

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 : Q1501

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-16B-87.5-030425	24
10.2) MW-16B-87.5-030425-FD	36
10.3) EB01-030525	48
10.3.1) BR-05-465-030525	59
11) Calibration Data Summary	70
11.1) Initial Calibration Data	3
11.1.1) BN021025	71
11.2) Continued Calibration Data	258
11.2.1) BN036534.D	258
12) QC Sample Data	284
12.1) Tune Raw Data	285
12.2) Method Blank Data	293
12.3) LCS Data	303
12.4) MS Data	327
12.5) MSD Data	350
13) Manual Integration	373
14) Analytical Runlogs	375
15) Extraction Logs	379
15.1) PB167006.pdf	379

Table Of Contents for Q1501

15.2) PB167006IC.pdf	381
16) Standard Prep Logs	382
17) Shipping Document	456
17.1) Chain Of Custody	457
17.2) Lab Certificate	458
17.3) Internal COC	459

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

Cover Page

Order ID : Q1501

Project ID : Former Schlumberger STC PTC Site # D3868221

Client : JACOBS Engineering Group, Inc.

Lab Sample Number

Q1501-01
Q1501-02
Q1501-03
Q1501-04
Q1501-05
Q1501-06
Q1501-07

Client Sample Number

MW-16B-87.5-030425
MW-16B-87.5-030425-FD
EB01-030525
BR-05-465-030525
BR-05-465-030525MS
BR-05-465-030525MSD
TB01-030525

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

Signature : _____

Date: 3/10/2025

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 # Q1501

Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:

7 Water samples were received on 03/05/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: SVOC-SIMGroup1 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 except MW-16B-87.5-030425-FD [Terphenyl-d14 - 132%], BR-05-465-030525 [Terphenyl-d14 - 135%], BR-05-465-030525MS [2-Fluorobiphenyl - 146%, Terphenyl-d14 - 148%], BR-05-465-030525MSD [2-Fluorobiphenyl - 138%, and Terphenyl-d14 - 139%], these compounds did not meet the NJDKQP criteria but met the in-house criteria, while for PB167006BS [2-Fluorobiphenyl - 157%], this compound did not meet the NJDKQP criteria and in-house criteria but the failure surrogates not associated with the client parameters list, therefore no corrective action was taken.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The MS recoveries met the requirements for all compounds .

The MSD recoveries met the acceptable requirements .

The RPD met criteria .

The Blank Spike met requirements for all samples .

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

The Initial Calibration met the requirements .



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The Continuous Calibration File ID BN036534.D met the requirements except for 2,4,6-Tribromophenol, 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 <15% 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 > 15% 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: Q1501

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 BN036534.D met the requirements except for 2,4,6-Tribromophenol, 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 except MW-16B-87.5-030425-FD [Terphenyl-d14 - 132%], BR-05-465-030525 [Terphenyl-d14 - 135%], BR-05-465- 030525MS [2-Fluorobiphenyl - 146%, Terphenyl-d14 - 148%], BR-05-465- 030525MSD [2-Fluorobiphenyl - 138%, and Terphenyl-d14 - 139%],these compounds did not meet the NJDKQP criteria but met the in-house criteria, while for PB167006BS [2-Fluorobiphenyl - 157%], this compound did not meet the NJDKQP criteria and in- house criteria but the failure surrogates not associated with the client parameters list, therefore no corrective action was taken.		✓	
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range. The Blank Spike met requirements for all samples .			✓

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 <15% 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 > 15% for the Initial Calibration curve for SW-846 analysis.

QA REVIEW

Date

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1501

Completed

For thorough review, the report must have the following:

GENERAL:

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

✓

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

✓

Is the chain of custody signed and complete

✓

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

✓

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

✓

COVER PAGE:

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

✓

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

✓

CHAIN OF CUSTODY:

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

✓

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

✓

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

✓

Were the samples received within hold time

✓

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

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 03/10/2025

LAB CHRONICLE

OrderID:	Q1501	OrderDate:	3/5/2025 3:36:00 PM
Client:	JACOBS Engineering Group, Inc.	Project:	Former Schlumberger STC PTC Site # D3868221
Contact:	John Ynfante	Location:	I21,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1501-01	MW-16B-87.5-030425	Water	SVOC-SIMGroup1	8270-Modified	03/04/25	03/06/25	03/06/25	03/05/25
Q1501-02	MW-16B-87.5-030425 -FD	Water	SVOC-SIMGroup1	8270-Modified	03/04/25	03/06/25	03/06/25	03/05/25
Q1501-03	EB01-030525	Water	SVOC-SIMGroup1	8270-Modified	03/05/25	03/06/25	03/06/25	03/05/25
Q1501-04	BR-05-465-030525	Water	SVOC-SIMGroup1	8270-Modified	03/05/25	03/06/25	03/06/25	03/05/25

Hit Summary Sheet SW-846

SDG No.: Q1501

Client: JACOBS Engineering Group, Inc.

Sample ID	Client ID	Parameter	Concentration	C	MDL	RDL	Units
Client ID : MW-16B-87.5-030425							
Q1501-01	MW-16B-87.5-030425	WATER	1,4-Dioxane	0.440	0.07	0.21	ug/L
			Total Svoc :	0.44			
			Total Concentration:	0.44			
Client ID : MW-16B-87.5-030425-FD							
Q1501-02	MW-16B-87.5-030425-FI	WATER	1,4-Dioxane	0.170	J 0.07	0.2	ug/L
			Total Svoc :	0.17			
			Total Concentration:	0.17			
Client ID : BR-05-465-030525							
Q1501-04	BR-05-465-030525	WATER	1,4-Dioxane	0.330	0.07	0.21	ug/L
			Total Svoc :	0.33			
			Total Concentration:	0.33			



QC SUMMARY

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Surrogate Summary

SW-846

SDG No.: Q1501

Client: JACOBS Engineering Group, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB167006BL	PB167006BL	2-Methylnaphthalene-d10	0.4	0.37	93		30 (20)	150 (139)
		Fluoranthene-d10	0.4	0.45	111		30 (30)	150 (150)
		Nitrobenzene-d5	0.4	0.41	102		30 (27)	130 (154)
		2-Fluorobiphenyl	0.4	0.38	94		30 (25)	130 (149)
		Terphenyl-d14	0.4	0.45	112		30 (54)	130 (175)
PB167006BS	PB167006BS	2-Methylnaphthalene-d10	0.4	0.48	120		30 (20)	150 (139)
		Fluoranthene-d10	0.4	0.38	95		30 (30)	150 (150)
		Nitrobenzene-d5	0.4	0.40	100		30 (27)	130 (154)
		2-Fluorobiphenyl	0.4	0.63	157	*	30 (25)	130 (149)
		Terphenyl-d14	0.4	0.46	115		30 (54)	130 (175)
Q1501-01	MW-16B-87.5-030425	2-Methylnaphthalene-d10	0.4	0.35	87		30 (20)	150 (139)
		Fluoranthene-d10	0.4	0.44	110		30 (30)	150 (150)
		Nitrobenzene-d5	0.4	0.36	90		30 (27)	130 (154)
		2-Fluorobiphenyl	0.4	0.52	130		30 (25)	130 (149)
		Terphenyl-d14	0.4	0.52	130		30 (54)	130 (175)
Q1501-02	MW-16B-87.5-030425-FD	2-Methylnaphthalene-d10	0.4	0.32	80		30 (20)	150 (139)
		Fluoranthene-d10	0.4	0.44	110		30 (30)	150 (150)
		Nitrobenzene-d5	0.4	0.34	86		30 (27)	130 (154)
		2-Fluorobiphenyl	0.4	0.47	118		30 (25)	130 (149)
		Terphenyl-d14	0.4	0.53	132	*	30 (54)	130 (175)
Q1501-03	EB01-030525	2-Methylnaphthalene-d10	0.4	0.33	83		30 (20)	150 (139)
		Fluoranthene-d10	0.4	0.43	108		30 (30)	150 (150)
		Nitrobenzene-d5	0.4	0.32	79		30 (27)	130 (154)
		2-Fluorobiphenyl	0.4	0.43	107		30 (25)	130 (149)
		Terphenyl-d14	0.4	0.51	127		30 (54)	130 (175)
Q1501-04	BR-05-465-030525	2-Methylnaphthalene-d10	0.4	0.30	75		30 (20)	150 (139)
		Fluoranthene-d10	0.4	0.42	105		30 (30)	150 (150)
		Nitrobenzene-d5	0.4	0.32	81		30 (27)	130 (154)
		2-Fluorobiphenyl	0.4	0.51	128		30 (25)	130 (149)
		Terphenyl-d14	0.4	0.54	135	*	30 (54)	130 (175)
Q1501-05MS	BR-05-465-030525MS	2-Methylnaphthalene-d10	0.4	0.32	80		30 (20)	150 (139)
		Fluoranthene-d10	0.4	0.44	110		30 (30)	150 (150)
		Nitrobenzene-d5	0.4	0.36	90		30 (27)	130 (154)
		2-Fluorobiphenyl	0.4	0.58	146	*	30 (25)	130 (149)
		Terphenyl-d14	0.4	0.59	148	*	30 (54)	130 (175)
Q1501-06MSD	BR-05-465-030525MSD	2-Methylnaphthalene-d10	0.4	0.31	77		30 (20)	150 (139)
		Fluoranthene-d10	0.4	0.42	106		30 (30)	150 (150)
		Nitrobenzene-d5	0.4	0.35	88		30 (27)	130 (154)
		2-Fluorobiphenyl	0.4	0.55	138	*	30 (25)	130 (149)
		Terphenyl-d14	0.4	0.56	139	*	30 (54)	130 (175)

() = LABORATORY INHOUSE LIMIT

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1501

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:	Q1501-05MS	Client Sample ID:	BR-05-465-030525MS					DataFile:	BN036537.D		
1,4-Dioxane	0.41	0.33	0.85	ug/L	127				20 (10)	160 (175)	

() = LABORATORY INHOUSE LIMIT

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1501

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:	Q1501-06MSD	Client Sample ID:	BR-05-465-030525MSD					DataFile:	BN036538.D		
1,4-Dioxane	0.41	0.33	0.79	ug/L	112		13		20 (10)	160 (175)	20 (20)

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1501

Client: JACOBS Engineering Group, Inc.

Analytical Method: 8270-Modified DataFile: BN036542.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB167006BS	1,4-Dioxane	0.4	0.38	ug/L	95				20 (42)	160 (127)	

() = LABORATORY INHOUSE LIMIT

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167006BL

Lab Name: CHEMTECH

Contract: JACO05

Lab Code: CHEM Case No.: Q1501

SAS No.: Q1501 SDG NO.: Q1501

Lab File ID: BN036535.D

Lab Sample ID: PB167006BL

Instrument ID: BNA_N

Date Extracted: 03/06/2025

Matrix: (soil/water) Water

Date Analyzed: 03/06/2025

Level: (low/med) LOW

Time Analyzed: 14:48

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB167006BS	PB167006BS	BN036542.D	03/06/2025
BR-05-465-030525	Q1501-04	BN036536.D	03/06/2025
MW-16B-87.5-030425-FD	Q1501-02	BN036539.D	03/06/2025
EB01-030525	Q1501-03	BN036540.D	03/06/2025
MW-16B-87.5-030425	Q1501-01	BN036541.D	03/06/2025
BR-05-465-030525MS	Q1501-05MS	BN036537.D	03/06/2025
BR-05-465-030525MSD	Q1501-06MSD	BN036538.D	03/06/2025

COMMENTS: _____



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: JAC005Lab Code: CHEMSAS No.: Q1501SDG NO.: Q1501Lab File ID: BN036408.DDFTPP Injection Date: 02/10/2025Instrument ID: BNA_NDFTPP Injection Time: 11:46

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	51.4
68	Less than 2.0% of mass 69	0.3 (0.7) 1
69	Mass 69 relative abundance	47.7
70	Less than 2.0% of mass 69	0.3 (0.6) 1
127	10.0 - 80.0% of mass 198	48.3
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7
275	10.0 - 60.0% of mass 198	24.7
365	Greater than 1% of mass 198	3.3
441	Present, but less than mass 443	7.1
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	10.5 (20.1) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC0.1	SSTDICC0.1	BN036409.D	02/10/2025	12:25
SSTDICC0.2	SSTDICC0.2	BN036410.D	02/10/2025	13:01
SSTDICCC0.4	SSTDICCC0.4	BN036411.D	02/10/2025	13:36
SSTDICC0.8	SSTDICC0.8	BN036412.D	02/10/2025	14:12
SSTDICC1.6	SSTDICC1.6	BN036413.D	02/10/2025	14:48
SSTDICC3.2	SSTDICC3.2	BN036414.D	02/10/2025	15:24
SSTDICC5.0	SSTDICC5.0	BN036415.D	02/10/2025	16:00



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Fax : 908 789 8922

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: JAC005Lab Code: CHEMSAS No.: Q1501 SDG NO.: Q1501Lab File ID: BN036533.DDFTPP Injection Date: 03/06/2025Instrument ID: BNA_NDFTPP Injection Time: 12:50

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	61.8
68	Less than 2.0% of mass 69	0.4 (0.6) 1
69	Mass 69 relative abundance	55.5
70	Less than 2.0% of mass 69	0.3 (0.5) 1
127	10.0 - 80.0% of mass 198	53.5
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7
275	10.0 - 60.0% of mass 198	24.7
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	8.2
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	10.3 (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	BN036534.D	03/06/2025	14:05
PB167006BL	PB167006BL	BN036535.D	03/06/2025	14:48
BR-05-465-030525	Q1501-04	BN036536.D	03/06/2025	15:24
BR-05-465-030525MS	Q1501-05MS	BN036537.D	03/06/2025	16:36
BR-05-465-030525MSD	Q1501-06MSD	BN036538.D	03/06/2025	17:12
MW-16B-87.5-030425-FD	Q1501-02	BN036539.D	03/06/2025	17:48
EB01-030525	Q1501-03	BN036540.D	03/06/2025	18:25
MW-16B-87.5-030425	Q1501-01	BN036541.D	03/06/2025	19:00
PB167006BS	PB167006BS	BN036542.D	03/06/2025	19:37

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1501 SAS No.: Q1501 SDG NO.: Q1501

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/06/2025

Lab File ID: BN036534.D Time Analyzed: 14:05

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	2140	7.732	5254	10.52	3388	14.37
UPPER LIMIT	4280	8.232	10508	11.019	6776	14.866
LOWER LIMIT	1070	7.232	2627	10.019	1694	13.866
EPA SAMPLE NO.						
01 PB167006BL	1970	7.73	4027	10.53	2414	14.38
02 BR-05-465-030525	2357	7.72	5902	10.52	3734	14.37
03 MW-16B-87.5-030425-FD	2097	7.73	5292	10.51	3396	14.37
04 EB01-030525	1902	7.73	4348	10.52	3037	14.37
05 BR-05-465-030525MS	2381	7.72	5953	10.52	3666	14.37
06 BR-05-465-030525MSD	2073	7.72	5251	10.52	3279	14.37
07 PB167006BS	2137	7.73	5013	10.52	2760	14.37
08 MW-16B-87.5-030425	1892	7.73	4686	10.51	3090	14.37

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.: Q1501 SAS No.: Q1501 SDG NO.: Q1501

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/06/2025

Lab File ID: BN036534.D Time Analyzed: 14:05

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	6841	17.111	5806	21.295	5637	23.557
UPPER LIMIT	13682	17.611	11612	21.795	11274	24.057
LOWER LIMIT	3420.5	16.611	2903	20.795	2818.5	23.057
EPA SAMPLE NO.						
01 PB167006BL	4679	17.12	4156	21.30	3735	23.57
02 BR-05-465-030525	7437	17.11	6928	21.30	6218	23.55
03 MW-16B-87.5-030425-FD	7029	17.11	6322	21.30	5813	23.55
04 EB01-030525	5822	17.11	4925	21.30	4426	23.56
05 BR-05-465-030525MS	7245	17.11	6501	21.30	5628	23.55
06 BR-05-465-030525MSD	6612	17.11	6058	21.30	5433	23.55
07 PB167006BS	5485	17.11	4244	21.30	3808	23.56
08 MW-16B-87.5-030425	6573	17.11	6013	21.30	5454	23.55

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.



SAMPLE DATA

1
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Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	03/04/25
Project:	Former Schlumberger STC PTC Site # D3868221	Date Received:	03/05/25
Client Sample ID:	MW-16B-87.5-030425	SDG No.:	Q1501
Lab Sample ID:	Q1501-01	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
BN036541.D	1	03/06/25 08:26	03/06/25 19:00	PB167006

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
123-91-1	1,4-Dioxane	0.44		0.070	0.21	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.35		30 (20) - 150 (139)	87%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.44		30 (30) - 150 (150)	110%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.36		30 (27) - 130 (154)	90%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.52		30 (25) - 130 (149)	130%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.52		30 (54) - 130 (175)	130%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	1890	7.731			
1146-65-2	Naphthalene-d8	4690	10.509			
15067-26-2	Acenaphthene-d10	3090	14.366			
1517-22-2	Phenanthrene-d10	6570	17.111			
1719-03-5	Chrysene-d12	6010	21.295			
1520-96-3	Perylene-d12	5450	23.554			

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\BN030625\
Data File : BN036541.D
Acq On : 06 Mar 2025 19:00
Operator : RC/JU
Sample : Q1501-01
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
MW-16B-87.5-030425

Quant Time: Mar 07 00:25:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 16:08:57 2025
Response via : Initial Calibration

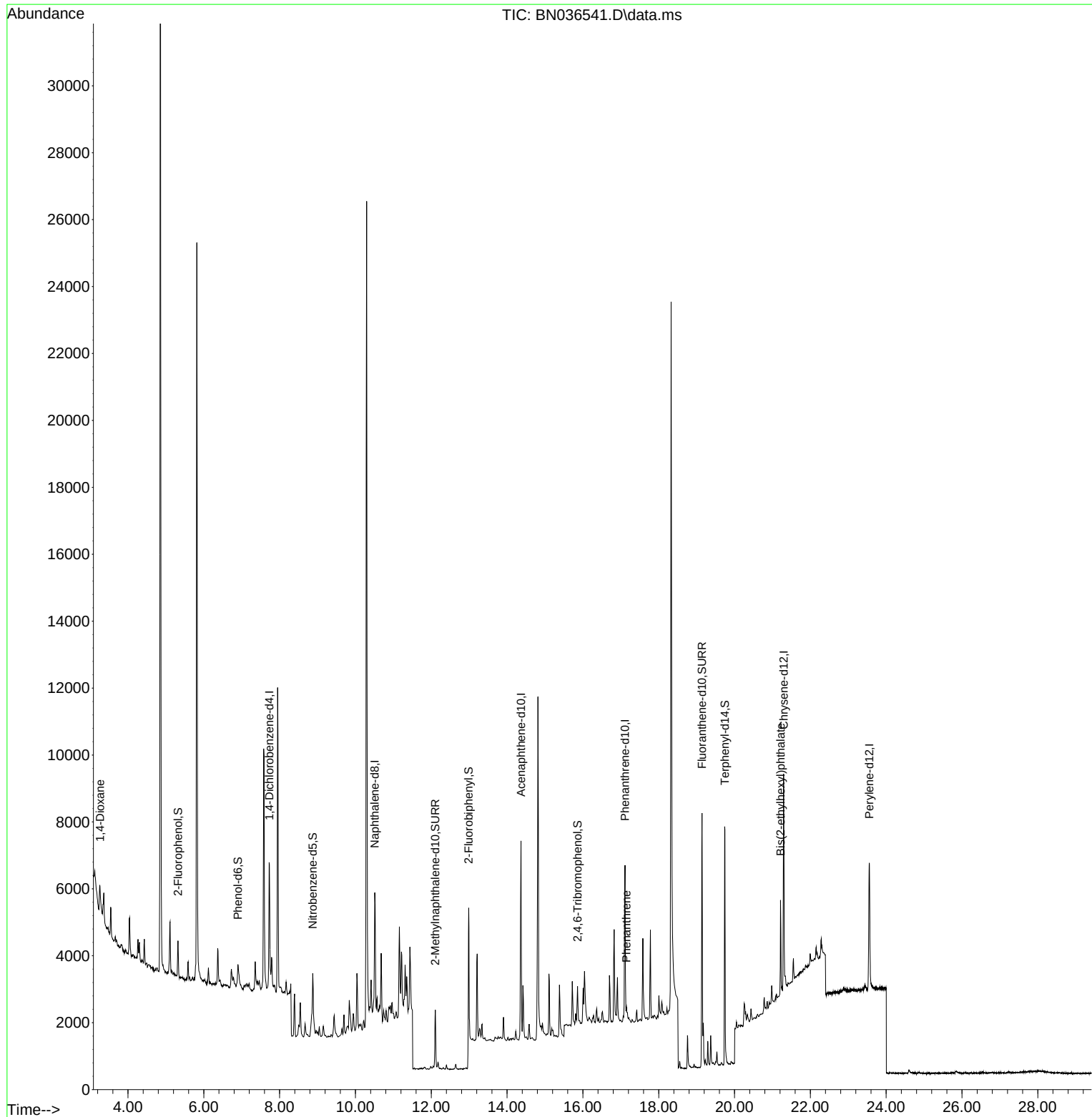
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.731	152	1892	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	4686	0.400	ng	# 0.00
13) Acenaphthene-d10	14.366	164	3090	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	6573	0.400	ng	0.00
29) Chrysene-d12	21.295	240	6013	0.400	ng	0.00
35) Perylene-d12	23.554	264	5454	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.319	112	799	0.179	ng	0.00
5) Phenol-d6	6.901	99	611	0.116	ng	0.00
8) Nitrobenzene-d5	8.875	82	1664	0.360	ng	0.00
11) 2-Methylnaphthalene-d10	12.106	152	2516	0.349	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	627	0.409	ng	0.00
15) 2-Fluorobiphenyl	12.988	172	6038	0.520	ng	0.00
27) Fluoranthene-d10	19.141	212	8065	0.441	ng	0.00
31) Terphenyl-d14	19.745	244	6687	0.521	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.261	88	893	0.431	ng	Qvalue 93
25) Phenanthrene	17.148	178	382	0.020	ng	# 80
34) Bis(2-ethylhexyl)phtha...	21.214	149	2648	0.215	ng	98

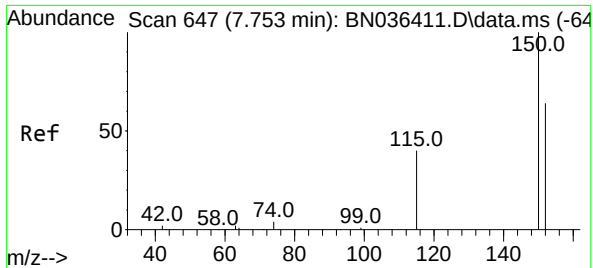
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN030625\
Data File : BN036541.D
Acq On : 06 Mar 2025 19:00
Operator : RC/JU
Sample : Q1501-01
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
MW-16B-87.5-030425

Quant Time: Mar 07 00:25:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 16:08:57 2025
Response via : Initial Calibration

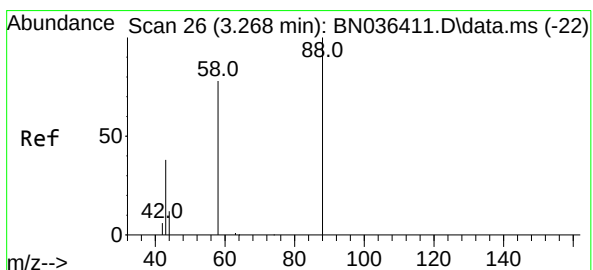
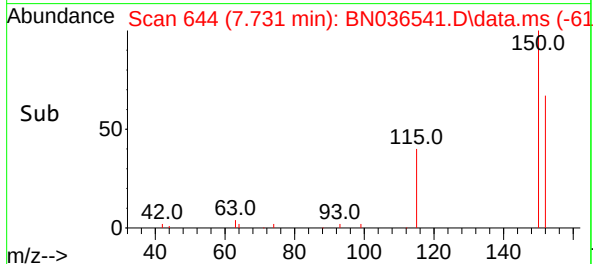
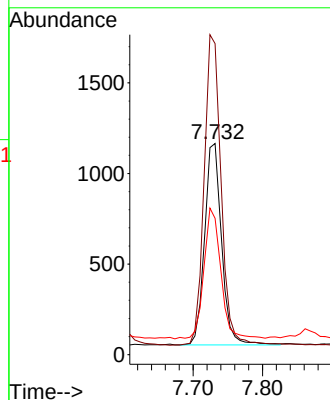
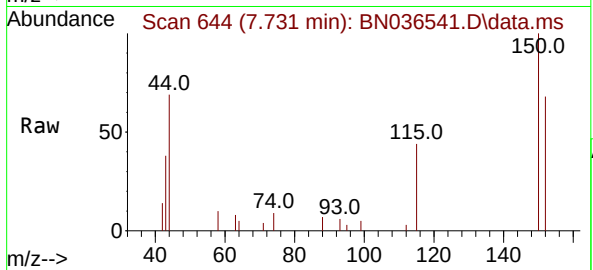




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.731 min Scan# 64
Delta R.T. -0.001 min
Lab File: BN036541.D
Acq: 06 Mar 2025 19:00

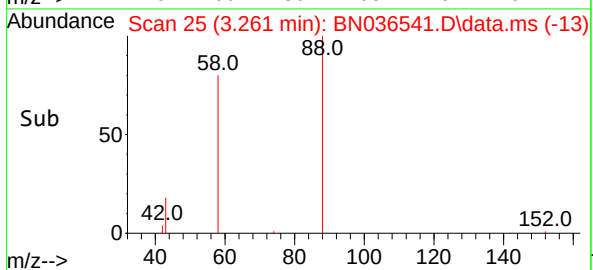
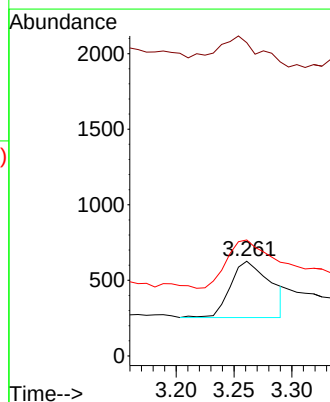
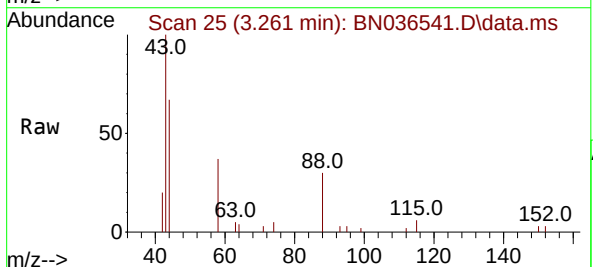
Instrument :
BNA_N
ClientSampleId :
MW-16B-87.5-030425

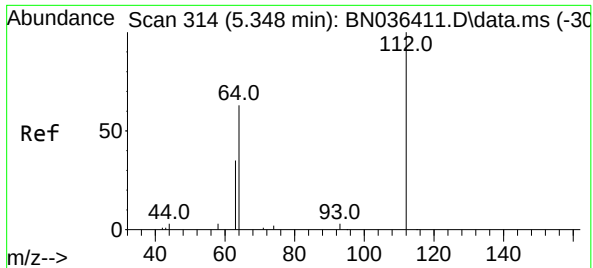
Tgt Ion: 152 Resp: 1892
Ion Ratio Lower Upper
152 100
150 147.3 123.7 185.5
115 64.5 52.5 78.7



#2
1,4-Dioxane
Concen: 0.431 ng
RT: 3.261 min Scan# 25
Delta R.T. 0.014 min
Lab File: BN036541.D
Acq: 06 Mar 2025 19:00

Tgt Ion: 88 Resp: 893
Ion Ratio Lower Upper
88 100
43 38.5 33.7 50.5
58 93.3 68.9 103.3

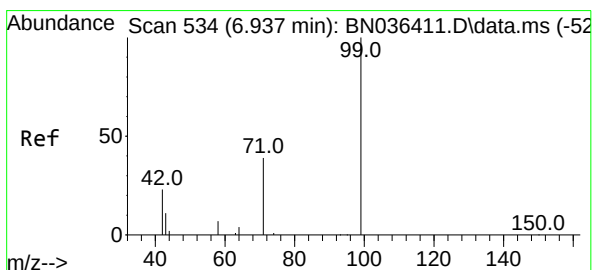
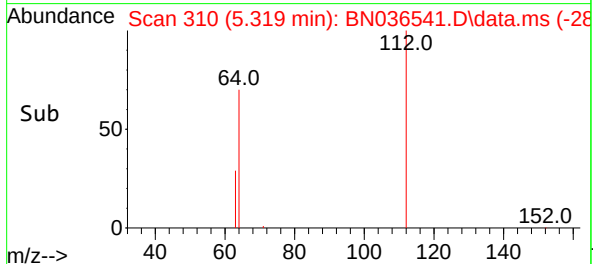
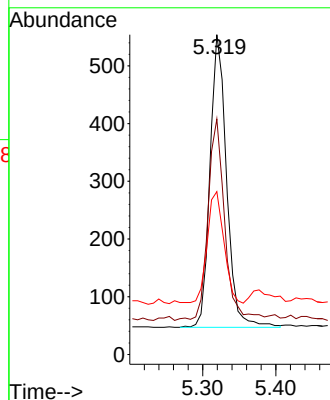
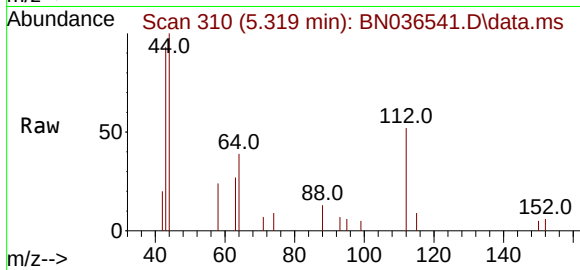




#4
2-Fluorophenol
Concen: 0.179 ng
RT: 5.319 min Scan# 314
Delta R.T. -0.000 min
Lab File: BN036541.D
Acq: 06 Mar 2025 19:00

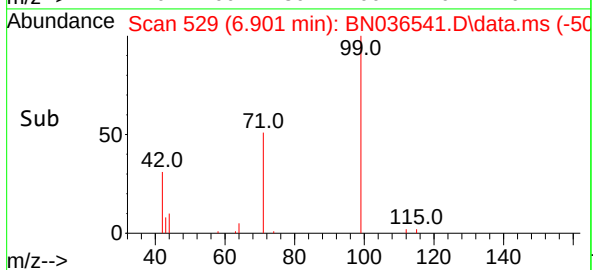
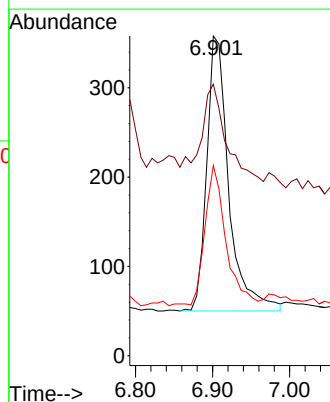
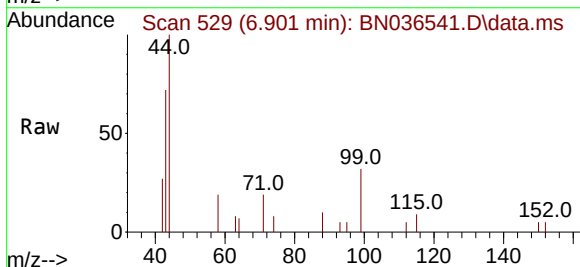
Instrument :
BNA_N
ClientSampleId :
MW-16B-87.5-030425

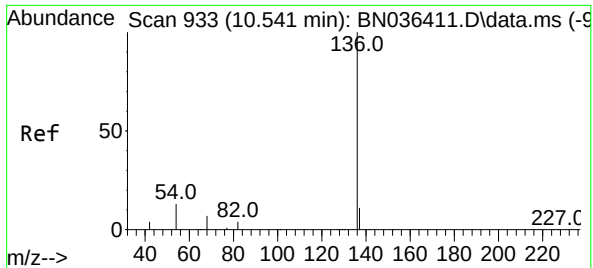
Tgt Ion:	112	Resp:	799
Ion	Ratio	Lower	Upper
112	100		
64	66.7	53.4	80.0
63	38.4	30.3	45.5



#5
Phenol-d6
Concen: 0.116 ng
RT: 6.901 min Scan# 529
Delta R.T. -0.000 min
Lab File: BN036541.D
Acq: 06 Mar 2025 19:00

Tgt Ion:	99	Resp:	611
Ion	Ratio	Lower	Upper
99	100		
42	36.7	21.7	32.5#
71	46.5	32.6	49.0

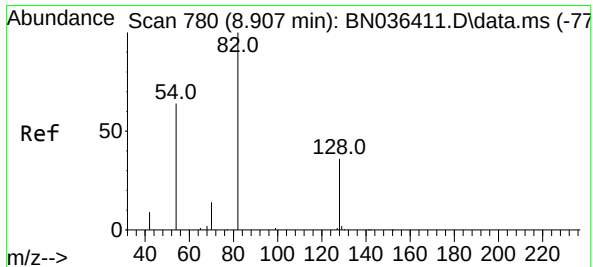
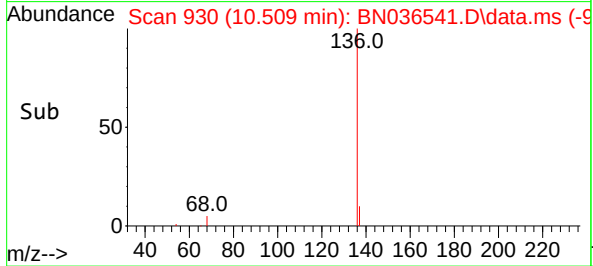
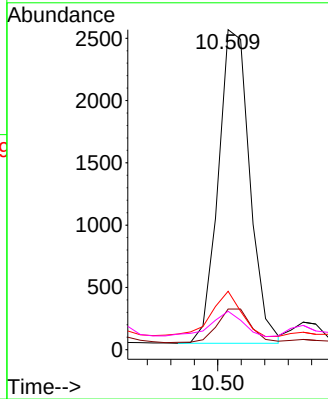
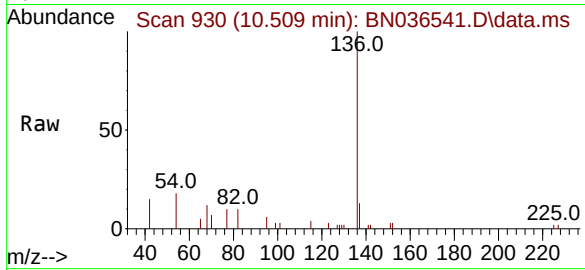




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 911
Delta R.T. -0.000 min
Lab File: BN036541.D
Acq: 06 Mar 2025 19:00

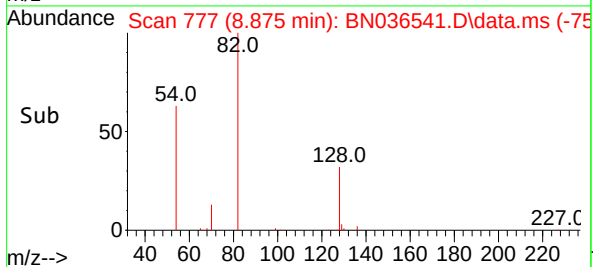
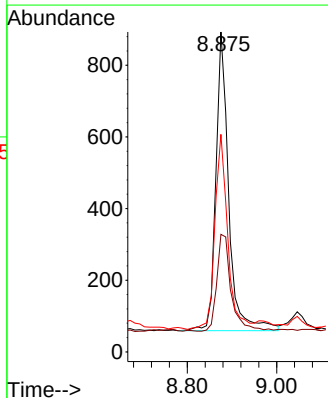
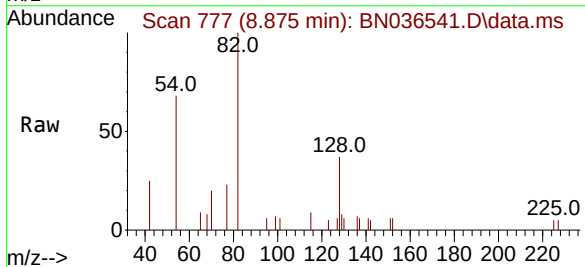
Instrument :
BNA_N
ClientSampleId :
MW-16B-87.5-030425

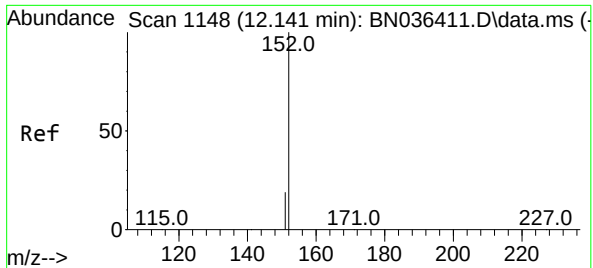
Tgt Ion:	136	Resp:	4686
Ion	Ratio	Lower	Upper
136	100		
137	12.7	10.1	15.1
54	18.3	11.8	17.6#
68	12.0	7.2	10.8#



#8
Nitrobenzene-d5
Concen: 0.360 ng
RT: 8.875 min Scan# 777
Delta R.T. -0.000 min
Lab File: BN036541.D
Acq: 06 Mar 2025 19:00

Tgt Ion:	82	Resp:	1664
Ion	Ratio	Lower	Upper
82	100		
128	36.7	31.9	47.9
54	68.0	53.1	79.7

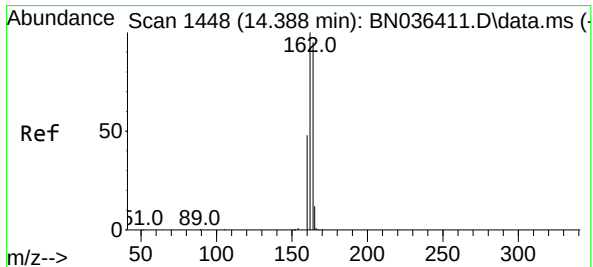
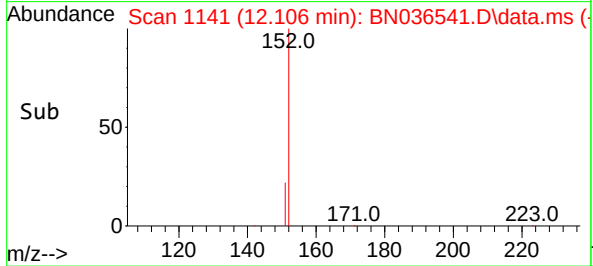
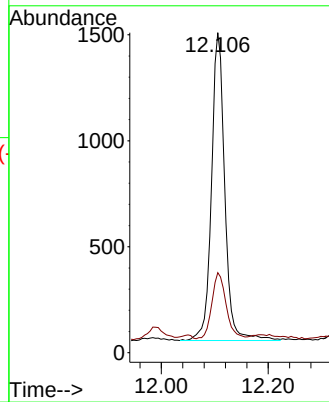
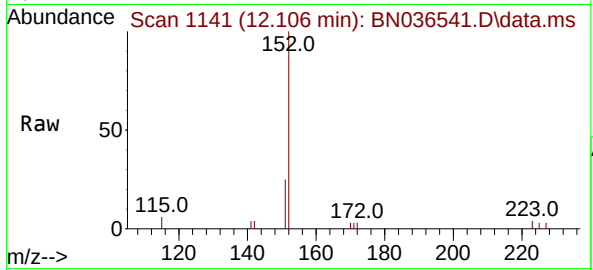




#11
2-Methylnaphthalene-d10
Concen: 0.349 ng
RT: 12.106 min Scan# 1141
Delta R.T. -0.000 min
Lab File: BN036541.D
Acq: 06 Mar 2025 19:00

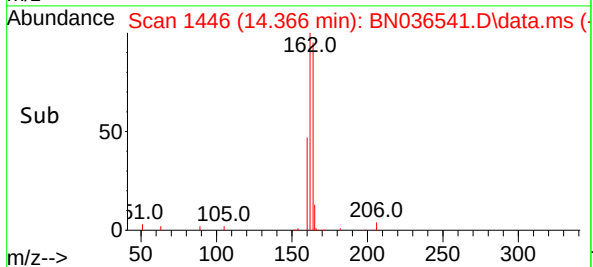
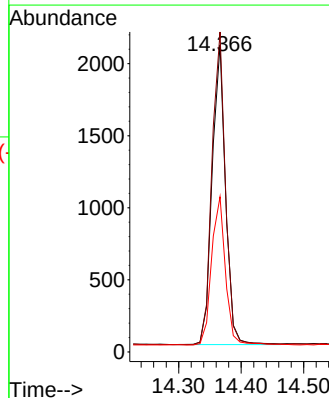
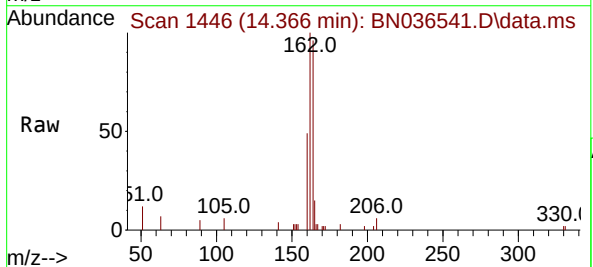
Instrument :
BNA_N
ClientSampleId :
MW-16B-87.5-030425

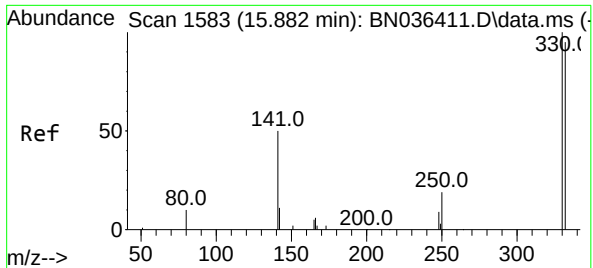
Tgt Ion:152 Resp: 2516
Ion Ratio Lower Upper
152 100
151 23.0 16.6 25.0



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. -0.000 min
Lab File: BN036541.D
Acq: 06 Mar 2025 19:00

Tgt Ion:164 Resp: 3090
Ion Ratio Lower Upper
164 100
162 104.2 84.1 126.1
160 50.5 41.4 62.0

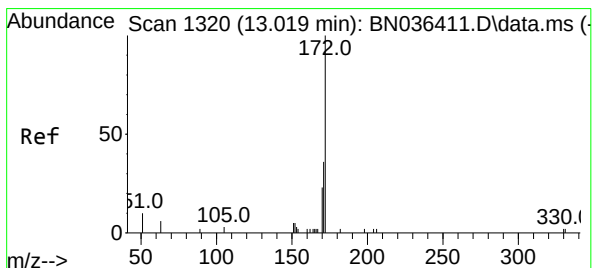
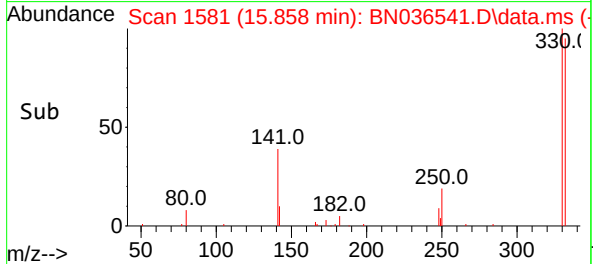
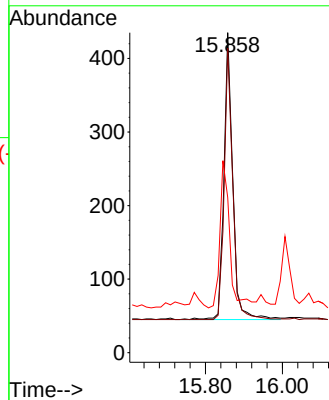
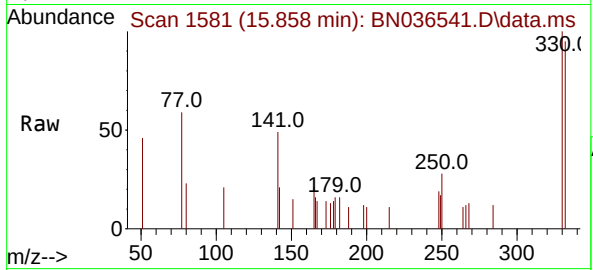




#14
2,4,6-Tribromophenol
Concen: 0.409 ng
RT: 15.858 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN036541.D
Acq: 06 Mar 2025 19:00

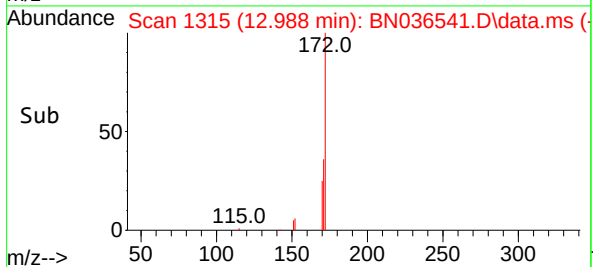
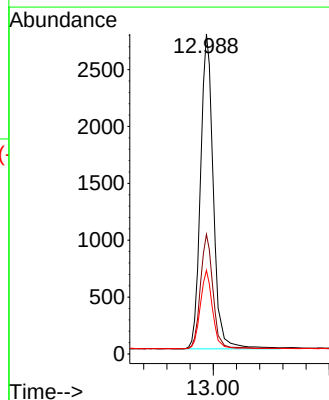
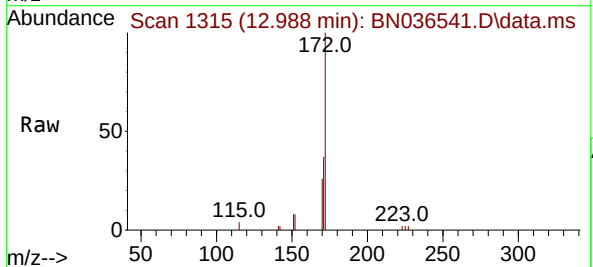
Instrument :
BNA_N
ClientSampleId :
MW-16B-87.5-030425

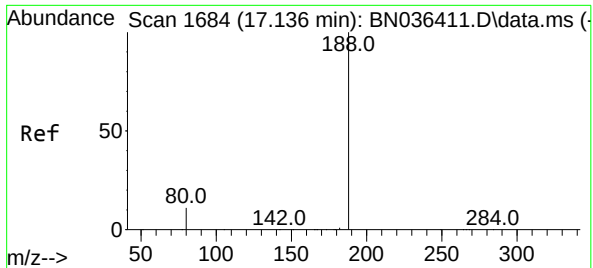
Tgt Ion:330 Resp: 627
Ion Ratio Lower Upper
330 100
332 91.2 76.6 114.8
141 55.7 37.8 56.8



#15
2-Fluorobiphenyl
Concen: 0.520 ng
RT: 12.988 min Scan# 1315
Delta R.T. -0.000 min
Lab File: BN036541.D
Acq: 06 Mar 2025 19:00

Tgt Ion:172 Resp: 6038
Ion Ratio Lower Upper
172 100
171 37.4 29.6 44.4
170 26.2 19.8 29.6





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.111 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN036541.D

Acq: 06 Mar 2025 19:00

Instrument :

BNA_N

ClientSampleId :

MW-16B-87.5-030425

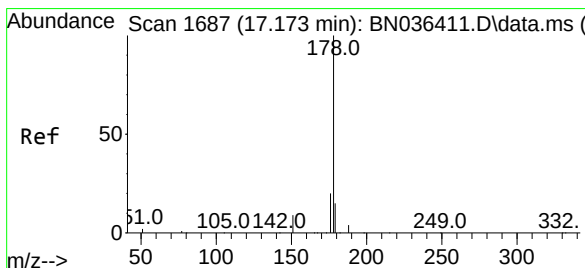
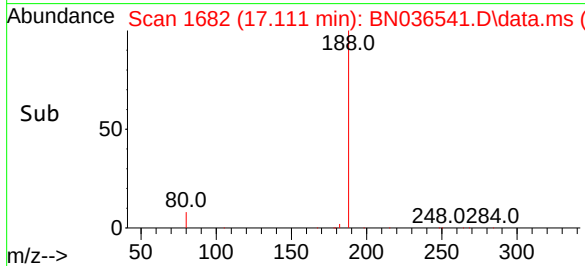
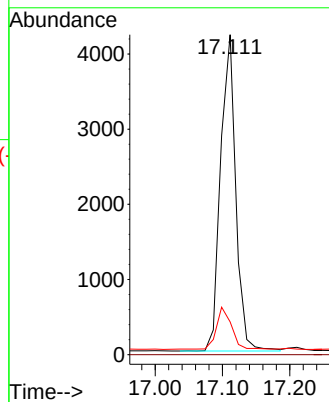
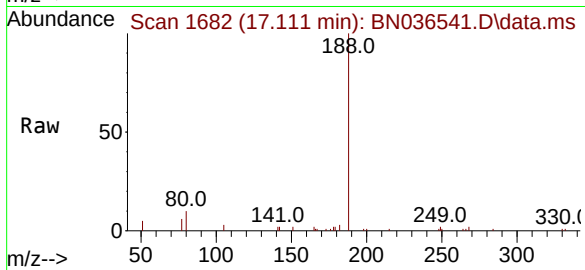
Tgt Ion:188 Resp: 6573

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.2 9.8 14.6



#25

Phenanthrene

Concen: 0.020 ng

RT: 17.148 min Scan# 1685

Delta R.T. -0.000 min

Lab File: BN036541.D

Acq: 06 Mar 2025 19:00

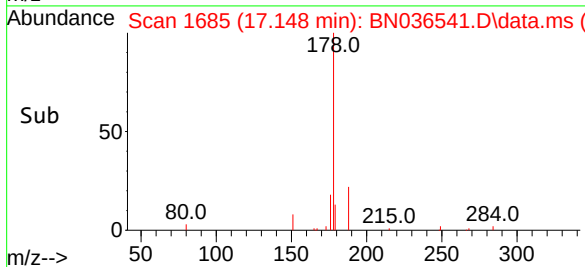
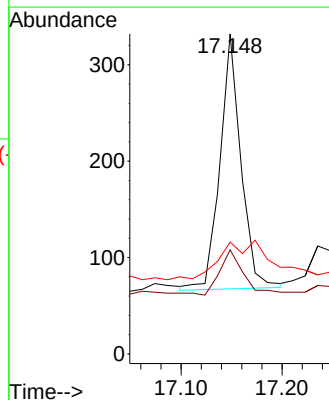
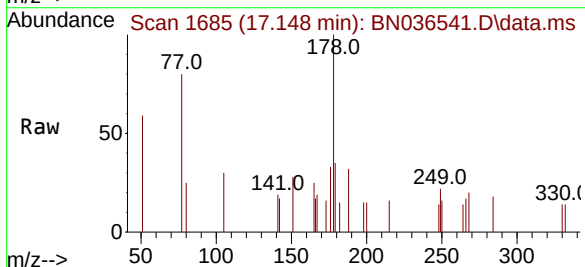
Tgt Ion:178 Resp: 382

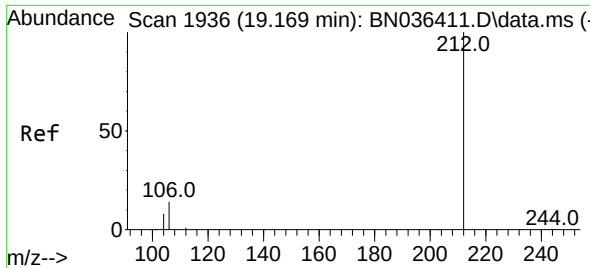
Ion Ratio Lower Upper

178 100

176 22.3 15.7 23.5

179 0.0 12.4 18.6#

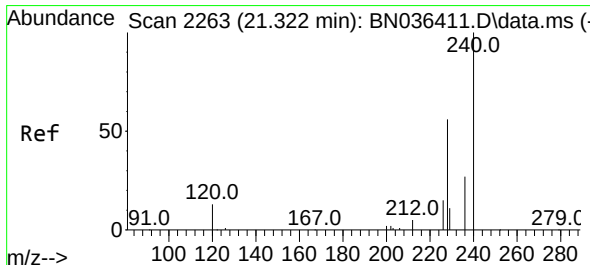
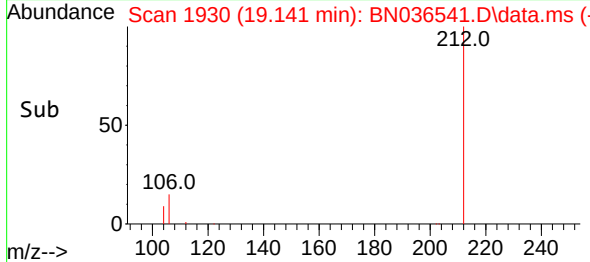
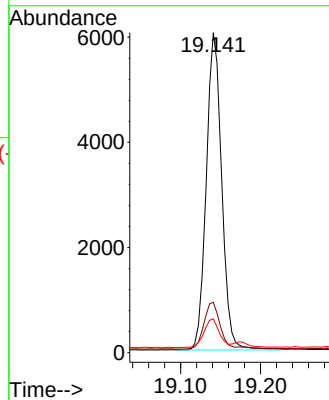
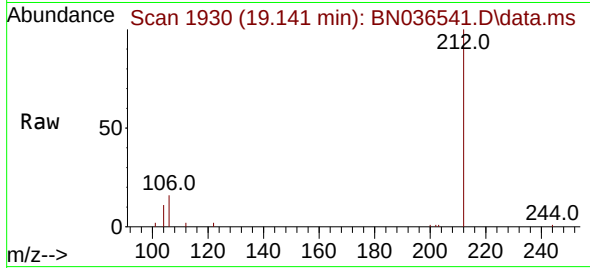




#27
Fluoranthene-d10
Concen: 0.441 ng
RT: 19.141 min Scan# 1930
Delta R.T. -0.000 min
Lab File: BN036541.D
Acq: 06 Mar 2025 19:00

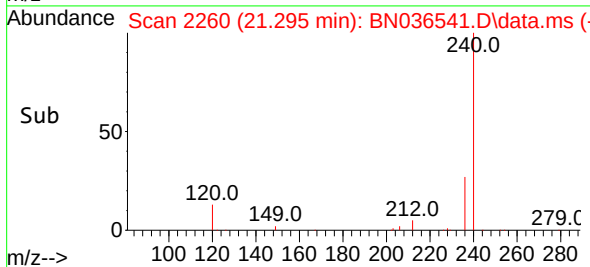
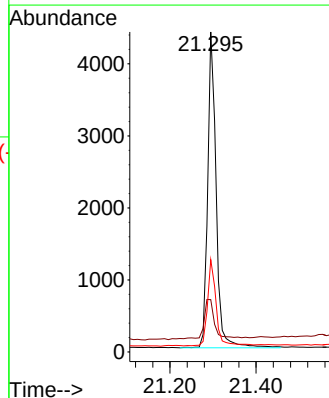
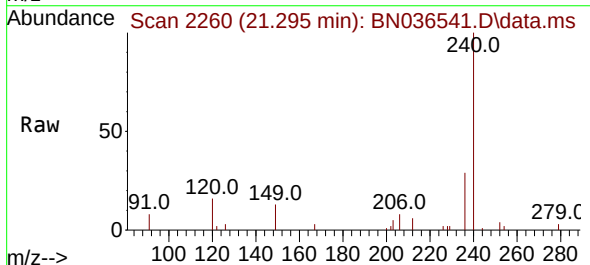
Instrument :
BNA_N
ClientSampleId :
MW-16B-87.5-030425

