (DATA PACKAGE): DAYS*
EDD: DAYS*

*TO BE APPROVED BY CHEMTECH

STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☒ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B
+ Raw Data ☐ Other
☐ EDD FORMAT

1. Site Spec VOC (1600-1605)
2. A/D DW (16270E-SIM)
3. Trace VOCs
4. Total Metals (SPM101-SIM)
5. Dissolved Metals (1600B)
6. Alkalinity (1600B)
7. TDS (SPM220B)
8. Ammonia (16050)

PRESERVATIVES

COMMENTS

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES								COMMENTS ← Specify Preservatives A-HCl D-NaOH B-HNO3 E-ICE C-H2SO4 F-OTHER
			COMP	GRAB	DATE	TIME		A/E	E	A/E	B/E	E	E	E	E	
1.	RMW-05B-89-040225	GW		✓	4/2/25	1605	4	✓	✓	✓	✓	✓	✓	✓	✓	
2.	EB01-040225	DI		✓	4/2/25	1550	9	✓	✓		✓	✓	✓	✓	✓	
3.	EB01-040225-SIM	DI		✓	4/2/25	1550	2			✓						
4.	TB01-040225	DI		✓	4/2/25	1600	2	✓								
5.																
6.																
7.																
8.																
9.																
10.																

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER: 1. [Signature]	DATE/TIME: 4-2-25 1650	RECEIVED BY: 1. [Signature] 1650	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.0 °C
RELINQUISHED BY SAMPLER: 2. [Signature]	DATE/TIME:	RECEIVED BY: 2. [Signature]	Comments: see work order for list of site specific VOCs
RELINQUISHED BY SAMPLER: 3. [Signature]	DATE/TIME: 1825	RECEIVED BY: 3. [Signature]	Temp 3.0°C (Adjusted Factor +1) IR Gun #1.

From: Ynfante, John <John.Ynfante@jacobs.com>
Sent: Friday, April 04, 2025 12:54 PM
To: Yazmeen Gomez; Mohammad Ahmed
Subject: RE: Princeton SIM/no-SIM

EXTERNAL EMAIL - This email was sent by a person from outside your organization. Exercise caution when clicking links, opening attachments or taking further action, before validating its authenticity.

Secured by Check Point

Thanks Yazmeen, but like I mentioned yesterday if you aren't able to analyze any of those 3 normal samples by SIM then I have no need for the EB to be analyzed by SIM either so please just cancel that SIM EB. I will already have EB data for VOCs from the EB you ran (or are running) by your routine low 8260D.

From: Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>
Sent: Friday, April 4, 2025 11:51 AM
To: Ynfante, John <John.Ynfante@jacobs.com>; Mohammad Ahmed <mohammad.ahmed@alliancetg.com>
Subject: [EXTERNAL] RE: Princeton SIM/no-SIM

John,

Please see attached. SIM analysis is also not possible for MW-18B and MW-17B.

However, "EB01-040225-SIM" will be analyzed with SIM.

Best Regards,



Yazmeen Gomez
Sr. Project Manager
An Alliance Technical Group Company
Main: 908-789-8900
Direct: 908-728-3147
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com     

From: Ynfante, John <John.Ynfante@jacobs.com>
Sent: Thursday, April 3, 2025 6:27 PM
To: Mohammad Ahmed <mohammad.ahmed@alliancetg.com>; Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>
Subject: RE: Princeton SIM/no-SIM

EXTERNAL EMAIL - This email was sent by a person from outside your organization. Exercise caution when clicking links, opening attachments or taking further action, before validating its authenticity.

Ok thanks for the confirmation Mohammad

From: Mohammad Ahmed <mohammad.ahmed@alliancetg.com>

Sent: Thursday, April 3, 2025 5:22 PM

To: Ynfante, John <John.Ynfante@jacobs.com>; Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>

Subject: [EXTERNAL] Re: Princeton SIM/no-SIM

Hi John ,

I will let you know about other 2 samples regarding SIM .

1 8oz jar is enough to run Total metals and SPLP

Get [Outlook for iOS](#)

From: Ynfante, John <John.Ynfante@jacobs.com>

Sent: Thursday, April 3, 2025 5:55:35 PM

To: Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>; Mohammad Ahmed <mohammad.ahmed@alliancetg.com>

Subject: Princeton SIM/no-SIM

EXTERNAL EMAIL - This email was sent by a person from outside your organization. Exercise caution when clicking links, opening attachments or taking further action, before validating its authenticity.