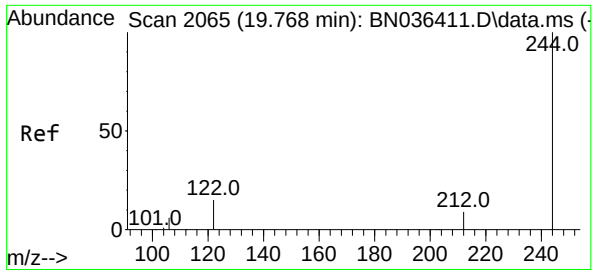
Tgt Ion:212	Resp:	8065
Ion Ratio	Lower	Upper
212	100	
106	16.4	11.5 17.3
104	9.2	7.1 10.7



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2260
Delta R.T. -0.000 min
Lab File: BN036541.D
Acq: 06 Mar 2025 19:00

Tgt Ion:240	Resp:	6013
Ion Ratio	Lower	Upper
240	100	
120	16.4	13.3 19.9
236	28.9	23.0 34.6

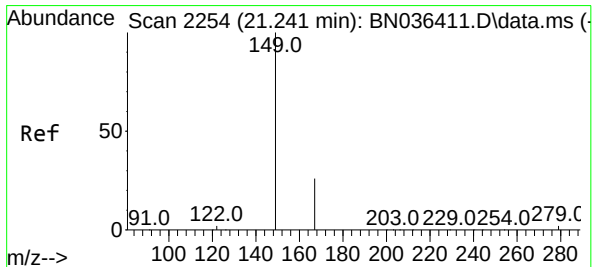
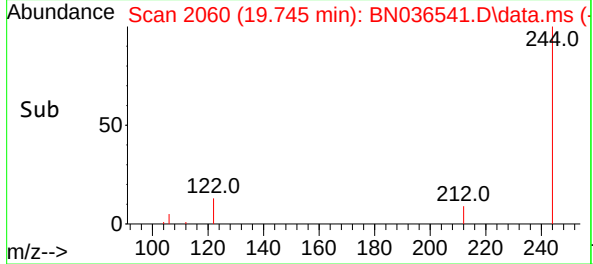
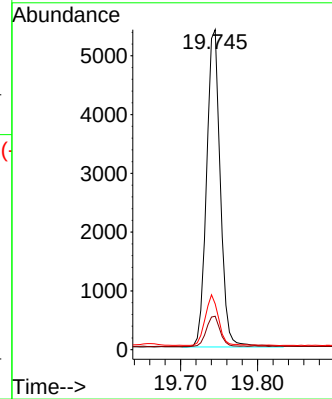
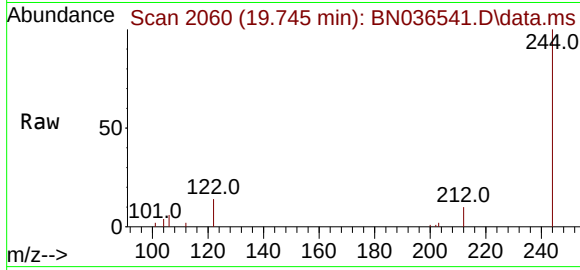




#31
Terphenyl-d14
Concen: 0.521 ng
RT: 19.745 min Scan# 2060
Delta R.T. -0.000 min
Lab File: BN036541.D
Acq: 06 Mar 2025 19:00

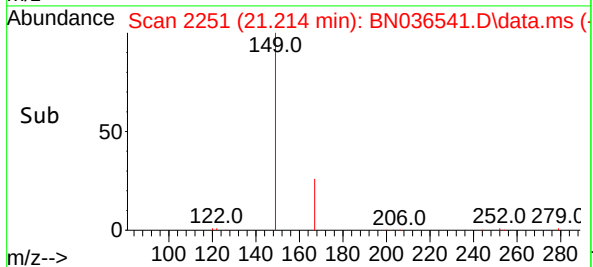
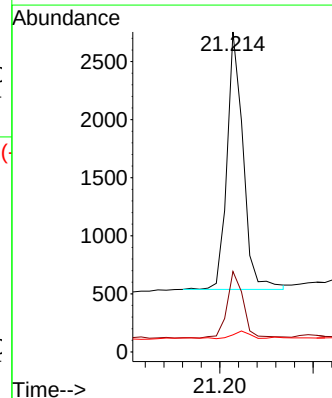
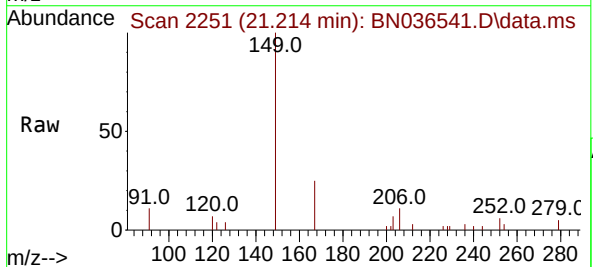
Instrument :
BNA_N
ClientSampleId :
MW-16B-87.5-030425

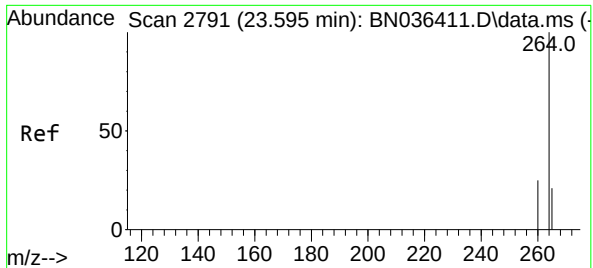
Tgt Ion:244	Resp:	6687
Ion Ratio	Lower	Upper
244	100	
212	10.4	8.1 12.1
122	14.3	12.8 19.2



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.215 ng
RT: 21.214 min Scan# 2251
Delta R.T. -0.000 min
Lab File: BN036541.D
Acq: 06 Mar 2025 19:00

Tgt Ion:149	Resp:	2648
Ion Ratio	Lower	Upper
149	100	
167	25.5	21.2 31.8
279	3.1	2.7 4.1





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.554 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN036541.D

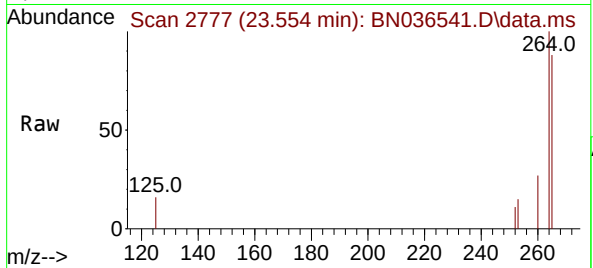
Acq: 06 Mar 2025 19:00

Instrument :

BNA_N

ClientSampleId :

MW-16B-87.5-030425



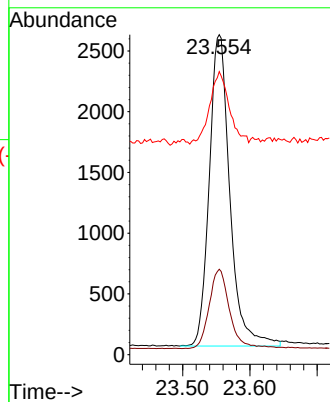
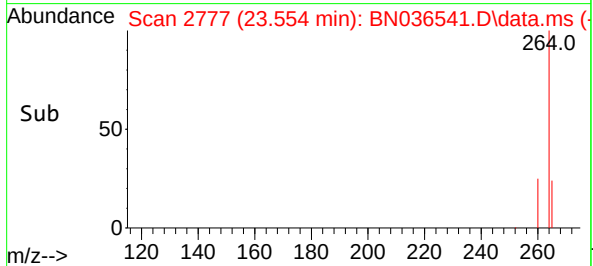
Tgt Ion:264 Resp: 5454

Ion Ratio Lower Upper

264 100

260 26.7 20.9 31.3

265 88.5 60.7 91.1



Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	03/04/25
Project:	Former Schlumberger STC PTC Site # D3868221	Date Received:	03/05/25
Client Sample ID:	MW-16B-87.5-030425-FD	SDG No.:	Q1501
Lab Sample ID:	Q1501-02	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
BN036539.D	1	03/06/25 08:26	03/06/25 17:48	PB167006

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
123-91-1	1,4-Dioxane	0.17	J	0.070	0.20	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.32		30 (20) - 150 (139)	80%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.44		30 (30) - 150 (150)	110%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.34		30 (27) - 130 (154)	86%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.47		30 (25) - 130 (149)	118%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.53	*	30 (54) - 130 (175)	132%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	2100		7.732		
1146-65-2	Naphthalene-d8	5290		10.509		
15067-26-2	Acenaphthene-d10	3400		14.366		
1517-22-2	Phenanthrene-d10	7030		17.111		
1719-03-5	Chrysene-d12	6320		21.295		
1520-96-3	Perylene-d12	5810		23.551		

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\BN030625\
Data File : BN036539.D
Acq On : 06 Mar 2025 17:48
Operator : RC/JU
Sample : Q1501-02
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
MW-16B-87.5-030425-FD

Quant Time: Mar 07 00:25:07 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 16:08:57 2025
Response via : Initial Calibration

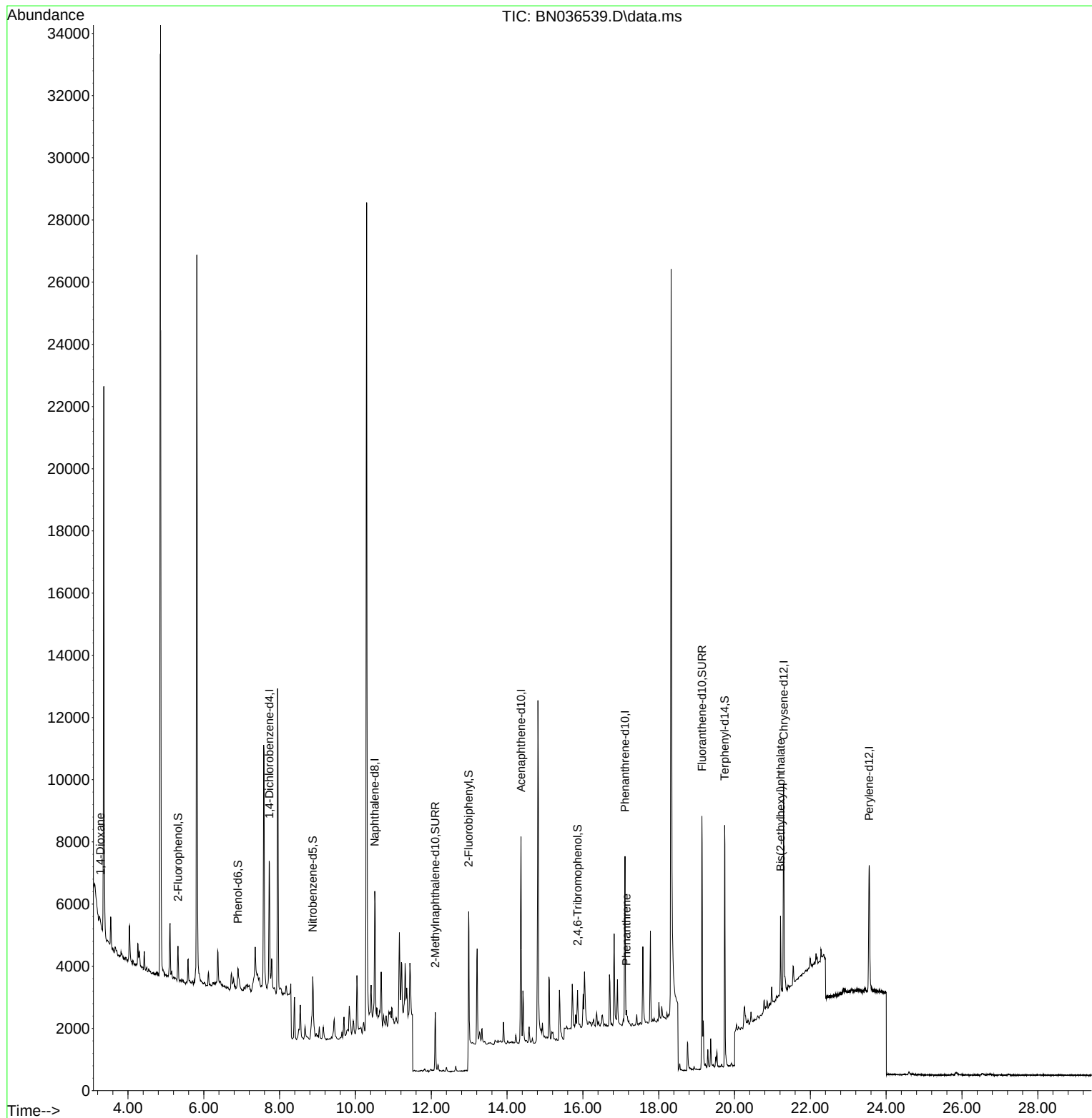
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.732	152	2097	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	5292	0.400	ng	# 0.00
13) Acenaphthene-d10	14.366	164	3396	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	7029	0.400	ng	0.00
29) Chrysene-d12	21.295	240	6322	0.400	ng	0.00
35) Perylene-d12	23.551	264	5813	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.319	112	813	0.164	ng	0.00
5) Phenol-d6	6.901	99	635	0.109	ng	0.00
8) Nitrobenzene-d5	8.875	82	1785	0.342	ng	0.00
11) 2-Methylnaphthalene-d10	12.106	152	2609	0.321	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	641	0.381	ng	0.00
15) 2-Fluorobiphenyl	12.988	172	6012	0.471	ng	0.00
27) Fluoranthene-d10	19.141	212	8625	0.441	ng	0.00
31) Terphenyl-d14	19.740	244	7104	0.526	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.268	88	386	0.168	ng	# 76
25) Phenanthrene	17.149	178	433	0.021	ng	# 82
34) Bis(2-ethylhexyl)phtha...	21.214	149	2281	0.176	ng	99

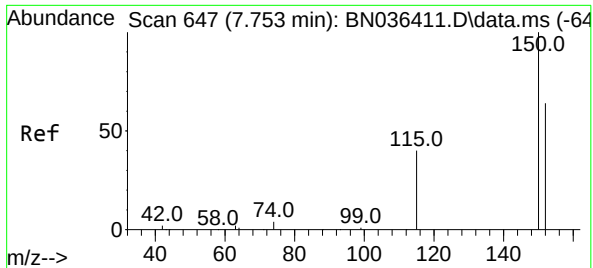
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN030625\
Data File : BN036539.D
Acq On : 06 Mar 2025 17:48
Operator : RC/JU
Sample : Q1501-02
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
MW-16B-87.5-030425-FD

Quant Time: Mar 07 00:25:07 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 16:08:57 2025
Response via : Initial Calibration

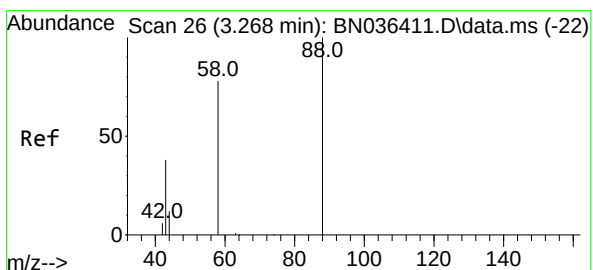
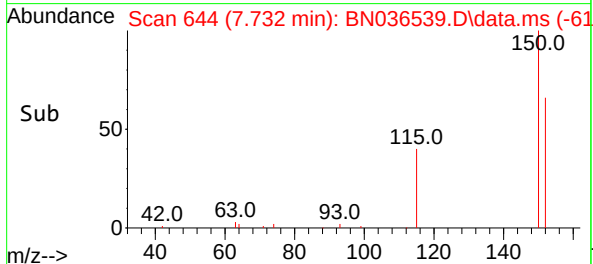
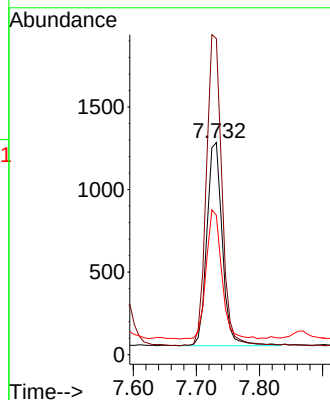
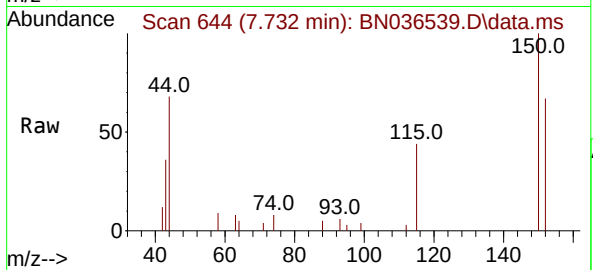




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.732 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN036539.D
Acq: 06 Mar 2025 17:48

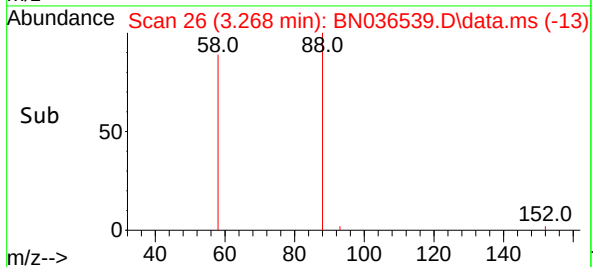
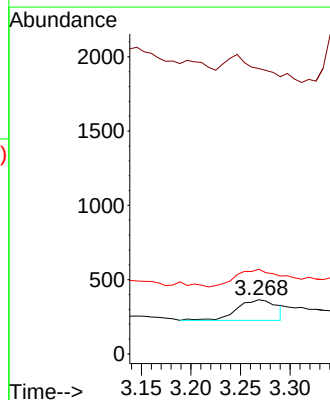
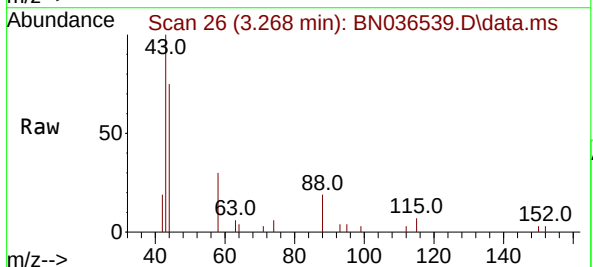
Instrument :
BNA_N
ClientSampleId :
MW-16B-87.5-030425-FD

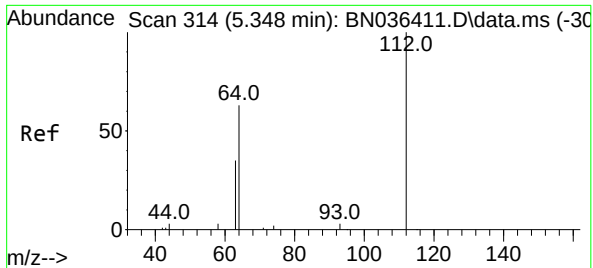
Tgt Ion:152 Resp: 2097
Ion Ratio Lower Upper
152 100
150 149.0 123.7 185.5
115 65.7 52.5 78.7



#2
1,4-Dioxane
Concen: 0.168 ng
RT: 3.268 min Scan# 26
Delta R.T. 0.022 min
Lab File: BN036539.D
Acq: 06 Mar 2025 17:48

Tgt Ion: 88 Resp: 386
Ion Ratio Lower Upper
88 100
43 0.0 33.7 50.5#
58 82.9 68.9 103.3

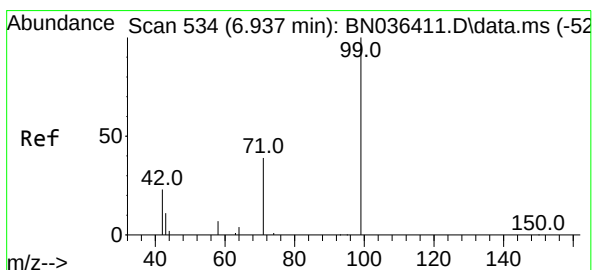
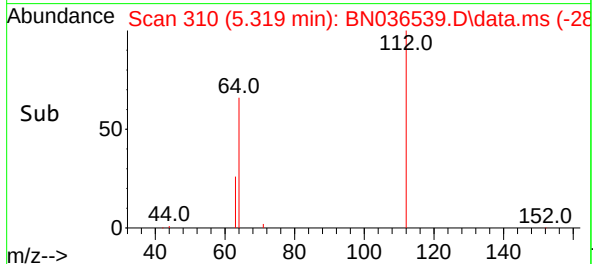
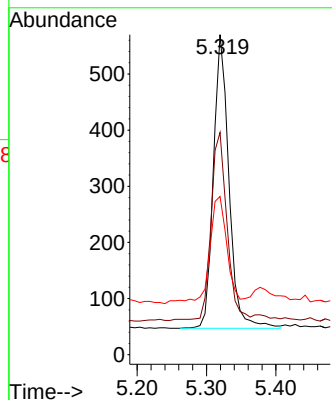
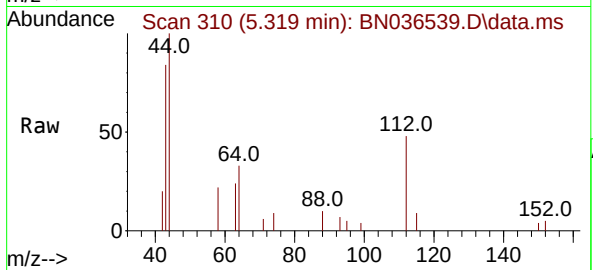




#4
2-Fluorophenol
Concen: 0.164 ng
RT: 5.319 min Scan# 314
Delta R.T. 0.000 min
Lab File: BN036539.D
Acq: 06 Mar 2025 17:48

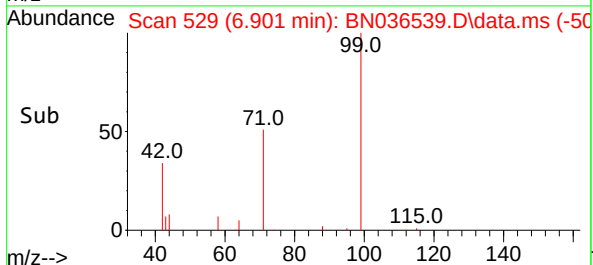
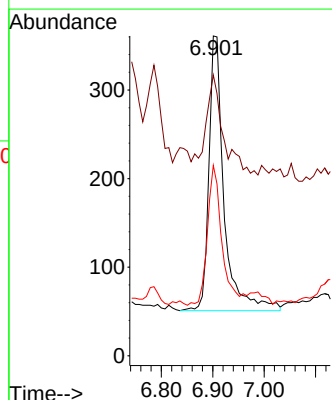
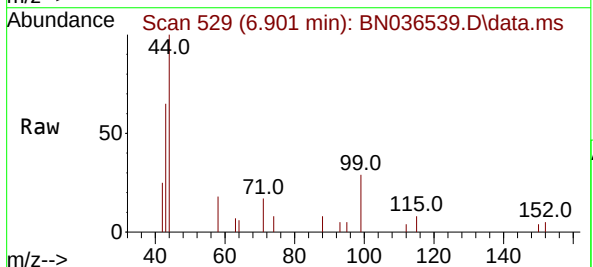
Instrument :
BNA_N
ClientSampleId :
MW-16B-87.5-030425-FD

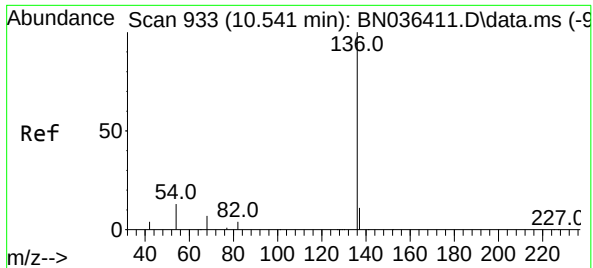
Tgt Ion	Ratio	Lower	Upper
112	100		
64	65.6	53.4	80.0
63	41.2	30.3	45.5



#5
Phenol-d6
Concen: 0.109 ng
RT: 6.901 min Scan# 529
Delta R.T. 0.000 min
Lab File: BN036539.D
Acq: 06 Mar 2025 17:48

Tgt Ion	Ratio	Lower	Upper
99	100		
42	39.8	21.7	32.5#
71	48.2	32.6	49.0

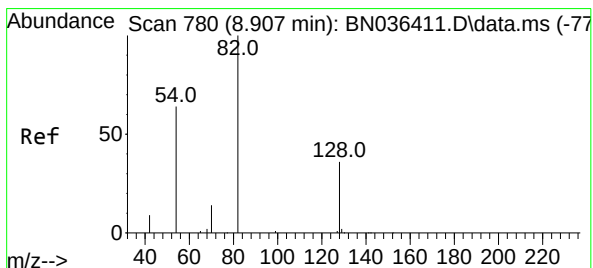
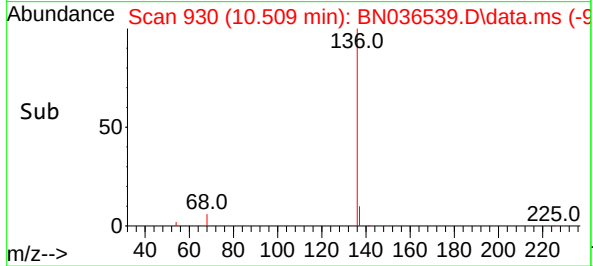
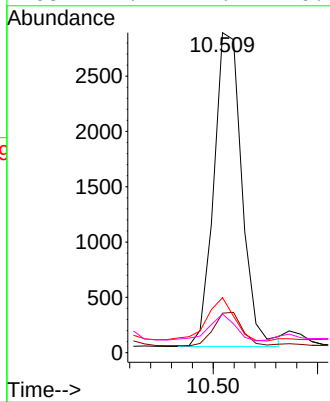
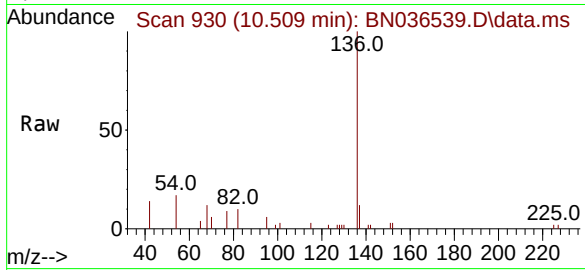




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN036539.D
Acq: 06 Mar 2025 17:48

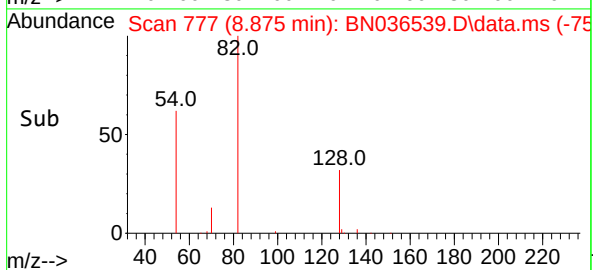
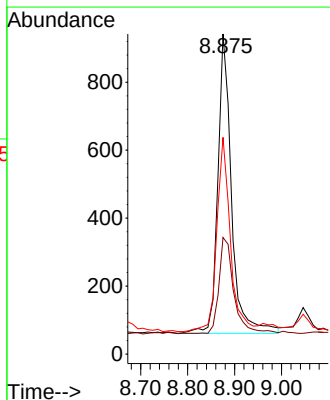
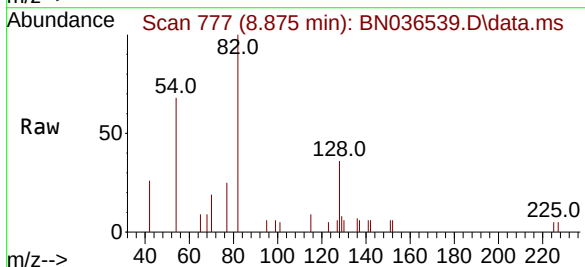
Instrument :
BNA_N
ClientSampleId :
MW-16B-87.5-030425-FD

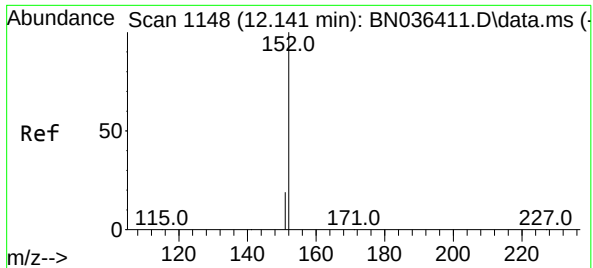
Tgt Ion:	136	Resp:	5292
Ion	Ratio	Lower	Upper
136	100		
137	12.3	10.1	15.1
54	17.2	11.8	17.6
68	12.1	7.2	10.8



#8
Nitrobenzene-d5
Concen: 0.342 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036539.D
Acq: 06 Mar 2025 17:48

Tgt Ion:	82	Resp:	1785
Ion	Ratio	Lower	Upper
82	100		
128	36.4	31.9	47.9
54	67.7	53.1	79.7

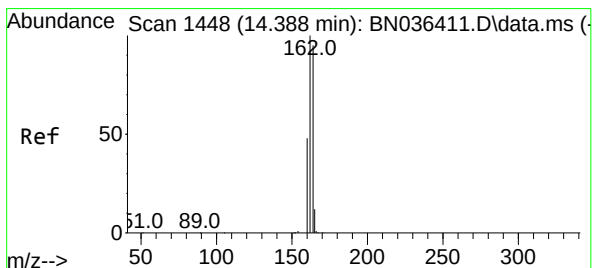
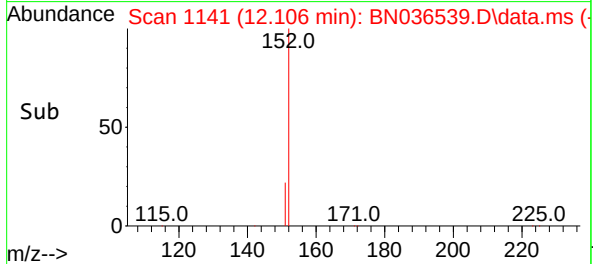
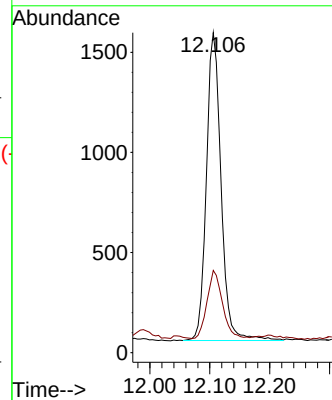
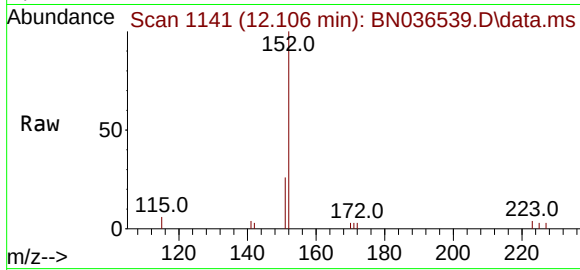




#11
2-Methylnaphthalene-d10
Concen: 0.321 ng
RT: 12.106 min Scan# 1141
Delta R.T. 0.000 min
Lab File: BN036539.D
Acq: 06 Mar 2025 17:48

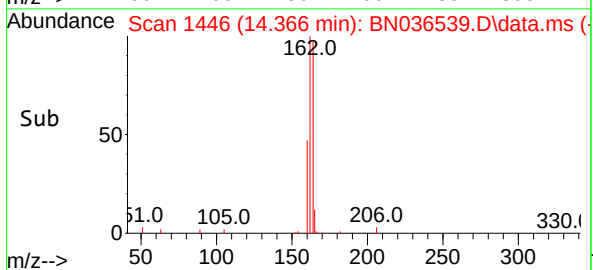
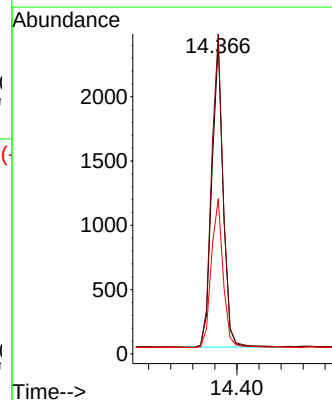
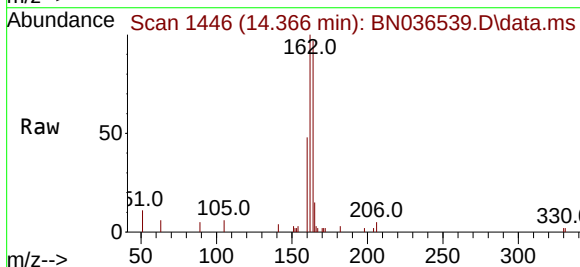
Instrument :
BNA_N
ClientSampleId :
MW-16B-87.5-030425-FD

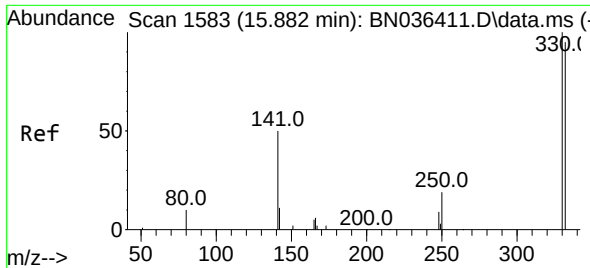
Tgt Ion:152 Resp: 2609
Ion Ratio Lower Upper
152 100
151 24.5 16.6 25.0



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. 0.000 min
Lab File: BN036539.D
Acq: 06 Mar 2025 17:48

Tgt Ion:164 Resp: 3396
Ion Ratio Lower Upper
164 100
162 103.0 84.1 126.1
160 49.9 41.4 62.0





#14

2,4,6-Tribromophenol

Concen: 0.381 ng

RT: 15.858 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN036539.D

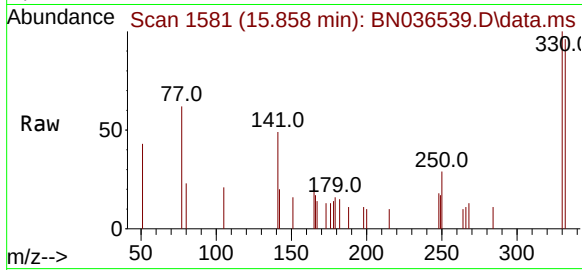
Acq: 06 Mar 2025 17:48

Instrument :

BNA_N

ClientSampleId :

MW-16B-87.5-030425-FD



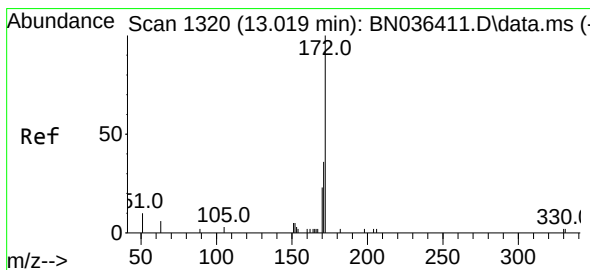
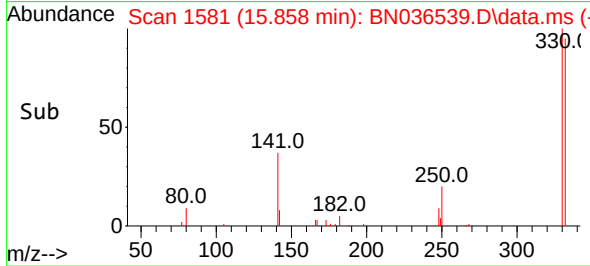
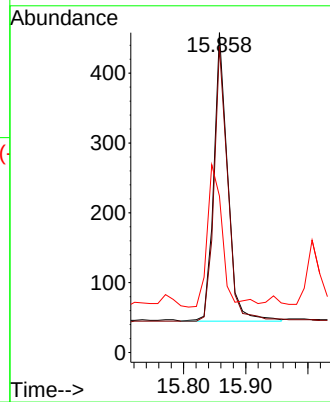
Tgt Ion:330 Resp: 641

Ion Ratio Lower Upper

330 100

332 94.5 76.6 114.8

141 54.4 37.8 56.8



#15

2-Fluorobiphenyl

Concen: 0.471 ng

RT: 12.988 min Scan# 1315

Delta R.T. 0.000 min

Lab File: BN036539.D

Acq: 06 Mar 2025 17:48

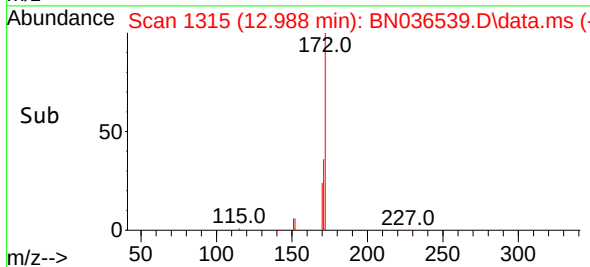
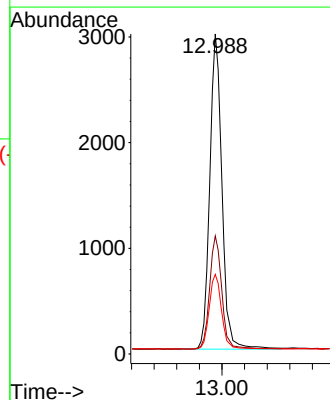
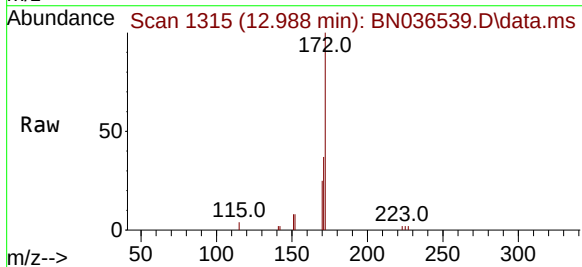
Tgt Ion:172 Resp: 6012

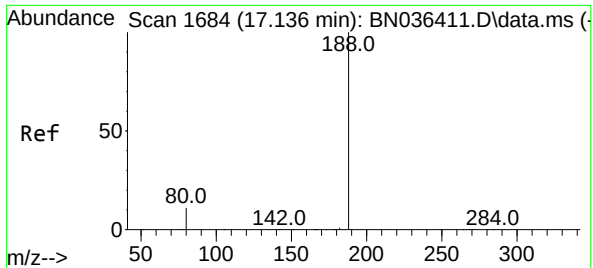
Ion Ratio Lower Upper

172 100

171 36.9 29.6 44.4

170 24.8 19.8 29.6





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.111 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036539.D

Acq: 06 Mar 2025 17:48

Instrument :

BNA_N

ClientSampleId :

MW-16B-87.5-030425-FD

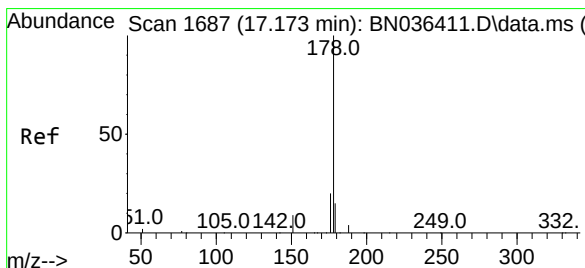
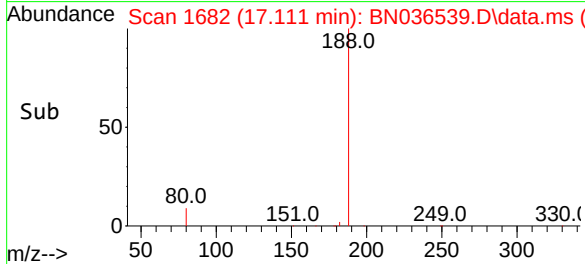
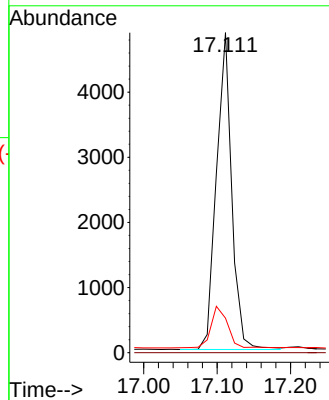
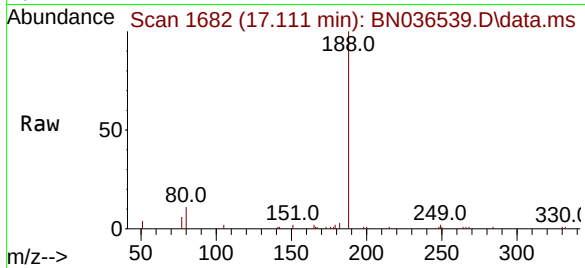
Tgt Ion:188 Resp: 7029

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.8 9.8 14.6



#25

Phenanthrene

Concen: 0.021 ng

RT: 17.149 min Scan# 1685

Delta R.T. 0.000 min

Lab File: BN036539.D

Acq: 06 Mar 2025 17:48

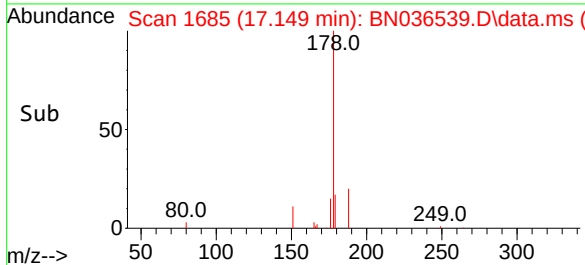
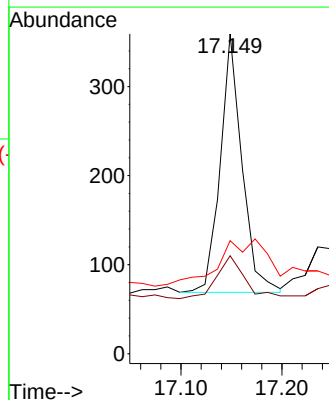
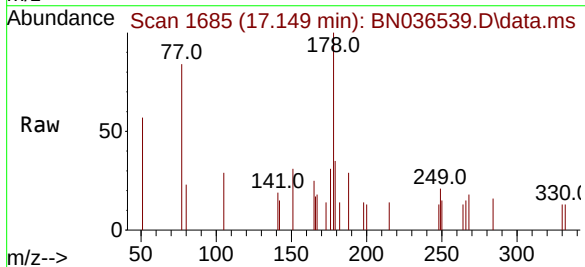
Tgt Ion:178 Resp: 433

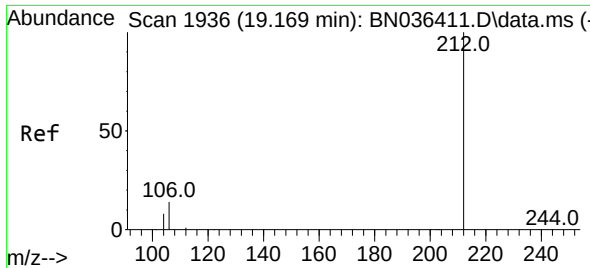
Ion Ratio Lower Upper

178 100

176 21.2 15.7 23.5

179 0.0 12.4 18.6#





#27

Fluoranthene-d10

Concen: 0.441 ng

RT: 19.141 min Scan# 1930

Delta R.T. 0.000 min

Lab File: BN036539.D

Acq: 06 Mar 2025 17:48

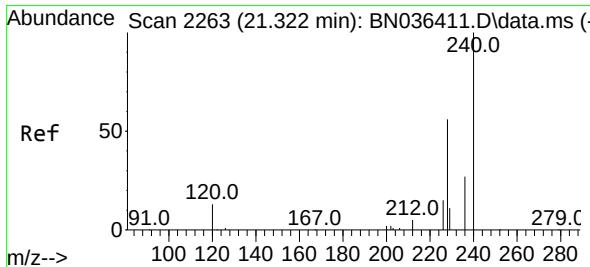
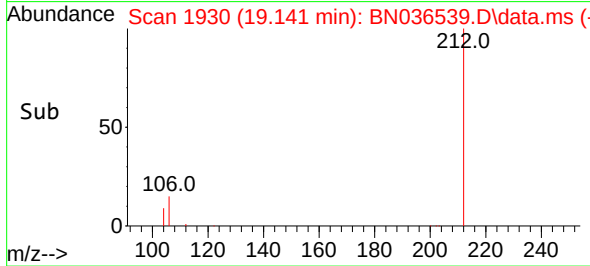
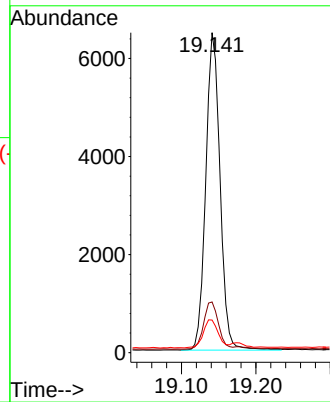
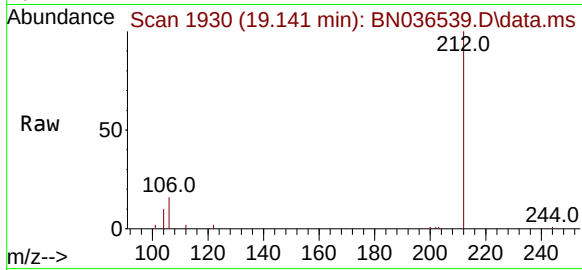
Instrument :

BNA_N

ClientSampleId :

MW-16B-87.5-030425-FD

Tgt Ion:212	Resp:	8625
Ion	Ratio	Lower Upper
212	100	
106	15.3	11.5 17.3
104	9.1	7.1 10.7



#29

Chrysene-d12

Concen: 0.400 ng

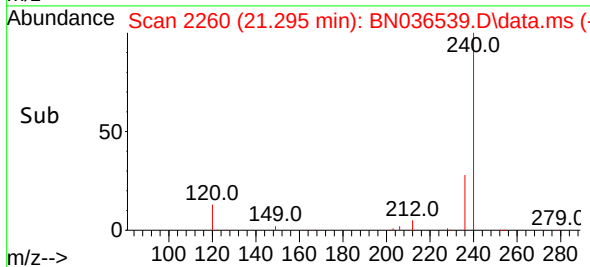
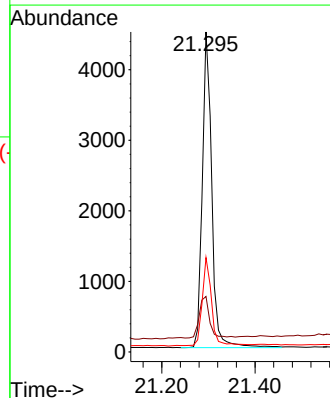
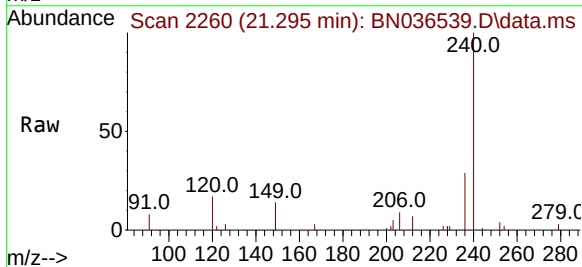
RT: 21.295 min Scan# 2260

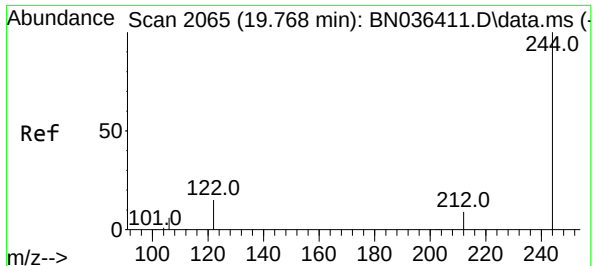
Delta R.T. 0.000 min

Lab File: BN036539.D

Acq: 06 Mar 2025 17:48

Tgt Ion:240	Resp:	6322
Ion	Ratio	Lower Upper
240	100	
120	17.4	13.3 19.9
236	29.5	23.0 34.6

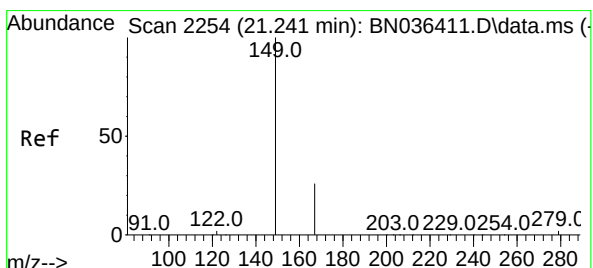
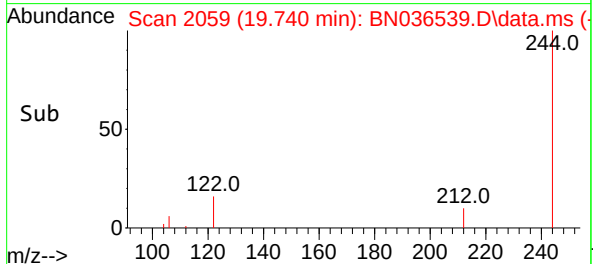
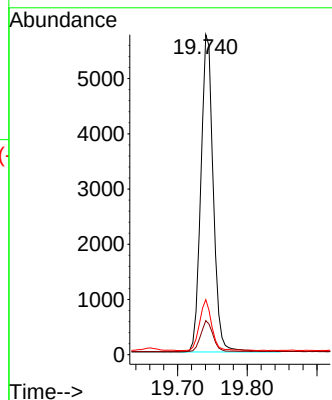
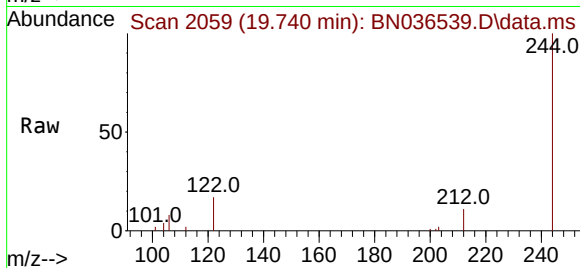




#31
Terphenyl-d14
Concen: 0.526 ng
RT: 19.740 min Scan# 2065
Delta R.T. -0.005 min
Lab File: BN036539.D
Acq: 06 Mar 2025 17:48

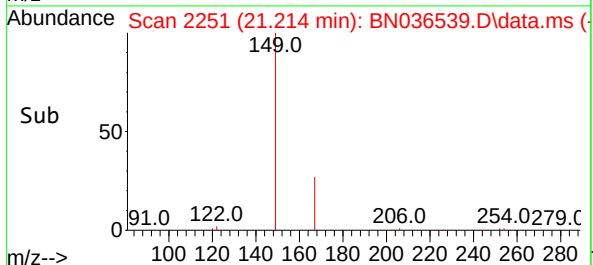
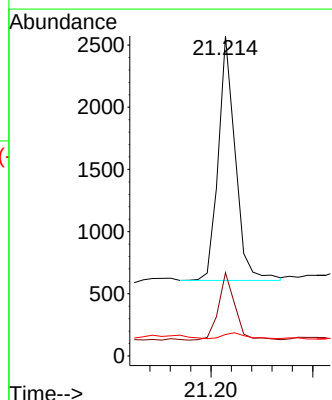
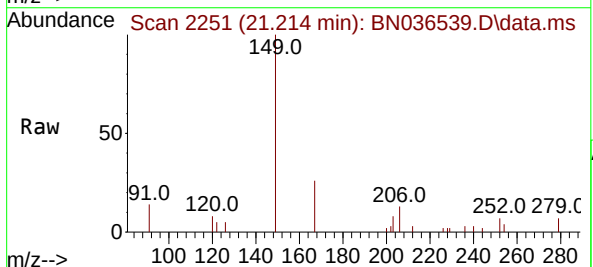
Instrument :
BNA_N
ClientSampleId :
MW-16B-87.5-030425-FD

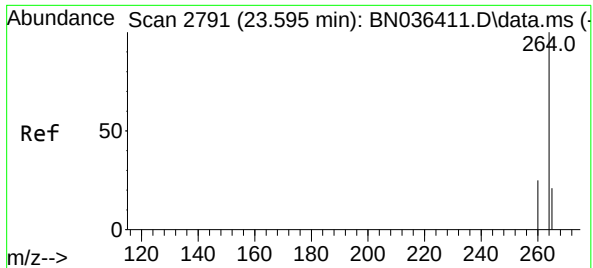
Tgt Ion:244 Resp: 7104
Ion Ratio Lower Upper
244 100
212 10.6 8.1 12.1
122 17.2 12.8 19.2



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.176 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036539.D
Acq: 06 Mar 2025 17:48

Tgt Ion:149 Resp: 2281
Ion Ratio Lower Upper
149 100
167 26.8 21.2 31.8
279 3.1 2.7 4.1





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.551 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036539.D

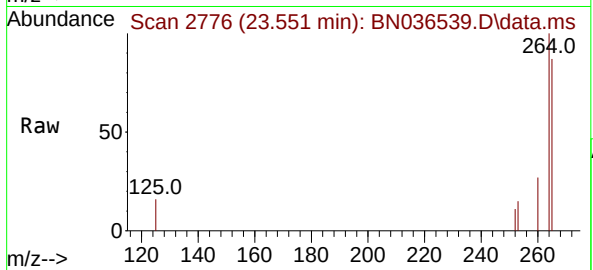
Acq: 06 Mar 2025 17:48

Instrument :

BNA_N

ClientSampleId :

MW-16B-87.5-030425-FD



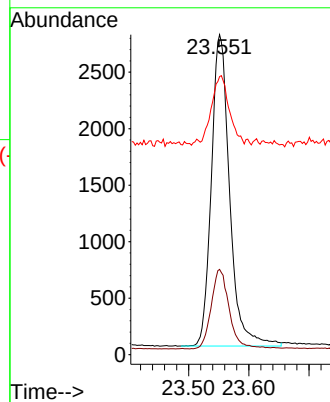
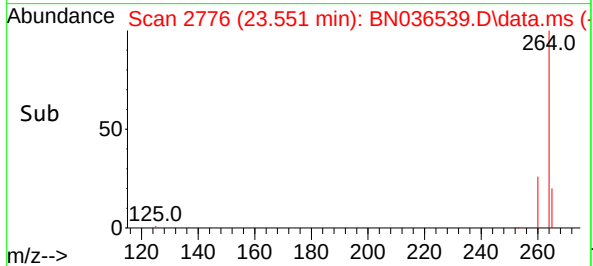
Tgt Ion:264 Resp: 5813

Ion Ratio Lower Upper

264 100

260 26.7 20.9 31.3

265 86.9 60.7 91.1



Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	03/05/25
Project:	Former Schlumberger STC PTC Site # D3868221	Date Received:	03/05/25
Client Sample ID:	EB01-030525	SDG No.:	Q1501
Lab Sample ID:	Q1501-03	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	950 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036540.D	1	03/06/25 08:26	03/06/25 18:25	PB167006

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
123-91-1	1,4-Dioxane	0.070	U	0.070	0.21	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.33		30 (20) - 150 (139)	83%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.43		30 (30) - 150 (150)	108%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		30 (27) - 130 (154)	79%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.43		30 (25) - 130 (149)	107%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.51		30 (54) - 130 (175)	127%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	1900	7.731			
1146-65-2	Naphthalene-d8	4350	10.519			
15067-26-2	Acenaphthene-d10	3040	14.366			
1517-22-2	Phenanthrene-d10	5820	17.111			
1719-03-5	Chrysene-d12	4930	21.303			
1520-96-3	Perylene-d12	4430	23.557			

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\BN030625\
Data File : BN036540.D
Acq On : 06 Mar 2025 18:25
Operator : RC/JU
Sample : Q1501-03
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
EB01-030525

Quant Time: Mar 07 00:25:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 16:08:57 2025
Response via : Initial Calibration

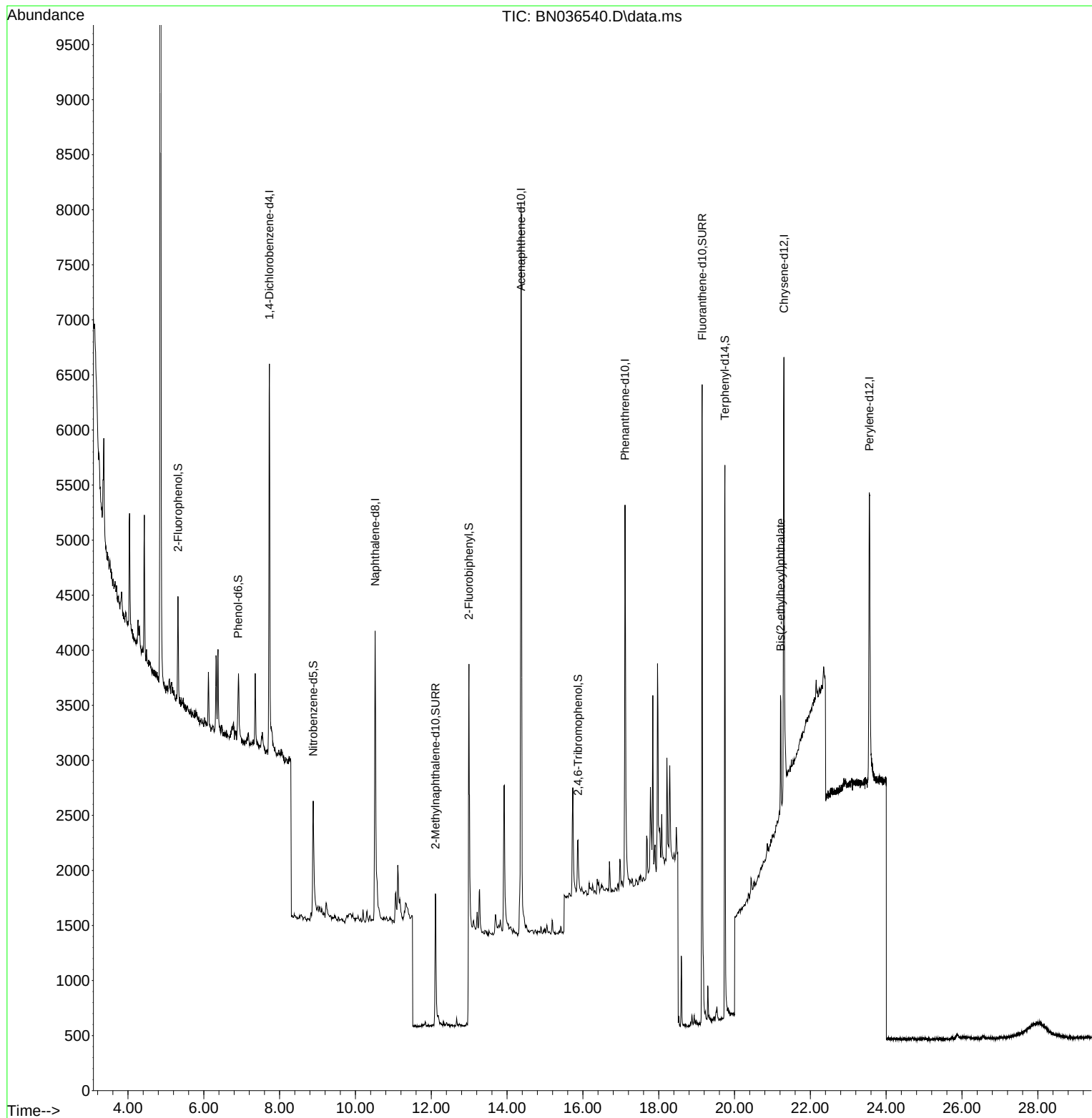
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.731	152	1902	0.400	ng	0.00
7) Naphthalene-d8	10.519	136	4348	0.400	ng	0.01
13) Acenaphthene-d10	14.366	164	3037	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	5822	0.400	ng	# 0.00
29) Chrysene-d12	21.303	240	4925	0.400	ng	0.00
35) Perylene-d12	23.557	264	4426	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.319	112	713	0.159	ng	0.00
5) Phenol-d6	6.908	99	460	0.087	ng	0.00
8) Nitrobenzene-d5	8.886	82	1361	0.317	ng	0.01
11) 2-Methylnaphthalene-d10	12.110	152	2216	0.332	ng	0.00
14) 2,4,6-Tribromophenol	15.870	330	399	0.265	ng	0.01
15) 2-Fluorobiphenyl	12.993	172	4885	0.428	ng	0.00
27) Fluoranthene-d10	19.145	212	7030	0.434	ng	0.00
31) Terphenyl-d14	19.745	244	5354	0.509	ng	0.00
Target Compounds						
34) Bis(2-ethylhexyl)phtha...	21.214	149	1164	0.115	ng	# 97

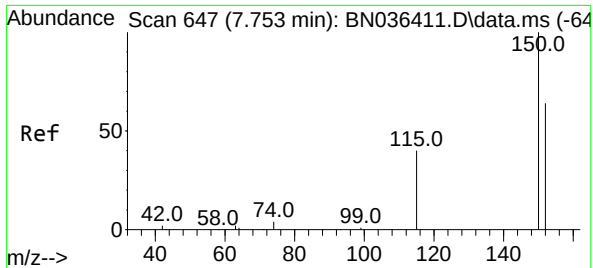
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN030625\
Data File : BN036540.D
Acq On : 06 Mar 2025 18:25
Operator : RC/JU
Sample : Q1501-03
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
EB01-030525

Quant Time: Mar 07 00:25:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 16:08:57 2025
Response via : Initial Calibration

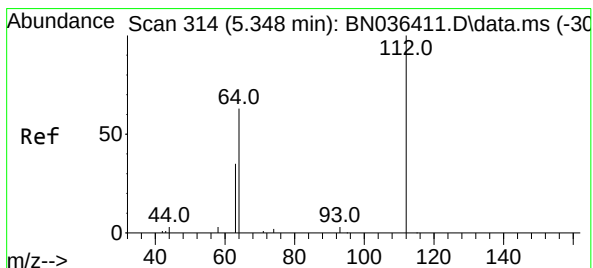
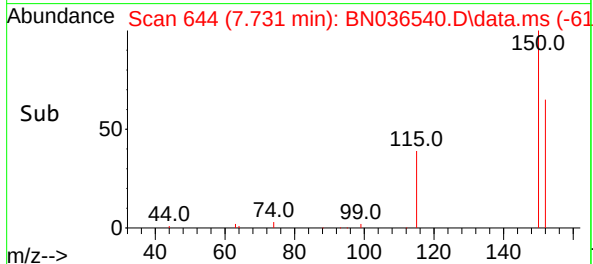
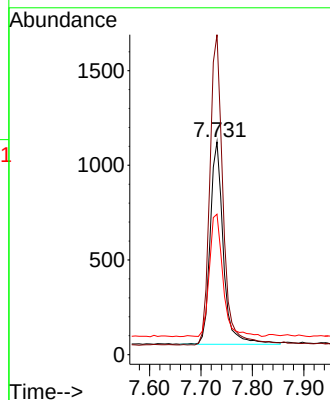
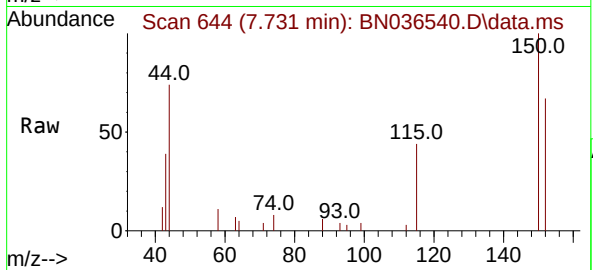




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.731 min Scan# 64
Delta R.T. -0.001 min
Lab File: BN036540.D
Acq: 06 Mar 2025 18:25

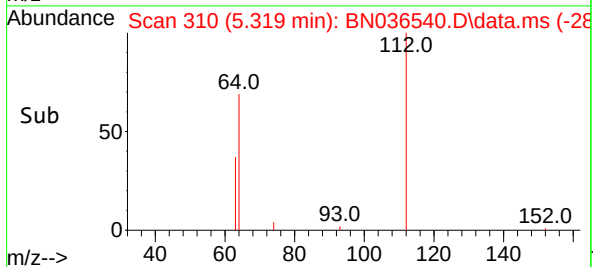
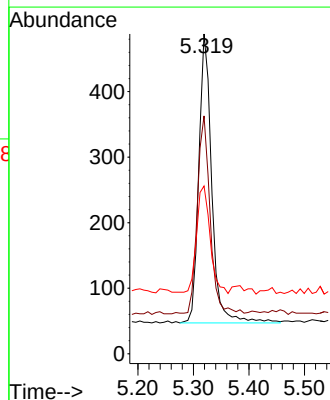
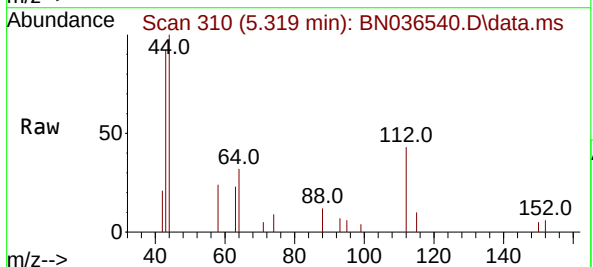
Instrument :
BNA_N
ClientSampleId :
EB01-030525

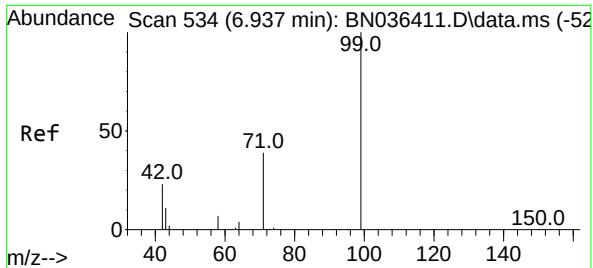
Tgt Ion:152 Resp: 1902
Ion Ratio Lower Upper
152 100
150 150.4 123.7 185.5
115 66.0 52.5 78.7



#4
2-Fluorophenol
Concen: 0.159 ng
RT: 5.319 min Scan# 310
Delta R.T. -0.000 min
Lab File: BN036540.D
Acq: 06 Mar 2025 18:25

Tgt Ion:112 Resp: 713
Ion Ratio Lower Upper
112 100
64 67.5 53.4 80.0
63 38.6 30.3 45.5

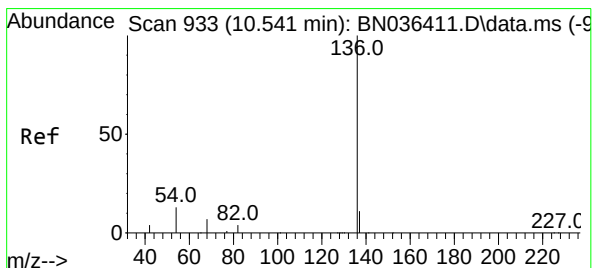
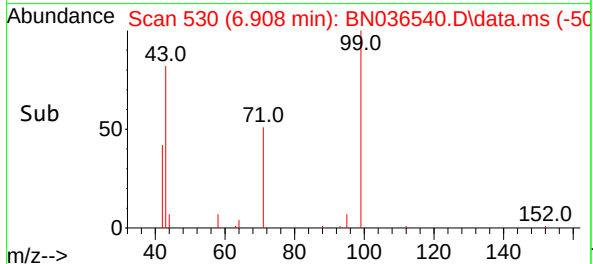
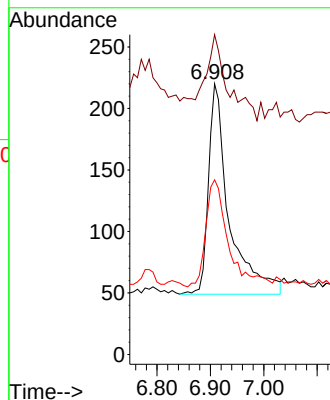
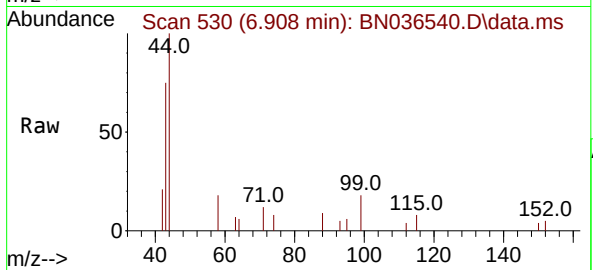




#5
Phenol-d6
Concen: 0.087 ng
RT: 6.908 min Scan# 51
Delta R.T. 0.007 min
Lab File: BN036540.D
Acq: 06 Mar 2025 18:25

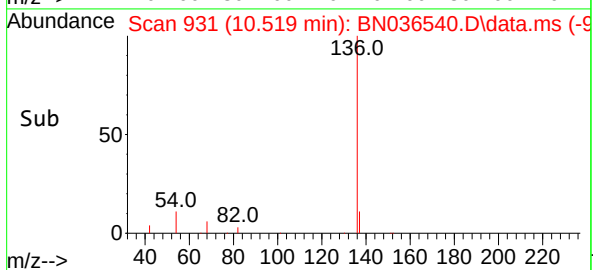
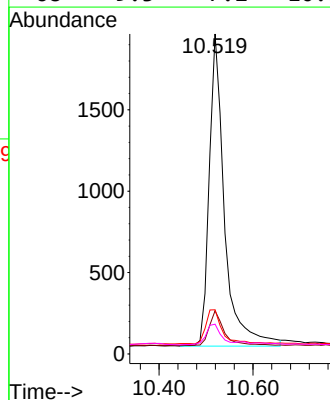
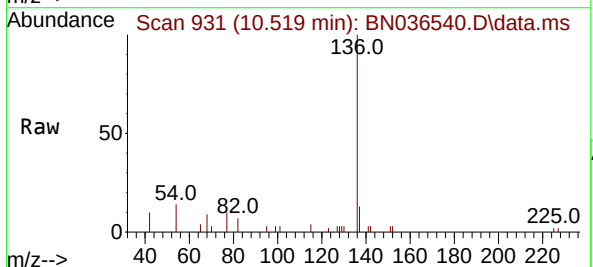
Instrument :
BNA_N
ClientSampleId :
EB01-030525

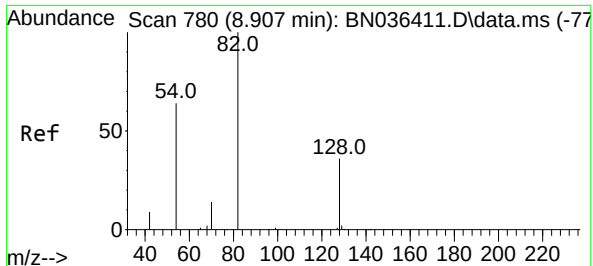
Tgt Ion: 99 Resp: 460
Ion Ratio Lower Upper
99 100
42 43.0 21.7 32.5#
71 55.2 32.6 49.0#



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.519 min Scan# 931
Delta R.T. 0.010 min
Lab File: BN036540.D
Acq: 06 Mar 2025 18:25

Tgt Ion: 136 Resp: 4348
Ion Ratio Lower Upper
136 100
137 13.5 10.1 15.1
54 13.8 11.8 17.6
68 9.3 7.2 10.8

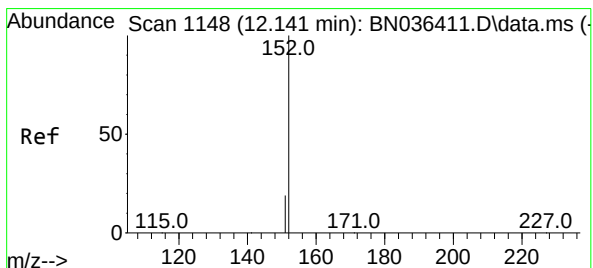
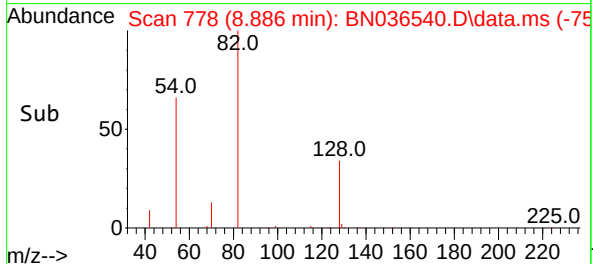
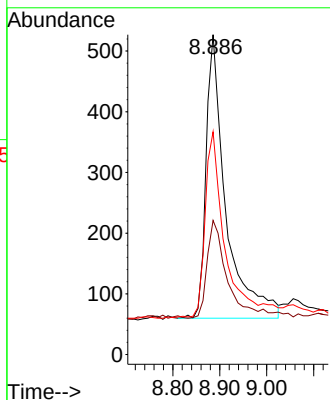
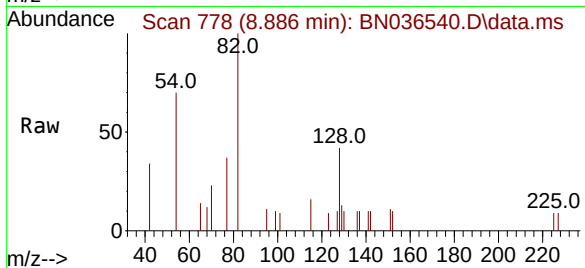




#8
Nitrobenzene-d5
Concen: 0.317 ng
RT: 8.886 min Scan# 71
Delta R.T. 0.010 min
Lab File: BN036540.D
Acq: 06 Mar 2025 18:25

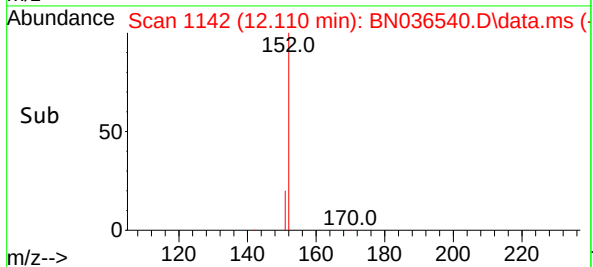
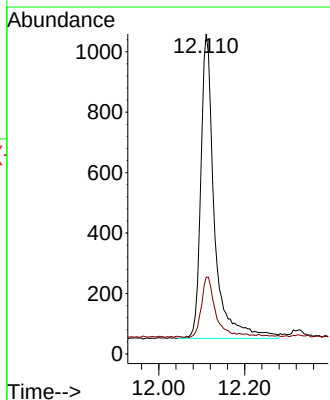
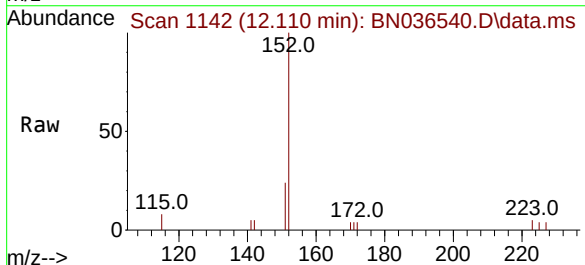
Instrument :
BNA_N
ClientSampleId :
EB01-030525

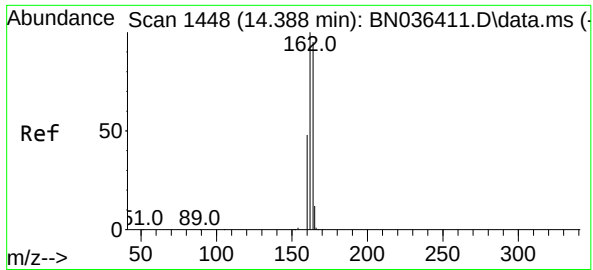
Tgt Ion:	82	Resp:	1361
Ion	Ratio	Lower	Upper
82	100		
128	41.9	31.9	47.9
54	69.6	53.1	79.7



#11
2-Methylnaphthalene-d10
Concen: 0.332 ng
RT: 12.110 min Scan# 1142
Delta R.T. 0.005 min
Lab File: BN036540.D
Acq: 06 Mar 2025 18:25

Tgt Ion:	152	Resp:	2216
Ion	Ratio	Lower	Upper
152	100		
151	21.2	16.6	25.0

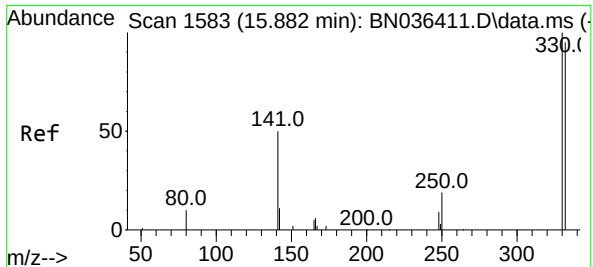
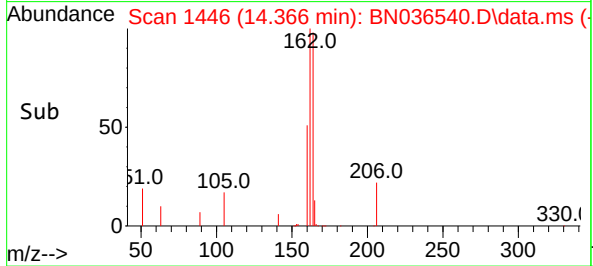
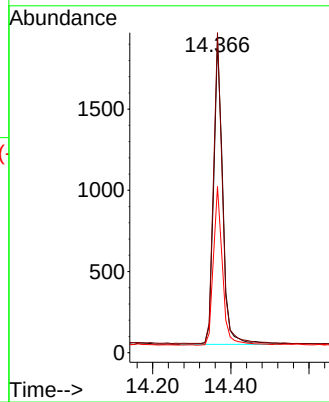
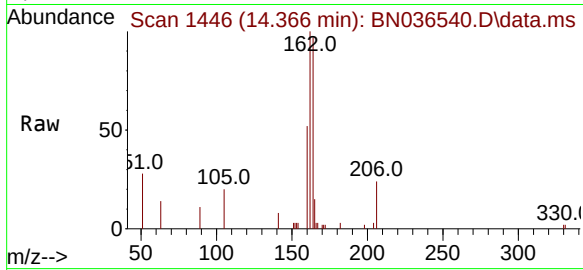




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. -0.000 min
Lab File: BN036540.D
Acq: 06 Mar 2025 18:25

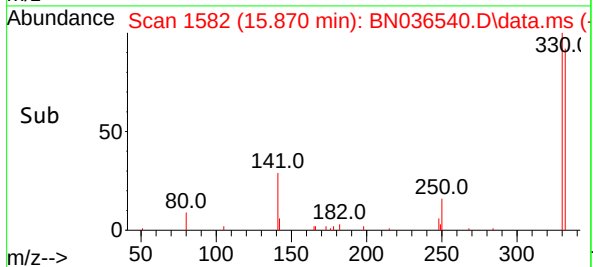
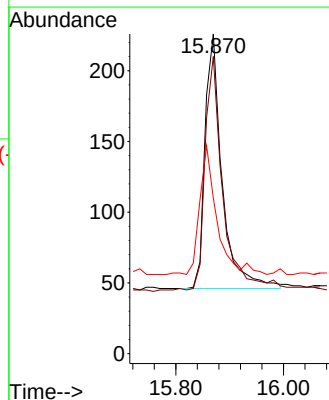
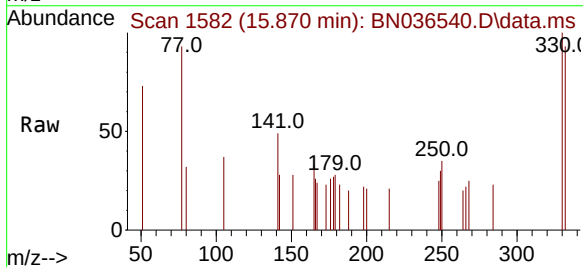
Instrument :
BNA_N
ClientSampleId :
EB01-030525

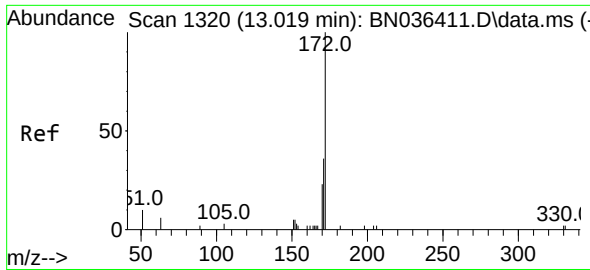
Tgt Ion:164 Resp: 3037
Ion Ratio Lower Upper
164 100
162 102.6 84.1 126.1
160 53.3 41.4 62.0



#14
2,4,6-Tribromophenol
Concen: 0.265 ng
RT: 15.870 min Scan# 1582
Delta R.T. 0.012 min
Lab File: BN036540.D
Acq: 06 Mar 2025 18:25

Tgt Ion:330 Resp: 399
Ion Ratio Lower Upper
330 100
332 98.7 76.6 114.8
141 51.9 37.8 56.8

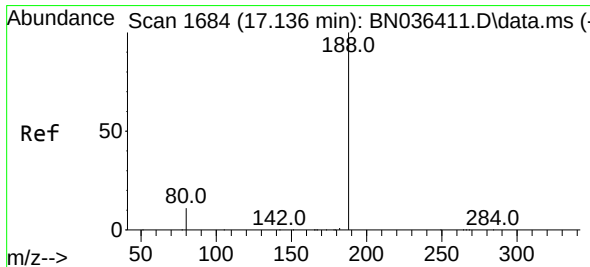
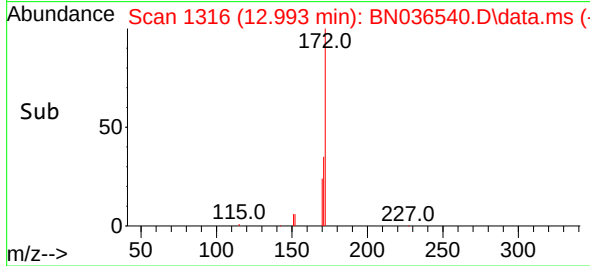
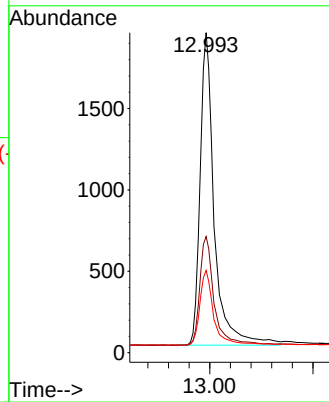
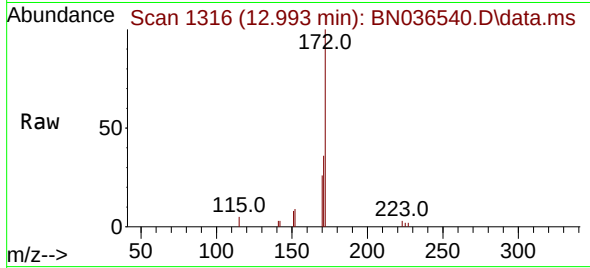




#15
2-Fluorobiphenyl
Concen: 0.428 ng
RT: 12.993 min Scan# 11
Delta R.T. 0.005 min
Lab File: BN036540.D
Acq: 06 Mar 2025 18:25

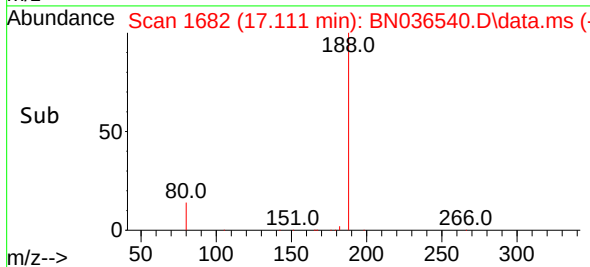
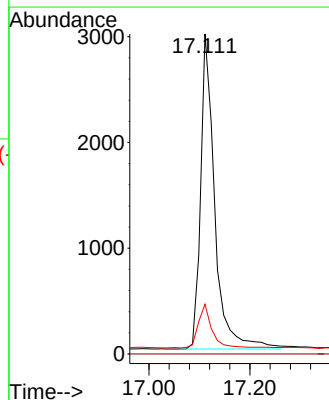
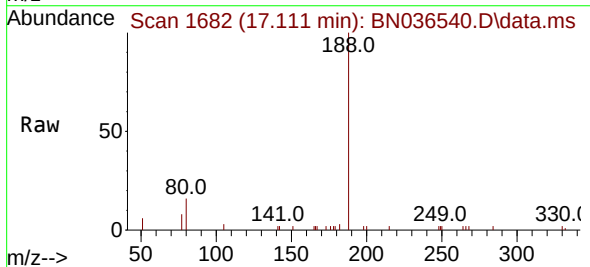
Instrument :
BNA_N
ClientSampleId :
EB01-030525

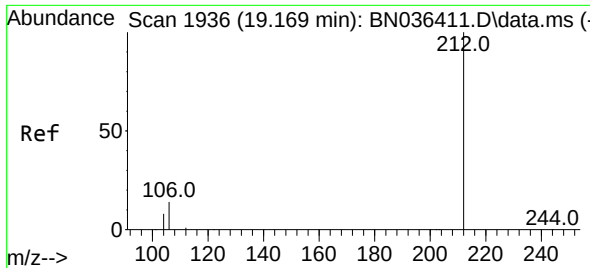
Tgt Ion:	172	Resp:	4885
Ion Ratio	Lower	Upper	
172	100		
171	36.3	29.6	44.4
170	25.7	19.8	29.6



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1682
Delta R.T. -0.000 min
Lab File: BN036540.D
Acq: 06 Mar 2025 18:25

Tgt Ion:	188	Resp:	5822
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	15.5	9.8	14.6#

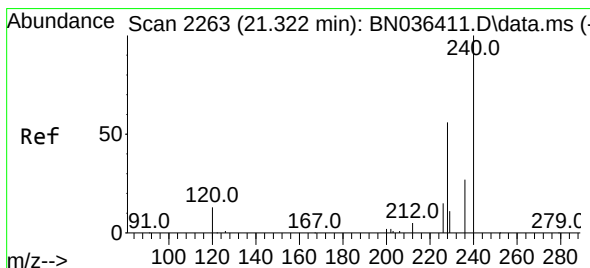
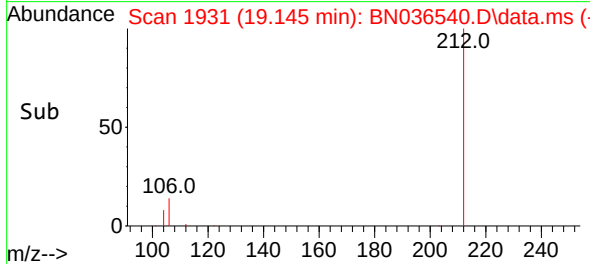
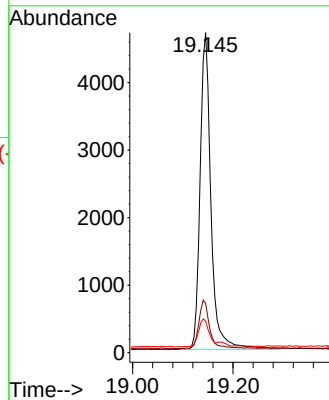
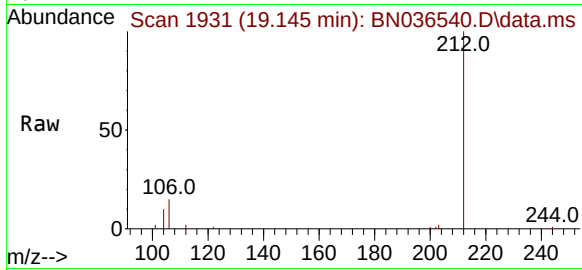




#27
Fluoranthene-d10
Concen: 0.434 ng
RT: 19.145 min Scan# 1931
Delta R.T. 0.004 min
Lab File: BN036540.D
Acq: 06 Mar 2025 18:25

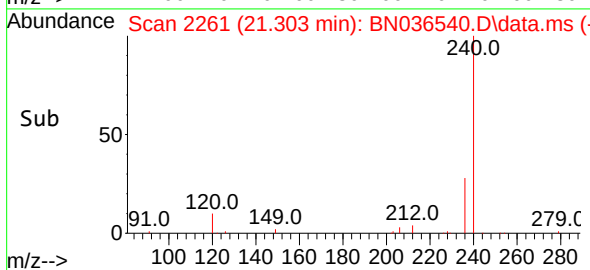
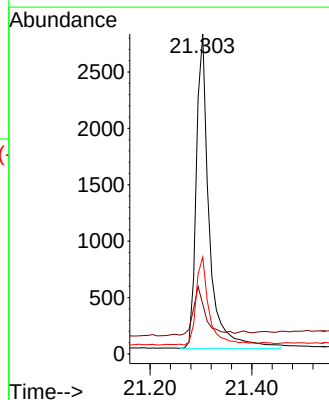
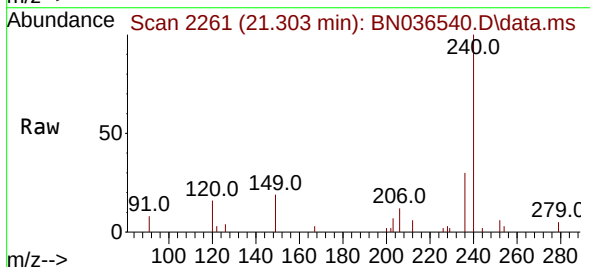
Instrument :
BNA_N
ClientSampleId :
EB01-030525

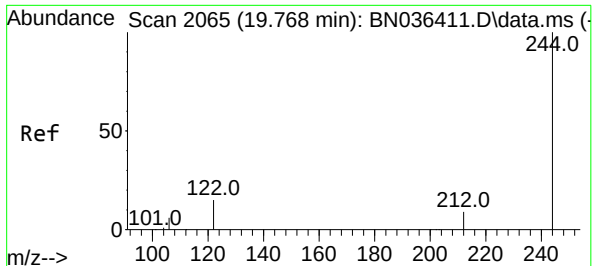
Tgt Ion	Ratio	Lower	Upper
212	100		
106	15.1	11.5	17.3
104	8.9	7.1	10.7



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.303 min Scan# 2261
Delta R.T. 0.009 min
Lab File: BN036540.D
Acq: 06 Mar 2025 18:25

Tgt Ion	Ratio	Lower	Upper
240	100		
120	15.5	13.3	19.9
236	30.2	23.0	34.6

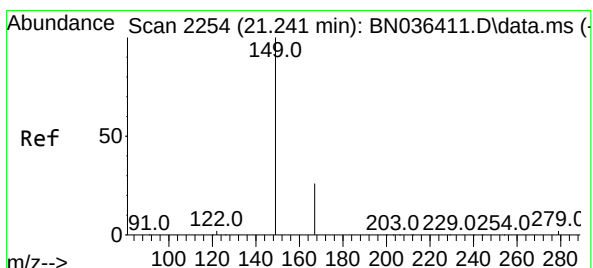
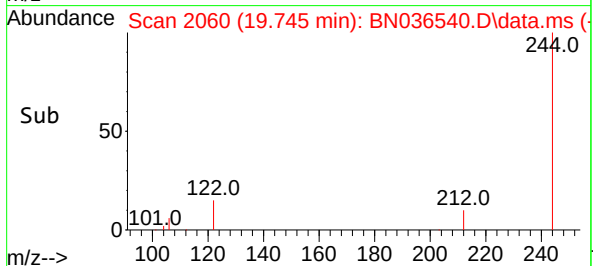
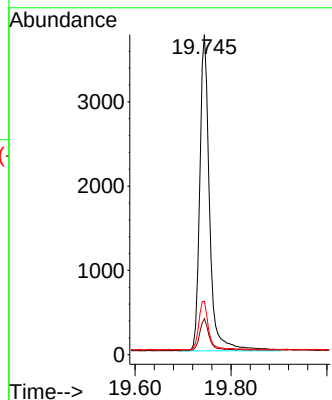
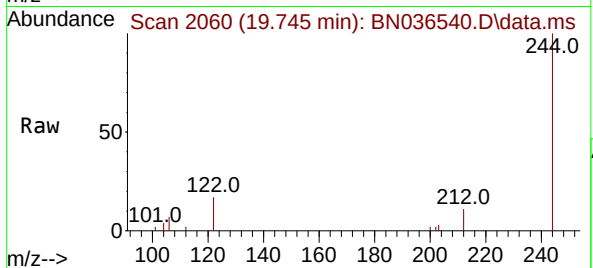




#31
Terphenyl-d14
Concen: 0.509 ng
RT: 19.745 min Scan# 2060
Delta R.T. -0.000 min
Lab File: BN036540.D
Acq: 06 Mar 2025 18:25

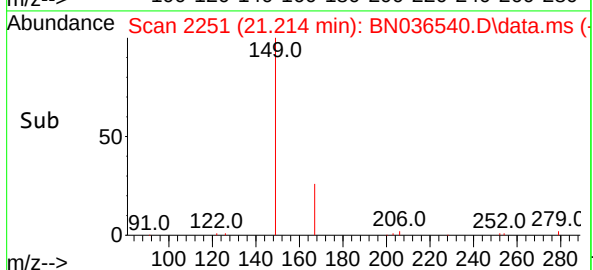
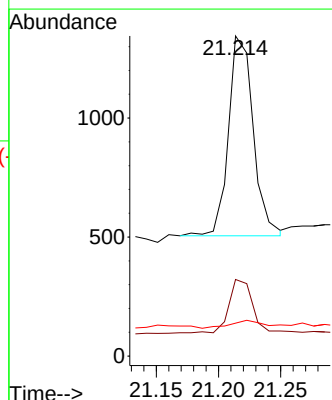
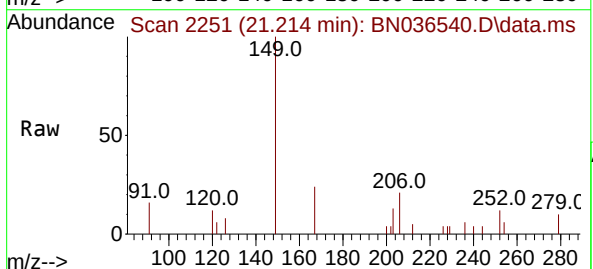
Instrument :
BNA_N
ClientSampleId :
EB01-030525

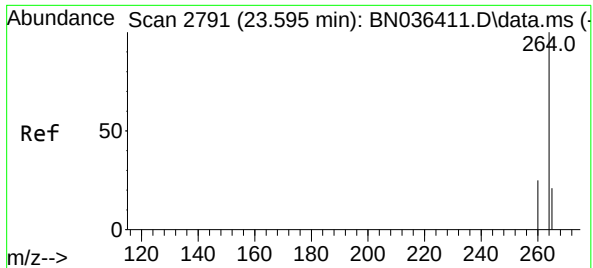
Tgt Ion:244 Resp: 5354
Ion Ratio Lower Upper
244 100
212 11.2 8.1 12.1
122 16.7 12.8 19.2



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.115 ng
RT: 21.214 min Scan# 2251
Delta R.T. -0.000 min
Lab File: BN036540.D
Acq: 06 Mar 2025 18:25

Tgt Ion:149 Resp: 1164
Ion Ratio Lower Upper
149 100
167 25.1 21.2 31.8
279 6.0 2.7 4.1#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.557 min Scan# 21

Delta R.T. 0.005 min

Lab File: BN036540.D

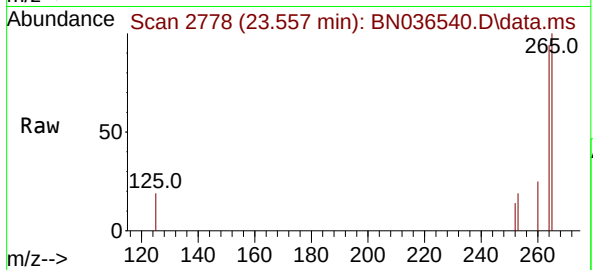
Acq: 06 Mar 2025 18:25

Instrument :

BNA_N

ClientSampleId :

EB01-030525



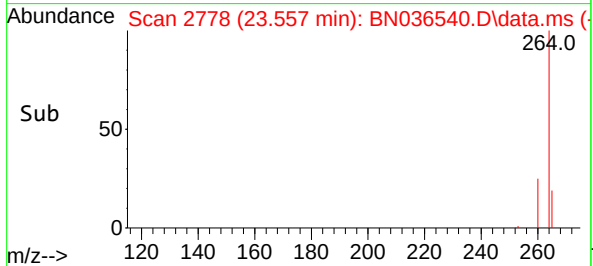
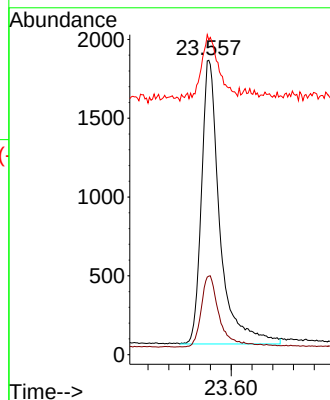
Tgt Ion:264 Resp: 4426

Ion Ratio Lower Upper

264 100

260 26.7 20.9 31.3

265 106.9 60.7 91.1#



Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	03/05/25
Project:	Former Schlumberger STC PTC Site # D3868221	Date Received:	03/05/25
Client Sample ID:	BR-05-465-030525	SDG No.:	Q1501
Lab Sample ID:	Q1501-04	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
BN036536.D	1	03/06/25 08:26	03/06/25 15:24	PB167006

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
123-91-1	1,4-Dioxane	0.33		0.070	0.21	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.30		30 (20) - 150 (139)	75%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.42		30 (30) - 150 (150)	105%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		30 (27) - 130 (154)	81%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.51		30 (25) - 130 (149)	128%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.54	*	30 (54) - 130 (175)	135%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	2360	7.724			
1146-65-2	Naphthalene-d8	5900	10.519			
15067-26-2	Acenaphthene-d10	3730	14.366			
1517-22-2	Phenanthrene-d10	7440	17.111			
1719-03-5	Chrysene-d12	6930	21.295			
1520-96-3	Perylene-d12	6220	23.554			

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\BN030625\
Data File : BN036536.D
Acq On : 06 Mar 2025 15:24
Operator : RC/JU
Sample : Q1501-04
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BR-05-465-030525

Quant Time: Mar 06 16:27:22 2025
Quant Title :
QLast Update : Wed Mar 05 16:08:57 2025
Response via : Initial Calibration

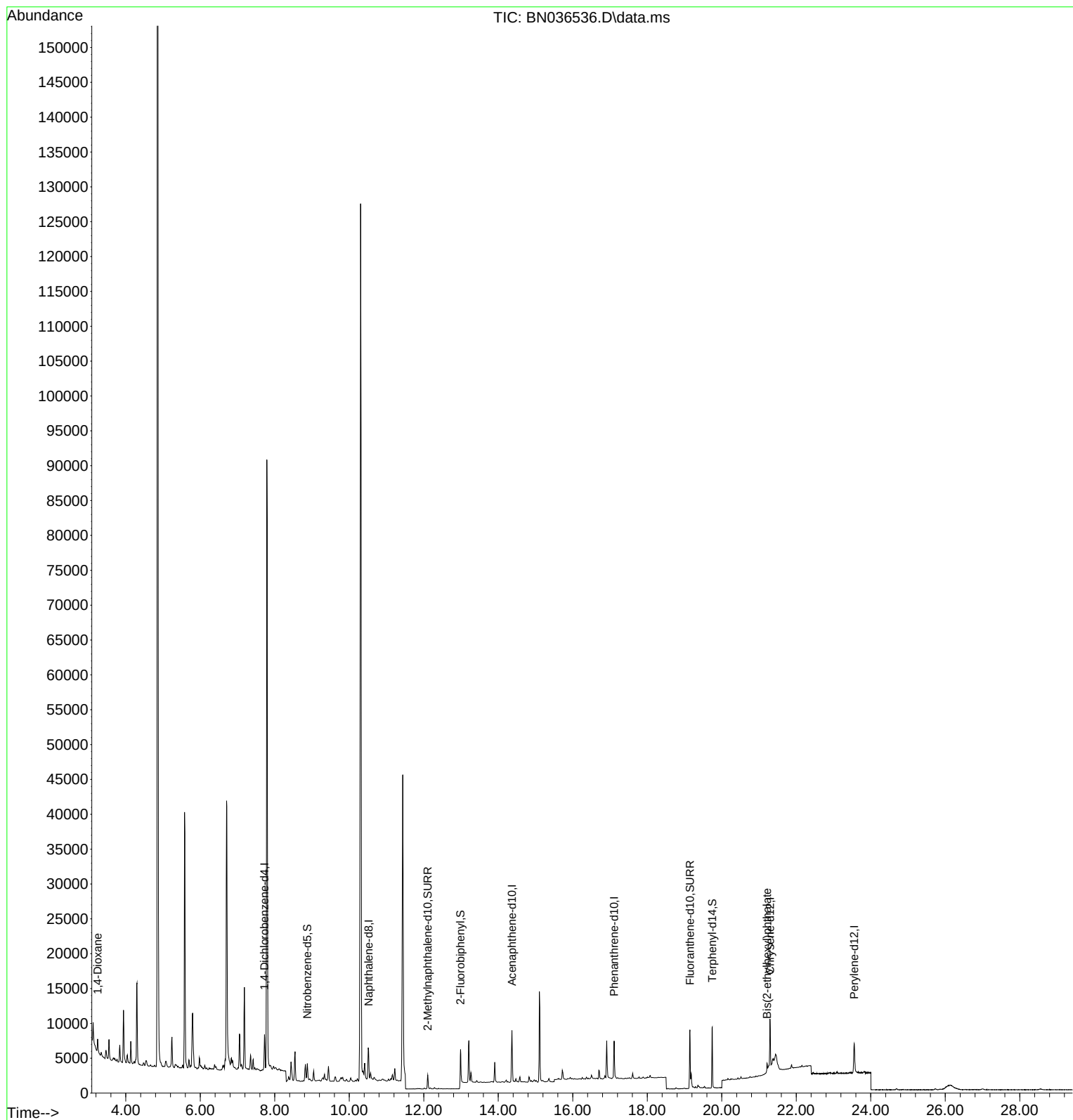
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2357	0.400	ng	0.00
7) Naphthalene-d8	10.519	136	5902	0.400	ng	# 0.01
13) Acenaphthene-d10	14.366	164	3734	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	7437	0.400	ng	0.00
29) Chrysene-d12	21.295	240	6928	0.400	ng	0.00
35) Perylene-d12	23.554	264	6218	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	0.000	112	0d	0.000	ng	
5) Phenol-d6	0.000	99	0d	0.000	ng	
8) Nitrobenzene-d5	8.875	82	1873	0.322	ng	0.00
11) 2-Methylnaphthalene-d10	12.106	152	2729	0.301	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	31	0.017	ng	0.00
15) 2-Fluorobiphenyl	12.988	172	7209	0.513	ng	0.00
27) Fluoranthene-d10	19.146	212	8675	0.419	ng	0.00
31) Terphenyl-d14	19.745	244	7993	0.540	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.247	88	816	0.316	ng	# 50
34) Bis(2-ethylhexyl)phtha...	21.214	149	1755	0.124	ng	# 85

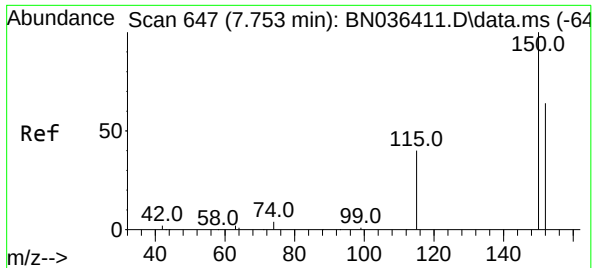
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN030625\
Data File : BN036536.D
Acq On : 06 Mar 2025 15:24
Operator : RC/JU
Sample : Q1501-04
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BR-05-465-030525

Quant Time: Mar 06 16:27:22 2025
Quant Title :
QLast Update : Wed Mar 05 16:08:57 2025
Response via : Initial Calibration

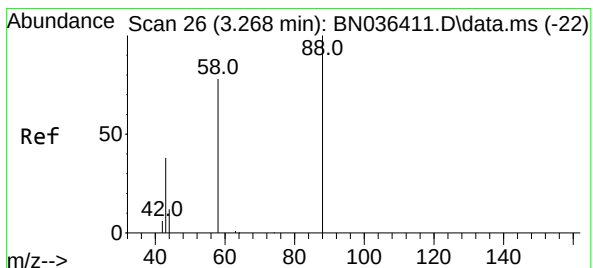
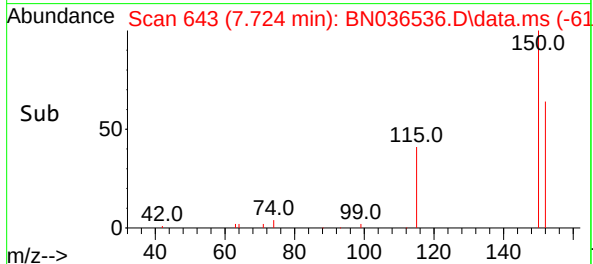
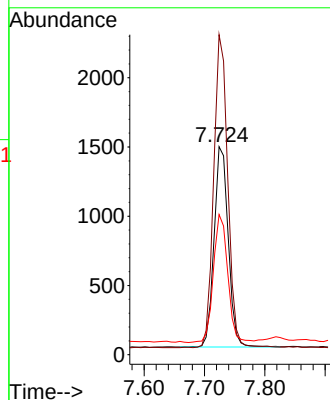
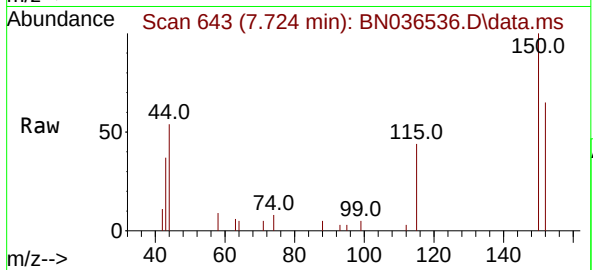




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. -0.008 min
Lab File: BN036536.D
Acq: 06 Mar 2025 15:24

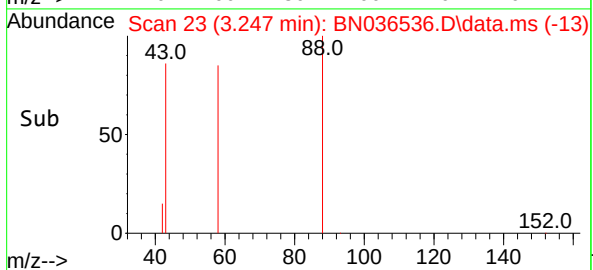
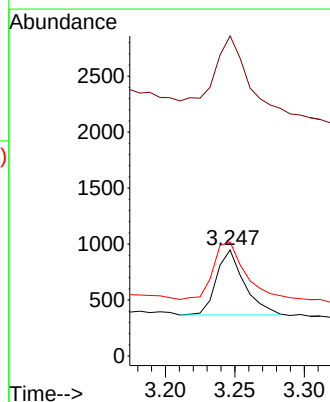
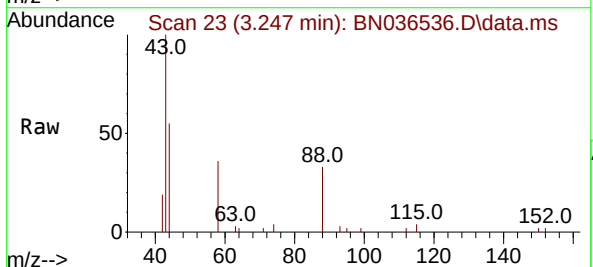
Instrument :
BNA_N
ClientSampleId :
BR-05-465-030525

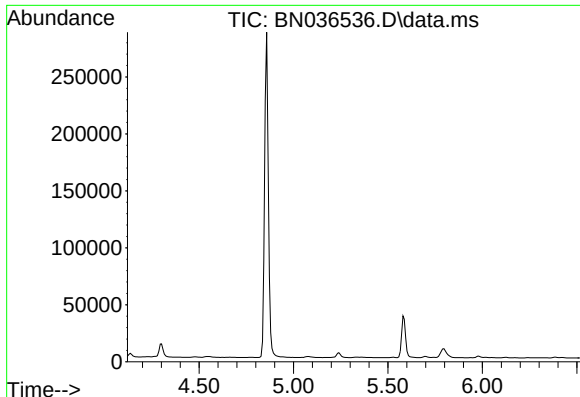
Tgt Ion:152 Resp: 2357
Ion Ratio Lower Upper
152 100
150 153.9 123.7 185.5
115 67.4 52.5 78.7



#2
1,4-Dioxane
Concen: 0.316 ng
RT: 3.247 min Scan# 23
Delta R.T. -0.000 min
Lab File: BN036536.D
Acq: 06 Mar 2025 15:24

Tgt Ion: 88 Resp: 816
Ion Ratio Lower Upper
88 100
43 119.2 33.7 50.5#
58 99.6 68.9 103.3



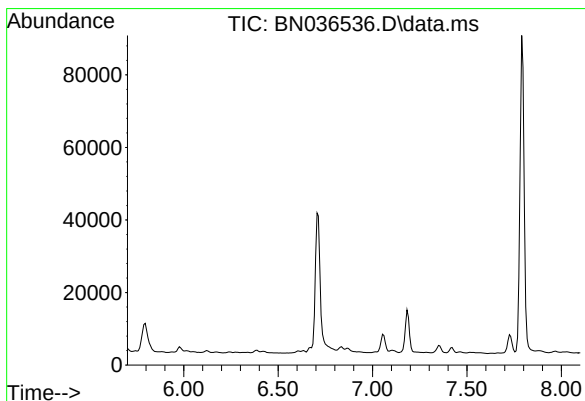
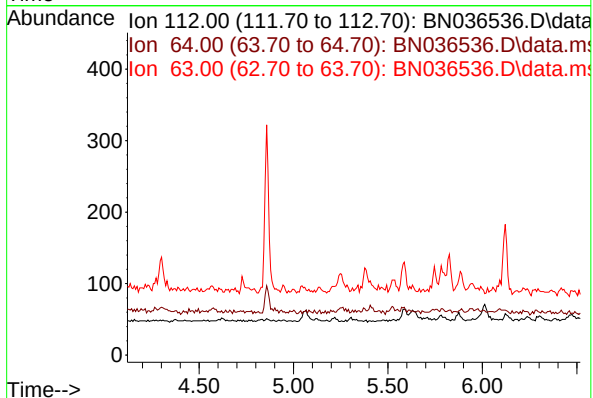