Secured by Check Point

Hi Yazmeen and Mohammad, a few things:

After speaking with Mohammad I understand that the full scan 8260D run for the MW-17B sample had ~11ppm of TCE and high concs of other VOCs as well so you won't be able to run SIM on it – I understand the limitations and have passed that update on to the team so that is fine. There should also be SIM samples collected for 2 more samples - MW-18B and MW-19B so please let me know if your standard 8260 run shows similar concentrations on those as well. Note that these 3 samples are in a completely different location from the rest of the samples and their concentrations shouldn't necessarily represent the levels we will see for other samples – I understand if you have to dilute these high-conc samples I just don't want to over-dilute other samples unnecessarily.

Also, if you don't end up running any of the 3 SFAM-SIM samples then we have no need for that SIM equipment blank to be analyzed either so you can cancel that unless MW-18B or MW-19B turn out to be low enough to be able to be run by SIM in which case I would want the SIM EB.

Finally, for the soil samples we are collecting next week the client decided today that we should also collect for SPLP silver and place it on hold pending the total silver results – I believe you sent 8oz jars for the total silver so that should be plenty to cover the initial silver analysis and then still have enough for SPLP Silver if we need to run it right? Or do you prefer a completely separate jar for the SPLP Ag?

John Ynfante
Jacobs
Chemist
281-414-1719 mobile
John.Ynfante@jacobs.com
www.jacobs.com

NOTICE - This communication may contain confidential and privileged information that is for the sole use of the intended recipient. Any viewing, copying or distribution of, or reliance on this message by unintended recipients is strictly prohibited. If you have received this message in error, please notify us immediately by replying to the message and deleting it from your computer.

NOTICE - This communication may contain confidential and privileged information that is for the sole use of the intended recipient. Any viewing, copying or distribution of, or reliance on this message by unintended recipients is strictly prohibited. If you have received this message in error, please notify us immediately by replying to the message and deleting it from your computer.

NOTICE - This communication may contain confidential and privileged information that is for the sole use of the intended recipient. Any viewing, copying or distribution of, or reliance on this message by unintended recipients is strictly prohibited. If you have received this message in error, please notify us immediately by replying to the message and deleting it from your computer.

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

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1711	JACO05	Order Date : 4/3/2025 10:00:00 AM	Project Mgr :
Client Name : JACOBS Engineering Grou		Project Name : Former Schlumberger STC	Report Type : Level 4
Client Contact : John Ynfante		Receive DateTime : 4/2/2025 6:25:00 PM	EDD Type : CH2MHILL
Invoice Name : JACOBS Engineering Grou		Purchase Order :	Hard Copy Date :
Invoice Contact : John Ynfante			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q1711-01	MW-18B-56-040225	Water	04/02/2025	12:35					
					VOCMS Group3		8260-Low	2 Bus. Days	
Q1711-02	Q1711-01MS	Water	04/02/2025	12:35					
					VOCMS Group3		8260-Low	2 Bus. Days	
Q1711-03	Q1711-01MSD	Water	04/02/2025	12:35					
					VOCMS Group3		8260-Low	2 Bus. Days	
Q1711-04	MW-17B-55-040225	Water	04/02/2025	15:35					
					VOCMS Group3		8260-Low	2 Bus. Days	
Q1711-05	MW-18B-56-040225-SIM	Water	04/02/2025	12:35	VOC-TRACE-SFAM		SFAM_Trace	2 Bus. Days	
Q1711-06	MW-17B-56-040225-SIM	Water	04/02/2025	15:35	VOC-TRACE-SFAM		SFAM_Trace	2 Bus. Days	
Q1711-07	RMW-05B-89-040225	Water	04/02/2025	16:05					
					VOCMS Group3		8260-Low	2 Bus. Days	
Q1711-08	EB01-040225	Water	04/02/2025	15:50					

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1711	JACO05	Order Date : 4/3/2025 10:00:00 AM	Project Mgr :
Client Name : JACOBS Engineering Grou		Project Name : Former Schlumberger STC	Report Type : Level 4
Client Contact : John Ynfante		Receive DateTime : 4/2/2025 6:25:00 PM	EDD Type : CH2MHILL
Invoice Name : JACOBS Engineering Grou		Purchase Order :	Hard Copy Date :
Invoice Contact : John Ynfante			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
					VOCMS Group3		8260-Low		2 Bus. Days
Q1711-09	EB01-040225-SIM	Water	04/02/2025	15:50					
					VOC-TRACE-SFAM		SFAM_Trace		2 Bus. Days
Q1711-10	TB01-040225	Water	04/02/2025	16:00					
					VOCMS Group3		8260-Low		2 Bus. Days

Relinquished By :

Date / Time :

af
4.3.25 1225

Received By :

Date / Time :

[Signature]
4.3.25 1225

Storage Area : VOA Refridgerator Room