#4
2-Fluorophenol
Concen: 0.000 ng
Expected RT: 5.32 min

Lab File: BN036536.D
Acq: 06 Mar 2025 15:24

Instrument :
BNA_N
ClientSampleId :
BR-05-465-030525

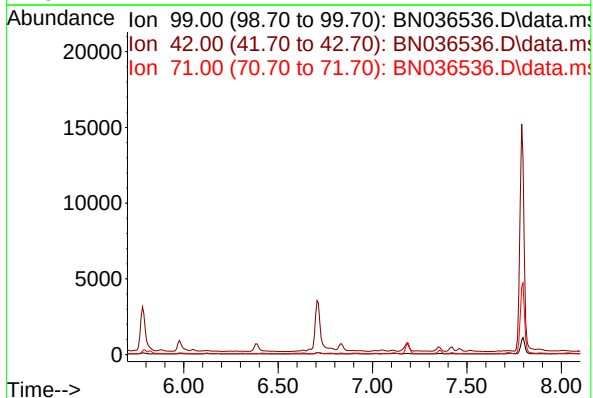
Tgt Ion:	112
Sig	Exp Ratio
112	100
64	66.7
63	37.9

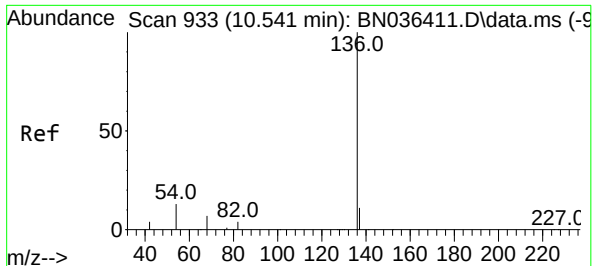


#5
Phenol-d6
Concen: 0.000 ng
Expected RT: 6.90 min

Lab File: BN036536.D
Acq: 06 Mar 2025 15:24

Tgt Ion:	99
Sig	Exp Ratio
99	100
42	27.1
71	40.8

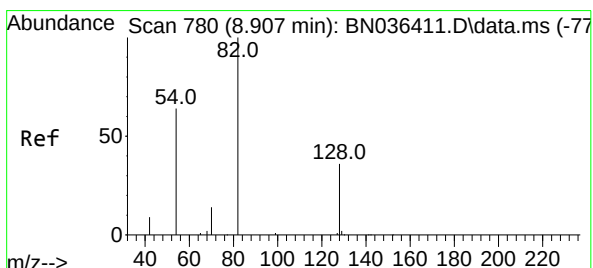
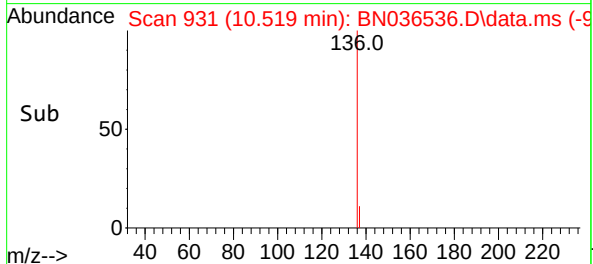
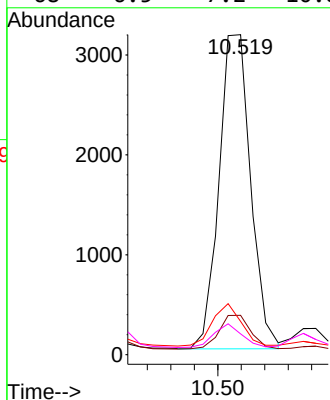
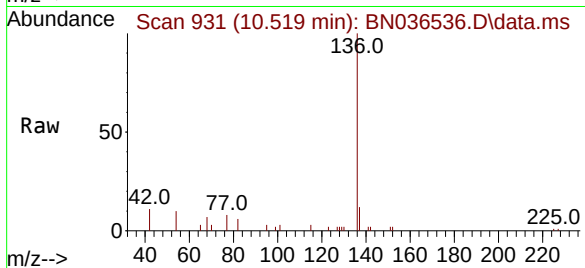




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.519 min Scan# 911
Delta R.T. 0.011 min
Lab File: BN036536.D
Acq: 06 Mar 2025 15:24

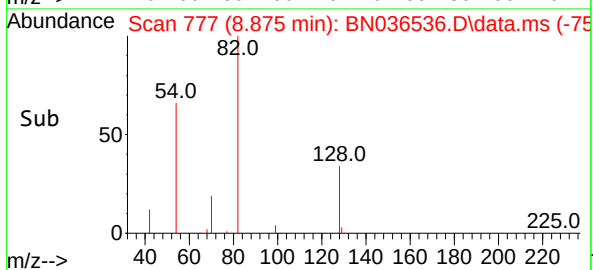
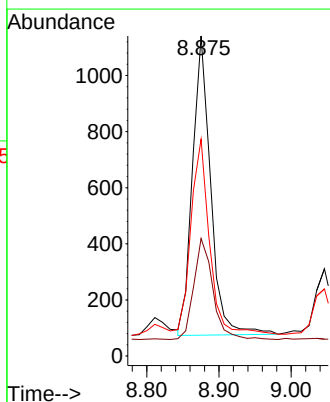
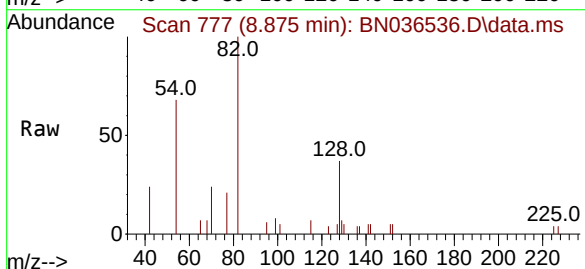
Instrument :
BNA_N
ClientSampleId :
BR-05-465-030525

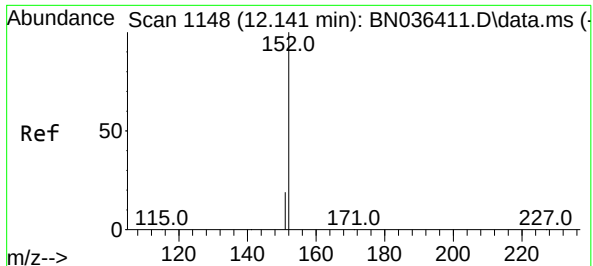
Tgt Ion:	136	Resp:	5902
Ion	Ratio	Lower	Upper
136	100		
137	12.3	10.1	15.1
54	10.4	11.8	17.6#
68	6.5	7.2	10.8#



#8
Nitrobenzene-d5
Concen: 0.322 ng
RT: 8.875 min Scan# 777
Delta R.T. -0.000 min
Lab File: BN036536.D
Acq: 06 Mar 2025 15:24

Tgt Ion:	82	Resp:	1873
Ion	Ratio	Lower	Upper
82	100		
128	36.7	31.9	47.9
54	67.7	53.1	79.7

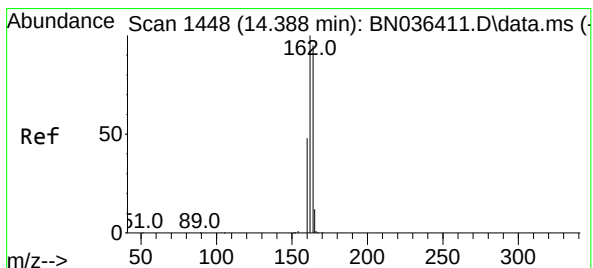
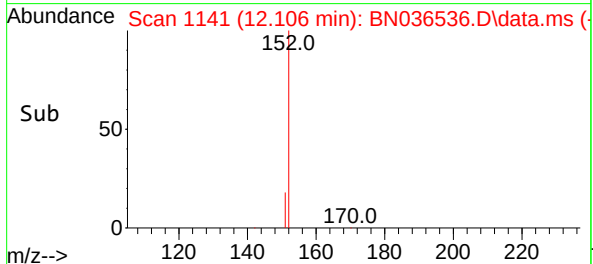
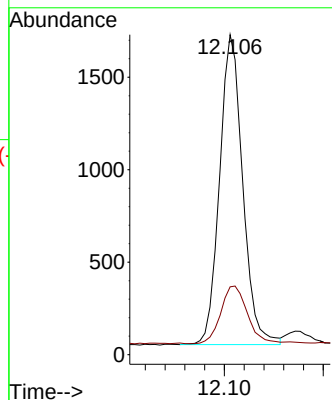
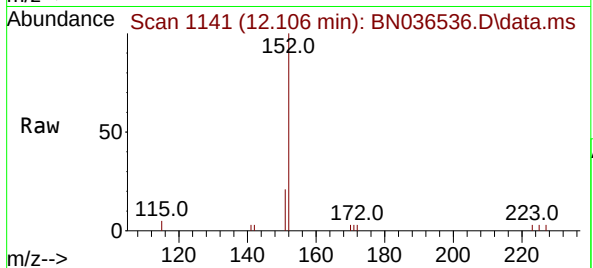




#11
2-Methylnaphthalene-d10
Concen: 0.301 ng
RT: 12.106 min Scan# 1141
Delta R.T. -0.000 min
Lab File: BN036536.D
Acq: 06 Mar 2025 15:24

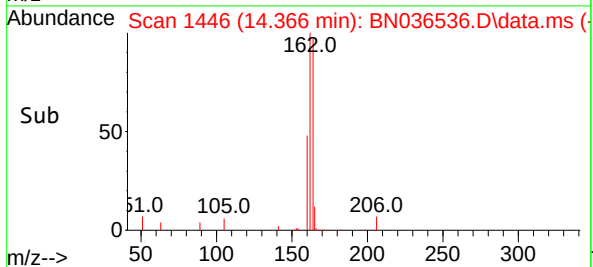
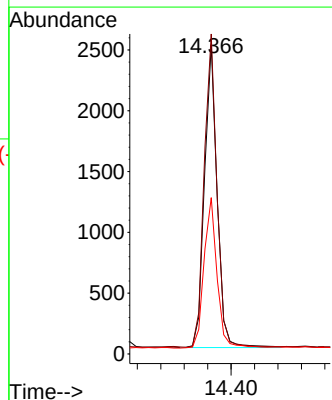
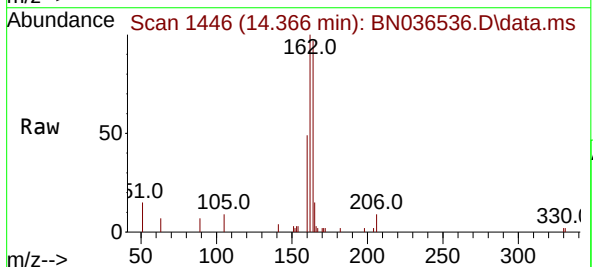
Instrument :
BNA_N
ClientSampleId :
BR-05-465-030525

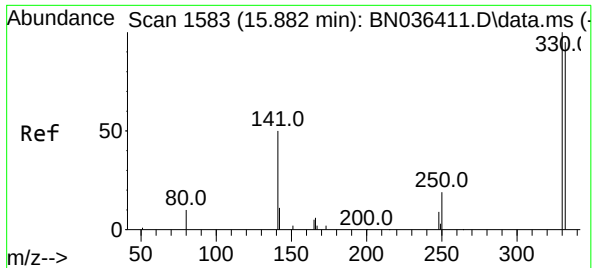
Tgt Ion:152 Resp: 2729
Ion Ratio Lower Upper
152 100
151 21.9 16.6 25.0



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. -0.000 min
Lab File: BN036536.D
Acq: 06 Mar 2025 15:24

Tgt Ion:164 Resp: 3734
Ion Ratio Lower Upper
164 100
162 103.5 84.1 126.1
160 50.5 41.4 62.0

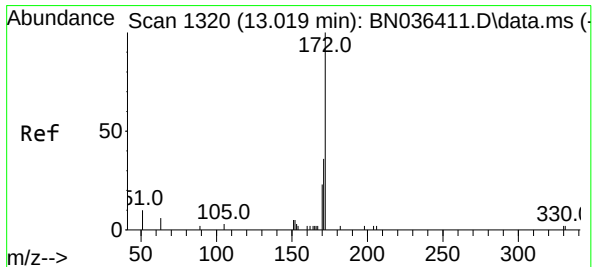
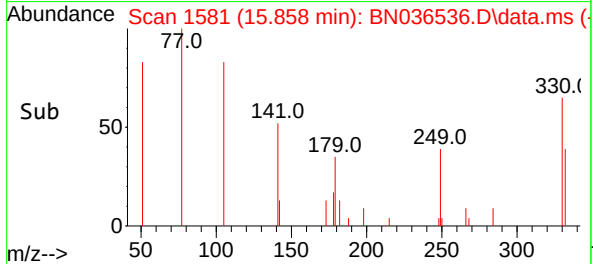
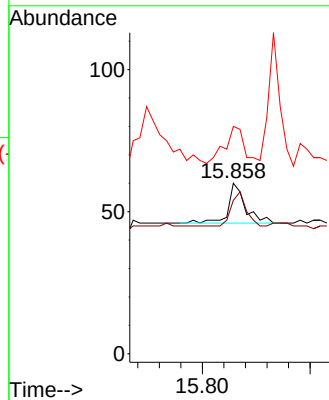
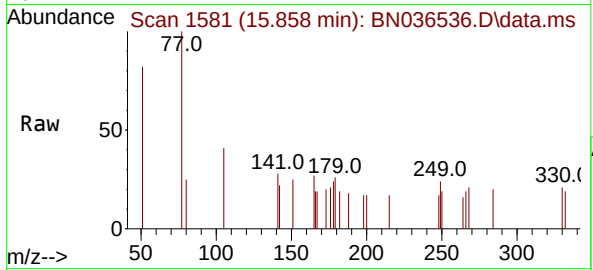




#14
2,4,6-Tribromophenol
Concen: 0.017 ng
RT: 15.858 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN036536.D
Acq: 06 Mar 2025 15:24

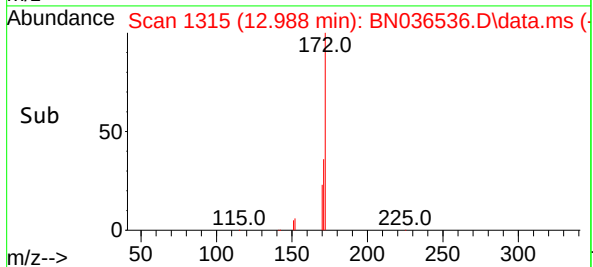
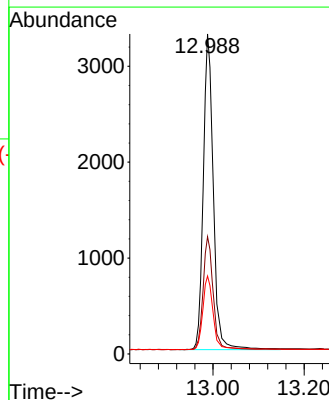
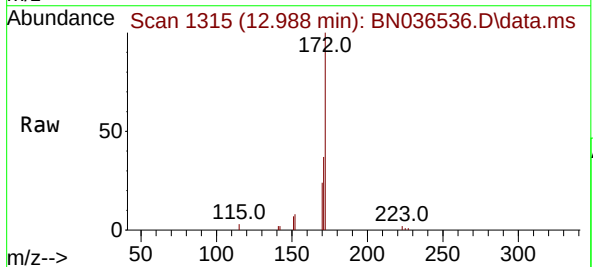
Instrument :
BNA_N
ClientSampleId :
BR-05-465-030525

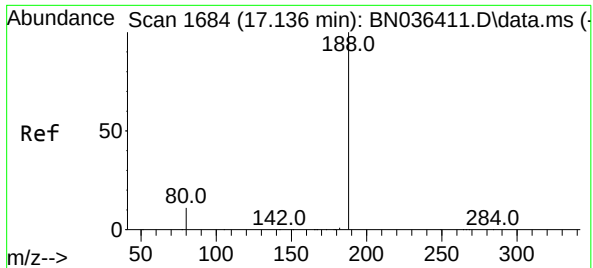
Tgt Ion: 330 Resp: 31
Ion Ratio Lower Upper
330 100
332 80.6 76.6 114.8
141 103.2 37.8 56.8#



#15
2-Fluorobiphenyl
Concen: 0.513 ng
RT: 12.988 min Scan# 1315
Delta R.T. -0.000 min
Lab File: BN036536.D
Acq: 06 Mar 2025 15:24

Tgt Ion: 172 Resp: 7209
Ion Ratio Lower Upper
172 100
171 36.6 29.6 44.4
170 24.3 19.8 29.6





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.111 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN036536.D

Acq: 06 Mar 2025 15:24

Instrument :

BNA_N

ClientSampleId :

BR-05-465-030525

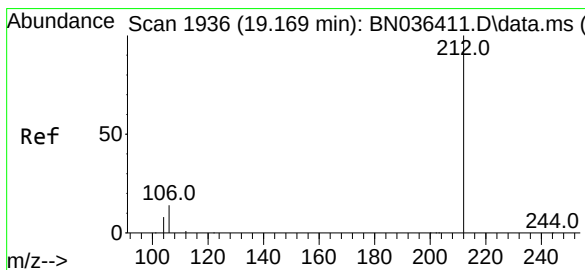
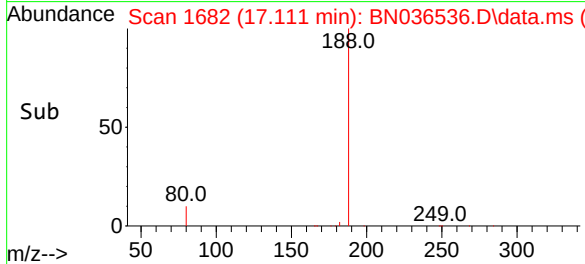
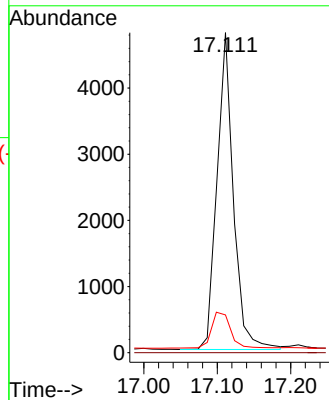
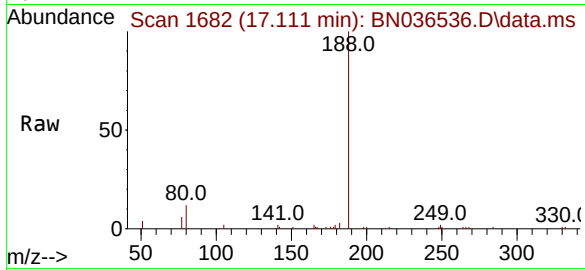
Tgt Ion:188 Resp: 7437

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.8 9.8 14.6



#27

Fluoranthene-d10

Concen: 0.419 ng

RT: 19.146 min Scan# 1931

Delta R.T. 0.005 min

Lab File: BN036536.D

Acq: 06 Mar 2025 15:24

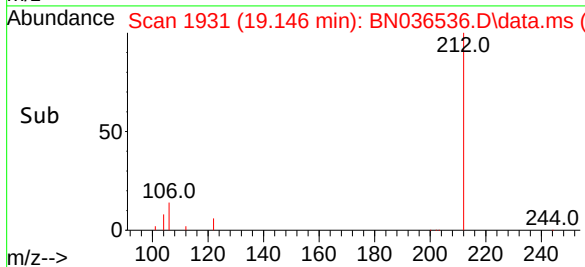
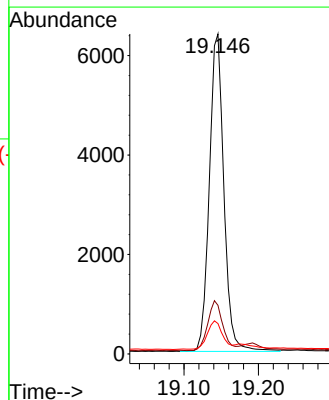
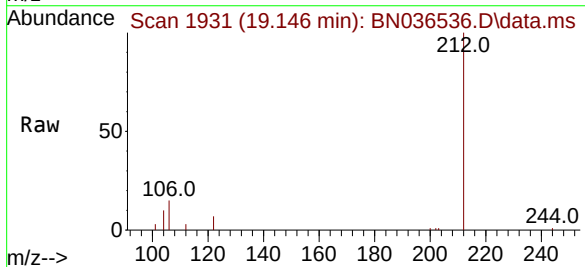
Tgt Ion:212 Resp: 8675

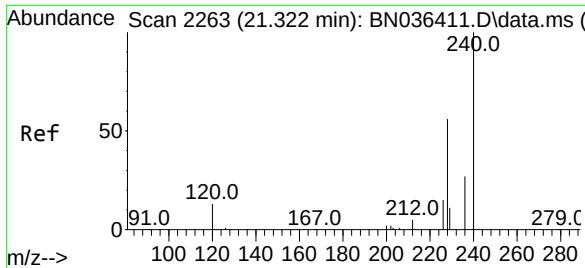
Ion Ratio Lower Upper

212 100

106 16.1 11.5 17.3

104 9.2 7.1 10.7

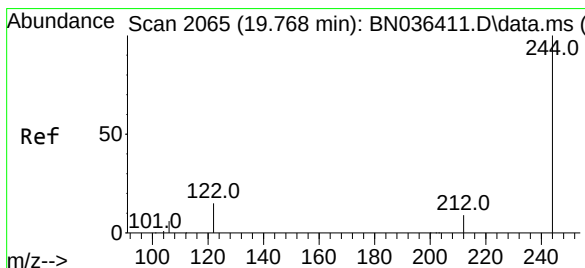
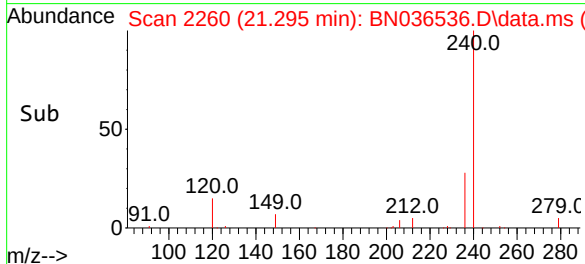
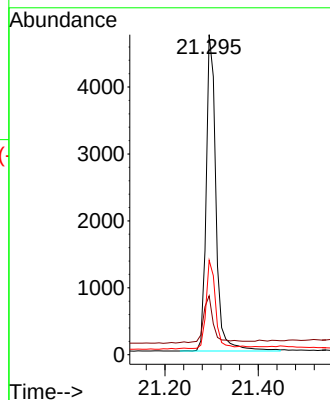
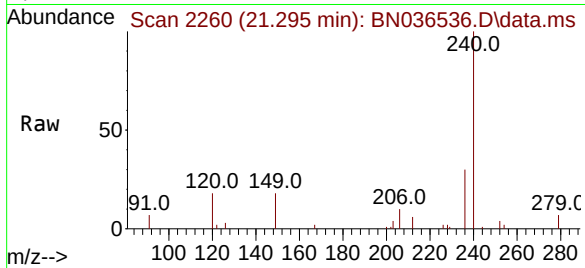




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN036536.D
Acq: 06 Mar 2025 15:24

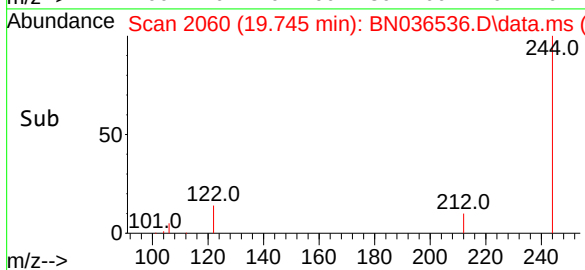
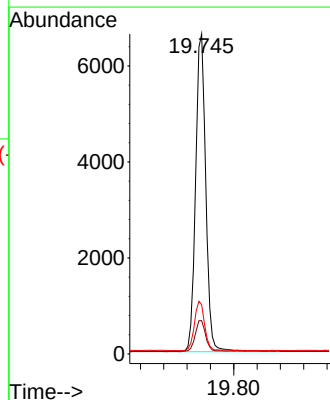
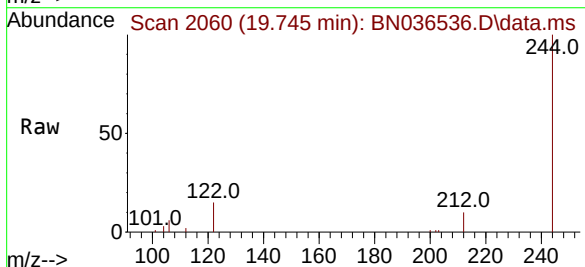
Instrument :
BNA_N
ClientSampleId :
BR-05-465-030525

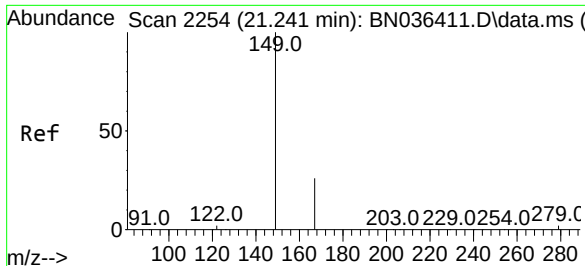
Tgt Ion	Ratio	Lower	Upper
240	100		
120	18.4	13.3	19.9
236	29.5	23.0	34.6



#31
Terphenyl-d14
Concen: 0.540 ng
RT: 19.745 min Scan# 2060
Delta R.T. -0.000 min
Lab File: BN036536.D
Acq: 06 Mar 2025 15:24

Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.4	8.1	12.1
122	15.4	12.8	19.2

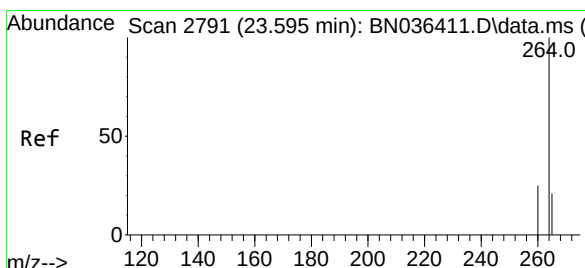
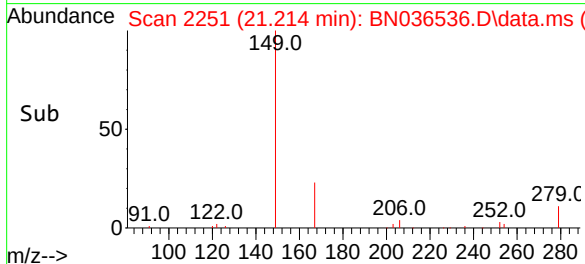
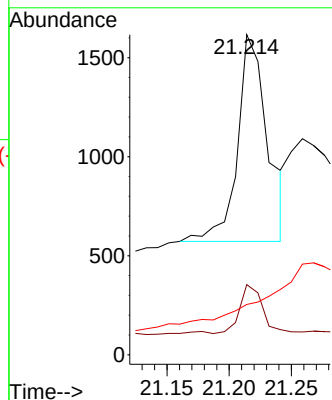
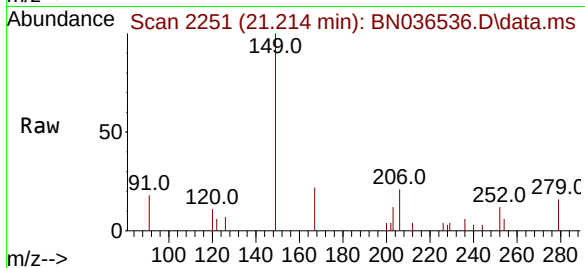




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.124 ng
RT: 21.214 min Scan# 2111
Delta R.T. -0.000 min
Lab File: BN036536.D
Acq: 06 Mar 2025 15:24

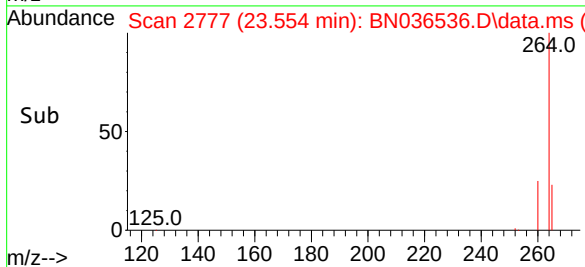
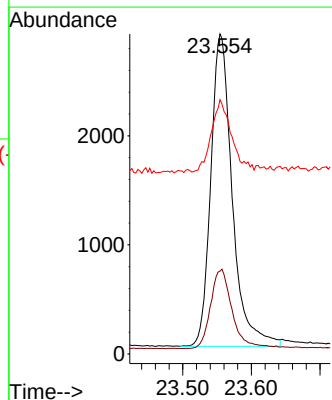
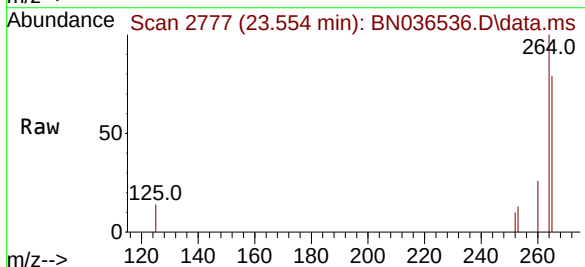
Instrument :
BNA_N
ClientSampleId :
BR-05-465-030525

Tgt Ion:149 Resp: 1755
Ion Ratio Lower Upper
149 100
167 18.3 21.2 31.8#
279 0.0 2.7 4.1#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.554 min Scan# 2777
Delta R.T. 0.003 min
Lab File: BN036536.D
Acq: 06 Mar 2025 15:24

Tgt Ion:264 Resp: 6218
Ion Ratio Lower Upper
264 100
260 25.9 20.9 31.3
265 79.4 60.7 91.1





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-BN021025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Feb 11 01:17:14 2025
Response Via : Initial Calibration

Calibration Files

0.1 =BN036409.D 0.2 =BN036410.D 0.4 =BN036411.D 0.8 =BN036412.D 1.6 =BN036413.D 3.2 =BN036414.D 5.0 =BN036415.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	0.555	0.437	0.433	0.414	0.411	0.433	0.381	0.438	12.66
3)	n-Nitrosodimet...	0.906	0.779	0.764	0.724	0.708	0.769	0.670	0.760	9.90
4) S	2-Fluorophenol	1.009	0.954	0.936	0.920	0.914	0.999	0.885	0.945	4.80
5) S	Phenol-d6	1.134	1.007	1.032	1.062	1.099	1.267	1.164	1.109	8.00
6)	bis(2-Chloroet...	1.382	1.070	1.086	1.129	1.120	1.225	1.107	1.160	9.48
7) I	Naphthalene-d8	-----ISTD-----								
8) S	Nitrobenzene-d5	0.500	0.363	0.365	0.370	0.367	0.417	0.381	0.395	12.70
9)	Naphthalene	1.400	1.141	1.116	1.088	1.075	1.186	1.073	1.154	10.01
10)	Hexachlorobuta...	0.319	0.293	0.283	0.272	0.264	0.282	0.253	0.281	7.67
11) SURR2	Methylnaphth...	0.647	0.583	0.602	0.588	0.597	0.668	0.618	0.615	5.19
12)	2-Methylnaphth...	0.833	0.712	0.738	0.721	0.726	0.816	0.750	0.757	6.40
13) I	Acenaphthene-d10	-----ISTD-----								
14) S	2,4,6-Tribromo...	0.196	0.181	0.186	0.184	0.195	0.226	0.219	0.198	8.90
15) S	2-Fluorobiphenyl	1.409	1.390	1.377	1.491	1.564	1.738	1.558	1.504	8.57
16)	Acenaphthylene	1.807	1.667	1.692	1.683	1.734	1.964	1.820	1.767	5.98
17)	Acenaphthene	1.245	1.125	1.146	1.128	1.175	1.273	1.169	1.180	4.89
18)	Fluorene	1.696	1.630	1.661	1.627	1.669	1.829	1.646	1.680	4.17
19) I	Phenanthrene-d10	-----ISTD-----								
20)	4,6-Dinitro-2-...	0.071	0.067	0.069	0.074	0.084	0.107		0.078	19.60
21)	4-Bromophenyl-...	0.243	0.227	0.231	0.232	0.236	0.264	0.238	0.239	5.15
22)	Hexachlorobenzene	0.305	0.296	0.284	0.287	0.289	0.317	0.285	0.295	4.11
23)	Atrazine	0.196	0.190	0.187	0.186	0.194	0.229	0.213	0.199	8.00
24)	Pentachlorophenol	0.140	0.125	0.122	0.122	0.134	0.170	0.167	0.140	14.74
25)	Phenanthrene	1.233	1.090	1.095	1.112	1.138	1.273	1.153	1.156	6.12
26)	Anthracene	0.990	0.933	0.967	0.978	1.015	1.167	1.088	1.020	7.92
27) SURR	Fluoranthene-d10	1.109	1.043	1.063	1.059	1.098	1.258	1.156	1.112	6.70
28)	Fluoranthene	1.441	1.323	1.353	1.356	1.404	1.607	1.461	1.421	6.76
29) I	Chrysene-d12	-----ISTD-----								
30)	Pyrene	1.584	1.568	1.534	1.490	1.488	1.629	1.492	1.541	3.59
31) S	Terphenyl-d14	0.860	0.847	0.852	0.829	0.834	0.913	0.843	0.854	3.27
32)	Benzo(a)anthra...	1.257	1.276	1.293	1.255	1.300	1.471	1.362	1.316	5.86
33)	Chrysene	1.449	1.456	1.360	1.414	1.404	1.527	1.366	1.425	4.08
34)	Bis(2-ethylhex...	0.902	0.875	0.777	0.745	0.761	0.861	0.819	0.820	7.45
35) I	Perylene-d12	-----ISTD-----								

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

Method File : 8270-SIM-BN021025.M

36)	Indeno(1,2,3-c...	1.182	1.289	1.378	1.390	1.446	1.630	1.471	1.398	10.13
37)	Benzo(b)fluora...	1.174	1.220	1.260	1.290	1.333	1.529	1.416	1.317	9.24
38)	Benzo(k)fluora...	1.258	1.253	1.363	1.326	1.347	1.532	1.413	1.356	7.08
39) C	Benzo(a)pyrene	1.091	1.081	1.102	1.114	1.145	1.309	1.206	1.150	7.12
40)	Dibenzo(a,h)an...	0.906	1.021	1.075	1.087	1.154	1.304	1.176	1.103	11.40
41)	Benzo(g,h,i)pe...	1.140	1.212	1.254	1.230	1.269	1.400	1.249	1.250	6.27

(#) = Out of Range

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
 Data File : BN036409.D
 Acq On : 10 Feb 2025 12:25
 Operator : RC/JU
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

Quant Time: Feb 11 00:34:59 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 00:33:05 2025
 Response via : Initial Calibration

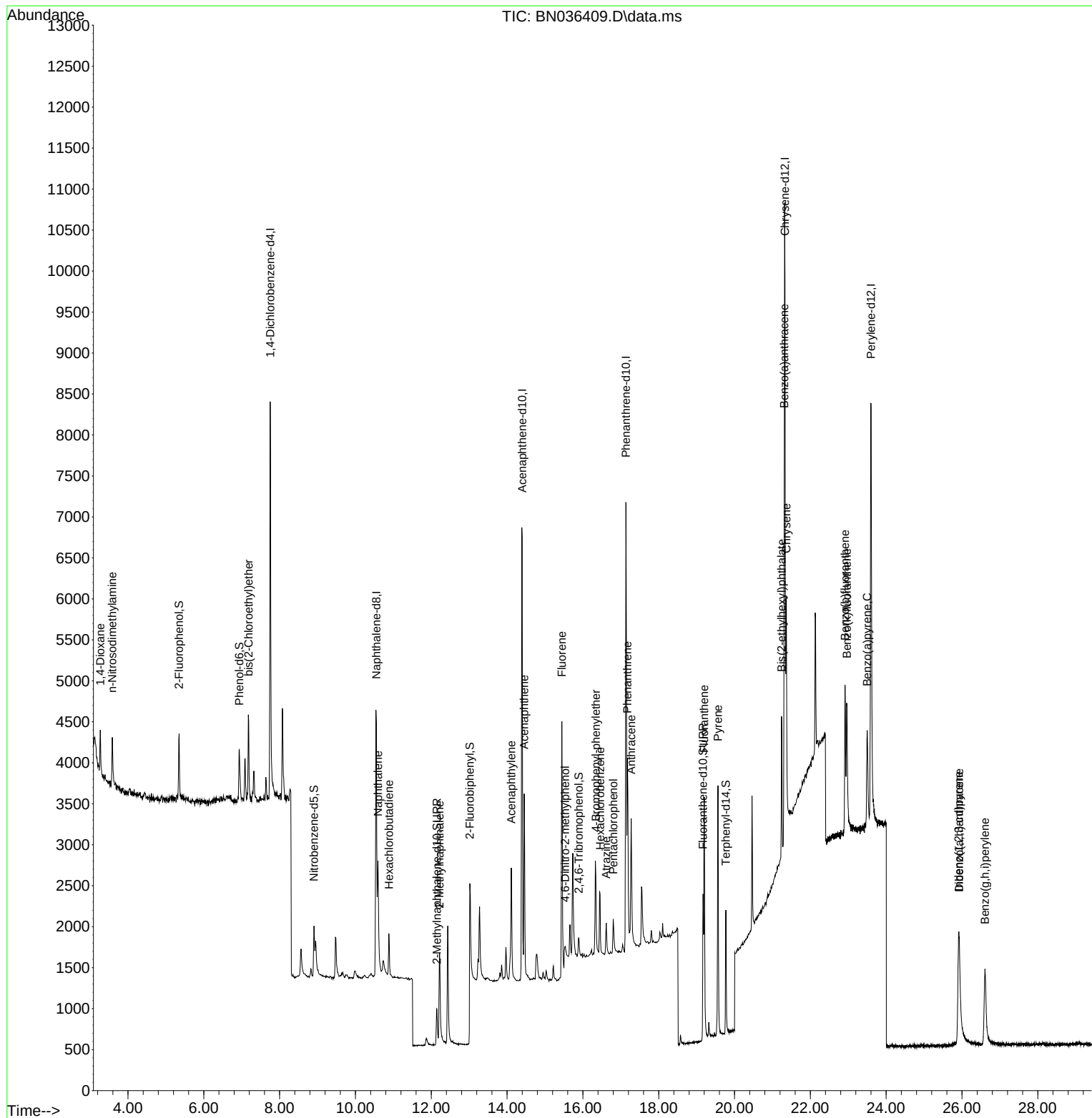
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.753	152	2370	0.400	ng	0.00
7) Naphthalene-d8	10.552	136	5687	0.400	ng	# 0.01
13) Acenaphthene-d10	14.398	164	3837	0.400	ng	0.01
19) Phenanthrene-d10	17.136	188	8539	0.400	ng	0.00
29) Chrysene-d12	21.331	240	8027	0.400	ng	# 0.00
35) Perylene-d12	23.598	264	8068	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.348	112	598	0.099	ng	0.00
5) Phenol-d6	6.937	99	672	0.095	ng	0.00
8) Nitrobenzene-d5	8.907	82	711	0.134	ng	0.00
11) 2-Methylnaphthalene-d10	12.146	152	920	0.118	ng	0.00
14) 2,4,6-Tribromophenol	15.895	330	188	0.080	ng	0.01
15) 2-Fluorobiphenyl	13.019	172	1352	0.083	ng	0.00
27) Fluoranthene-d10	19.169	212	2368	0.108	ng	0.00
31) Terphenyl-d14	19.773	244	1725	0.104	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.268	88	329	0.126	ng	93
3) n-Nitrosodimethylamine	3.586	42	537	0.114	ng	# 96
6) bis(2-Chloroethyl)ether	7.183	93	819	0.140	ng	99
9) Naphthalene	10.594	128	1990	0.123	ng	# 91
10) Hexachlorobutadiene	10.883	225	454	0.089	ng	# 99
12) 2-Methylnaphthalene	12.217	142	1185	0.116	ng	96
16) Acenaphthylene	14.110	152	1733	0.098	ng	99
17) Acenaphthene	14.452	154	1194	0.098	ng	98
18) Fluorene	15.446	166	1627	0.104	ng	99
20) 4,6-Dinitro-2-methylph...	15.535	198	151	0.079	ng	# 36
21) 4-Bromophenyl-phenylether	16.342	248	518	0.089	ng	# 81
22) Hexachlorobenzene	16.453	284	651	0.085	ng	99
23) Atrazine	16.615	200	419	0.097	ng	# 85
24) Pentachlorophenol	16.801	266	298	0.089	ng	97
25) Phenanthrene	17.173	178	2633	0.105	ng	100
26) Anthracene	17.273	178	2113	0.093	ng	96
28) Fluoranthene	19.201	202	3077	0.104	ng	99
30) Pyrene	19.564	202	3179	0.099	ng	99
32) Benzo(a)anthracene	21.313	228	2523	0.088	ng	96
33) Chrysene	21.366	228	2908	0.099	ng	97
34) Bis(2-ethylhexyl)phtha...	21.241	149	1810	0.114	ng	99
36) Indeno(1,2,3-cd)pyrene	25.911	276	2385	0.075	ng	98
37) Benzo(b)fluoranthene	22.917	252	2367	0.083	ng	# 67
38) Benzo(k)fluoranthene	22.961	252	2537	0.087	ng	# 65
39) Benzo(a)pyrene	23.499	252	2200	0.089	ng	# 53
40) Dibenzo(a,h)anthracene	25.928	278	1827	0.073	ng	# 62
41) Benzo(g,h,i)perylene	26.607	276	2299	0.083	ng	# 83

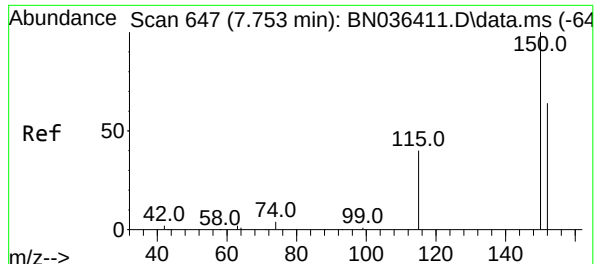
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Data File : BN036409.D
Acq On : 10 Feb 2025 12:25
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Quant Time: Feb 11 00:34:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 11 00:33:05 2025
Response via : Initial Calibration

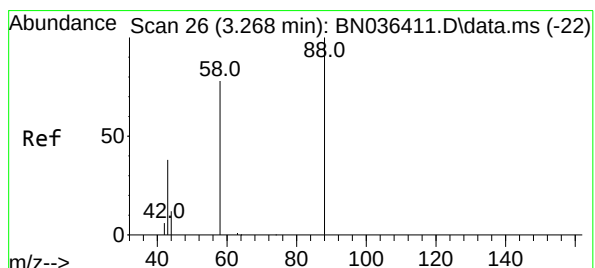
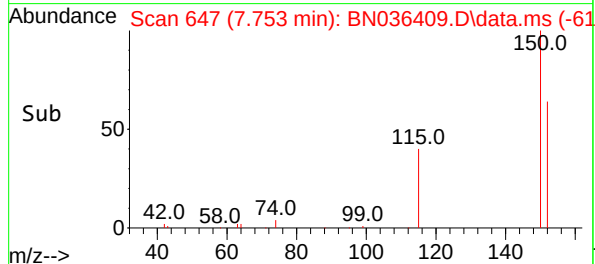
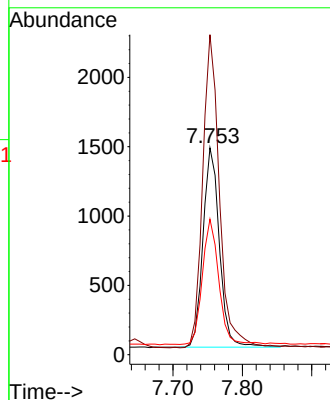
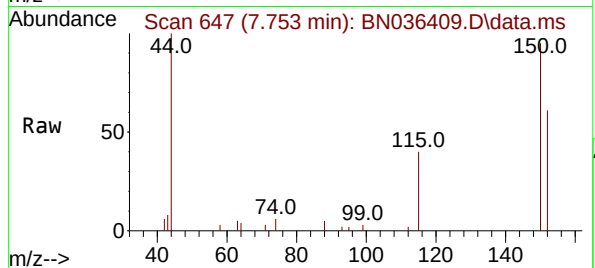




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.753 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

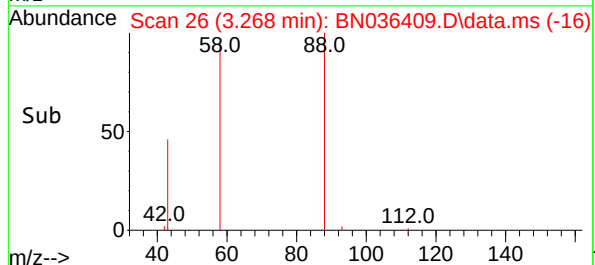
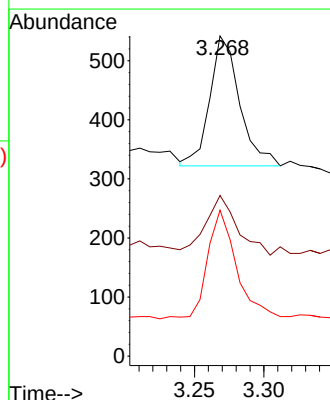
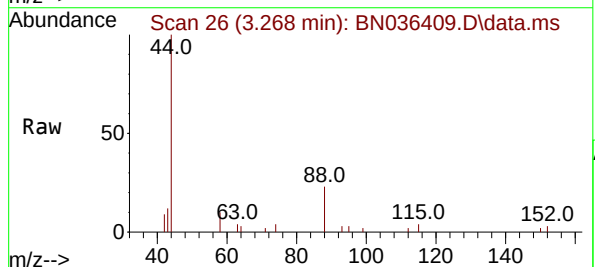
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

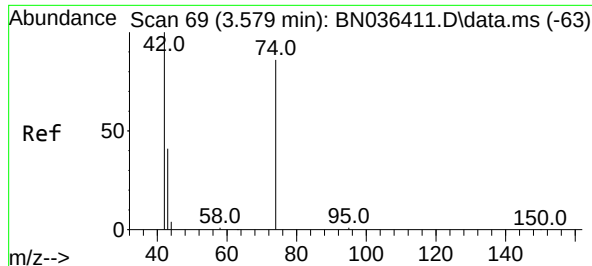
Tgt Ion:152 Resp: 2370
Ion Ratio Lower Upper
152 100
150 154.7 123.7 185.5
115 65.5 52.5 78.7



#2
1,4-Dioxane
Concen: 0.126 ng
RT: 3.268 min Scan# 26
Delta R.T. 0.000 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Tgt Ion: 88 Resp: 329
Ion Ratio Lower Upper
88 100
43 48.9 33.7 50.5
58 81.8 68.9 103.3

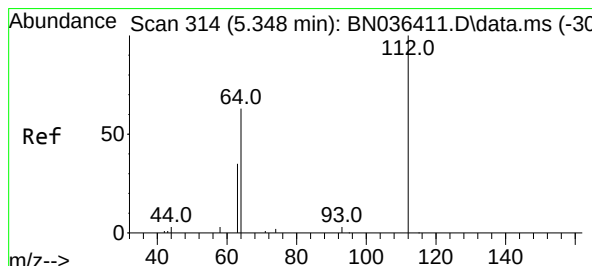
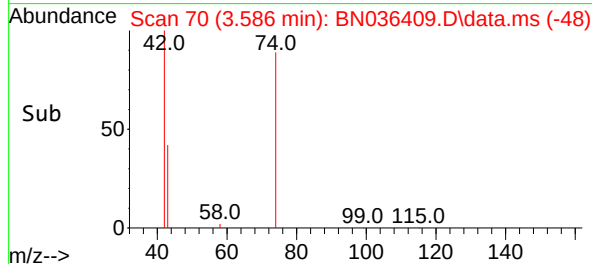
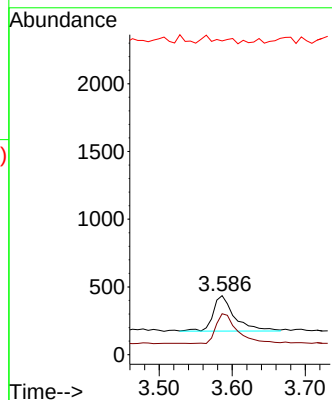
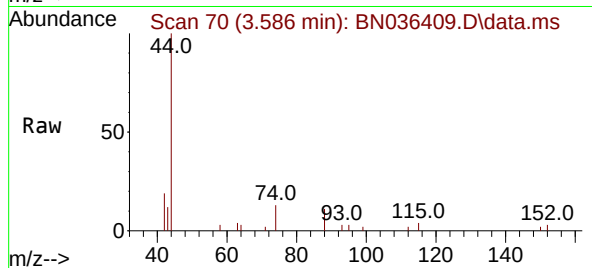




#3
n-Nitrosodimethylamine
Concen: 0.114 ng
RT: 3.586 min Scan# 70
Delta R.T. 0.007 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

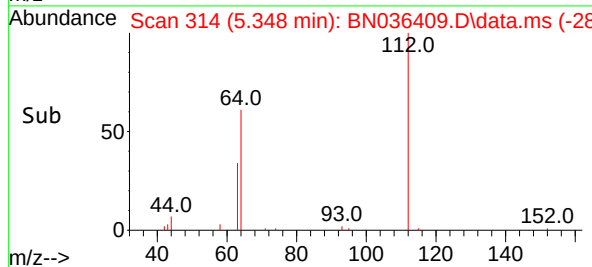
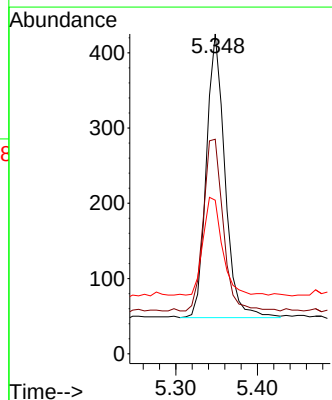
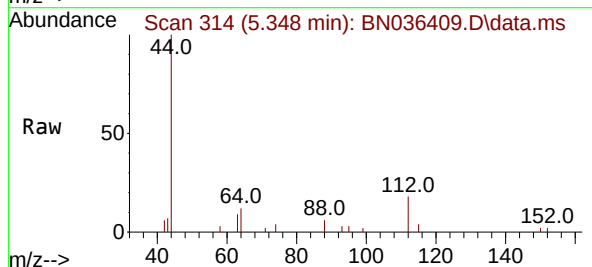
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

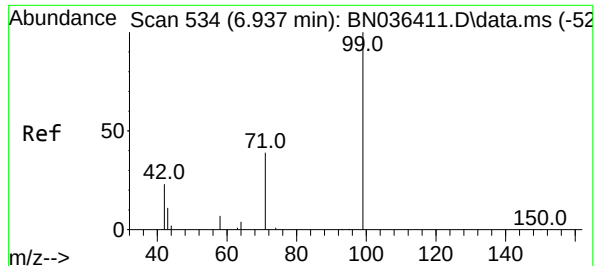
Tgt Ion: 42 Resp: 537
Ion Ratio Lower Upper
42 100
74 87.0 71.8 107.6
44 5.4 7.8 11.6#



#4
2-Fluorophenol
Concen: 0.099 ng
RT: 5.348 min Scan# 314
Delta R.T. 0.000 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Tgt Ion: 112 Resp: 598
Ion Ratio Lower Upper
112 100
64 64.2 53.4 80.0
63 36.0 30.3 45.5





#5

Phenol-d6

Concen: 0.095 ng

RT: 6.937 min Scan# 51

Delta R.T. 0.000 min

Lab File: BN036409.D

Acq: 10 Feb 2025 12:25

Instrument :

BNA_N

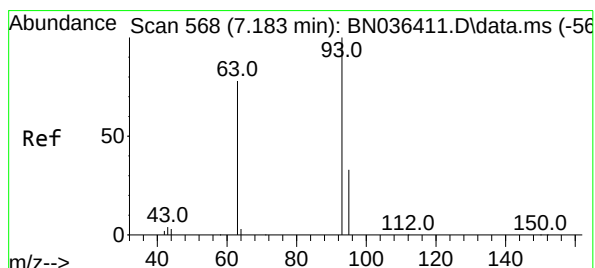
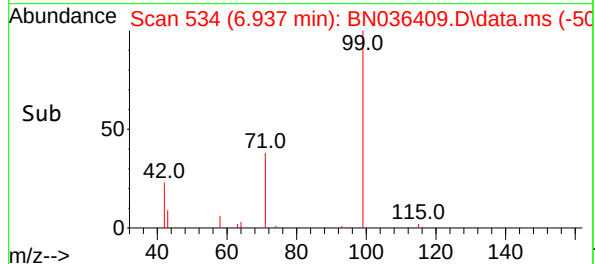
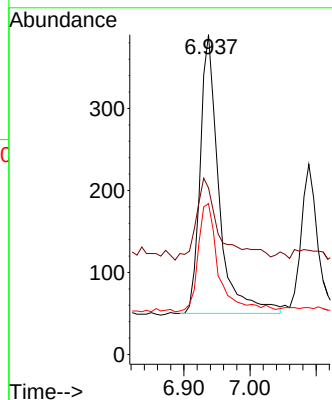
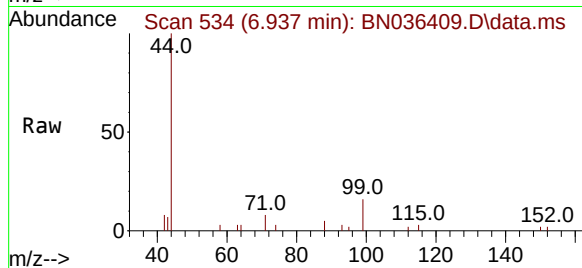
ClientSampleId :

SSTDICC0.1

Tgt Ion: 99 Resp: 672

Ion Ratio Lower Upper

99	100		
42	36.8	21.7	32.5#
71	42.9	32.6	49.0



#6

bis(2-Chloroethyl)ether

Concen: 0.140 ng

RT: 7.183 min Scan# 568

Delta R.T. 0.000 min

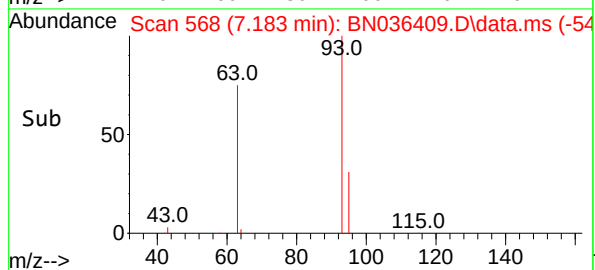
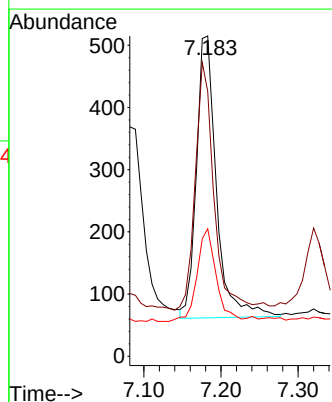
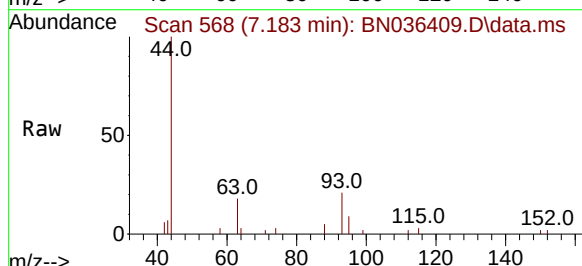
Lab File: BN036409.D

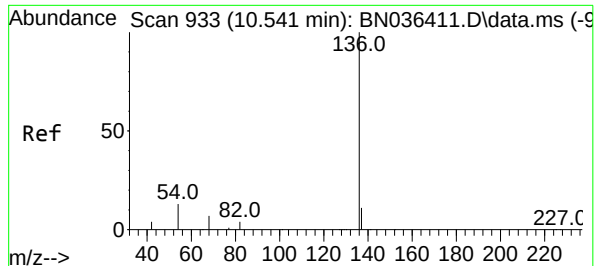
Acq: 10 Feb 2025 12:25

Tgt Ion: 93 Resp: 819

Ion Ratio Lower Upper

93	100		
63	82.8	66.3	99.5
95	31.5	26.2	39.4

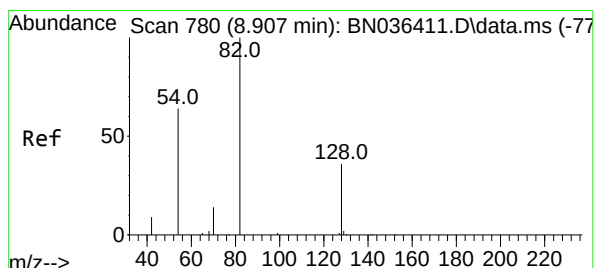
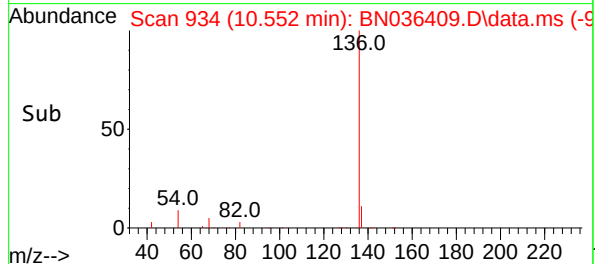
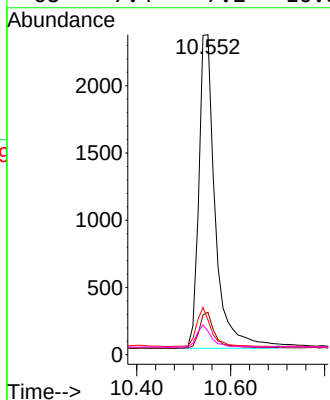
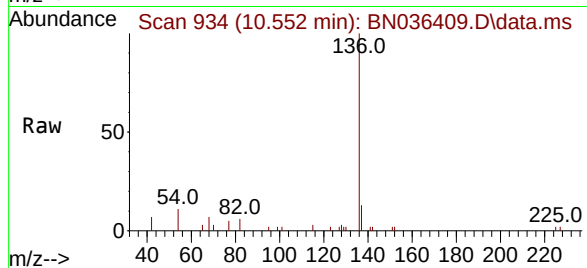




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.552 min Scan# 91
Delta R.T. 0.011 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

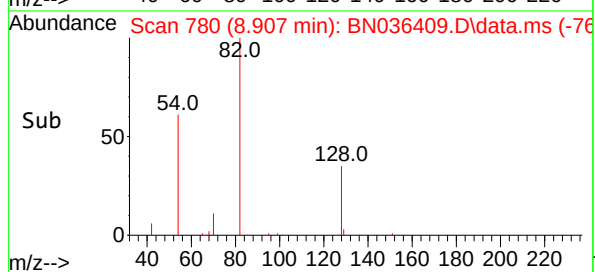
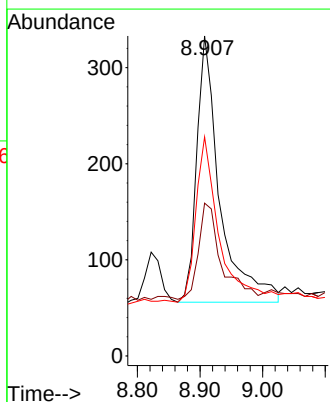
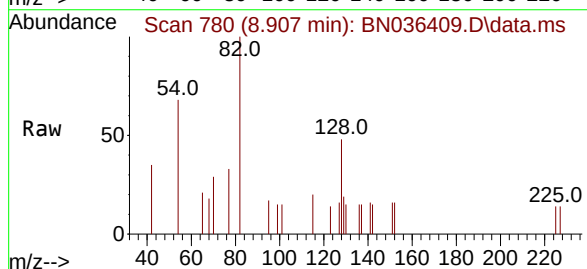
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

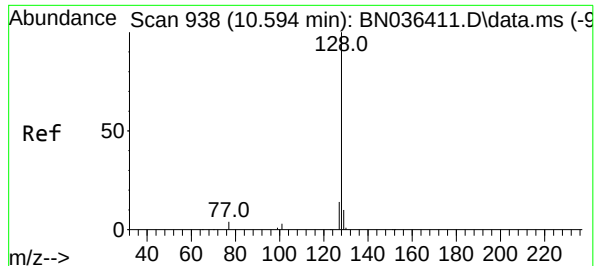
Tgt Ion:	136	Resp:	5687
Ion	Ratio	Lower	Upper
136	100		
137	13.3	10.1	15.1
54	10.9	11.8	17.6#
68	7.4	7.2	10.8



#8
Nitrobenzene-d5
Concen: 0.134 ng
RT: 8.907 min Scan# 780
Delta R.T. 0.000 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Tgt Ion:	82	Resp:	711
Ion	Ratio	Lower	Upper
82	100		
128	47.7	31.9	47.9
54	68.5	53.1	79.7

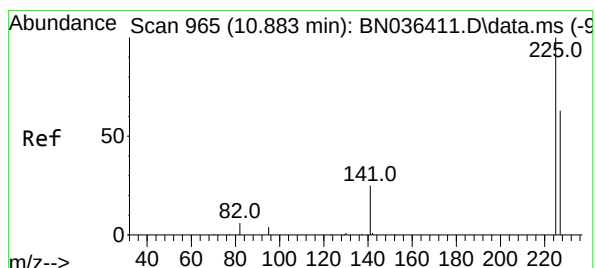
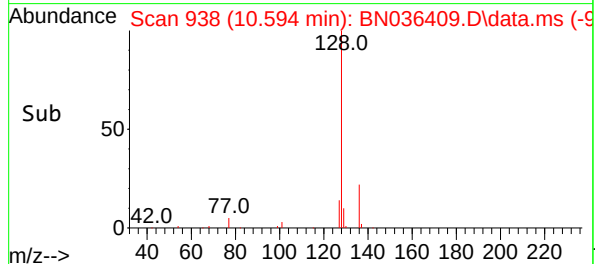
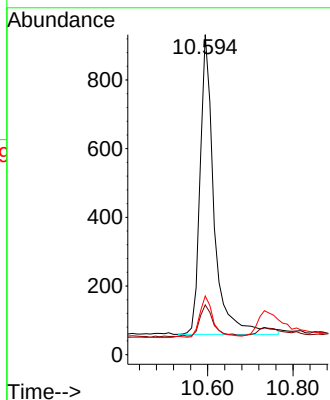
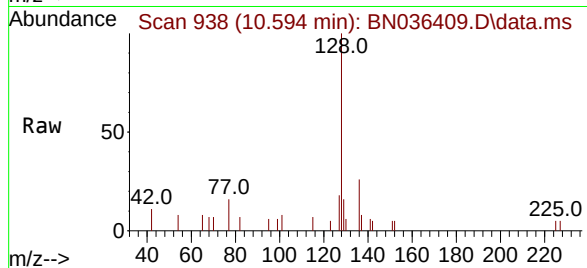




#9
Naphthalene
Concen: 0.123 ng
RT: 10.594 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

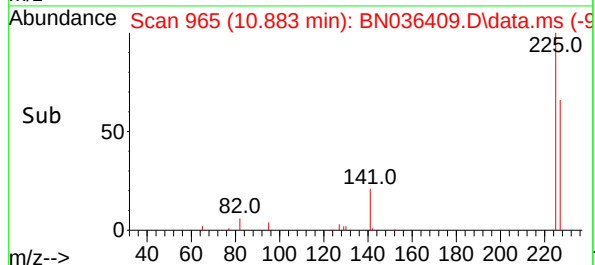
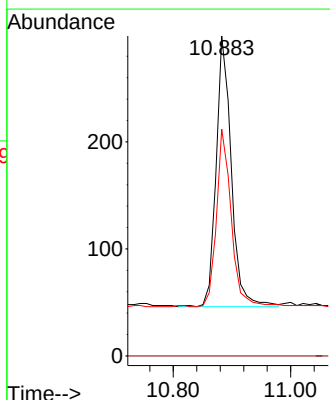
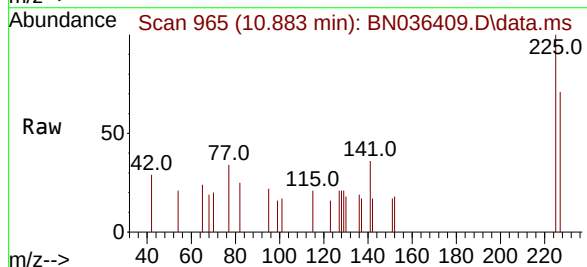
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BNA_N
ClientSampleId :
SSTDICC0.1

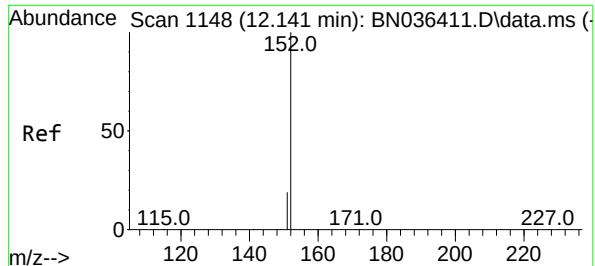
Tgt Ion:128 Resp: 1990
Ion Ratio Lower Upper
128 100
129 15.6 9.6 14.4#
127 18.3 12.0 18.0#



#10
Hexachlorobutadiene
Concen: 0.089 ng
RT: 10.883 min Scan# 965
Delta R.T. 0.000 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Tgt Ion:225 Resp: 454
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.1 50.9 76.3

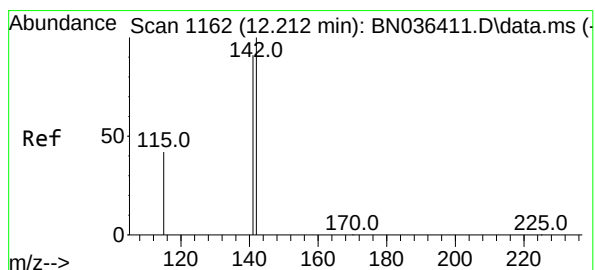
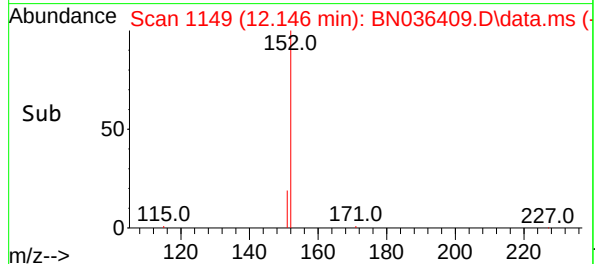
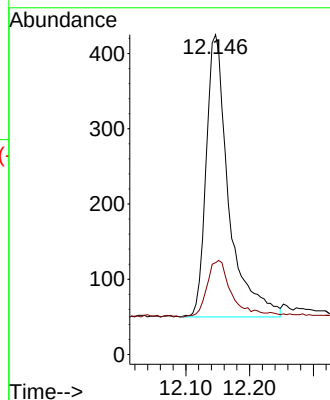
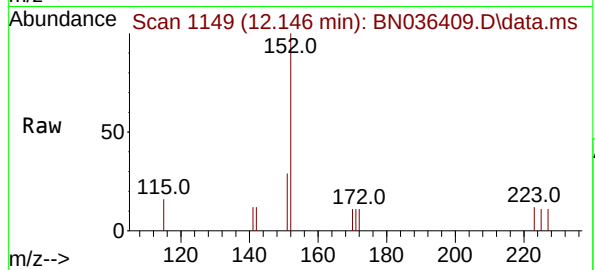




#11
2-Methylnaphthalene-d10
Concen: 0.118 ng
RT: 12.146 min Scan# 1149
Delta R.T. 0.005 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

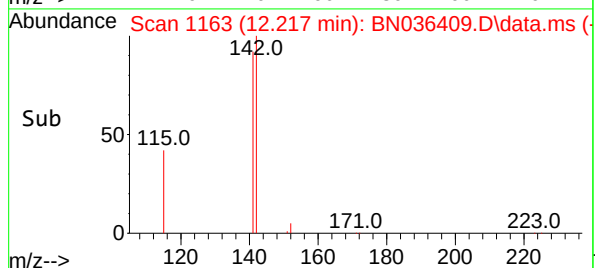
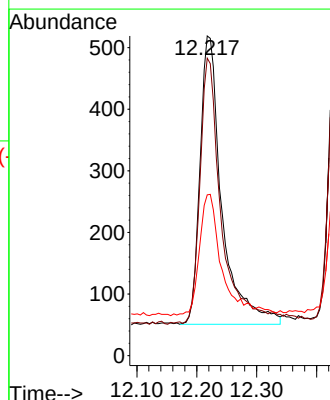
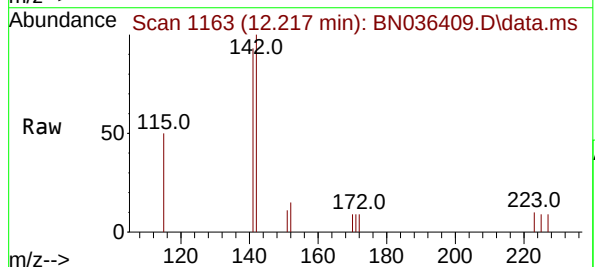
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

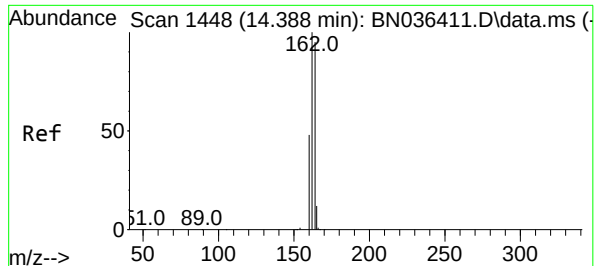
Tgt Ion:152 Resp: 920
Ion Ratio Lower Upper
152 100
151 21.6 16.6 25.0



#12
2-Methylnaphthalene
Concen: 0.116 ng
RT: 12.217 min Scan# 1163
Delta R.T. 0.005 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Tgt Ion:142 Resp: 1185
Ion Ratio Lower Upper
142 100
141 93.1 72.8 109.2
115 50.3 35.5 53.3





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.398 min Scan# 1448

Delta R.T. 0.011 min

Lab File: BN036409.D

Acq: 10 Feb 2025 12:25

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

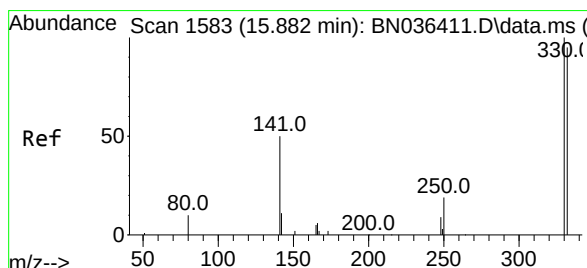
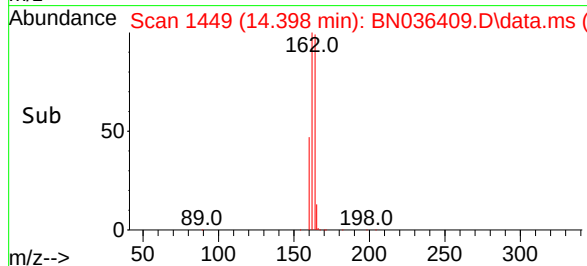
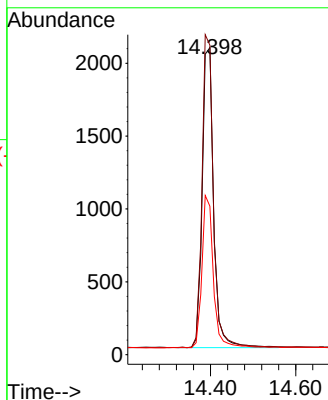
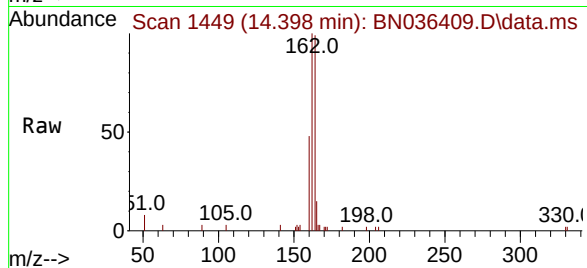
Tgt Ion:164 Resp: 3837

Ion Ratio Lower Upper

164 100

162 100.8 84.1 126.1

160 48.4 41.4 62.0



#14

2,4,6-Tribromophenol

Concen: 0.080 ng

RT: 15.895 min Scan# 1584

Delta R.T. 0.012 min

Lab File: BN036409.D

Acq: 10 Feb 2025 12:25

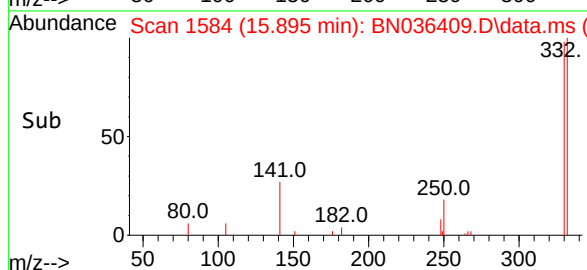
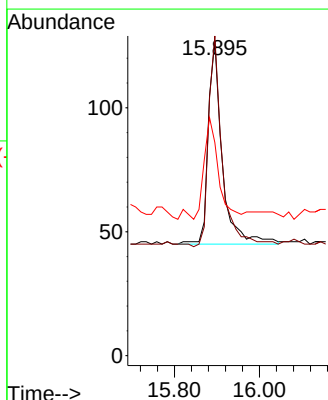
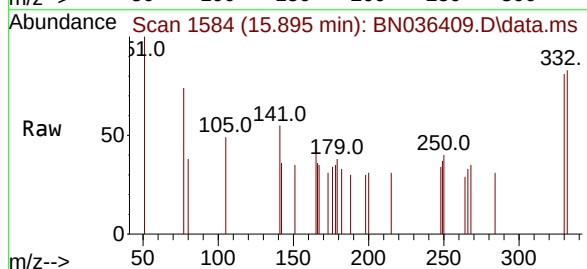
Tgt Ion:330 Resp: 188

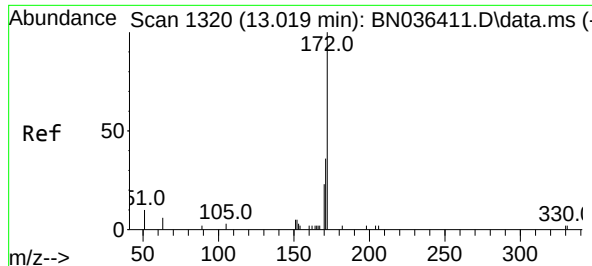
Ion Ratio Lower Upper

330 100

332 101.6 76.6 114.8

141 50.5 37.8 56.8





#15

2-Fluorobiphenyl

Concen: 0.083 ng

RT: 13.019 min Scan# 1320

Delta R.T. 0.000 min

Lab File: BN036409.D

Acq: 10 Feb 2025 12:25

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

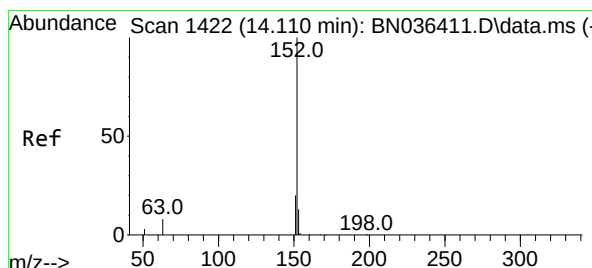
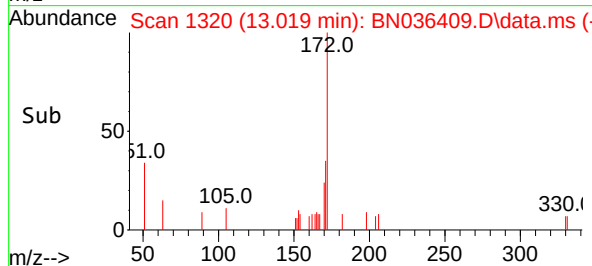
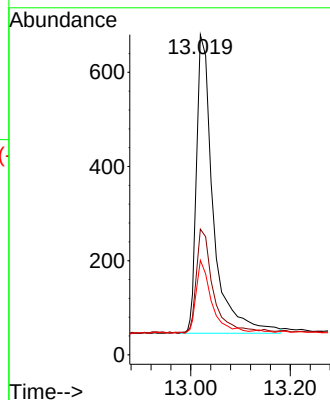
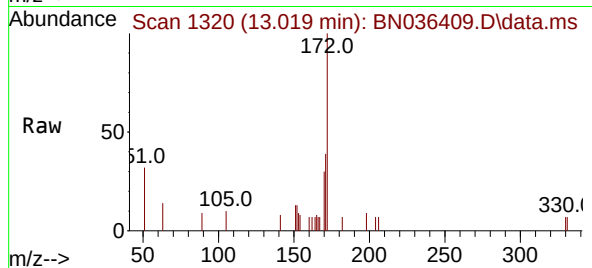
Tgt Ion:172 Resp: 1352

Ion Ratio Lower Upper

172 100

171 39.3 29.6 44.4

170 29.6 19.8 29.6



#16

Acenaphthylene

Concen: 0.098 ng

RT: 14.110 min Scan# 1422

Delta R.T. 0.000 min

Lab File: BN036409.D

Acq: 10 Feb 2025 12:25

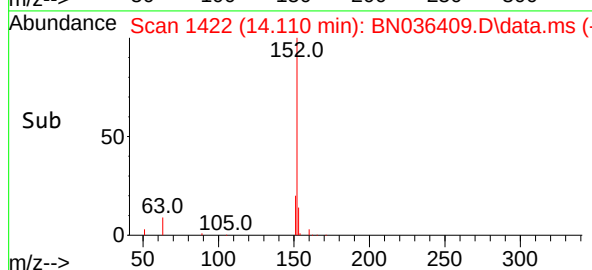
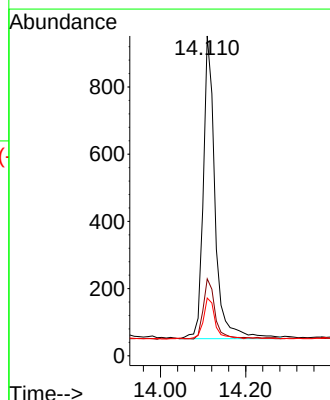
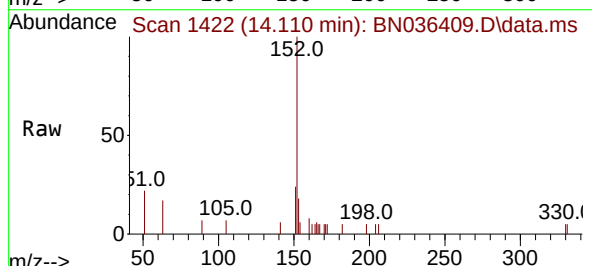
Tgt Ion:152 Resp: 1733

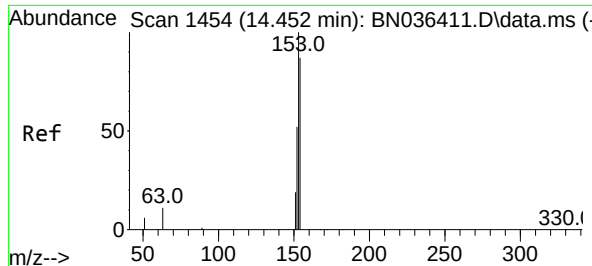
Ion Ratio Lower Upper

152 100

151 19.4 15.8 23.8

153 13.3 10.2 15.2





#17

Acenaphthene

Concen: 0.098 ng

RT: 14.452 min Scan# 1454

Delta R.T. 0.000 min

Lab File: BN036409.D

Acq: 10 Feb 2025 12:25

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

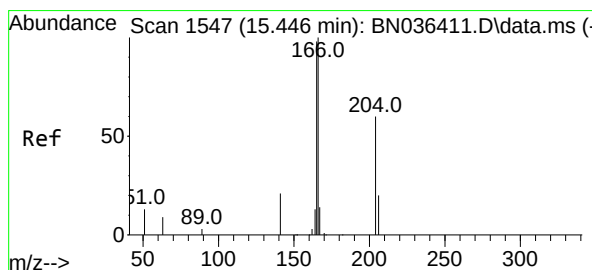
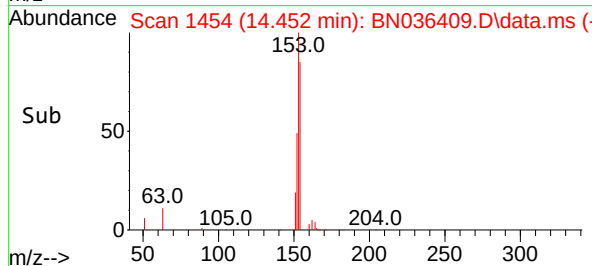
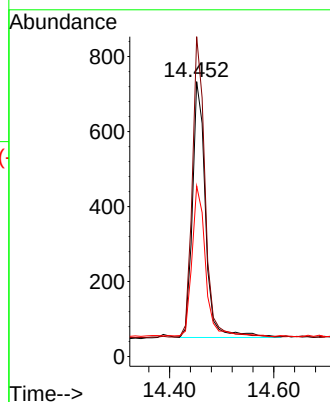
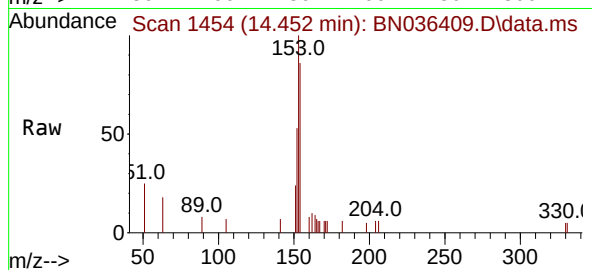
Tgt Ion:154 Resp: 1194

Ion Ratio Lower Upper

154 100

153 114.2 93.3 139.9

152 61.5 48.8 73.2



#18

Fluorene

Concen: 0.104 ng

RT: 15.446 min Scan# 1547

Delta R.T. 0.000 min

Lab File: BN036409.D

Acq: 10 Feb 2025 12:25

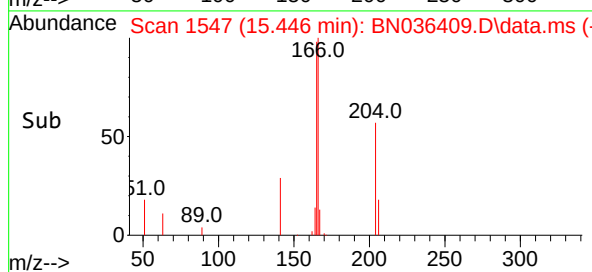
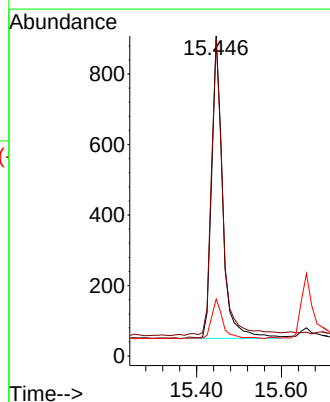
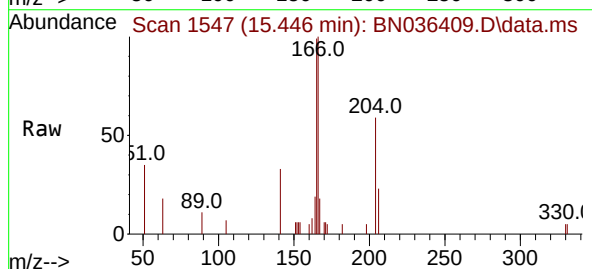
Tgt Ion:166 Resp: 1627

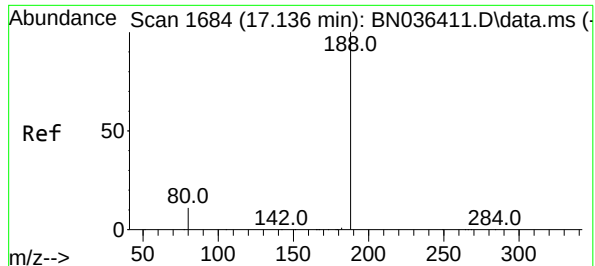
Ion Ratio Lower Upper

166 100

165 100.3 79.5 119.3

167 13.0 10.4 15.6





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.136 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036409.D

Acq: 10 Feb 2025 12:25

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

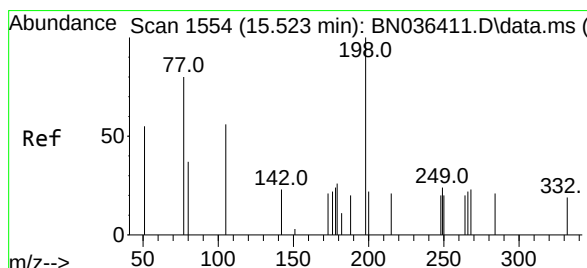
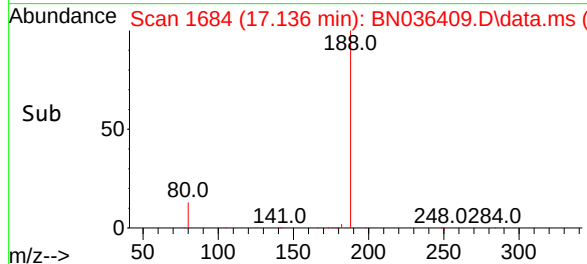
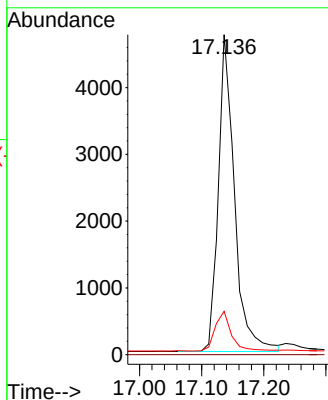
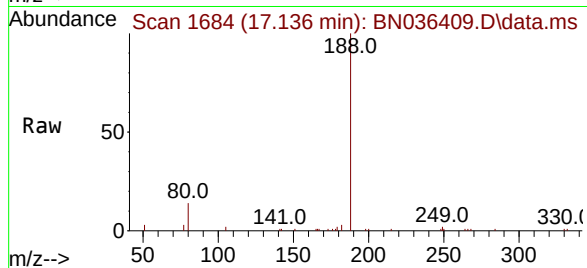
Tgt Ion:188 Resp: 8539

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.6 9.8 14.6



#20

4,6-Dinitro-2-methylphenol

Concen: 0.079 ng

RT: 15.535 min Scan# 1555

Delta R.T. 0.012 min

Lab File: BN036409.D

Acq: 10 Feb 2025 12:25

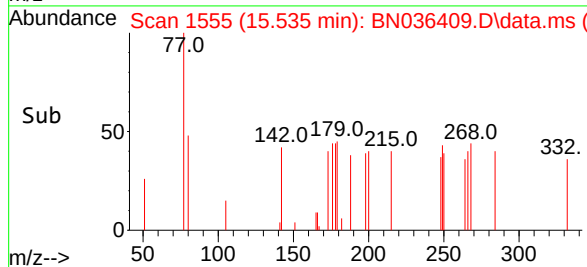
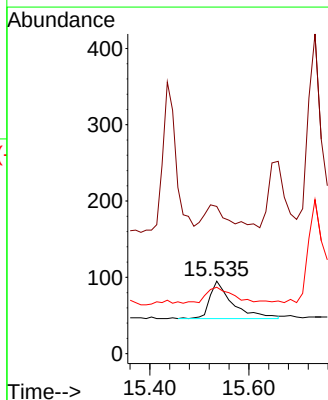
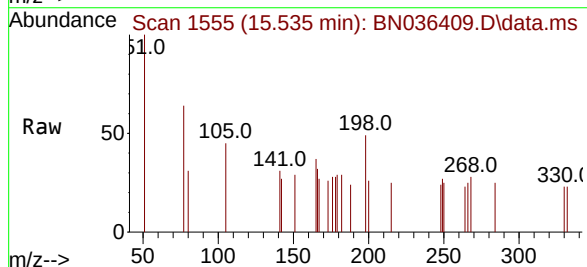
Tgt Ion:198 Resp: 151

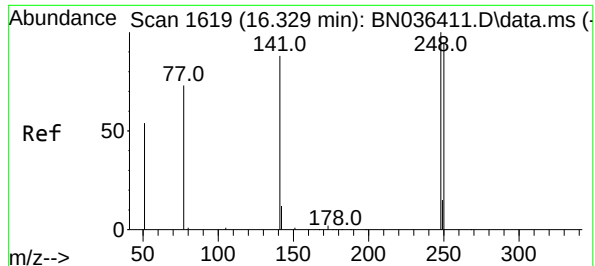
Ion Ratio Lower Upper

198 100

51 203.2 86.6 129.8#

105 91.6 57.5 86.3#

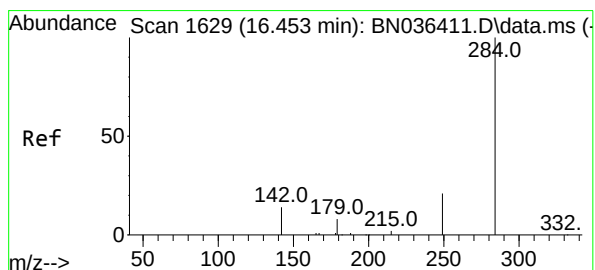
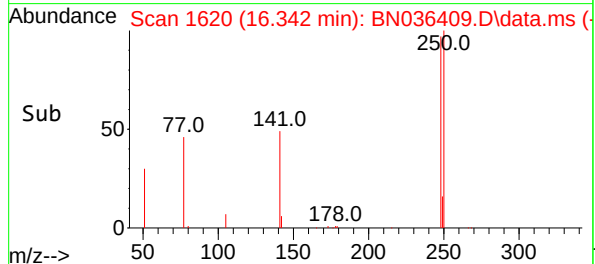
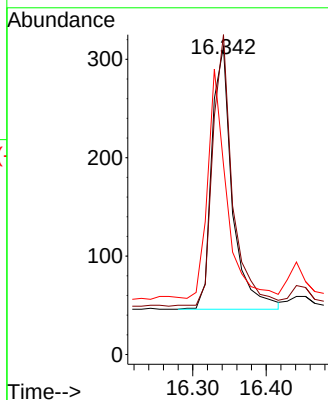
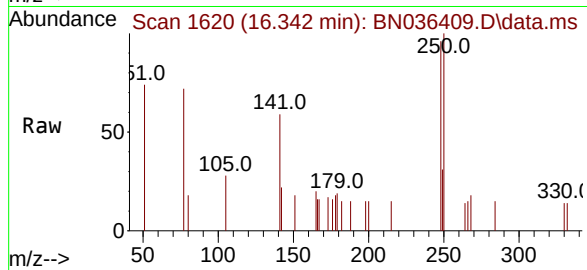




#21
4-Bromophenyl-phenylether
Concen: 0.089 ng
RT: 16.342 min Scan# 1620
Delta R.T. 0.012 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

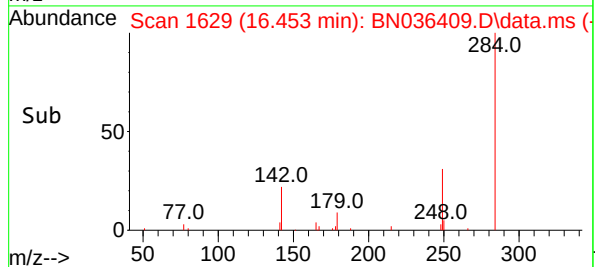
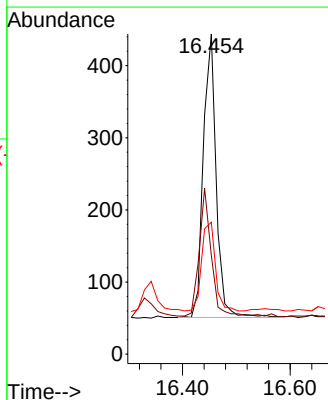
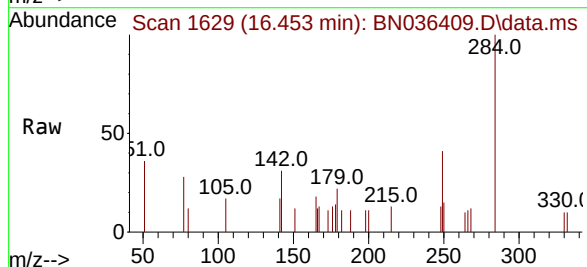
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

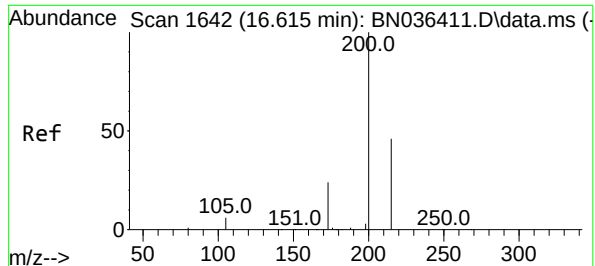
Tgt Ion	Ratio	Lower	Upper
248	100		
250	103.8	76.1	114.1
141	61.7	71.7	107.5#



#22
Hexachlorobenzene
Concen: 0.085 ng
RT: 16.453 min Scan# 1629
Delta R.T. 0.000 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Tgt Ion	Ratio	Lower	Upper
284	100		
142	41.5	33.4	50.0
249	35.0	28.6	43.0

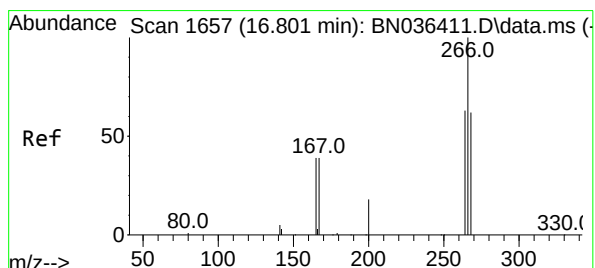
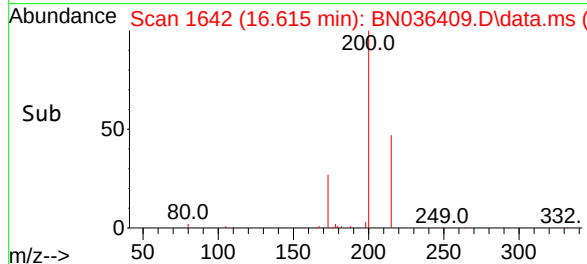
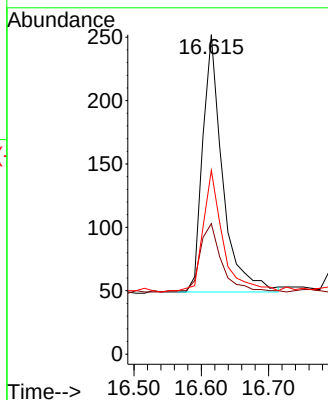
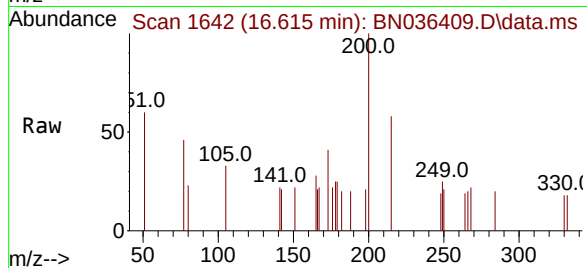




#23
Atrazine
Concen: 0.097 ng
RT: 16.615 min Scan# 1642
Delta R.T. 0.000 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

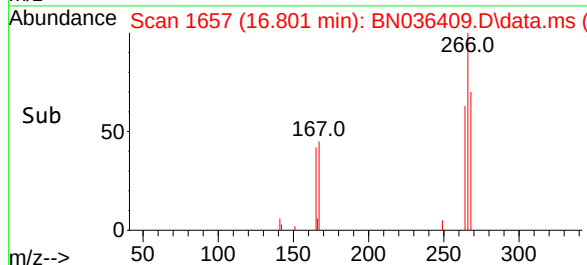
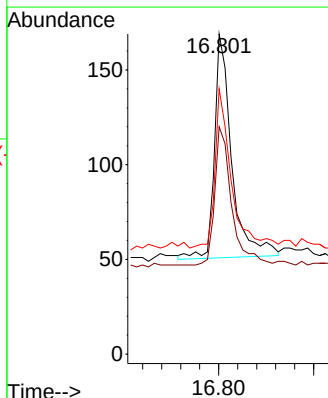
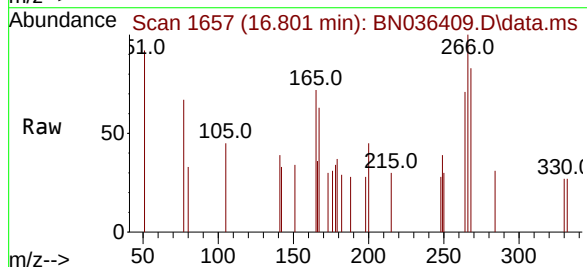
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

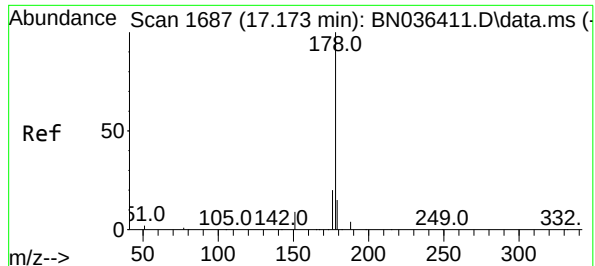
Tgt Ion:200 Resp: 419
Ion Ratio Lower Upper
200 100
173 40.9 23.2 34.8#
215 57.5 40.0 60.0



#24
Pentachlorophenol
Concen: 0.089 ng
RT: 16.801 min Scan# 1657
Delta R.T. 0.000 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Tgt Ion:266 Resp: 298
Ion Ratio Lower Upper
266 100
264 60.1 50.6 76.0
268 63.1 51.9 77.9

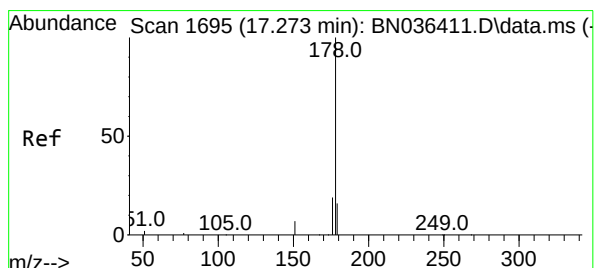
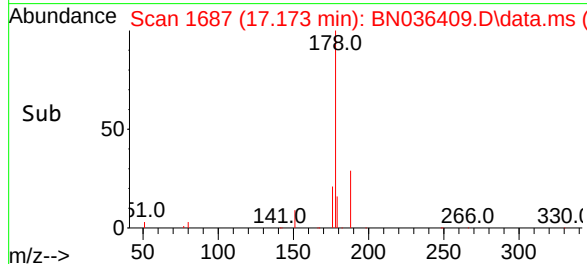
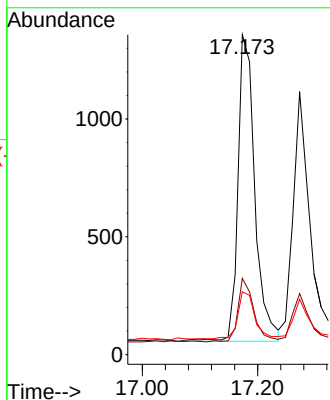
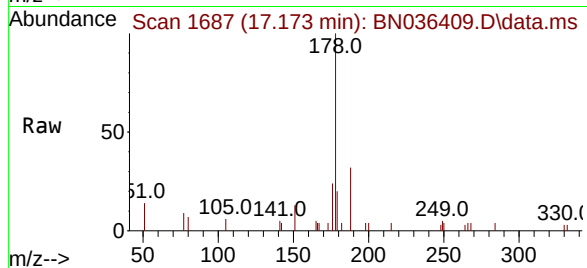




#25
Phenanthrene
Concen: 0.105 ng
RT: 17.173 min Scan# 1687
Delta R.T. 0.000 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

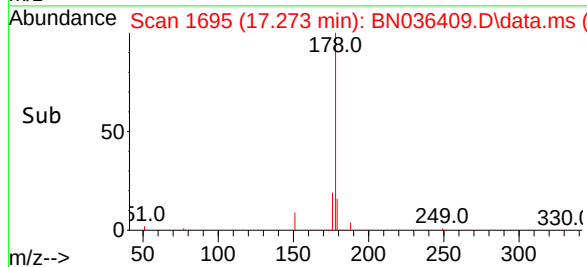
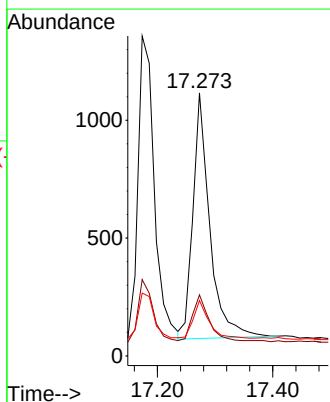
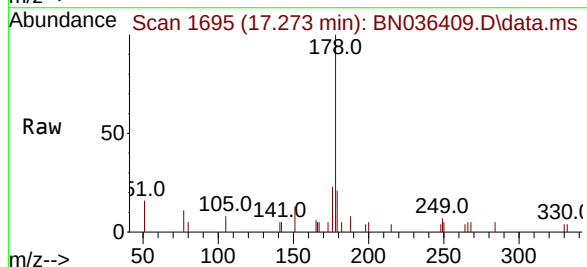
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

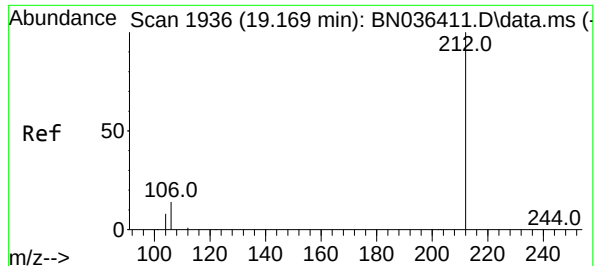
Tgt Ion:178 Resp: 2633
Ion Ratio Lower Upper
178 100
176 19.6 15.7 23.5
179 15.5 12.4 18.6



#26
Anthracene
Concen: 0.093 ng
RT: 17.273 min Scan# 1695
Delta R.T. 0.000 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Tgt Ion:178 Resp: 2113
Ion Ratio Lower Upper
178 100
176 20.8 14.9 22.3
179 14.6 12.4 18.6





#27

Fluoranthene-d10

Concen: 0.108 ng

RT: 19.169 min Scan# 1936

Delta R.T. 0.000 min

Lab File: BN036409.D

Acq: 10 Feb 2025 12:25

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

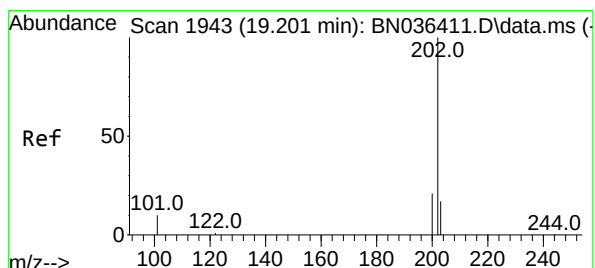
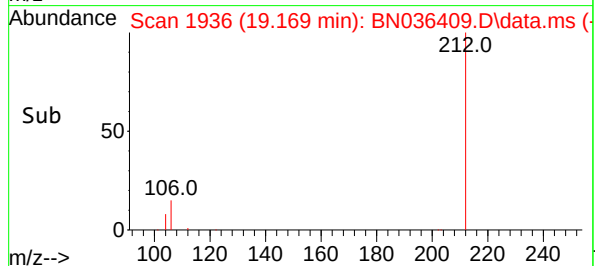
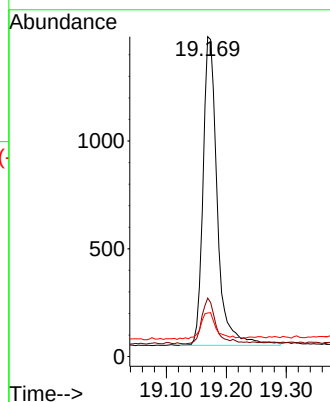
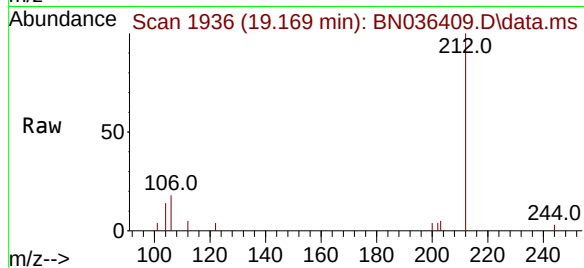
Tgt Ion:212 Resp: 2368

Ion Ratio Lower Upper

212 100

106 14.8 11.5 17.3

104 9.8 7.1 10.7



#28

Fluoranthene

Concen: 0.104 ng

RT: 19.201 min Scan# 1943

Delta R.T. 0.000 min

Lab File: BN036409.D

Acq: 10 Feb 2025 12:25

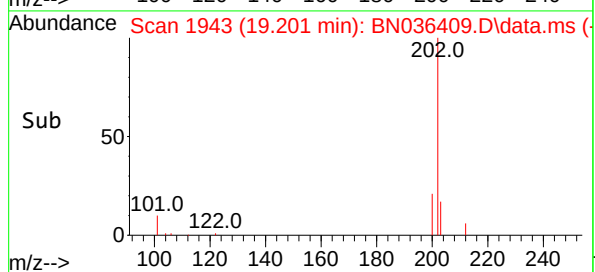
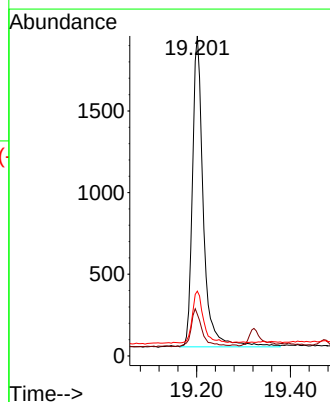
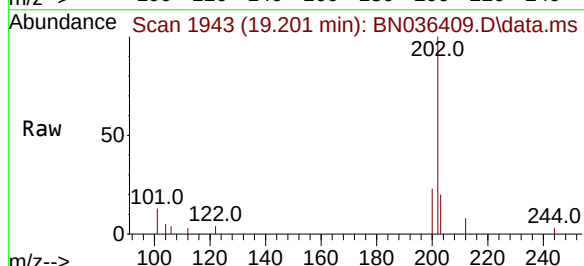
Tgt Ion:202 Resp: 3077

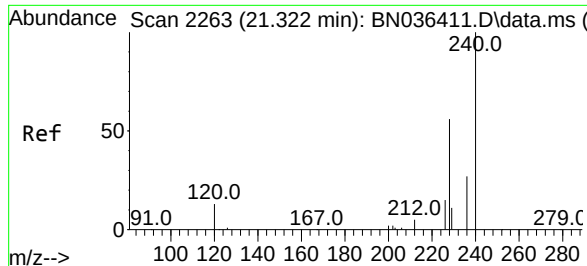
Ion Ratio Lower Upper

202 100

101 12.2 9.2 13.8

203 16.6 13.4 20.0





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.331 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN036409.D

Acq: 10 Feb 2025 12:25

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

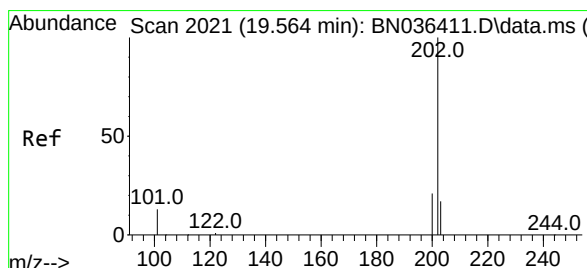
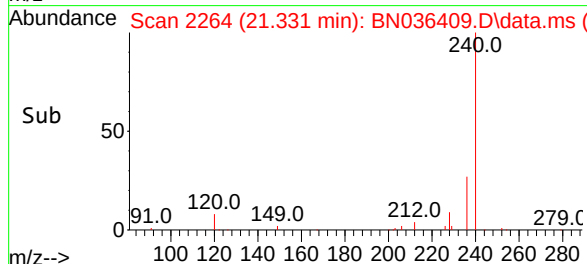
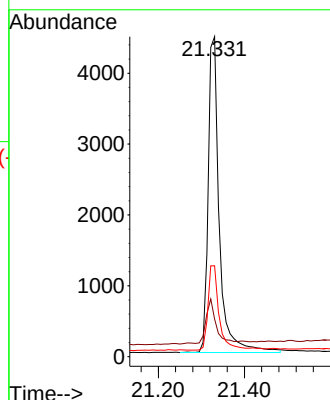
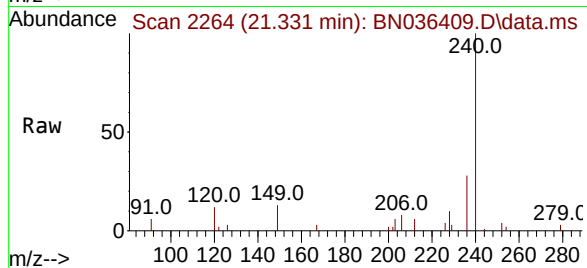
Tgt Ion:240 Resp: 8027

Ion Ratio Lower Upper

240 100

120 11.7 13.3 19.9#

236 28.4 23.0 34.6



#30

Pyrene

Concen: 0.099 ng

RT: 19.564 min Scan# 2021

Delta R.T. 0.000 min

Lab File: BN036409.D

Acq: 10 Feb 2025 12:25

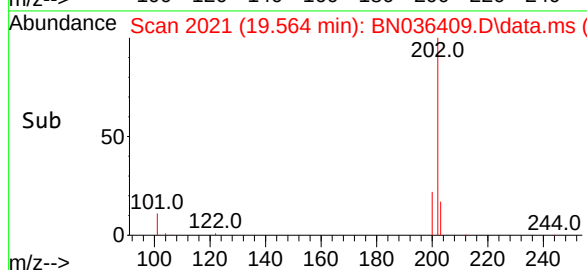
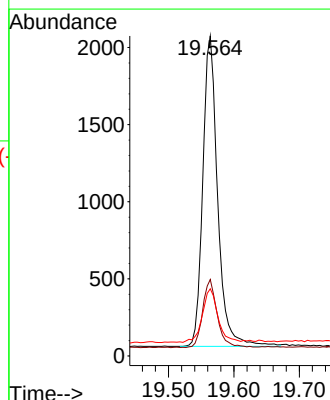
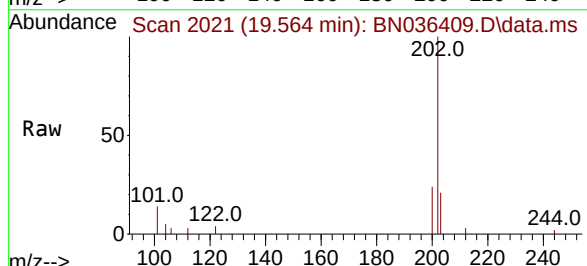
Tgt Ion:202 Resp: 3179

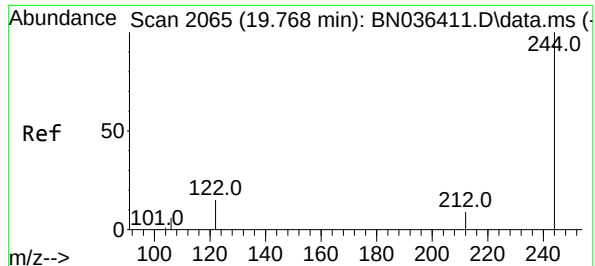
Ion Ratio Lower Upper

202 100

200 21.4 16.9 25.3

203 17.8 13.9 20.9

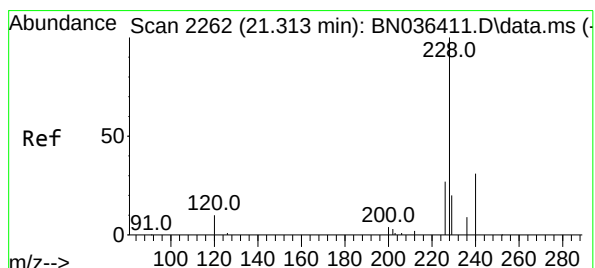
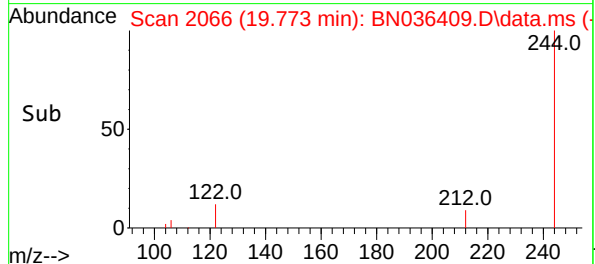
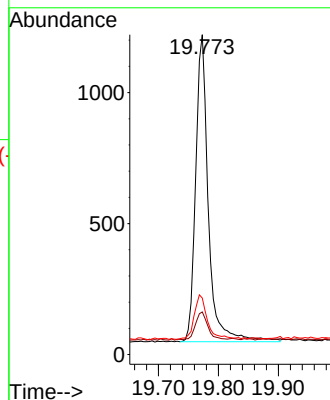
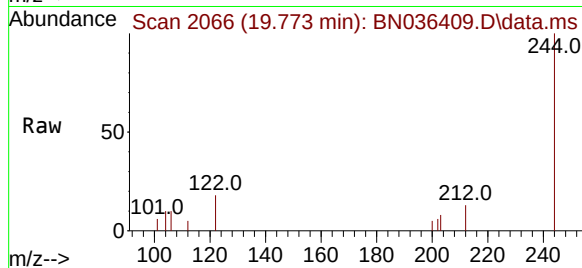




#31
Terphenyl-d14
Concen: 0.104 ng
RT: 19.773 min Scan# 2066
Delta R.T. 0.005 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

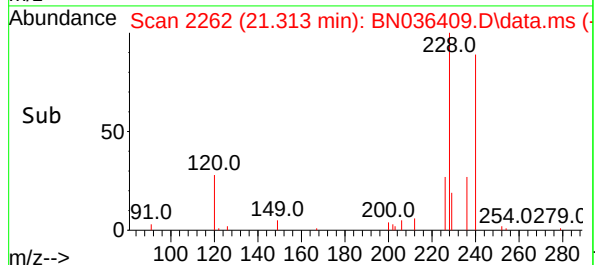
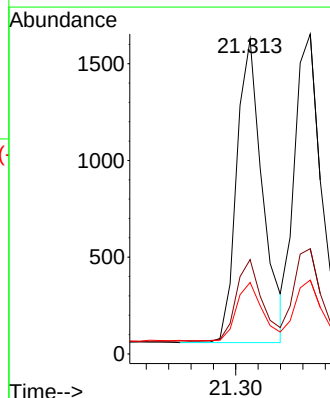
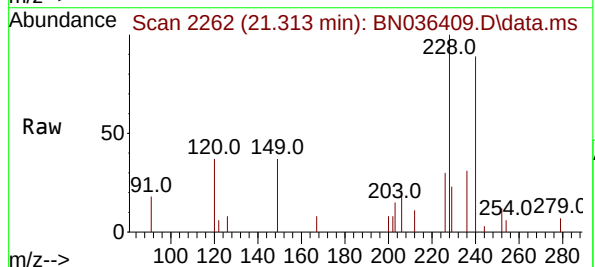
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

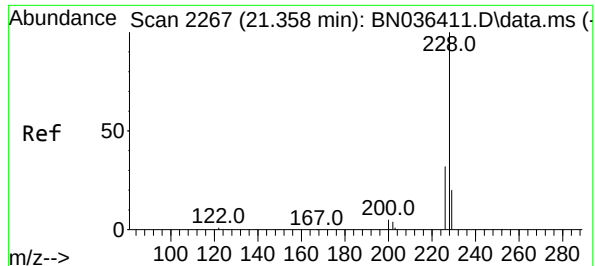
Tgt Ion:244 Resp: 1725
Ion Ratio Lower Upper
244 100
212 13.3 8.1 12.1#
122 17.7 12.8 19.2



#32
Benzo(a)anthracene
Concen: 0.088 ng
RT: 21.313 min Scan# 2262
Delta R.T. 0.000 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Tgt Ion:228 Resp: 2523
Ion Ratio Lower Upper
228 100
226 30.0 22.2 33.2
229 22.7 16.5 24.7





#33

Chrysene

Concen: 0.099 ng

RT: 21.366 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN036409.D

Acq: 10 Feb 2025 12:25

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

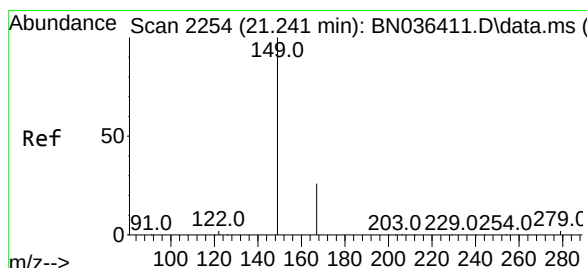
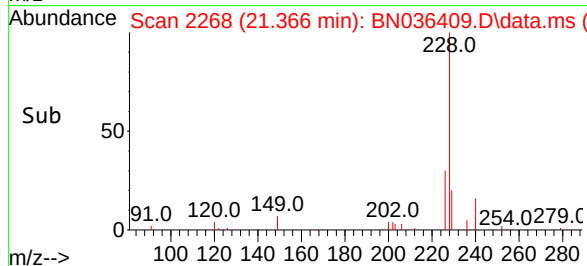
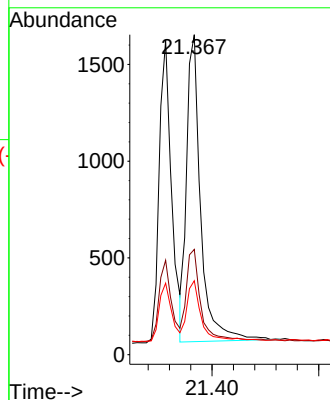
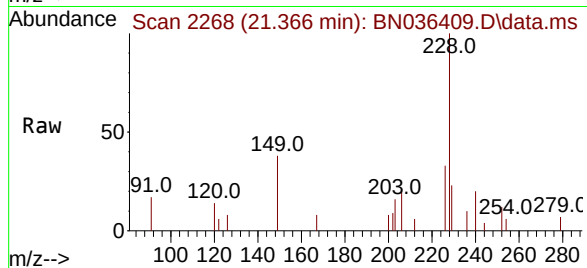
Tgt Ion:228 Resp: 2908

Ion Ratio Lower Upper

228 100

226 32.9 25.5 38.3

229 23.1 16.4 24.6



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.114 ng

RT: 21.241 min Scan# 2254

Delta R.T. 0.000 min

Lab File: BN036409.D

Acq: 10 Feb 2025 12:25

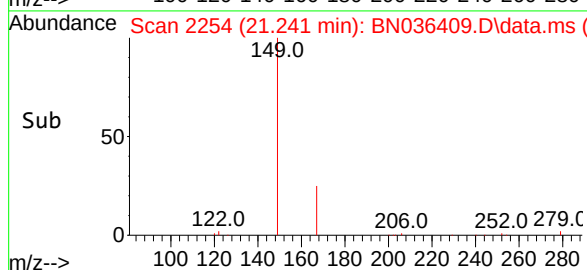
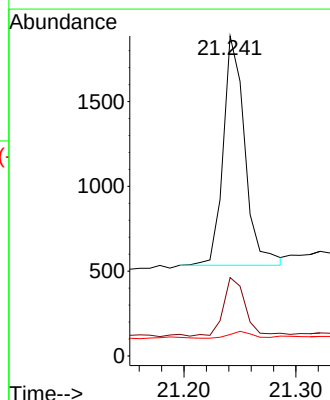
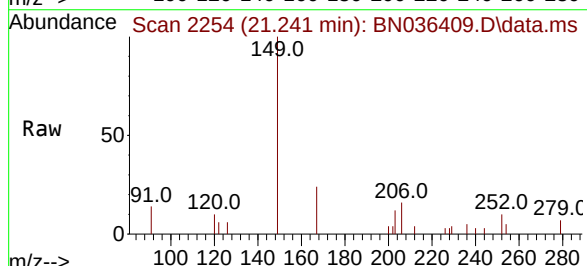
Tgt Ion:149 Resp: 1810

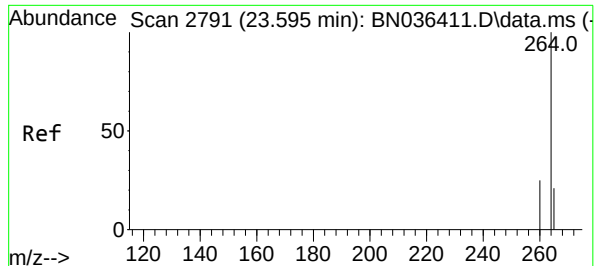
Ion Ratio Lower Upper

149 100

167 26.2 21.2 31.8

279 3.1 2.7 4.1

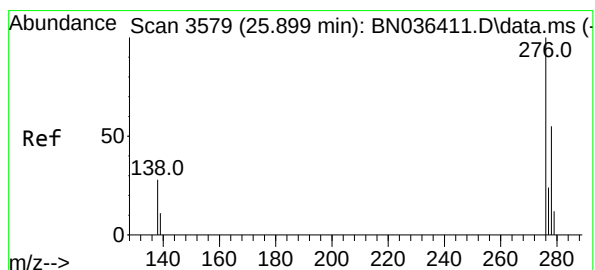
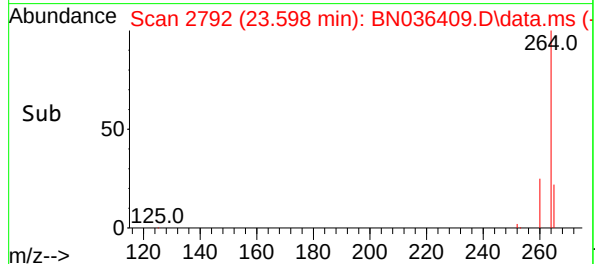
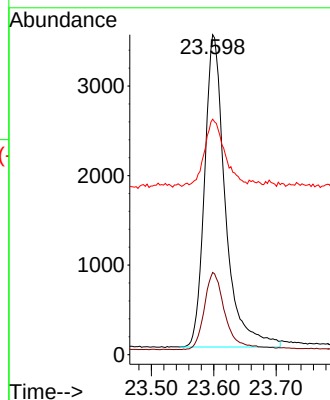
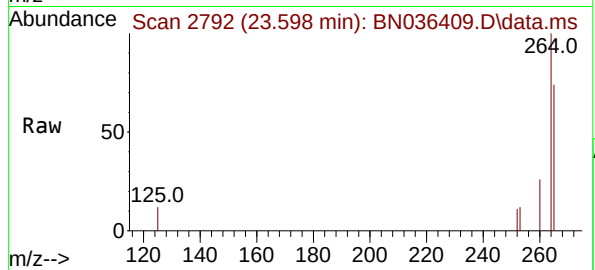




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.598 min Scan# 21
Delta R.T. 0.003 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

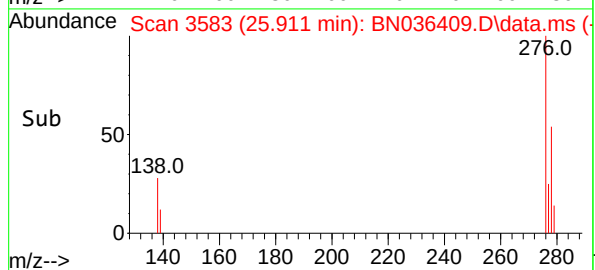
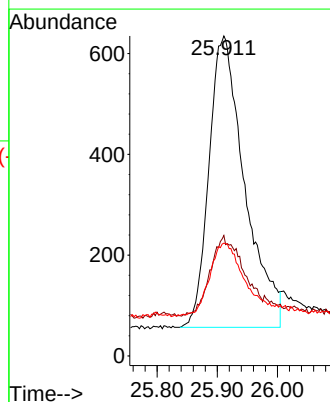
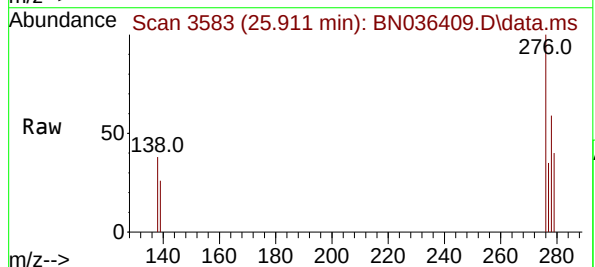
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

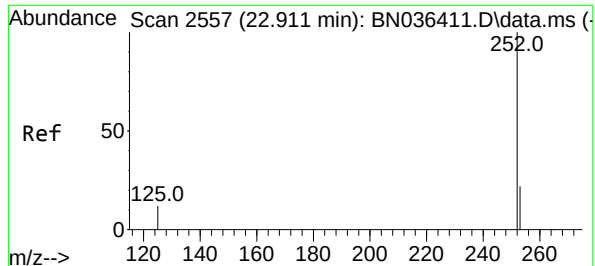
Tgt Ion:264 Resp: 8068
Ion Ratio Lower Upper
264 100
260 25.7 20.9 31.3
265 73.6 60.7 91.1



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.075 ng
RT: 25.911 min Scan# 3583
Delta R.T. 0.012 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Tgt Ion:276 Resp: 2385
Ion Ratio Lower Upper
276 100
138 25.9 22.2 33.2
277 24.8 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.083 ng

RT: 22.917 min Scan# 2559

Delta R.T. 0.006 min

Lab File: BN036409.D

Acq: 10 Feb 2025 12:25

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

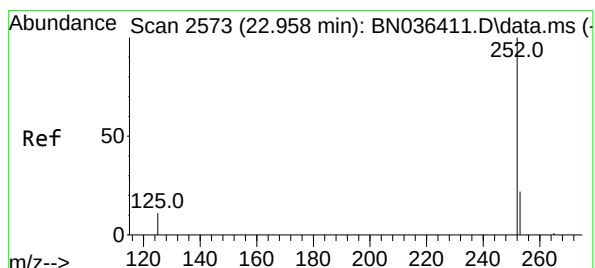
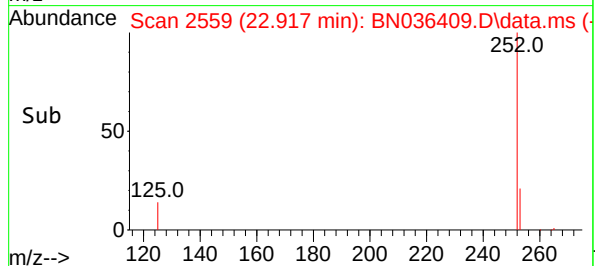
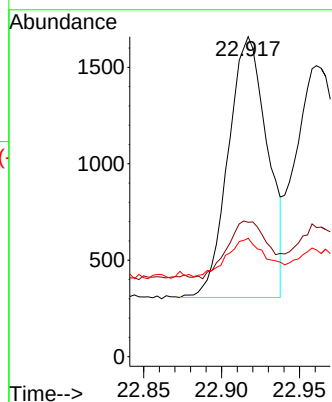
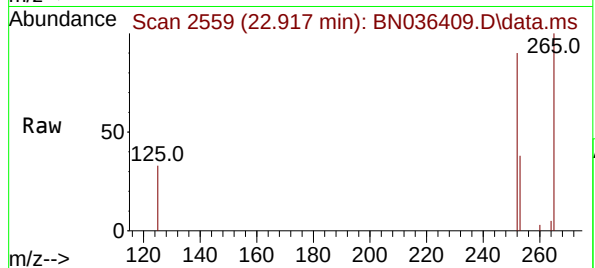
Tgt Ion:252 Resp: 2367

Ion Ratio Lower Upper

252 100

253 42.0 21.9 32.9#

125 37.0 15.0 22.6#



#38

Benzo(k)fluoranthene

Concen: 0.087 ng

RT: 22.961 min Scan# 2574

Delta R.T. 0.003 min

Lab File: BN036409.D

Acq: 10 Feb 2025 12:25

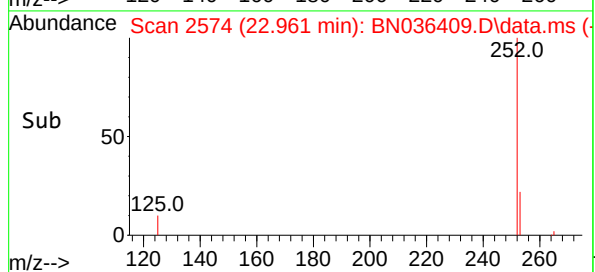
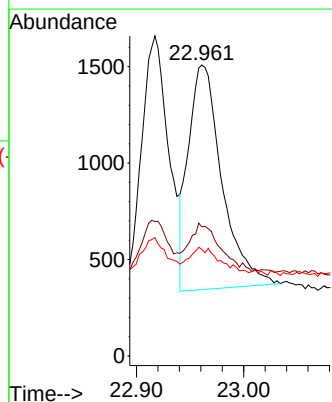
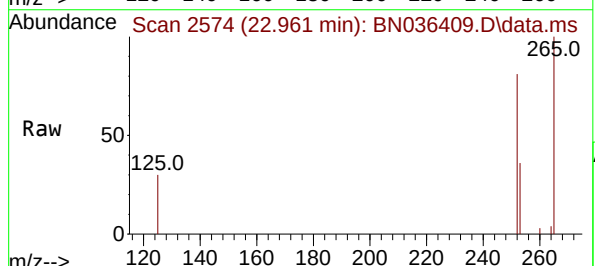
Tgt Ion:252 Resp: 2537

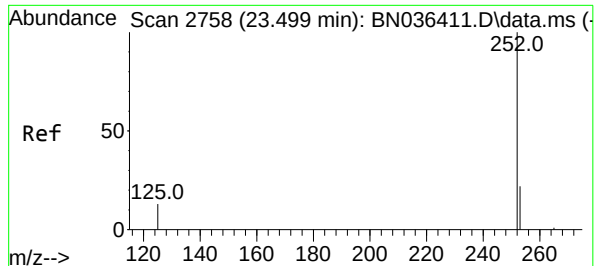
Ion Ratio Lower Upper

252 100

253 44.3 22.2 33.4#

125 36.6 15.0 22.4#





#39

Benzo(a)pyrene

Concen: 0.089 ng

RT: 23.499 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036409.D

Acq: 10 Feb 2025 12:25

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

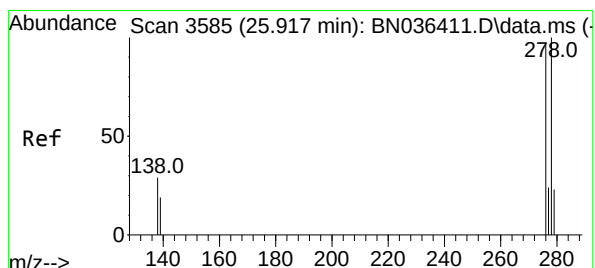
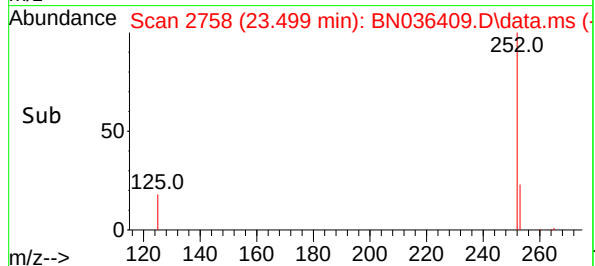
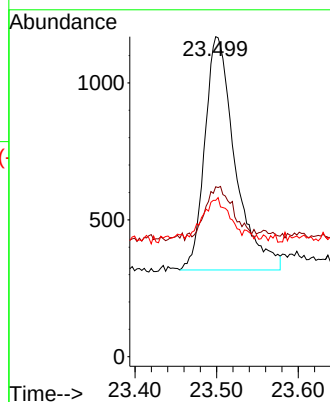
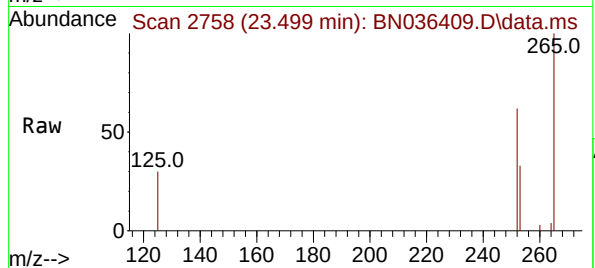
Tgt Ion:252 Resp: 2200

Ion Ratio Lower Upper

252 100

253 53.1 24.4 36.6#

125 48.8 18.2 27.2#



#40

Dibenzo(a,h)anthracene

Concen: 0.073 ng

RT: 25.928 min Scan# 3589

Delta R.T. 0.012 min

Lab File: BN036409.D

Acq: 10 Feb 2025 12:25

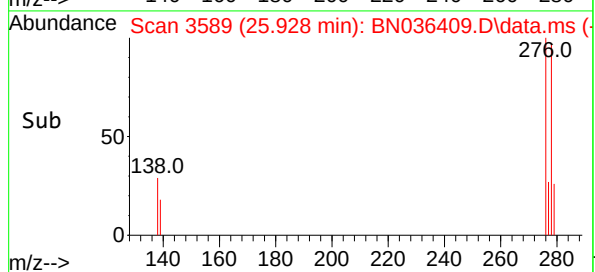
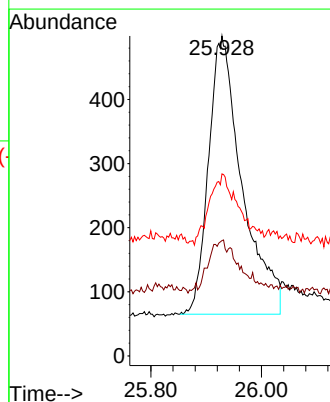
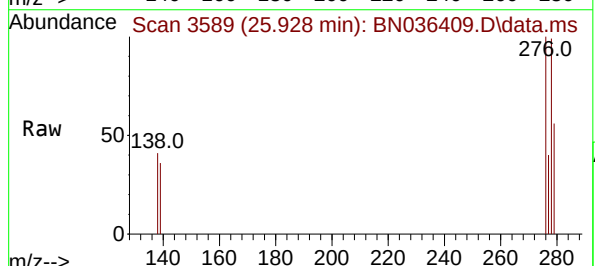
Tgt Ion:278 Resp: 1827

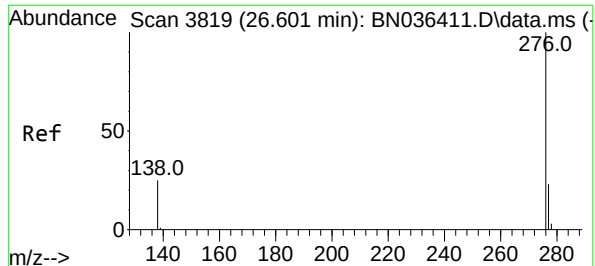
Ion Ratio Lower Upper

278 100

139 36.1 18.5 27.7#

279 56.9 24.8 37.2#





#41

Benzo(g,h,i)perylene

Concen: 0.083 ng

RT: 26.607 min Scan# 3821

Delta R.T. 0.006 min

Lab File: BN036409.D

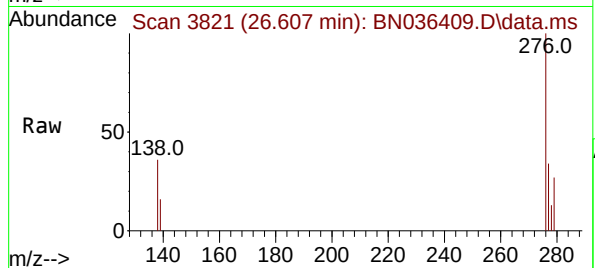
Acq: 10 Feb 2025 12:25

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1



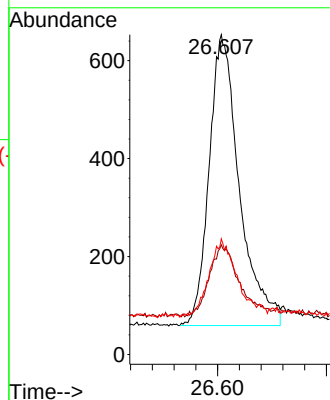
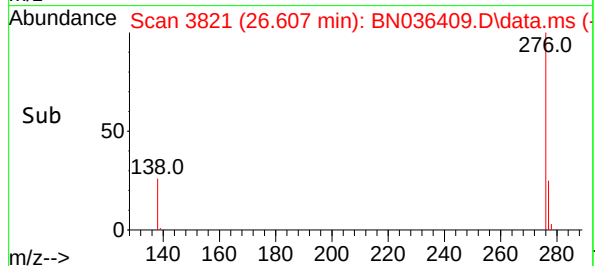
Tgt Ion:276 Resp: 2299

Ion Ratio Lower Upper

276 100

277 34.3 20.7 31.1#

138 36.1 21.8 32.6#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
 Data File : BN036410.D
 Acq On : 10 Feb 2025 13:01
 Operator : RC/JU
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

Quant Time: Feb 11 00:35:26 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 00:33:05 2025
 Response via : Initial Calibration

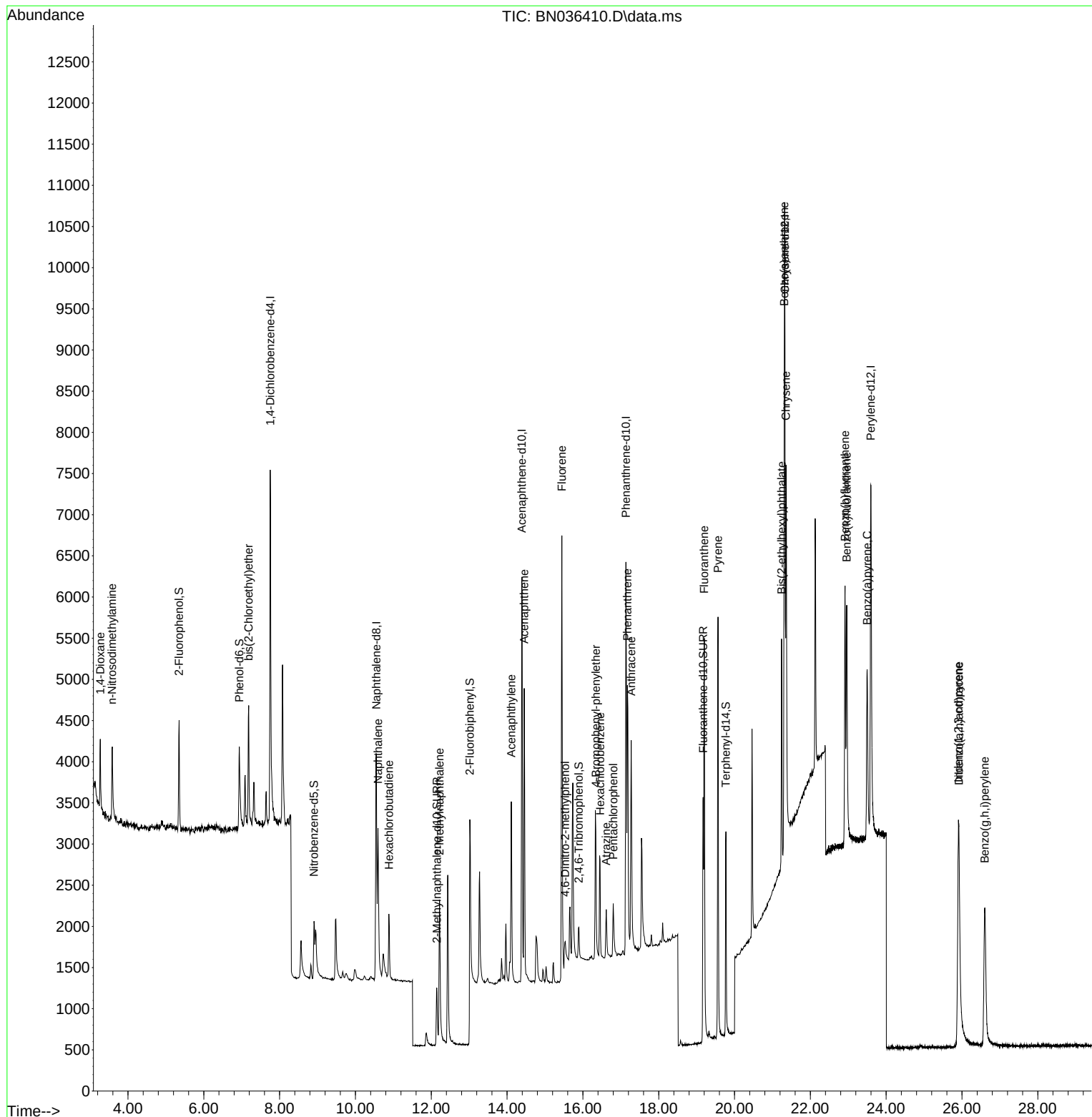
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.753	152	2157	0.400	ng	0.00
7) Naphthalene-d8	10.551	136	4791	0.400	ng	# 0.01
13) Acenaphthene-d10	14.387	164	3185	0.400	ng	0.00
19) Phenanthrene-d10	17.136	188	7435	0.400	ng	0.00
29) Chrysene-d12	21.331	240	6531	0.400	ng	# 0.00
35) Perylene-d12	23.595	264	6918	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.348	112	1029	0.187	ng	0.00
5) Phenol-d6	6.937	99	1086	0.170	ng	0.00
8) Nitrobenzene-d5	8.907	82	869	0.195	ng	0.00
11) 2-Methylnaphthalene-d10	12.146	152	1397	0.213	ng	0.00
14) 2,4,6-Tribromophenol	15.895	330	289	0.147	ng	0.01
15) 2-Fluorobiphenyl	13.019	172	2214	0.163	ng	0.00
27) Fluoranthene-d10	19.173	212	3879	0.203	ng	0.00
31) Terphenyl-d14	19.773	244	2765	0.204	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.268	88	471	0.198	ng	97
3) n-Nitrosodimethylamine	3.579	42	840	0.196	ng	# 98
6) bis(2-Chloroethyl)ether	7.183	93	1154	0.217	ng	98
9) Naphthalene	10.594	128	2733	0.200	ng	# 95
10) Hexachlorobutadiene	10.882	225	702	0.164	ng	# 99
12) 2-Methylnaphthalene	12.217	142	1706	0.198	ng	97
16) Acenaphthylene	14.110	152	2654	0.180	ng	98
17) Acenaphthene	14.452	154	1791	0.177	ng	98
18) Fluorene	15.446	166	2596	0.200	ng	100
20) 4,6-Dinitro-2-methylph...	15.535	198	248	0.149	ng	# 85
21) 4-Bromophenyl-phenylether	16.342	248	844	0.166	ng	# 80
22) Hexachlorobenzene	16.453	284	1101	0.166	ng	97
23) Atrazine	16.615	200	705	0.188	ng	95
24) Pentachlorophenol	16.801	266	463	0.159	ng	95
25) Phenanthrene	17.173	178	4051	0.186	ng	100
26) Anthracene	17.273	178	3467	0.175	ng	98
28) Fluoranthene	19.201	202	4918	0.190	ng	100
30) Pyrene	19.564	202	5119	0.196	ng	100
32) Benzo(a)anthracene	21.313	228	4166	0.180	ng	98
33) Chrysene	21.357	228	4754	0.200	ng	99
34) Bis(2-ethylhexyl)phtha...	21.241	149	2858	0.221	ng	100
36) Indeno(1,2,3-cd)pyrene	25.905	276	4459	0.164	ng	99
37) Benzo(b)fluoranthene	22.914	252	4220	0.172	ng	# 85
38) Benzo(k)fluoranthene	22.958	252	4335	0.173	ng	# 85
39) Benzo(a)pyrene	23.499	252	3740	0.177	ng	# 80
40) Dibenzo(a,h)anthracene	25.919	278	3533	0.164	ng	# 86
41) Benzo(g,h,i)perylene	26.601	276	4192	0.177	ng	93

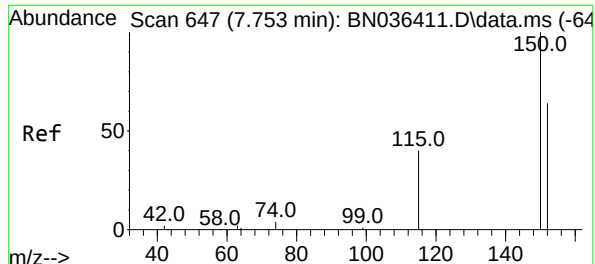
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
Data File : BN036410.D
Acq On : 10 Feb 2025 13:01
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Feb 11 00:35:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 11 00:33:05 2025
Response via : Initial Calibration

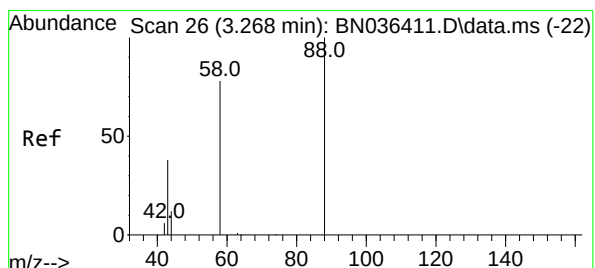
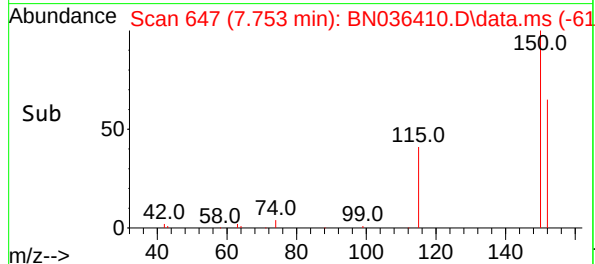
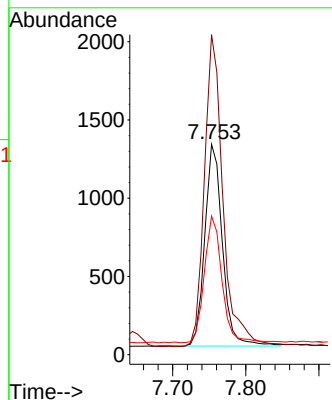
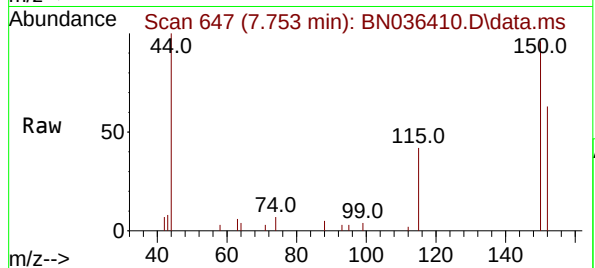




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.753 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

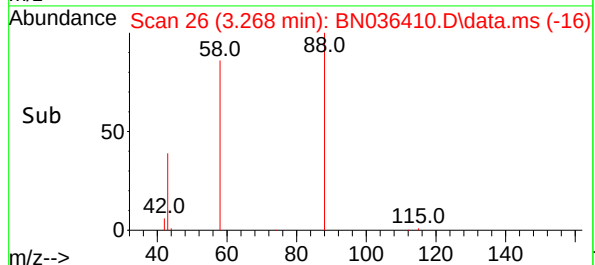
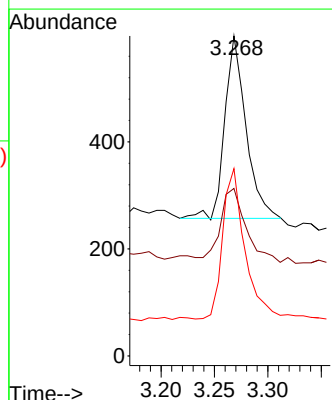
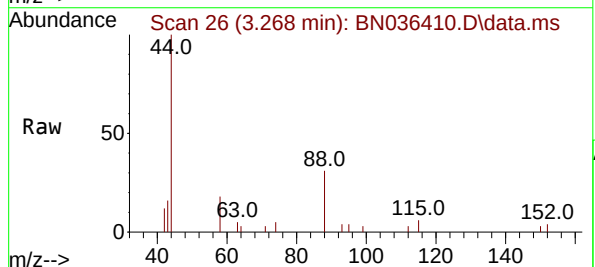
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

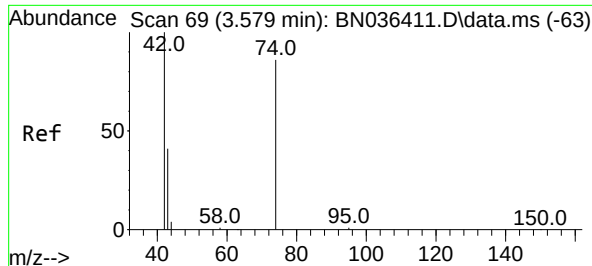
Tgt Ion:152 Resp: 2157
Ion Ratio Lower Upper
152 100
150 152.0 123.7 185.5
115 65.9 52.5 78.7



#2
1,4-Dioxane
Concen: 0.198 ng
RT: 3.268 min Scan# 26
Delta R.T. -0.000 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

Tgt Ion: 88 Resp: 471
Ion Ratio Lower Upper
88 100
43 48.2 33.7 50.5
58 85.8 68.9 103.3

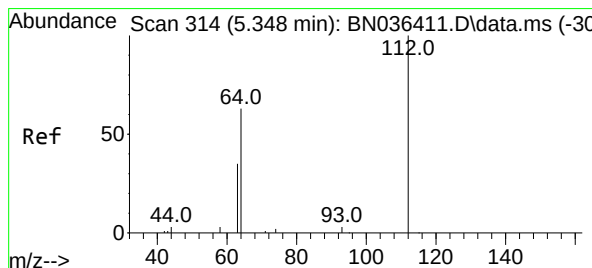
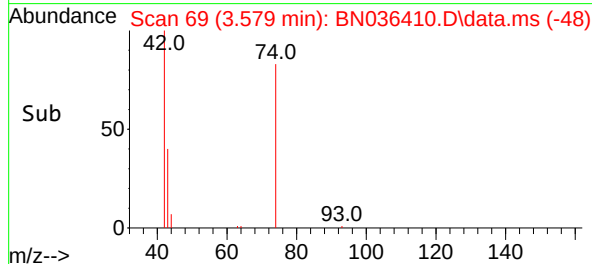
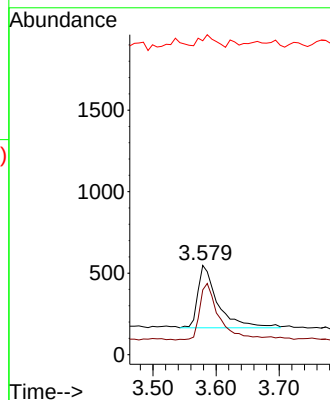
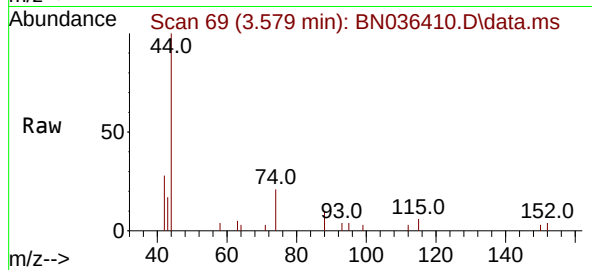




#3
n-Nitrosodimethylamine
Concen: 0.196 ng
RT: 3.579 min Scan# 69
Delta R.T. -0.000 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

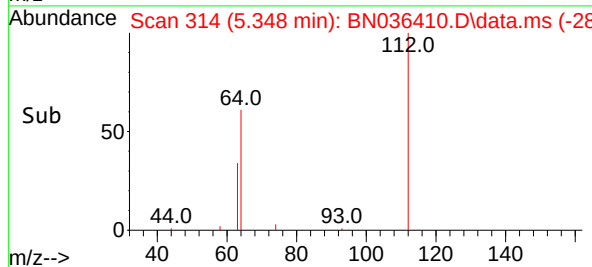
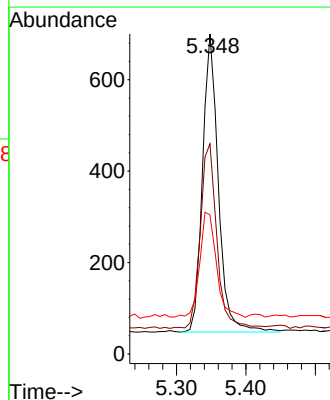
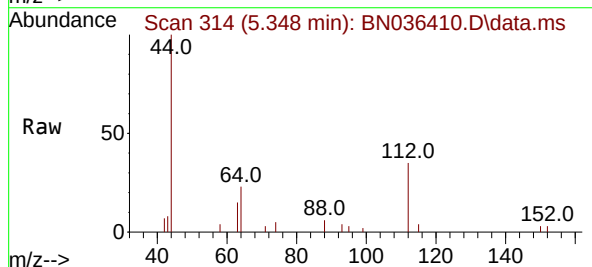
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

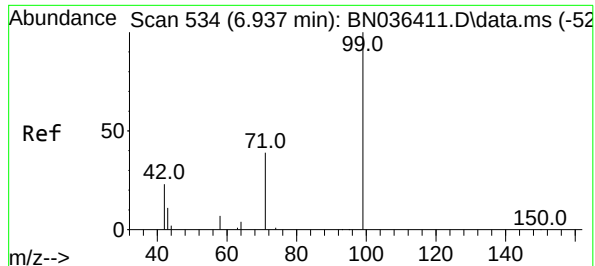
Tgt Ion: 42 Resp: 840
Ion Ratio Lower Upper
42 100
74 90.6 71.8 107.6
44 14.5 7.8 11.6#



#4
2-Fluorophenol
Concen: 0.187 ng
RT: 5.348 min Scan# 314
Delta R.T. -0.000 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

Tgt Ion: 112 Resp: 1029
Ion Ratio Lower Upper
112 100
64 64.8 53.4 80.0
63 37.2 30.3 45.5

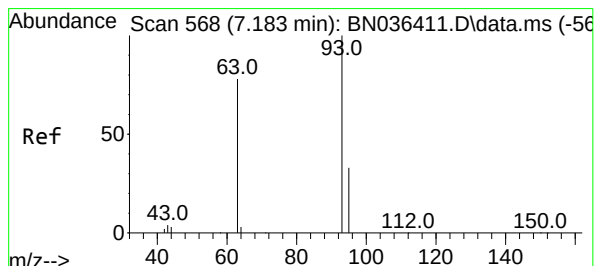
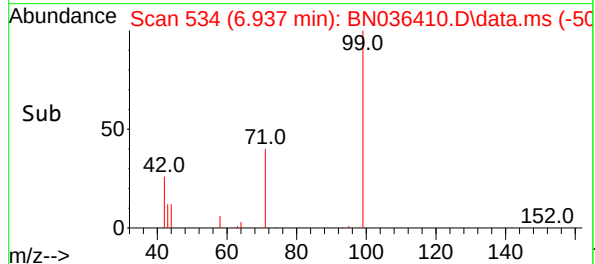
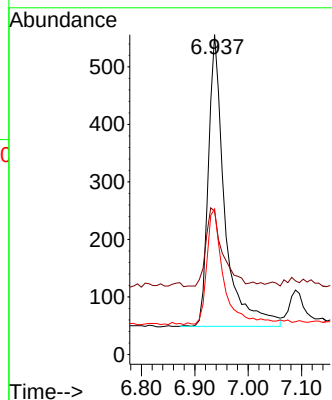
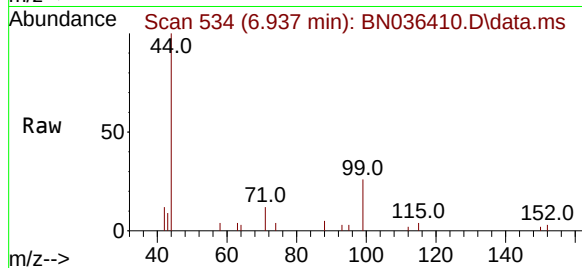




#5
Phenol-d6
Concen: 0.170 ng
RT: 6.937 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

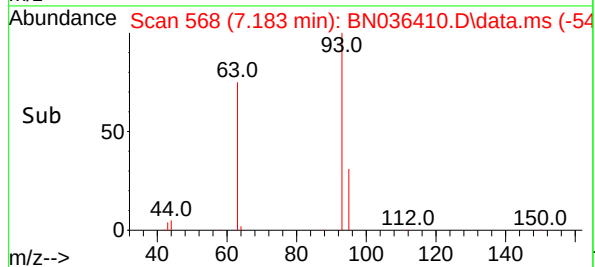
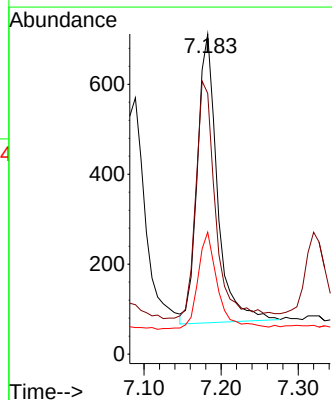
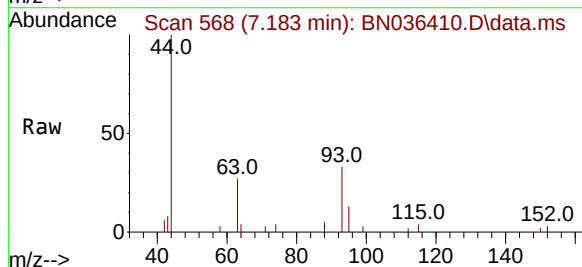
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

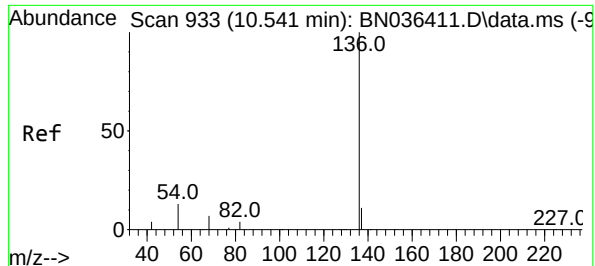
Tgt Ion	Ratio	Lower	Upper
99	100		
42	26.8	21.7	32.5
71	40.7	32.6	49.0



#6
bis(2-Chloroethyl)ether
Concen: 0.217 ng
RT: 7.183 min Scan# 568
Delta R.T. -0.000 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

Tgt Ion	Ratio	Lower	Upper
93	100		
63	81.6	66.3	99.5
95	34.1	26.2	39.4

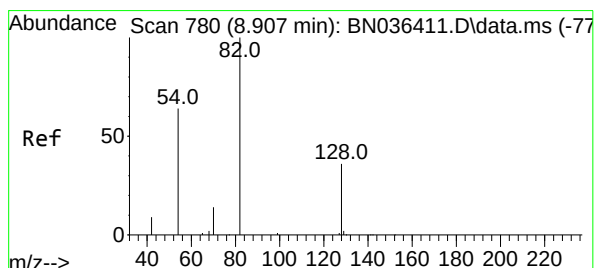
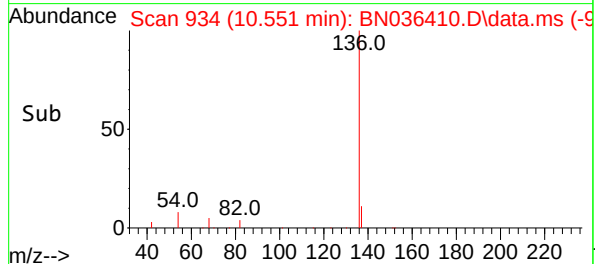
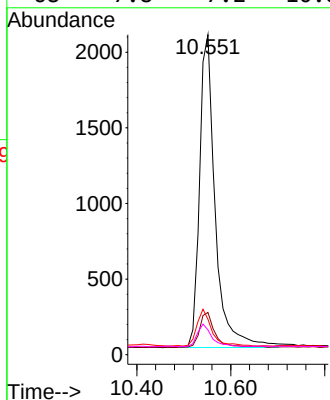
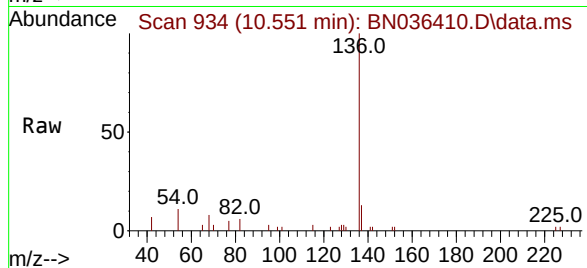




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.551 min Scan# 91
Delta R.T. 0.011 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

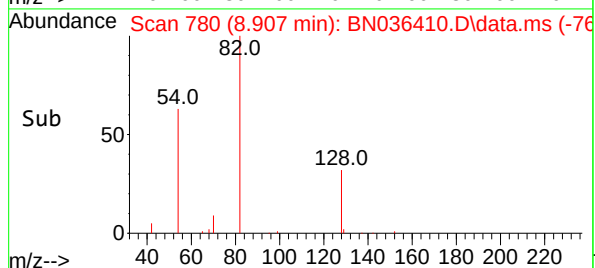
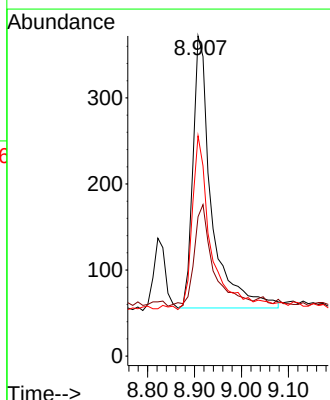
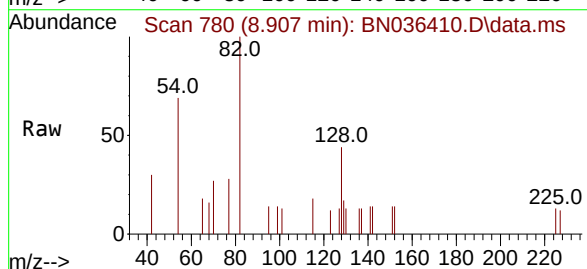
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

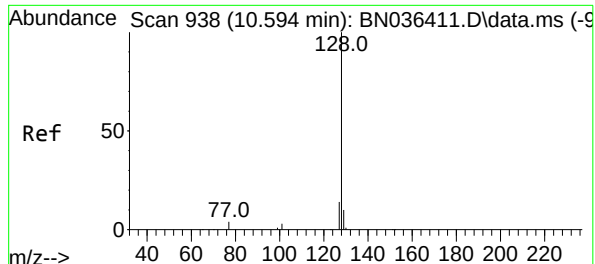
Tgt Ion:	136	Resp:	4791
Ion	Ratio	Lower	Upper
136	100		
137	13.2	10.1	15.1
54	11.1	11.8	17.6#
68	7.8	7.2	10.8



#8
Nitrobenzene-d5
Concen: 0.195 ng
RT: 8.907 min Scan# 780
Delta R.T. -0.000 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

Tgt Ion:	82	Resp:	869
Ion	Ratio	Lower	Upper
82	100		
128	43.5	31.9	47.9
54	68.8	53.1	79.7

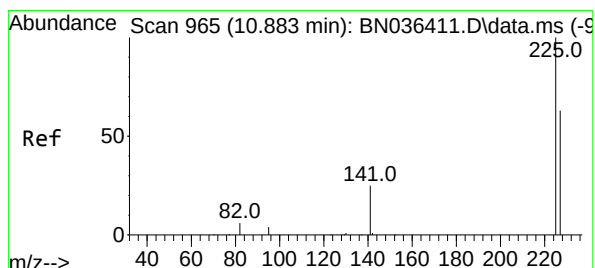
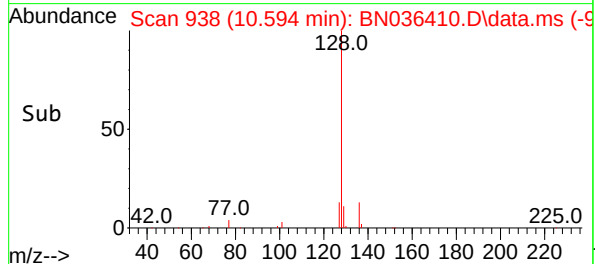
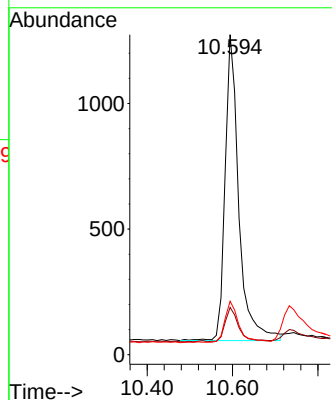
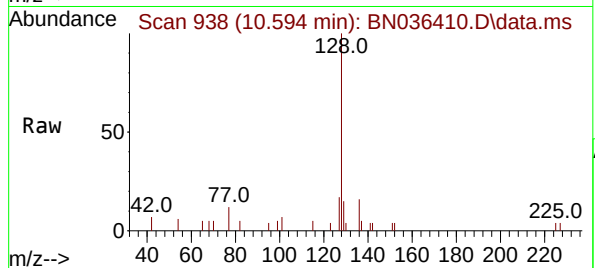




#9
Naphthalene
Concen: 0.200 ng
RT: 10.594 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

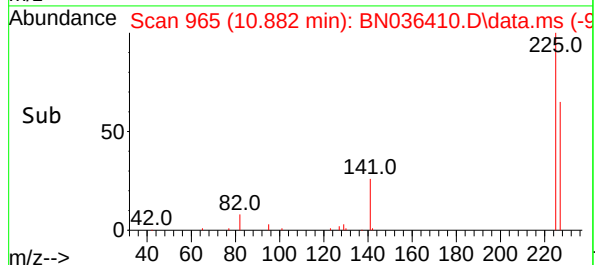
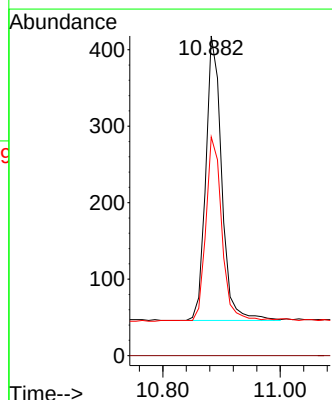
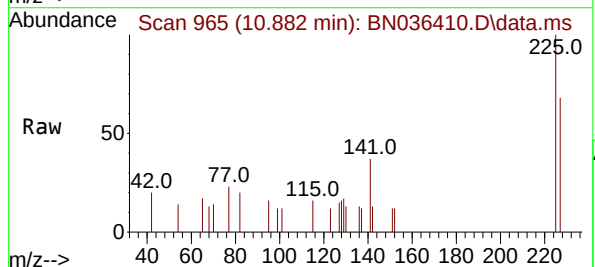
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

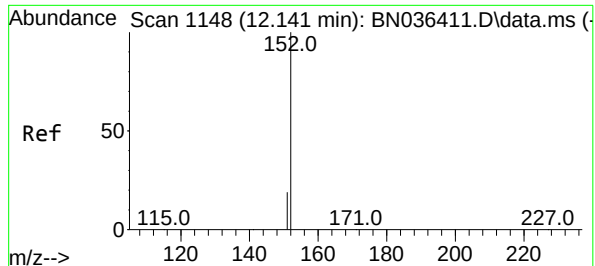
Tgt Ion:128 Resp: 2733
Ion Ratio Lower Upper
128 100
129 14.8 9.6 14.4#
127 16.7 12.0 18.0



#10
Hexachlorobutadiene
Concen: 0.164 ng
RT: 10.882 min Scan# 965
Delta R.T. -0.000 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

Tgt Ion:225 Resp: 702
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.1 50.9 76.3

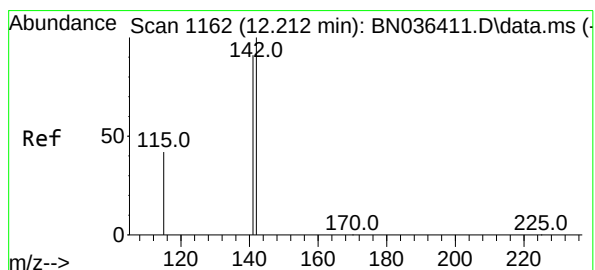
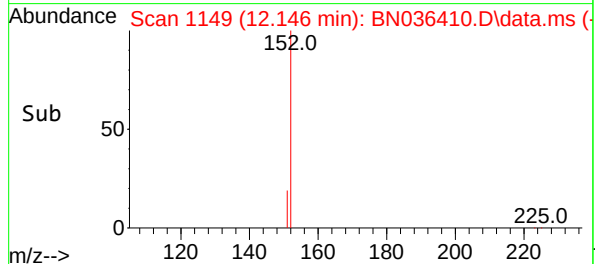
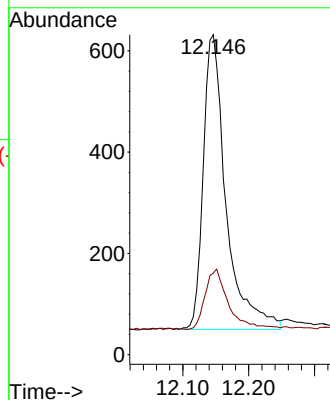
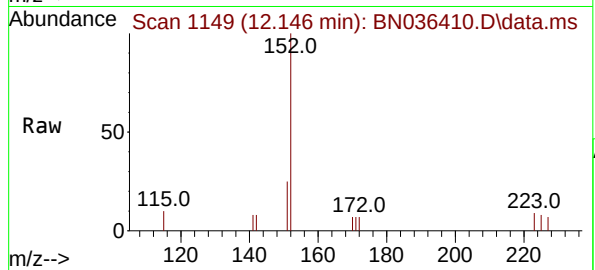




#11
2-Methylnaphthalene-d10
Concen: 0.213 ng
RT: 12.146 min Scan# 1149
Delta R.T. 0.005 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

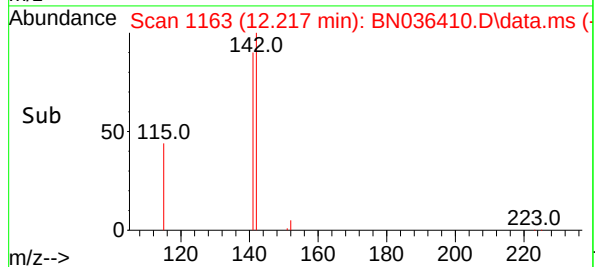
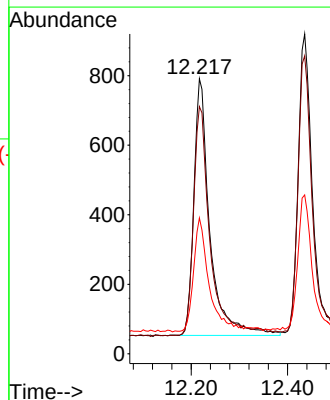
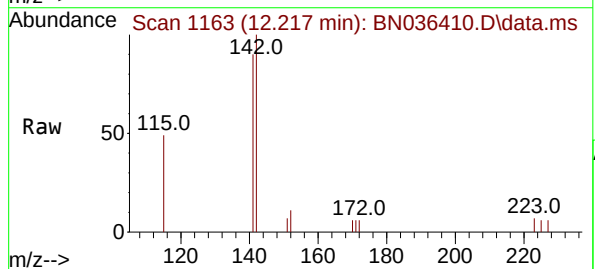
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

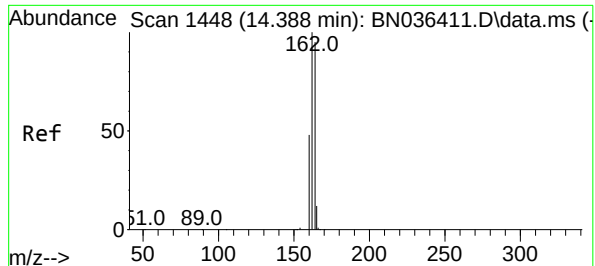
Tgt Ion:152 Resp: 1397
Ion Ratio Lower Upper
152 100
151 21.0 16.6 25.0



#12
2-Methylnaphthalene
Concen: 0.198 ng
RT: 12.217 min Scan# 1163
Delta R.T. 0.005 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

Tgt Ion:142 Resp: 1706
Ion Ratio Lower Upper
142 100
141 89.9 72.8 109.2
115 49.4 35.5 53.3

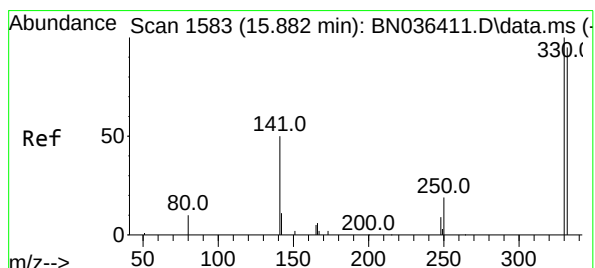
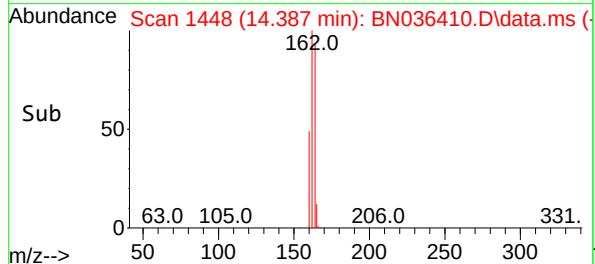
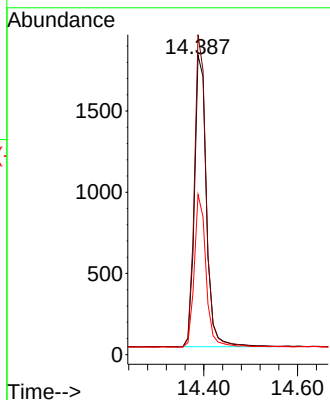
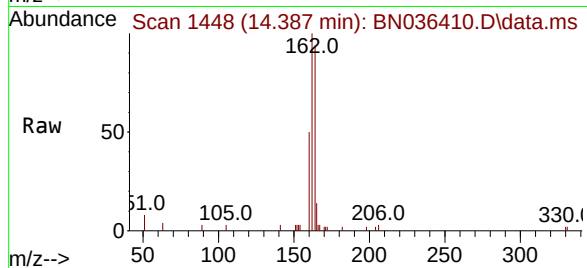




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.387 min Scan# 1448
Delta R.T. -0.000 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

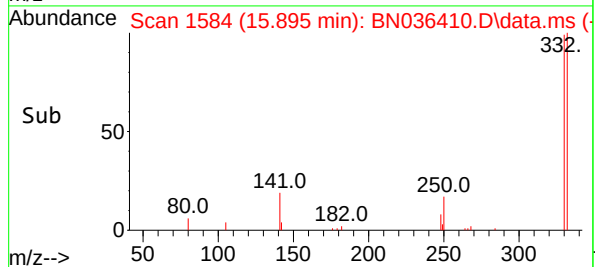
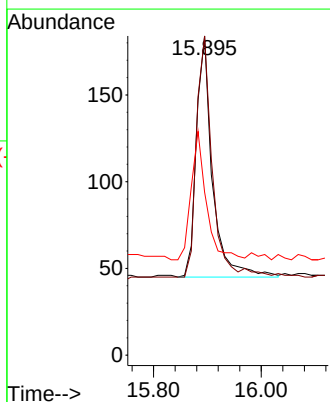
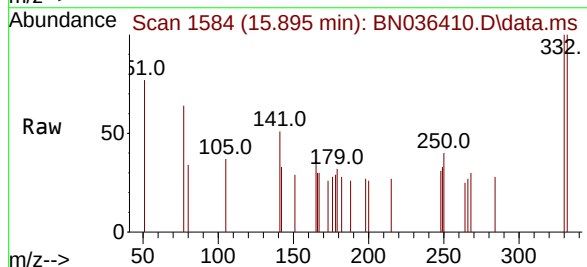
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

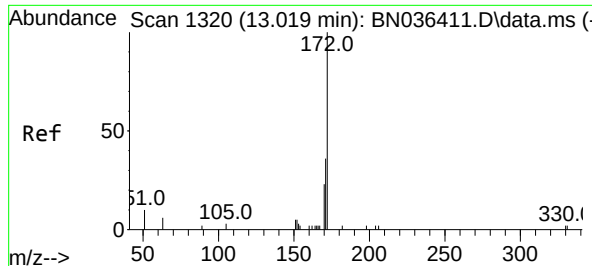
Tgt Ion:164 Resp: 3185
Ion Ratio Lower Upper
164 100
162 106.9 84.1 126.1
160 53.5 41.4 62.0



#14
2,4,6-Tribromophenol
Concen: 0.147 ng
RT: 15.895 min Scan# 1584
Delta R.T. 0.012 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

Tgt Ion:330 Resp: 289
Ion Ratio Lower Upper
330 100
332 99.0 76.6 114.8
141 49.8 37.8 56.8





#15

2-Fluorobiphenyl

Concen: 0.163 ng

RT: 13.019 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN036410.D

Acq: 10 Feb 2025 13:01

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

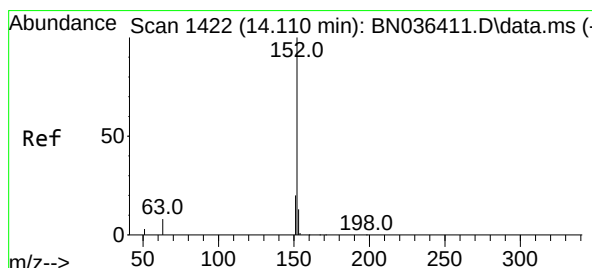
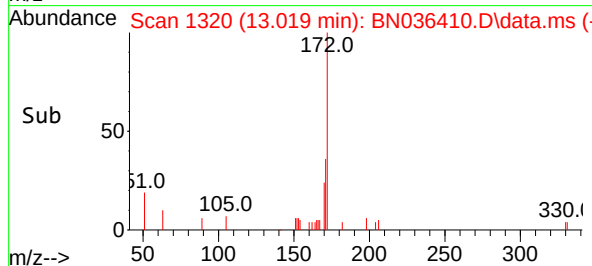
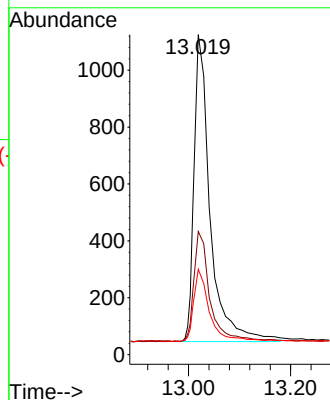
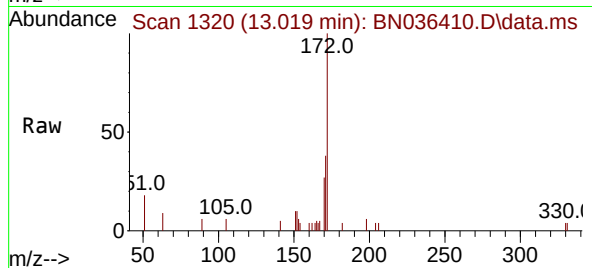
Tgt Ion:172 Resp: 2214

Ion Ratio Lower Upper

172 100

171 38.5 29.6 44.4

170 26.7 19.8 29.6



#16

Acenaphthylene

Concen: 0.180 ng

RT: 14.110 min Scan# 1422

Delta R.T. -0.000 min

Lab File: BN036410.D

Acq: 10 Feb 2025 13:01

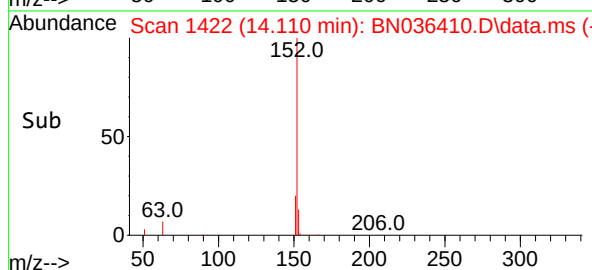
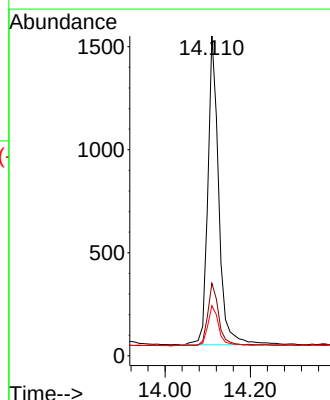
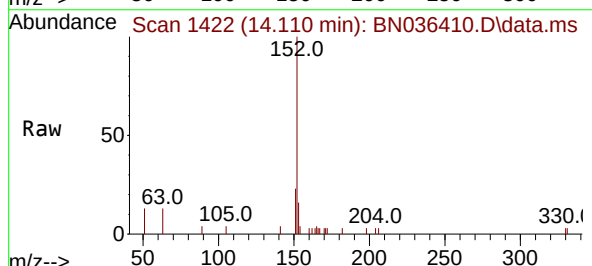
Tgt Ion:152 Resp: 2654

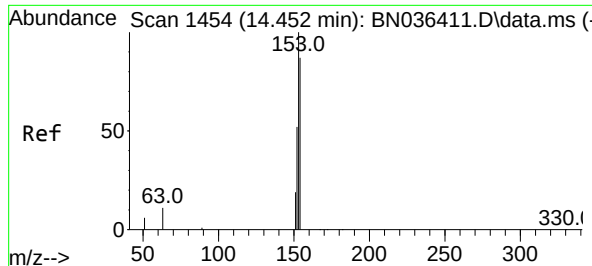
Ion Ratio Lower Upper

152 100

151 20.2 15.8 23.8

153 13.9 10.2 15.2

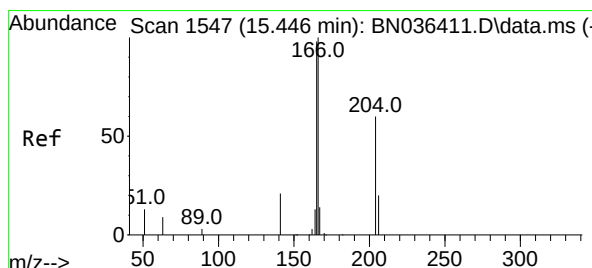
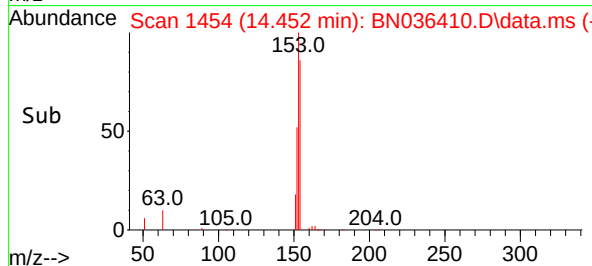
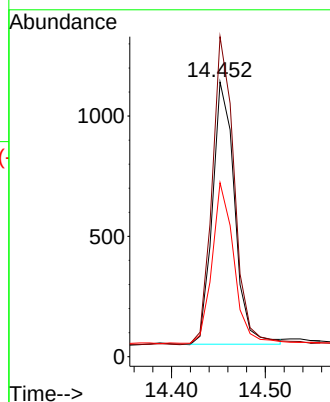
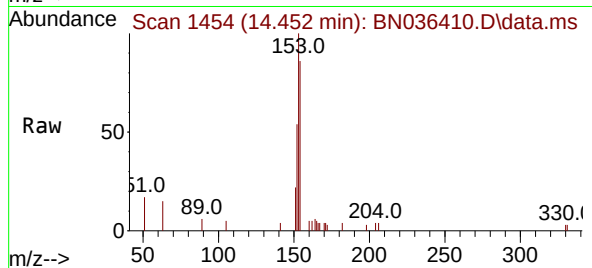




#17
Acenaphthene
Concen: 0.177 ng
RT: 14.452 min Scan# 1454
Delta R.T. -0.000 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

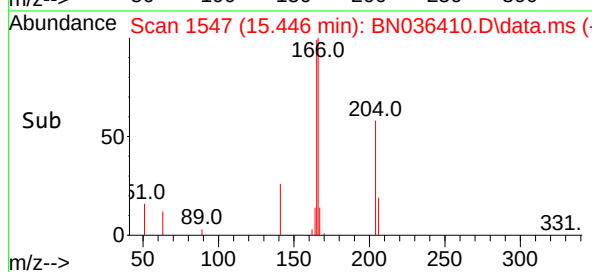
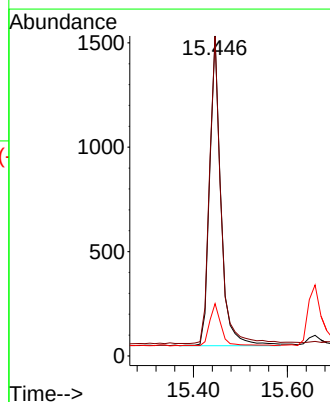
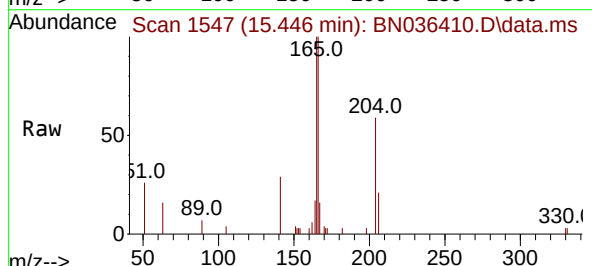
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

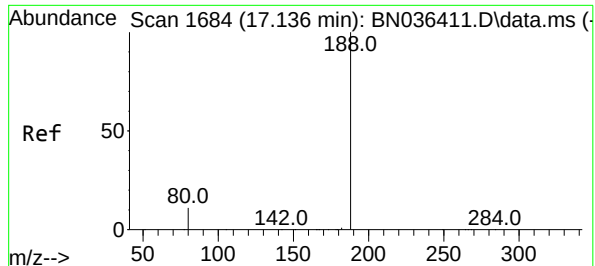
Tgt Ion	154	Resp	1791
Ion Ratio	Lower	Upper	
154	100		
153	119.4	93.3	139.9
152	61.4	48.8	73.2



#18
Fluorene
Concen: 0.200 ng
RT: 15.446 min Scan# 1547
Delta R.T. -0.000 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

Tgt Ion	166	Resp	2596
Ion Ratio	Lower	Upper	
166	100		
165	99.4	79.5	119.3
167	13.8	10.4	15.6





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.136 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN036410.D

Acq: 10 Feb 2025 13:01

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

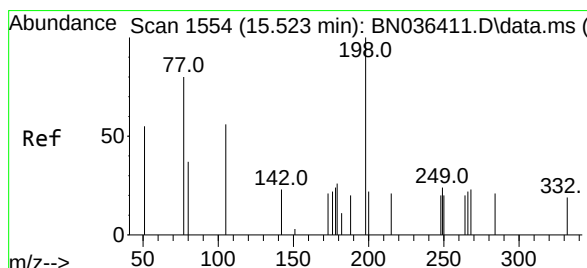
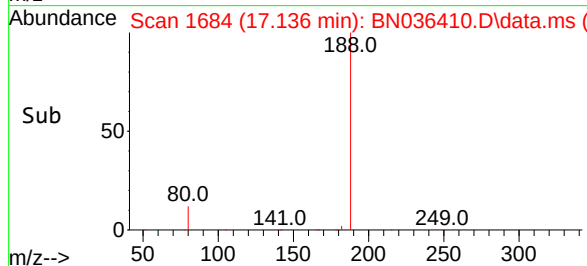
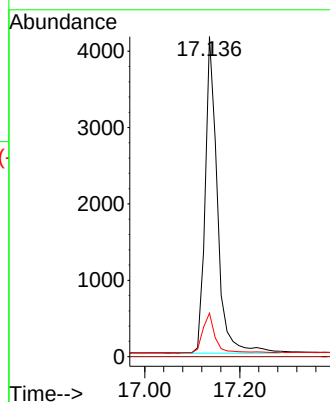
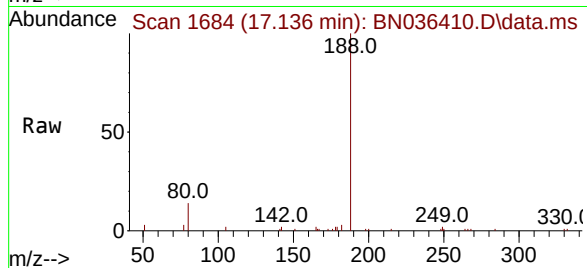
Tgt Ion:188 Resp: 7435

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.6 9.8 14.6



#20

4,6-Dinitro-2-methylphenol

Concen: 0.149 ng

RT: 15.535 min Scan# 1555

Delta R.T. 0.012 min

Lab File: BN036410.D

Acq: 10 Feb 2025 13:01

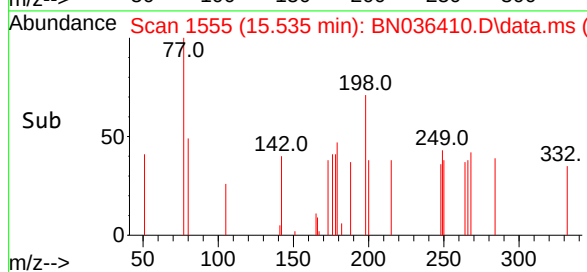
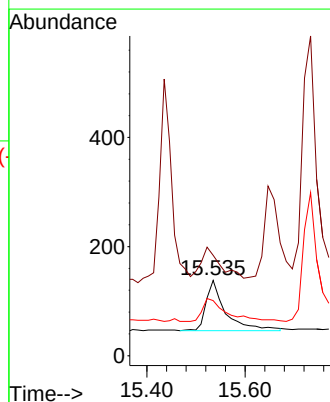
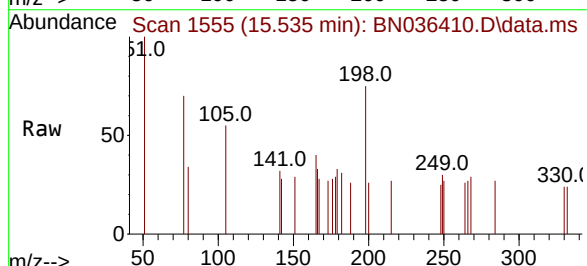
Tgt Ion:198 Resp: 248

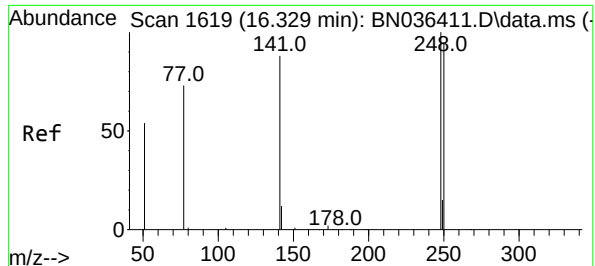
Ion Ratio Lower Upper

198 100

51 133.3 86.6 129.8#

105 73.2 57.5 86.3

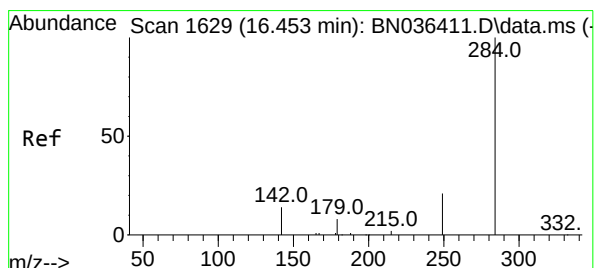
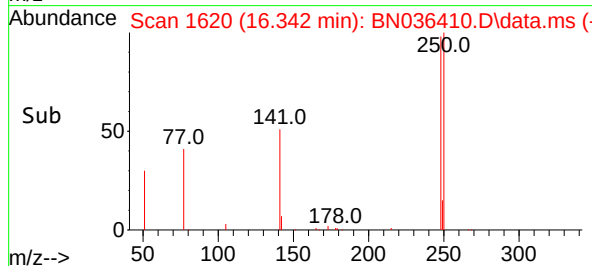
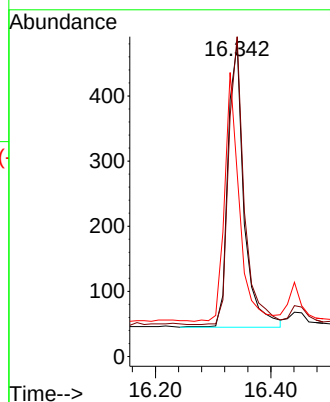
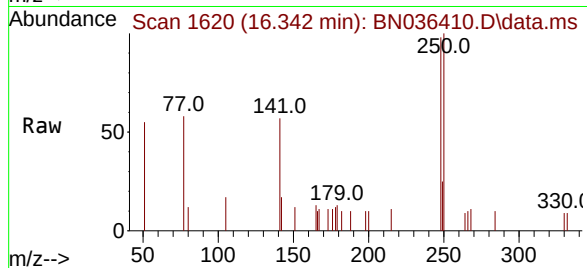




#21
4-Bromophenyl-phenylether
Concen: 0.166 ng
RT: 16.342 min Scan# 1620
Delta R.T. 0.012 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

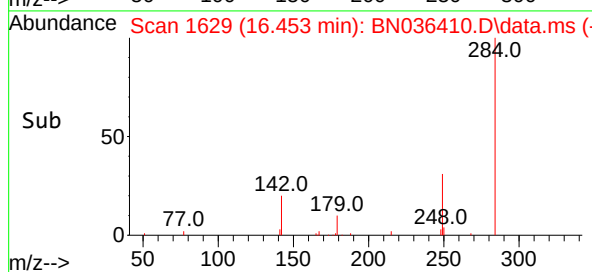
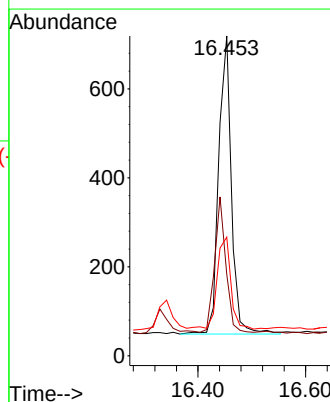
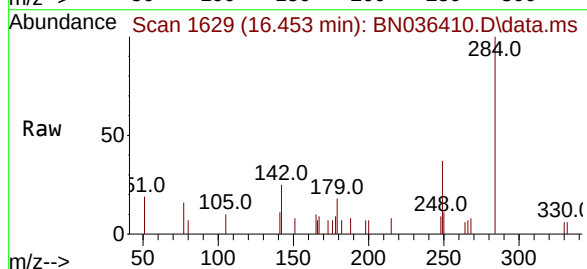
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

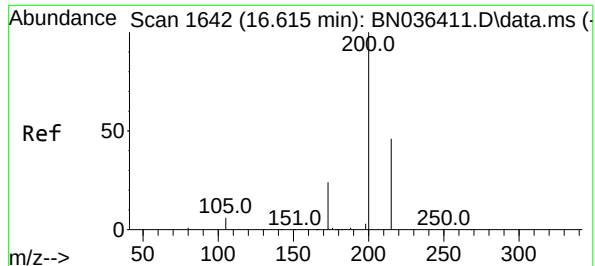
Tgt Ion:248 Resp: 844
Ion Ratio Lower Upper
248 100
250 102.3 76.1 114.1
141 58.7 71.7 107.5#



#22
Hexachlorobenzene
Concen: 0.166 ng
RT: 16.453 min Scan# 1629
Delta R.T. -0.000 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

Tgt Ion:284 Resp: 1101
Ion Ratio Lower Upper
284 100
142 39.9 33.4 50.0
249 33.7 28.6 43.0





#23

Atrazine

Concen: 0.188 ng

RT: 16.615 min Scan# 1642

Delta R.T. -0.000 min

Lab File: BN036410.D

Acq: 10 Feb 2025 13:01

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

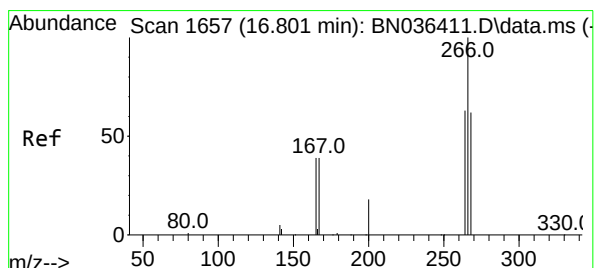
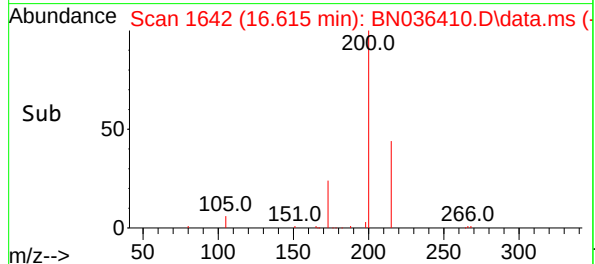
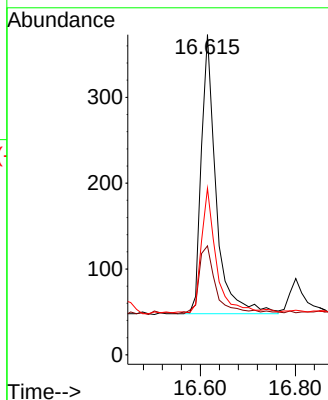
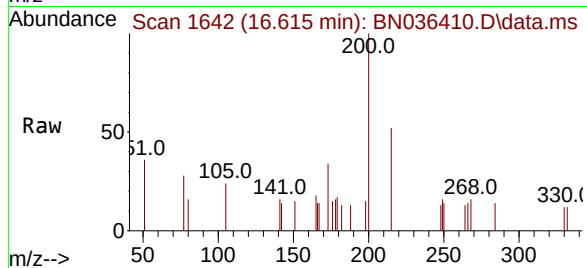
Tgt Ion:200 Resp: 705

Ion Ratio Lower Upper

200 100

173 34.0 23.2 34.8

215 52.0 40.0 60.0



#24

Pentachlorophenol

Concen: 0.159 ng

RT: 16.801 min Scan# 1657

Delta R.T. -0.000 min

Lab File: BN036410.D

Acq: 10 Feb 2025 13:01

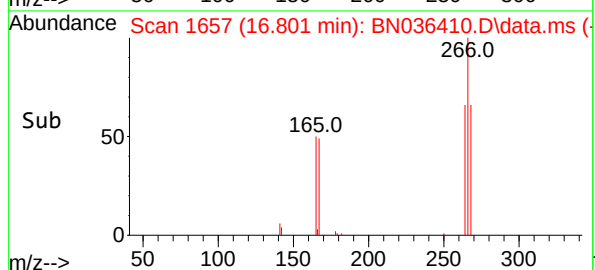
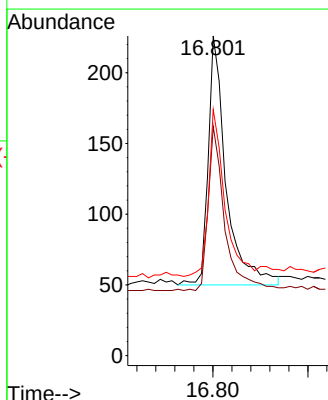
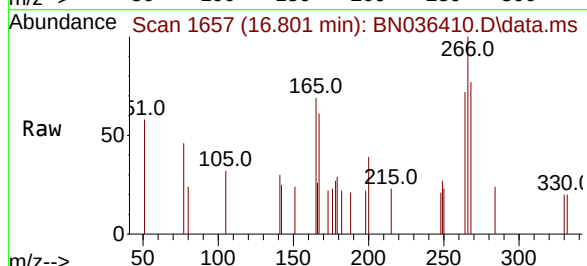
Tgt Ion:266 Resp: 463

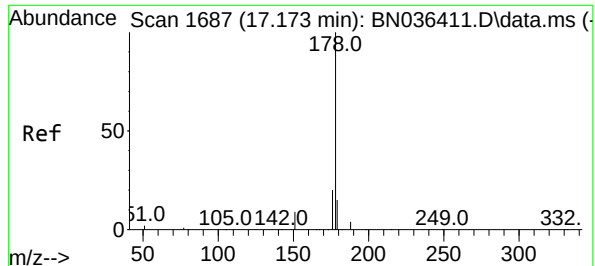
Ion Ratio Lower Upper

266 100

264 60.9 50.6 76.0

268 60.0 51.9 77.9

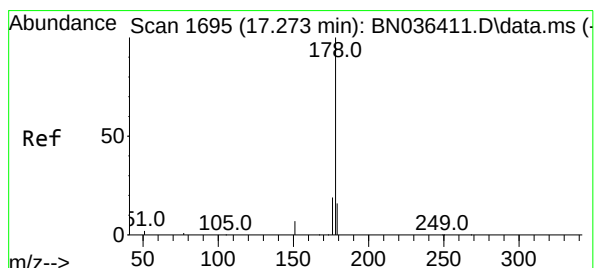
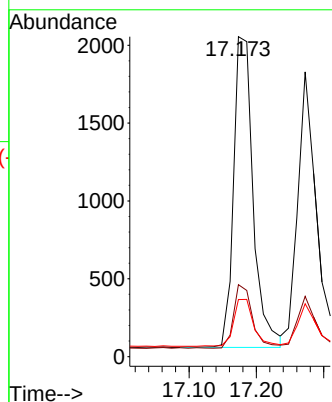
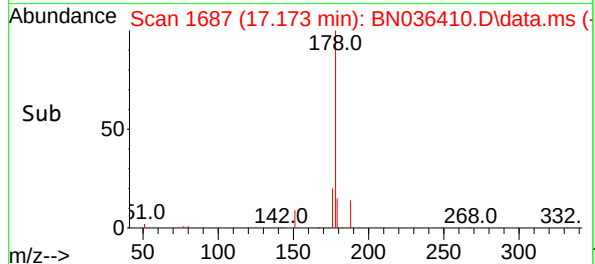
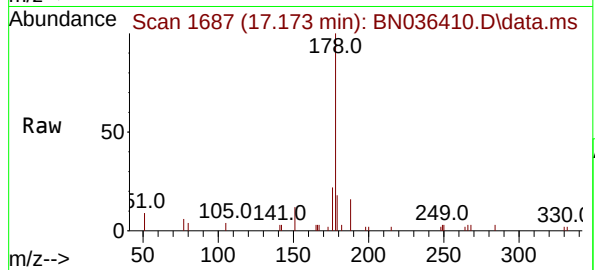




#25
Phenanthrene
Concen: 0.186 ng
RT: 17.173 min Scan# 1687
Delta R.T. -0.000 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

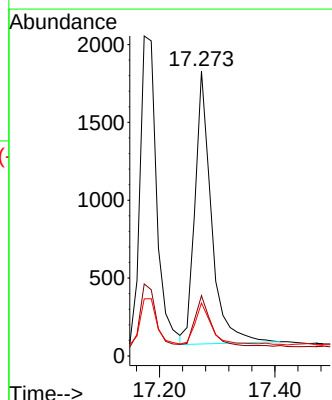
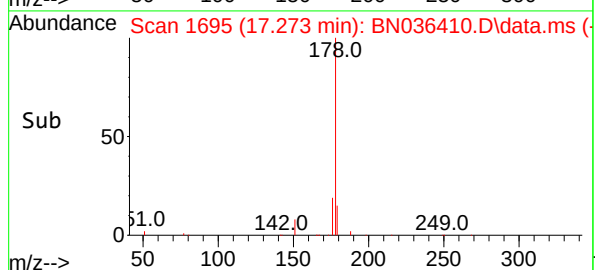
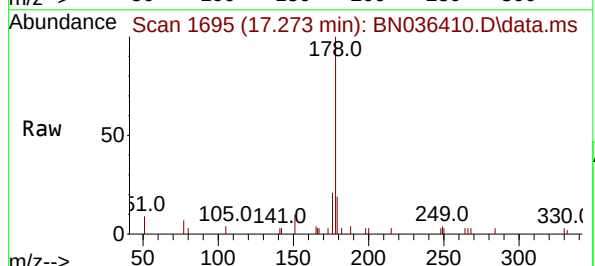
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

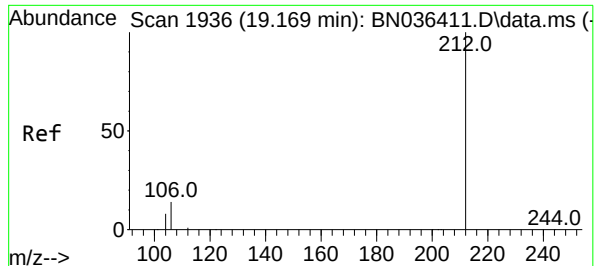
Tgt Ion:178 Resp: 4051
Ion Ratio Lower Upper
178 100
176 19.6 15.7 23.5
179 15.3 12.4 18.6



#26
Anthracene
Concen: 0.175 ng
RT: 17.273 min Scan# 1695
Delta R.T. -0.000 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

Tgt Ion:178 Resp: 3467
Ion Ratio Lower Upper
178 100
176 19.6 14.9 22.3
179 16.5 12.4 18.6





#27

Fluoranthene-d10

Concen: 0.203 ng

RT: 19.173 min Scan# 1937

Delta R.T. 0.005 min

Lab File: BN036410.D

Acq: 10 Feb 2025 13:01

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

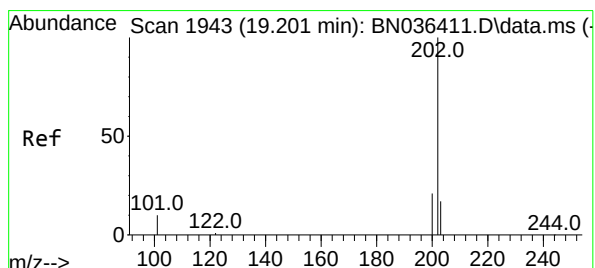
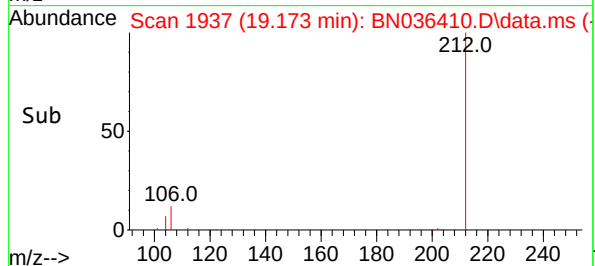
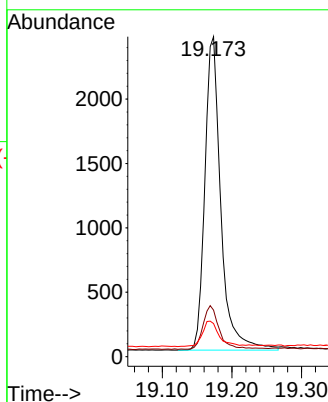
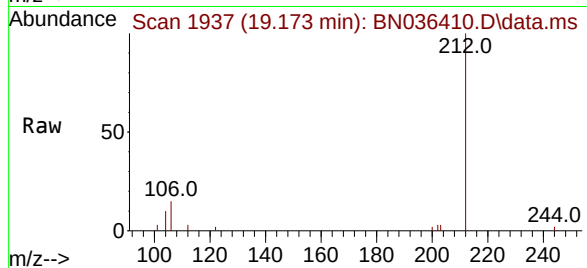
Tgt Ion:212 Resp: 3879

Ion Ratio Lower Upper

212 100

106 14.1 11.5 17.3

104 8.6 7.1 10.7



#28

Fluoranthene

Concen: 0.190 ng

RT: 19.201 min Scan# 1943

Delta R.T. -0.000 min

Lab File: BN036410.D

Acq: 10 Feb 2025 13:01

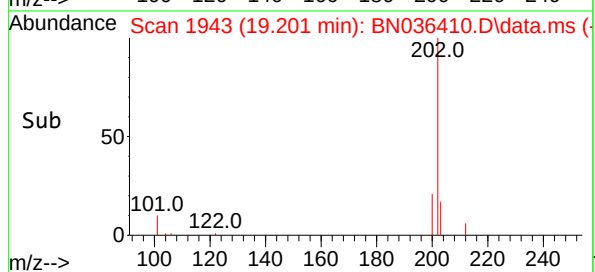
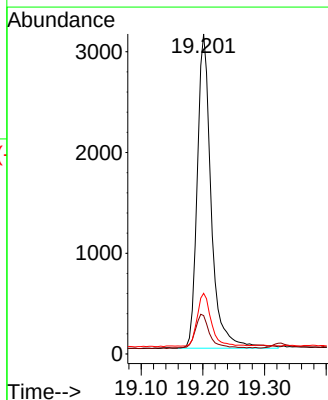
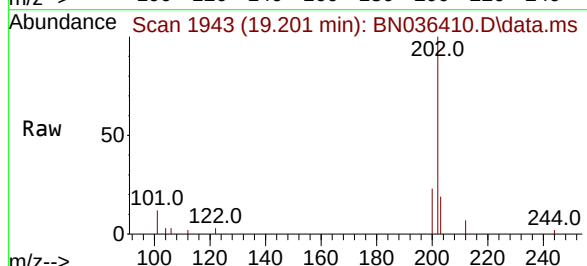
Tgt Ion:202 Resp: 4918

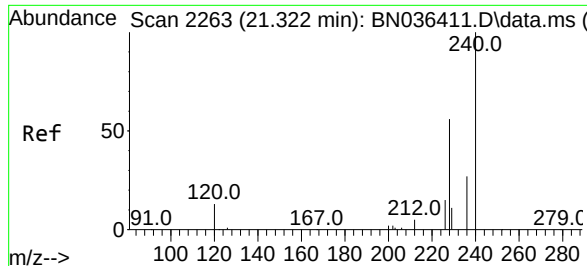
Ion Ratio Lower Upper

202 100

101 11.6 9.2 13.8

203 16.7 13.4 20.0





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.331 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN036410.D

Acq: 10 Feb 2025 13:01

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

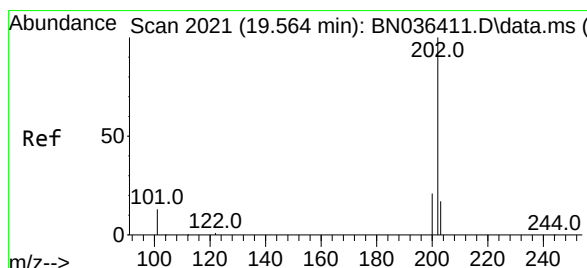
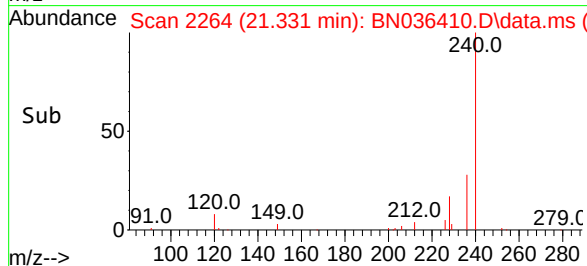
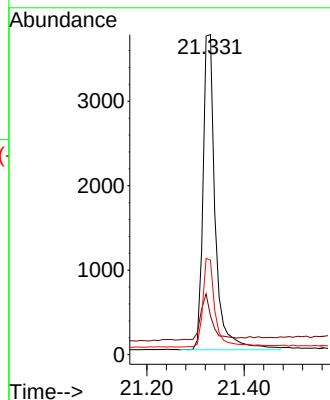
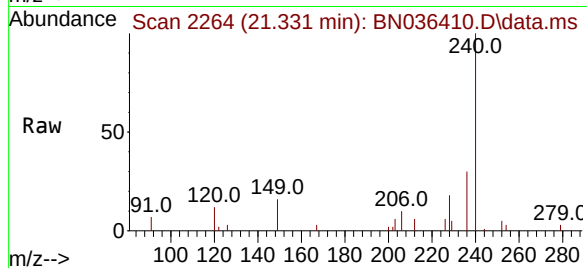
Tgt Ion:240 Resp: 6531

Ion Ratio Lower Upper

240 100

120 12.1 13.3 19.9#

236 29.5 23.0 34.6



#30

Pyrene

Concen: 0.196 ng

RT: 19.564 min Scan# 2021

Delta R.T. -0.000 min

Lab File: BN036410.D

Acq: 10 Feb 2025 13:01

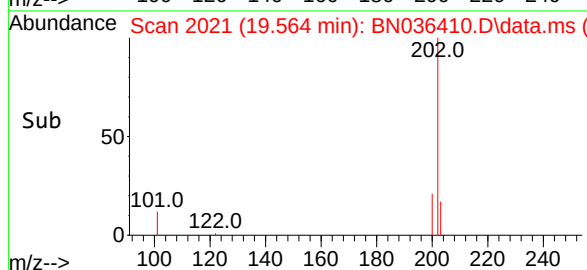
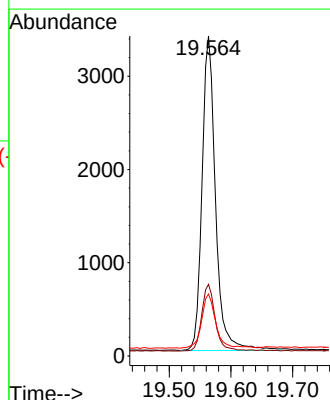
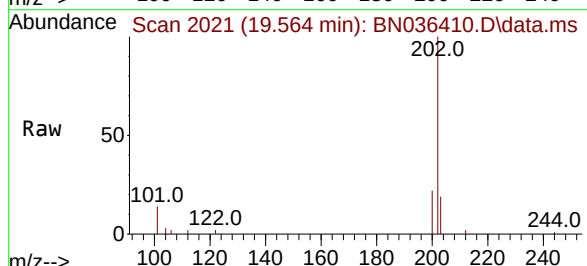
Tgt Ion:202 Resp: 5119

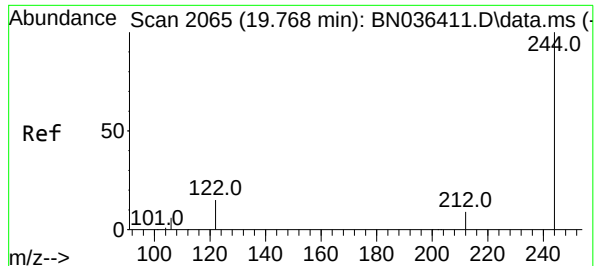
Ion Ratio Lower Upper

202 100

200 21.0 16.9 25.3

203 17.6 13.9 20.9

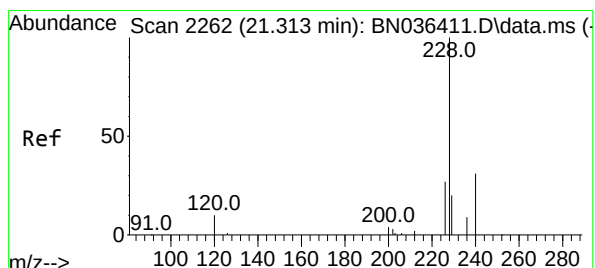
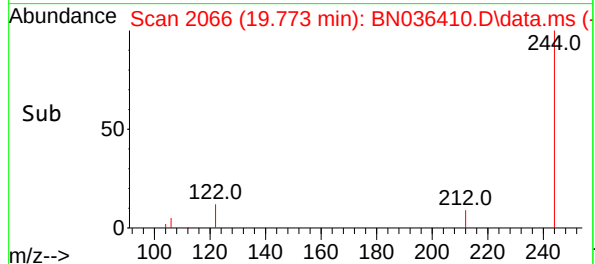
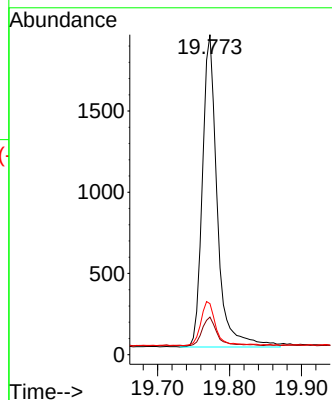
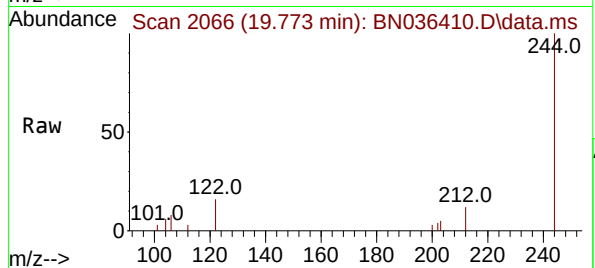




#31
Terphenyl-d14
Concen: 0.204 ng
RT: 19.773 min Scan# 2066
Delta R.T. 0.005 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

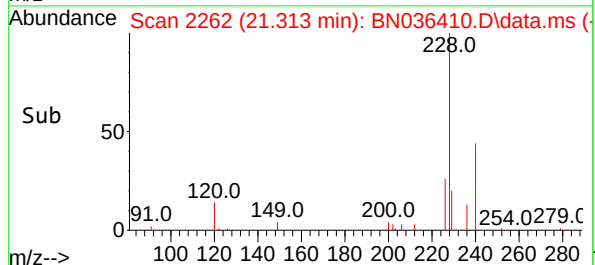
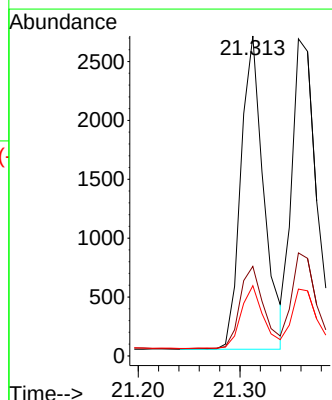
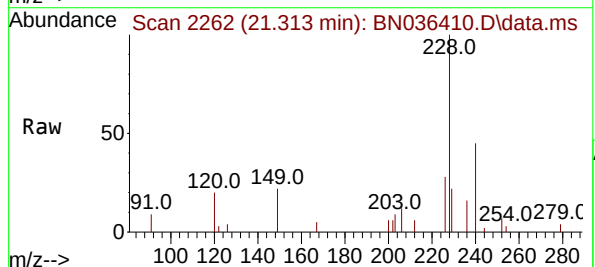
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

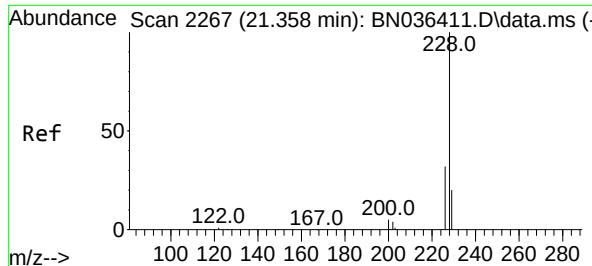
Tgt Ion	Ratio	Lower	Upper
244	100		
212	11.8	8.1	12.1
122	15.9	12.8	19.2



#32
Benzo(a)anthracene
Concen: 0.180 ng
RT: 21.313 min Scan# 2262
Delta R.T. -0.000 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.0	22.2	33.2
229	21.9	16.5	24.7

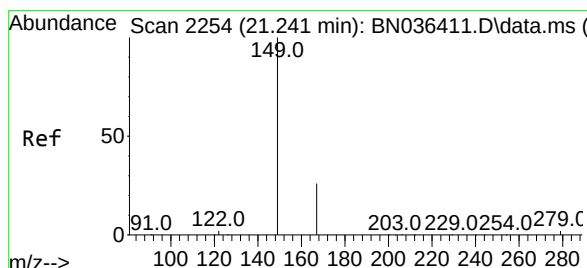
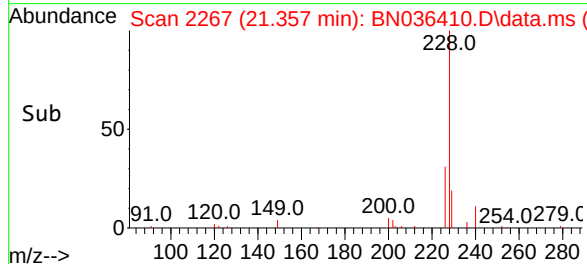
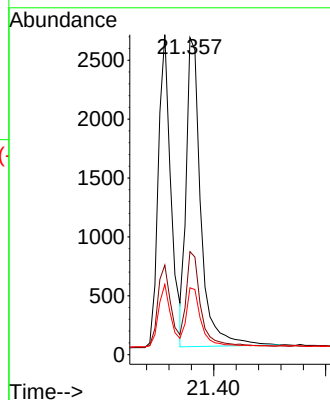
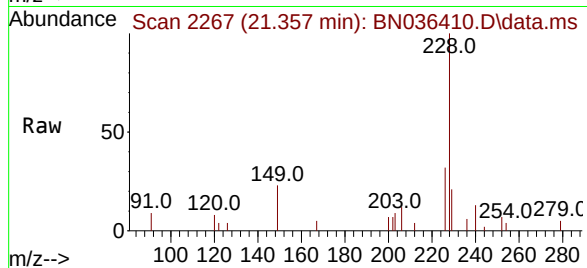




#33
Chrysene
Concen: 0.200 ng
RT: 21.357 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

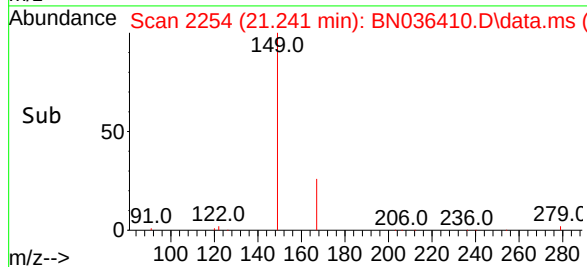
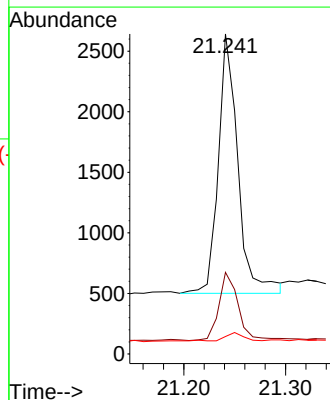
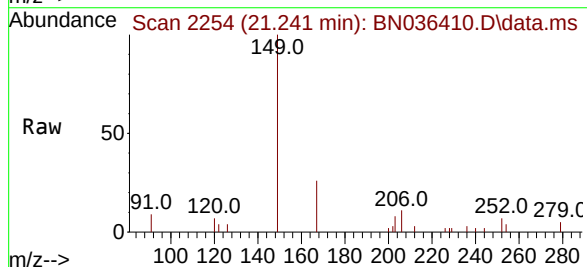
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

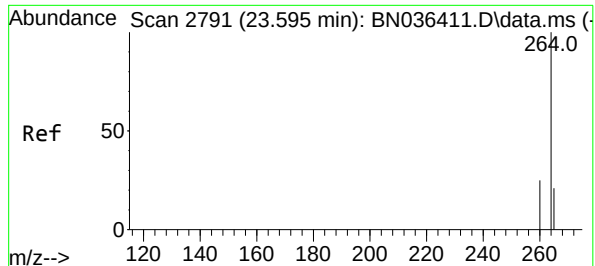
Tgt Ion:	228	Resp:	4754
Ion Ratio	Lower	Upper	
228	100		
226	32.5	25.5	38.3
229	21.1	16.4	24.6



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.221 ng
RT: 21.241 min Scan# 2254
Delta R.T. -0.000 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

Tgt Ion:	149	Resp:	2858
Ion Ratio	Lower	Upper	
149	100		
167	26.6	21.2	31.8
279	2.9	2.7	4.1





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.595 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036410.D

Acq: 10 Feb 2025 13:01

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

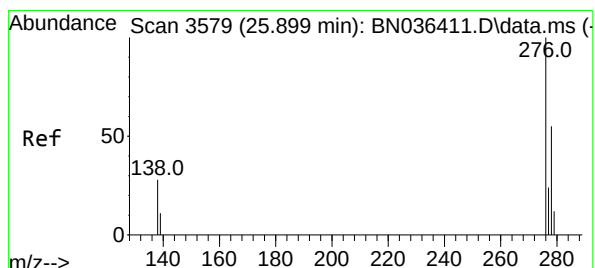
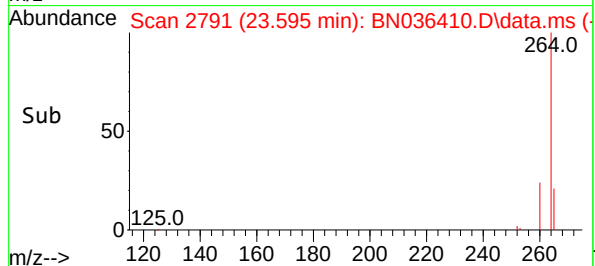
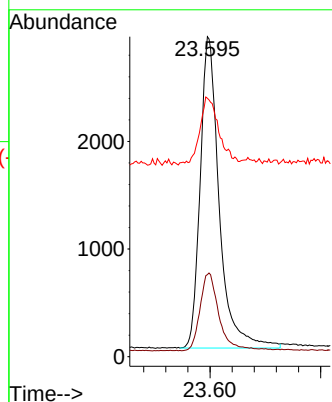
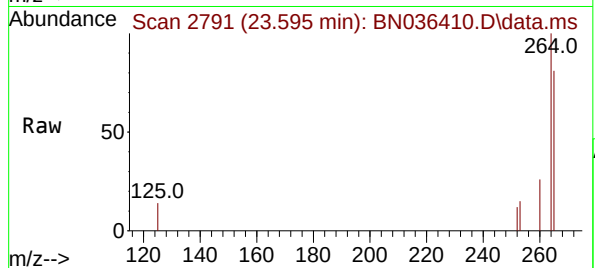
Tgt Ion:264 Resp: 6918

Ion Ratio Lower Upper

264 100

260 25.7 20.9 31.3

265 80.8 60.7 91.1



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.164 ng

RT: 25.905 min Scan# 3581

Delta R.T. 0.006 min

Lab File: BN036410.D

Acq: 10 Feb 2025 13:01

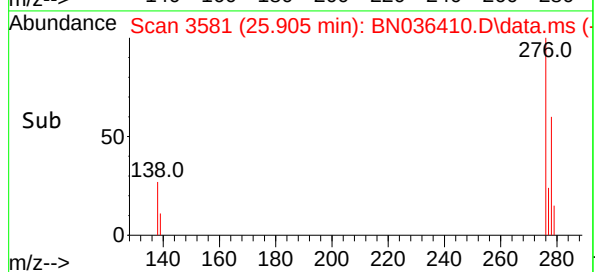
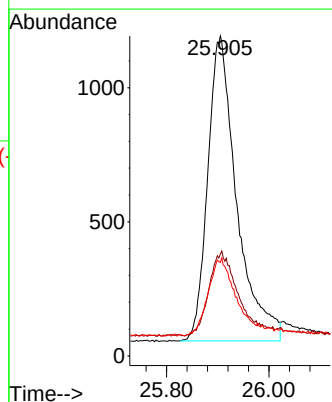
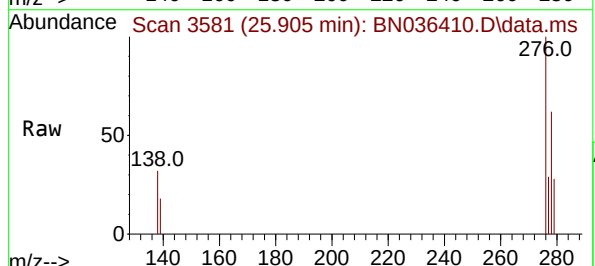
Tgt Ion:276 Resp: 4459

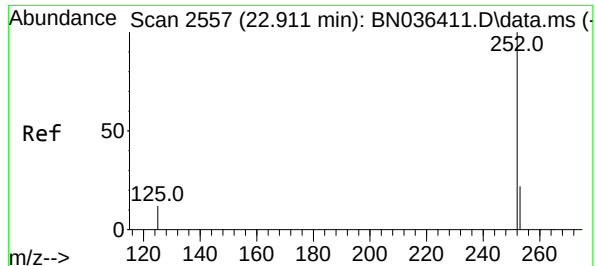
Ion Ratio Lower Upper

276 100

138 28.4 22.2 33.2

277 25.1 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.172 ng

RT: 22.914 min Scan# 2557

Delta R.T. 0.003 min

Lab File: BN036410.D

Acq: 10 Feb 2025 13:01

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

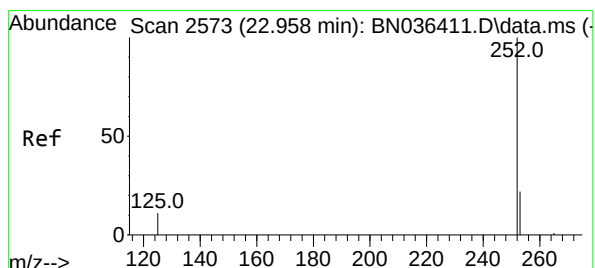
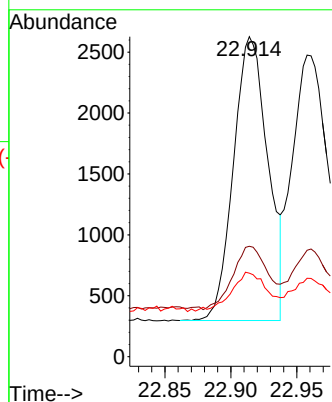
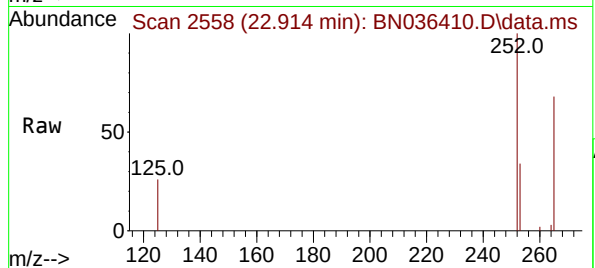
Tgt Ion:252 Resp: 4220

Ion Ratio Lower Upper

252 100

253 34.5 21.9 32.9#

125 26.1 15.0 22.6#



#38

Benzo(k)fluoranthene

Concen: 0.173 ng

RT: 22.958 min Scan# 2573

Delta R.T. -0.000 min

Lab File: BN036410.D

Acq: 10 Feb 2025 13:01

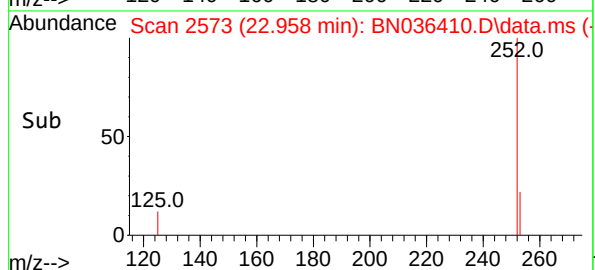
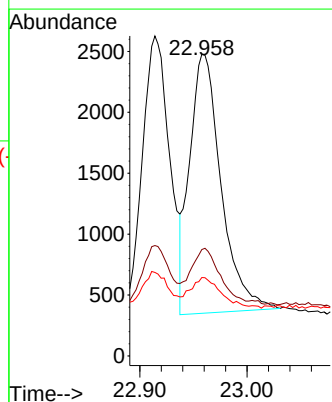
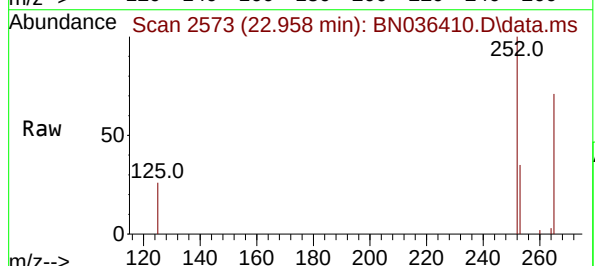
Tgt Ion:252 Resp: 4335

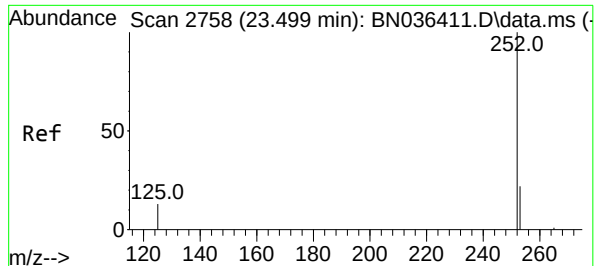
Ion Ratio Lower Upper

252 100

253 35.3 22.2 33.4#

125 26.0 15.0 22.4#





#39

Benzo(a)pyrene

Concen: 0.177 ng

RT: 23.499 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036410.D

Acq: 10 Feb 2025 13:01

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

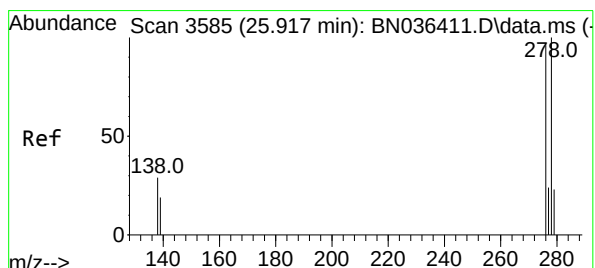
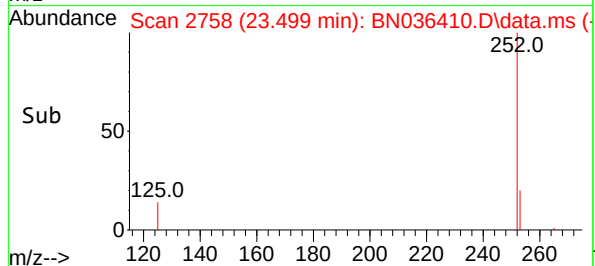
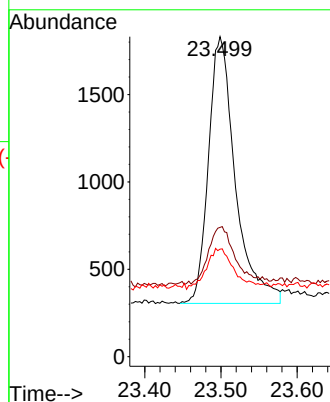
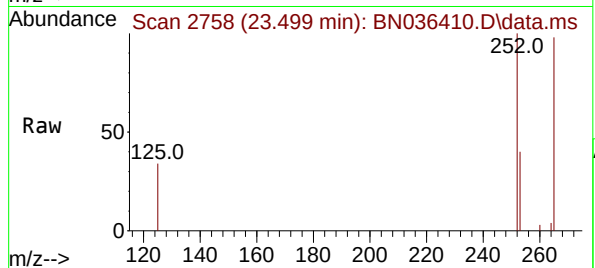
Tgt Ion:252 Resp: 3740

Ion Ratio Lower Upper

252 100

253 40.4 24.4 36.6#

125 33.6 18.2 27.2#



#40

Dibenzo(a,h)anthracene

Concen: 0.164 ng

RT: 25.919 min Scan# 3586

Delta R.T. 0.003 min

Lab File: BN036410.D

Acq: 10 Feb 2025 13:01

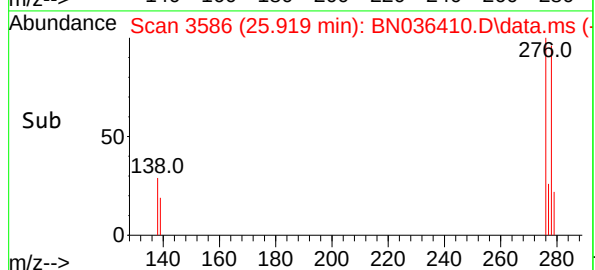
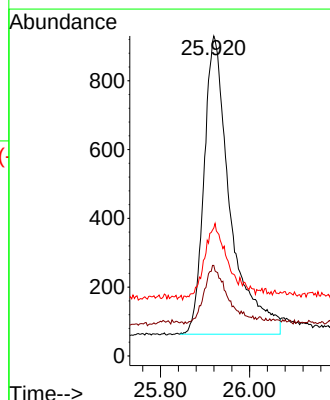
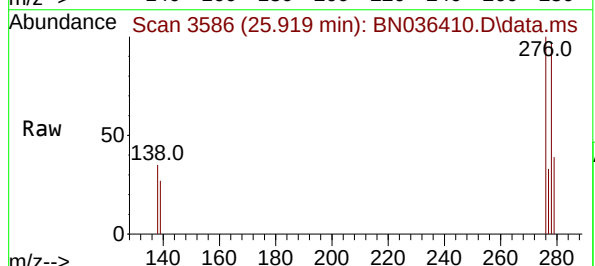
Tgt Ion:278 Resp: 3533

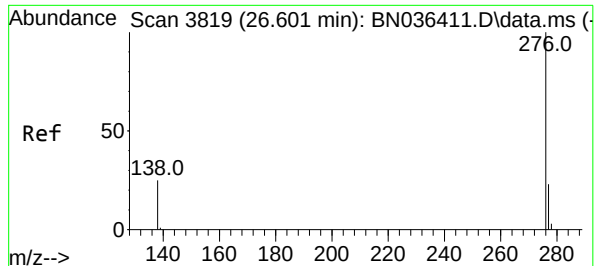
Ion Ratio Lower Upper

278 100

139 28.3 18.5 27.7#

279 40.0 24.8 37.2#





#41

Benzo(g,h,i)perylene

Concen: 0.177 ng

RT: 26.601 min Scan# 3819

Delta R.T. -0.000 min

Lab File: BN036410.D

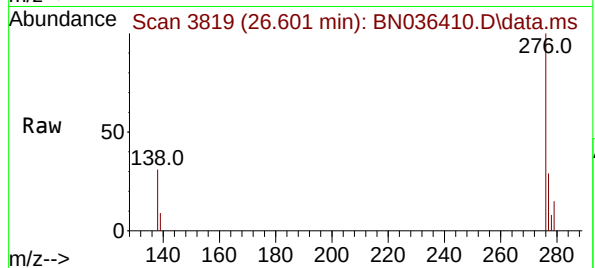
Acq: 10 Feb 2025 13:01

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



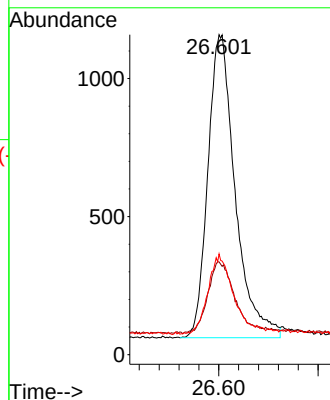
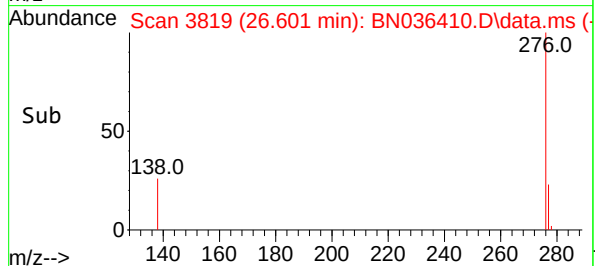
Tgt Ion:276 Resp: 4192

Ion Ratio Lower Upper

276 100

277 29.0 20.7 31.1

138 31.5 21.8 32.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
 Data File : BN036411.D
 Acq On : 10 Feb 2025 13:36
 Operator : RC/JU
 Sample : SSTDICCC0.4
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCC0.4

Quant Time: Feb 11 00:35:50 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 00:33:05 2025
 Response via : Initial Calibration

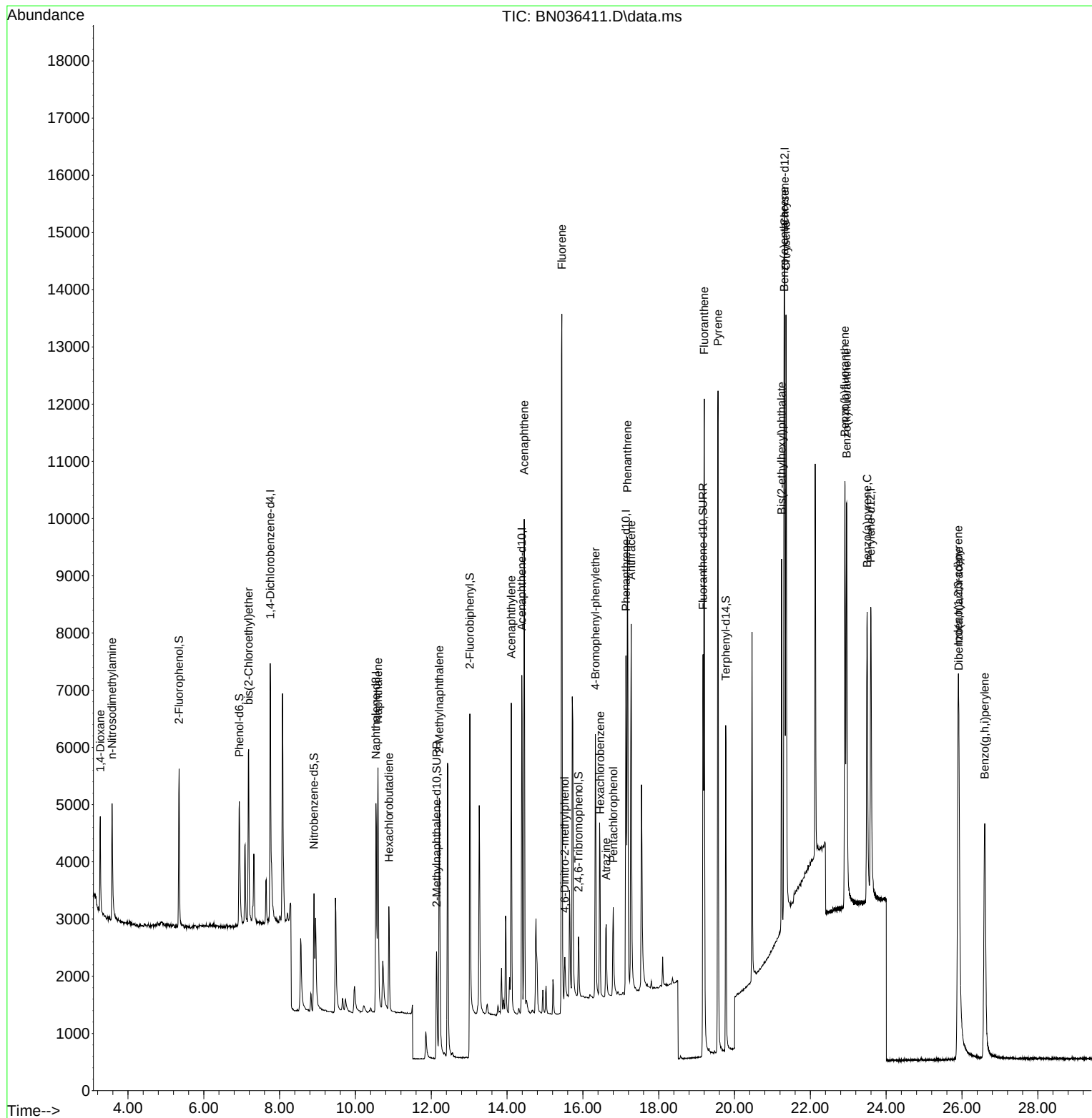
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.753	152	2219	0.400	ng	0.00
7) Naphthalene-d8	10.541	136	5528	0.400	ng	0.00
13) Acenaphthene-d10	14.388	164	3606	0.400	ng	0.00
19) Phenanthrene-d10	17.136	188	8328	0.400	ng	0.00
29) Chrysene-d12	21.322	240	7484	0.400	ng	0.00
35) Perylene-d12	23.595	264	7735	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.348	112	2078	0.368	ng	0.00
5) Phenol-d6	6.937	99	2290	0.348	ng	0.00
8) Nitrobenzene-d5	8.907	82	2015	0.391	ng	0.00
11) 2-Methylnaphthalene-d10	12.141	152	3329	0.440	ng	0.00
14) 2,4,6-Tribromophenol	15.882	330	670	0.302	ng	0.00
15) 2-Fluorobiphenyl	13.019	172	4965	0.323	ng	0.00
27) Fluoranthene-d10	19.169	212	8851	0.413	ng	0.00
31) Terphenyl-d14	19.768	244	6378	0.412	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.268	88	961	0.392	ng	99
3) n-Nitrosodimethylamine	3.579	42	1695	0.385	ng	100
6) bis(2-Chloroethyl)ether	7.183	93	2410	0.440	ng	100
9) Naphthalene	10.594	128	6168	0.391	ng	100
10) Hexachlorobutadiene	10.883	225	1567	0.317	ng	# 100
12) 2-Methylnaphthalene	12.212	142	4078	0.411	ng	100
16) Acenaphthylene	14.110	152	6103	0.366	ng	100
17) Acenaphthene	14.452	154	4132	0.362	ng	100
18) Fluorene	15.446	166	5991	0.407	ng	99
20) 4,6-Dinitro-2-methylph...	15.523	198	572	0.307	ng	100
21) 4-Bromophenyl-phenylether	16.329	248	1920	0.337	ng	100
22) Hexachlorobenzene	16.453	284	2369	0.318	ng	100
23) Atrazine	16.615	200	1560	0.372	ng	100
24) Pentachlorophenol	16.801	266	1018	0.313	ng	99
25) Phenanthrene	17.173	178	9119	0.374	ng	100
26) Anthracene	17.273	178	8056	0.363	ng	100
28) Fluoranthene	19.201	202	11264	0.389	ng	100
30) Pyrene	19.564	202	11479	0.384	ng	100
32) Benzo(a)anthracene	21.313	228	9677	0.364	ng	100
33) Chrysene	21.358	228	10178	0.373	ng	100
34) Bis(2-ethylhexyl)phtha...	21.241	149	5815	0.392	ng	100
36) Indeno(1,2,3-cd)pyrene	25.899	276	10661	0.351	ng	100
37) Benzo(b)fluoranthene	22.911	252	9743	0.355	ng	100
38) Benzo(k)fluoranthene	22.958	252	10543	0.377	ng	100
39) Benzo(a)pyrene	23.499	252	8521	0.362	ng	100
40) Dibenzo(a,h)anthracene	25.917	278	8314	0.344	ng	100
41) Benzo(g,h,i)perylene	26.601	276	9701	0.366	ng	100

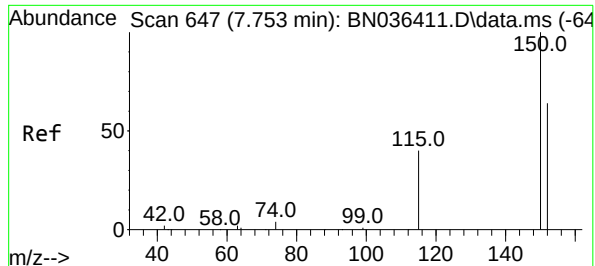
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Acq On : 10 Feb 2025 13:36
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Feb 11 00:35:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 11 00:33:05 2025
Response via : Initial Calibration

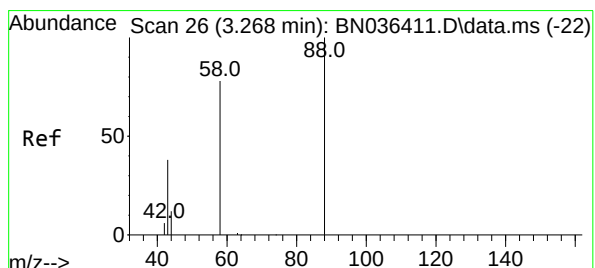
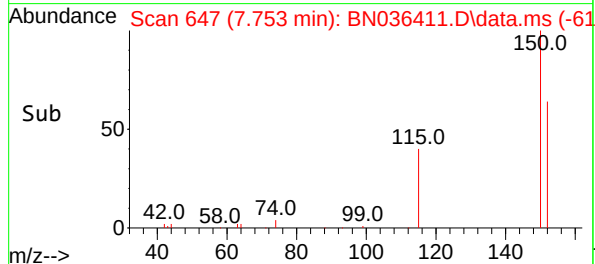
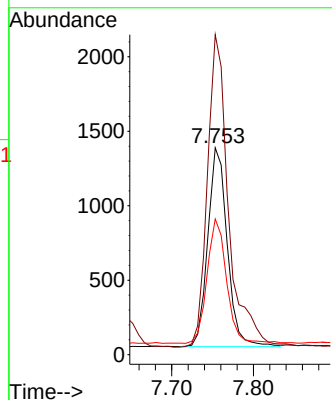
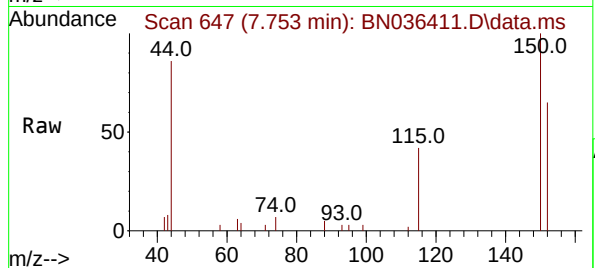




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.753 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036411.D
Acq: 10 Feb 2025 13:36

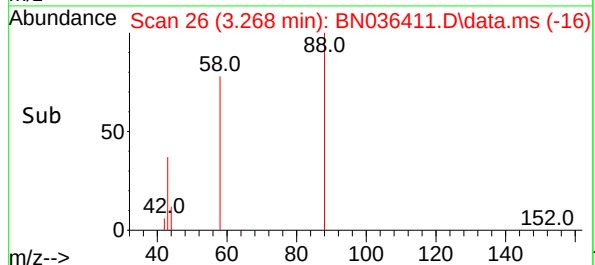
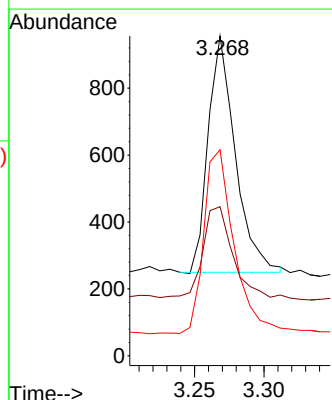
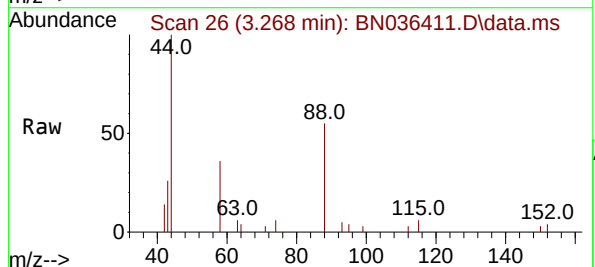
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

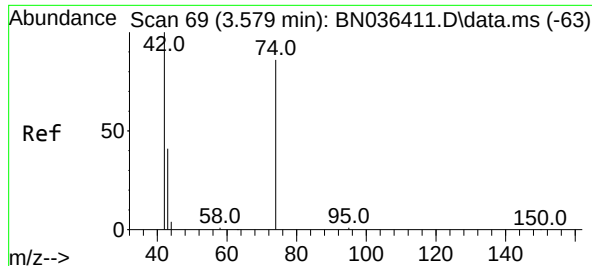
Tgt Ion:152 Resp: 2219
Ion Ratio Lower Upper
152 100
150 154.6 123.7 185.5
115 65.6 52.5 78.7



#2
1,4-Dioxane
Concen: 0.392 ng
RT: 3.268 min Scan# 26
Delta R.T. 0.000 min
Lab File: BN036411.D
Acq: 10 Feb 2025 13:36

Tgt Ion: 88 Resp: 961
Ion Ratio Lower Upper
88 100
43 41.4 33.7 50.5
58 87.1 68.9 103.3

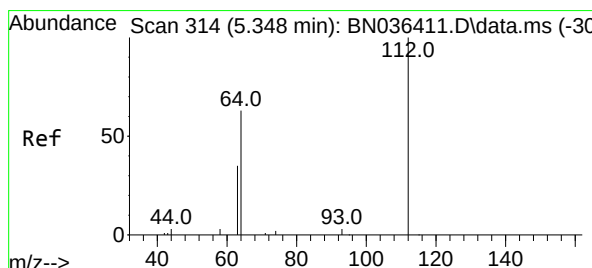
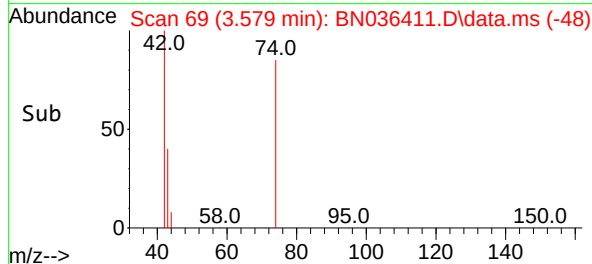
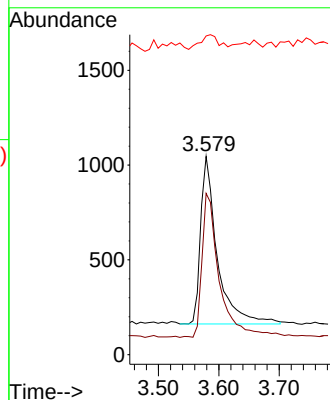
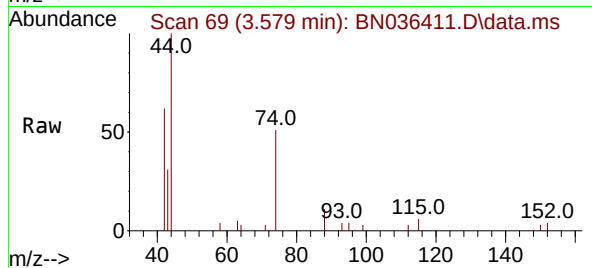




#3
n-Nitrosodimethylamine
Concen: 0.385 ng
RT: 3.579 min Scan# 69
Delta R.T. 0.000 min
Lab File: BN036411.D
Acq: 10 Feb 2025 13:36

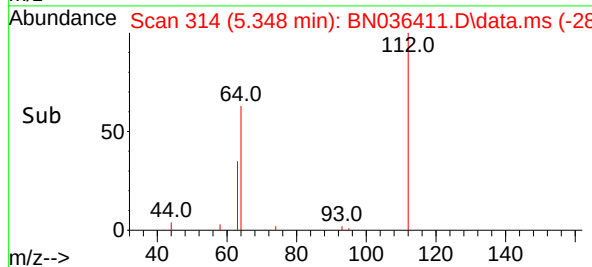
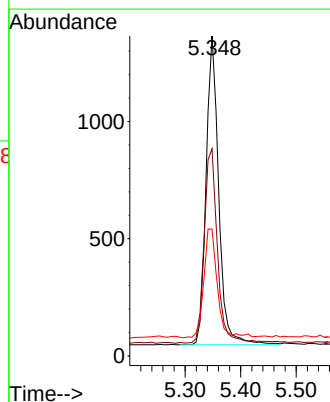
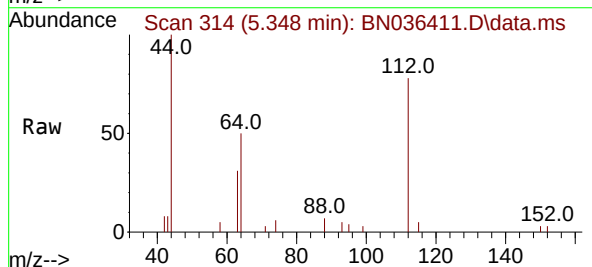
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

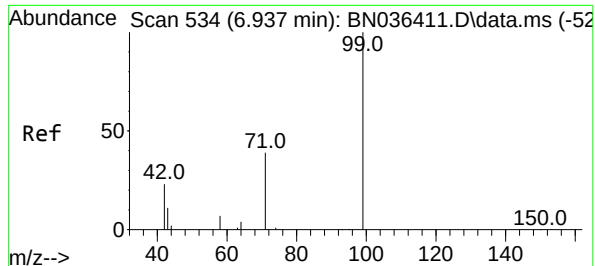
Tgt Ion: 42 Resp: 1695
Ion Ratio Lower Upper
42 100
74 89.7 71.8 107.6
44 9.7 7.8 11.6



#4
2-Fluorophenol
Concen: 0.368 ng
RT: 5.348 min Scan# 314
Delta R.T. 0.000 min
Lab File: BN036411.D
Acq: 10 Feb 2025 13:36

Tgt Ion: 112 Resp: 2078
Ion Ratio Lower Upper
112 100
64 66.7 53.4 80.0
63 37.9 30.3 45.5

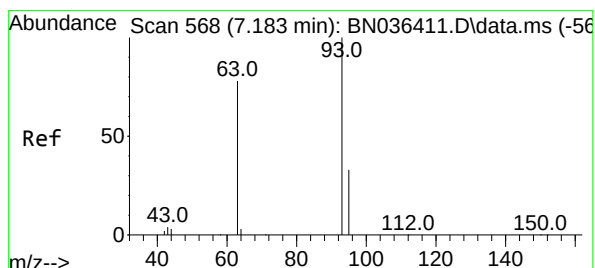
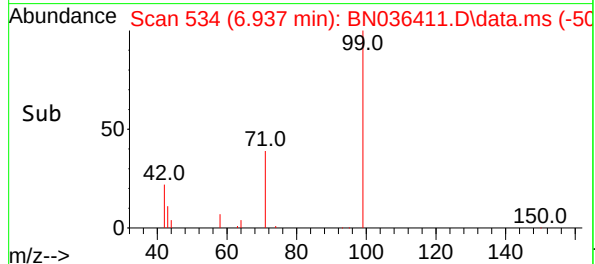
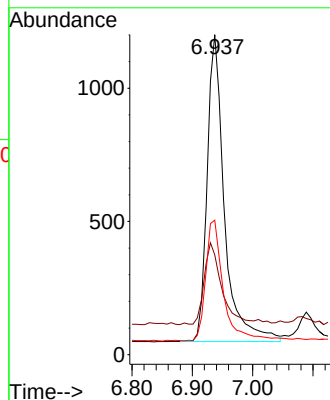
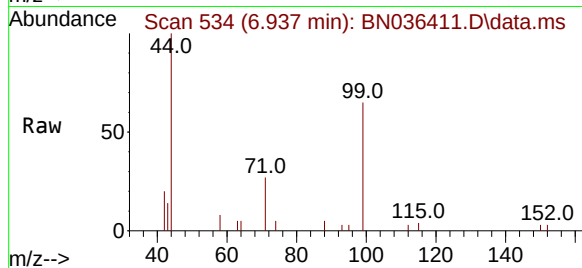




#5
Phenol-d6
Concen: 0.348 ng
RT: 6.937 min Scan# 511
Delta R.T. 0.000 min
Lab File: BN036411.D
Acq: 10 Feb 2025 13:36

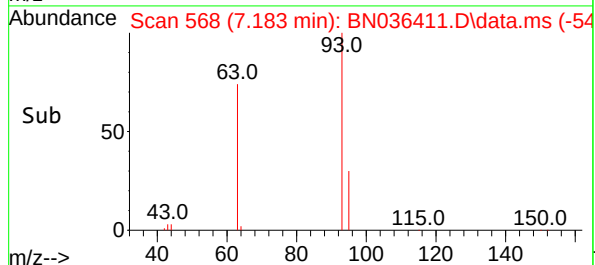
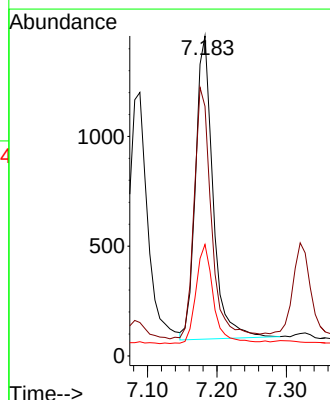
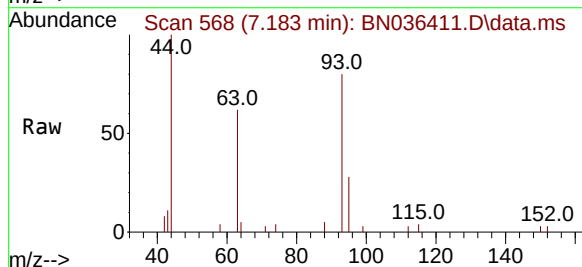
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

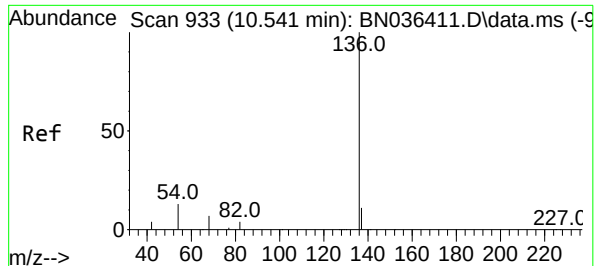
Tgt Ion	Ratio	Lower	Upper
99	100		
42	27.1	21.7	32.5
71	40.8	32.6	49.0



#6
bis(2-Chloroethyl)ether
Concen: 0.440 ng
RT: 7.183 min Scan# 568
Delta R.T. 0.000 min
Lab File: BN036411.D
Acq: 10 Feb 2025 13:36

Tgt Ion	Ratio	Lower	Upper
93	100		
63	82.9	66.3	99.5
95	32.8	26.2	39.4

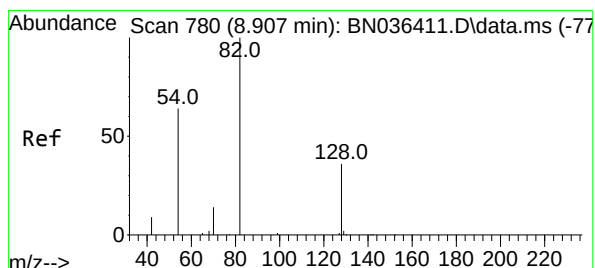
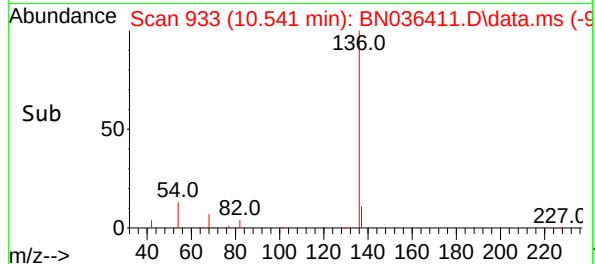
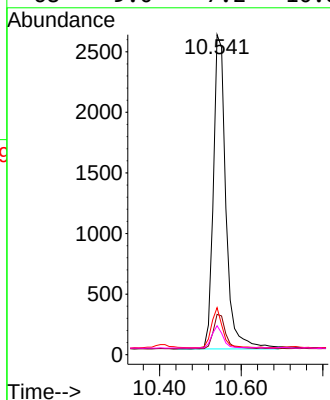
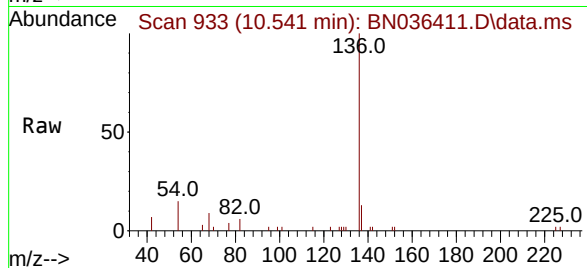




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.541 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN036411.D
Acq: 10 Feb 2025 13:36

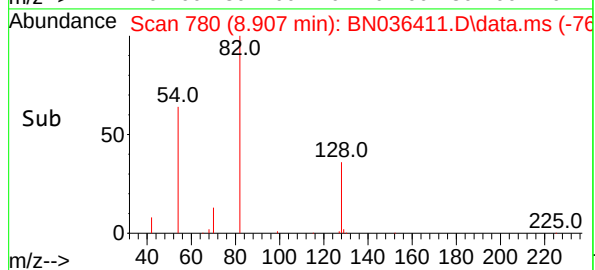
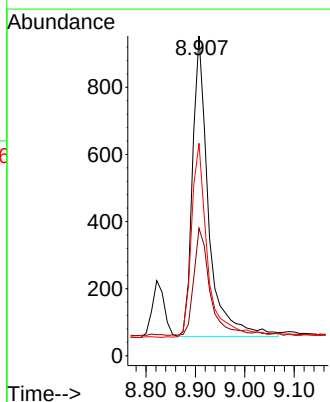
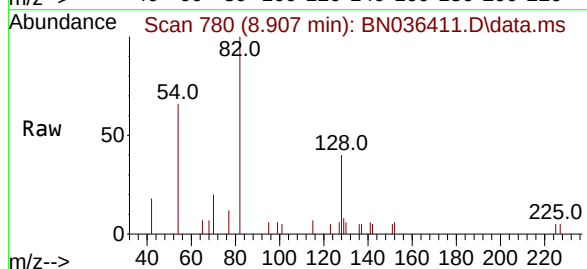
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

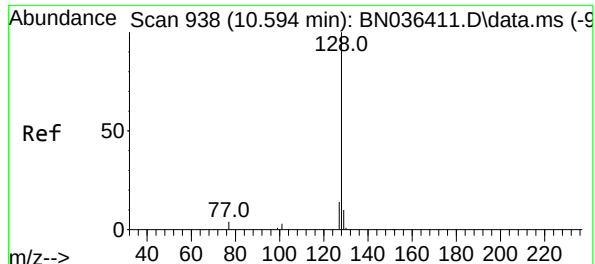
Tgt Ion:	136	Resp:	5528
Ion	Ratio	Lower	Upper
136	100		
137	12.6	10.1	15.1
54	14.7	11.8	17.6
68	9.0	7.2	10.8



#8
Nitrobenzene-d5
Concen: 0.391 ng
RT: 8.907 min Scan# 780
Delta R.T. 0.000 min
Lab File: BN036411.D
Acq: 10 Feb 2025 13:36

Tgt Ion:	82	Resp:	2015
Ion	Ratio	Lower	Upper
82	100		
128	39.9	31.9	47.9
54	66.4	53.1	79.7

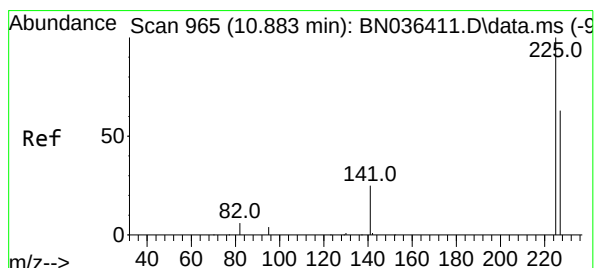
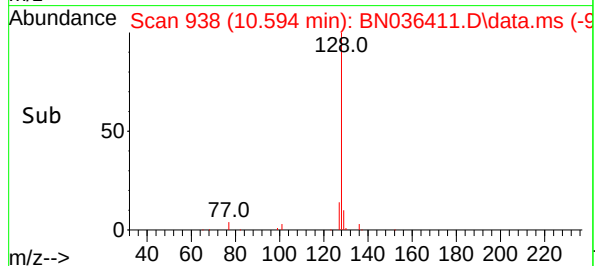
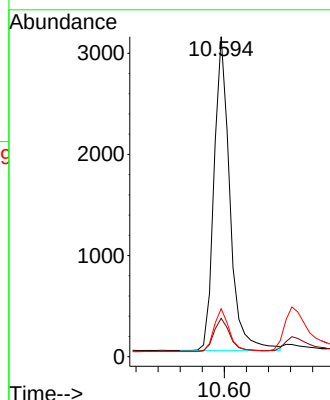
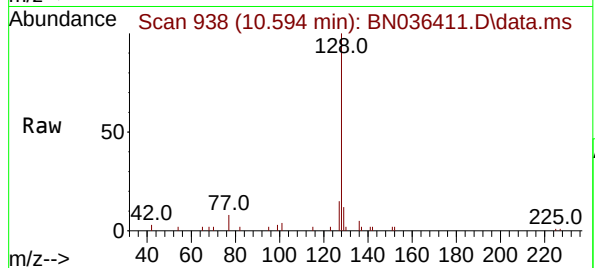




#9
Naphthalene
Concen: 0.391 ng
RT: 10.594 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN036411.D
Acq: 10 Feb 2025 13:36

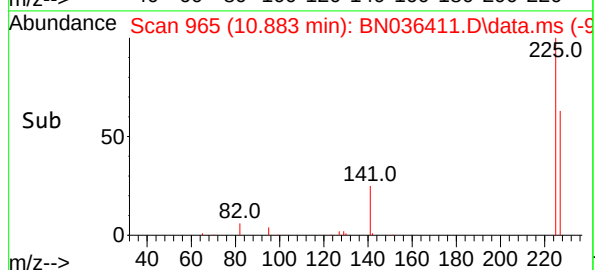
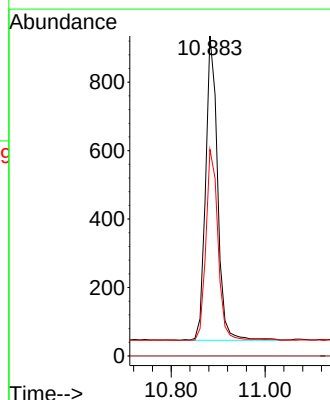
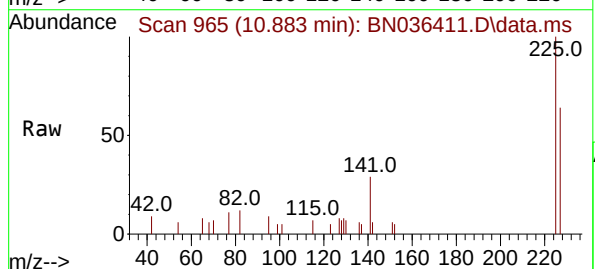
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

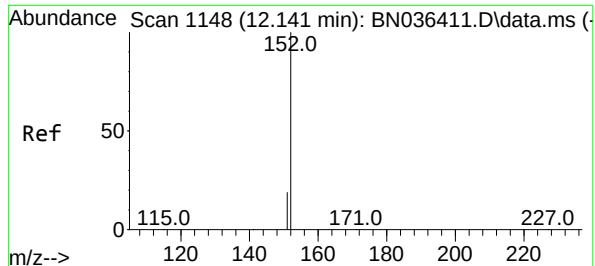
Tgt Ion:128 Resp: 6168
Ion Ratio Lower Upper
128 100
129 12.0 9.6 14.4
127 15.0 12.0 18.0



#10
Hexachlorobutadiene
Concen: 0.317 ng
RT: 10.883 min Scan# 965
Delta R.T. 0.000 min
Lab File: BN036411.D
Acq: 10 Feb 2025 13:36

Tgt Ion:225 Resp: 1567
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.6 50.9 76.3

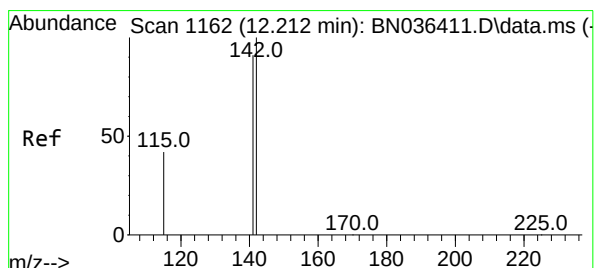
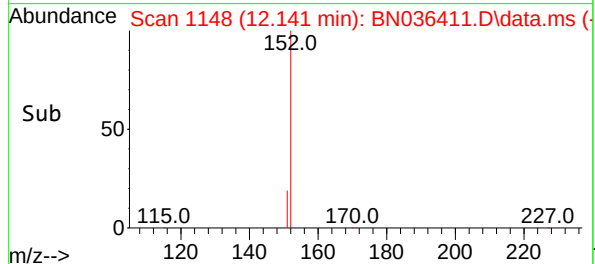
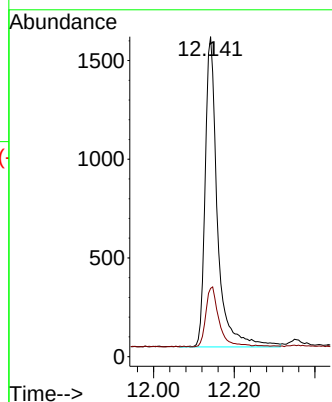
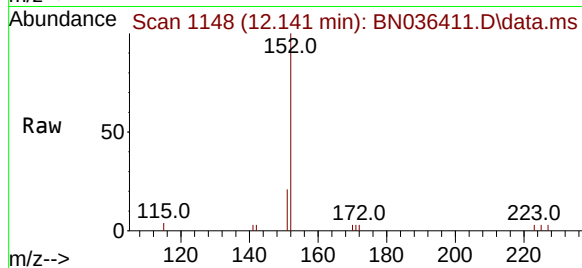




#11
2-Methylnaphthalene-d10
Concen: 0.440 ng
RT: 12.141 min Scan# 1148
Delta R.T. 0.000 min
Lab File: BN036411.D
Acq: 10 Feb 2025 13:36

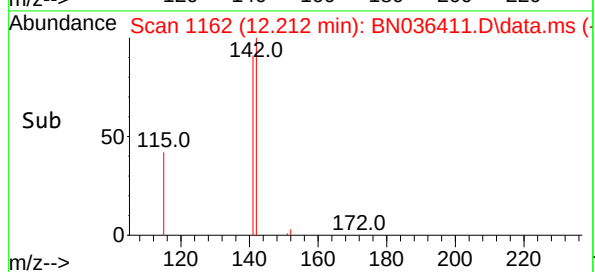
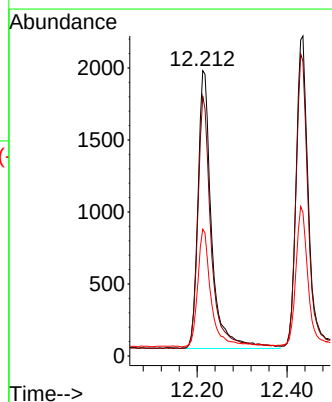
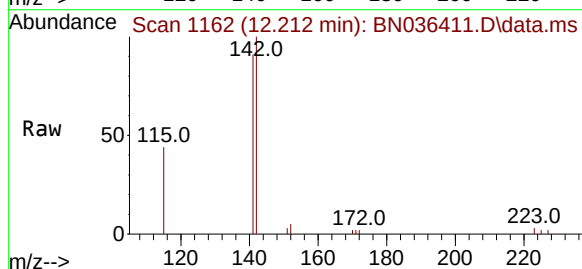
Instrument :
BNA_N
ClientSampleId :
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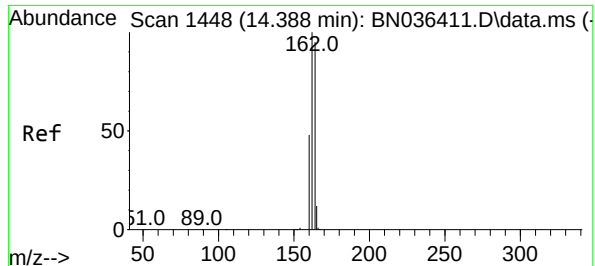
Tgt Ion:152 Resp: 3329
Ion Ratio Lower Upper
152 100
151 20.8 16.6 25.0



#12
2-Methylnaphthalene
Concen: 0.411 ng
RT: 12.212 min Scan# 1162
Delta R.T. 0.000 min
Lab File: BN036411.D
Acq: 10 Feb 2025 13:36

Tgt Ion:142 Resp: 4078
Ion Ratio Lower Upper
142 100
141 91.0 72.8 109.2
115 44.4 35.5 53.3

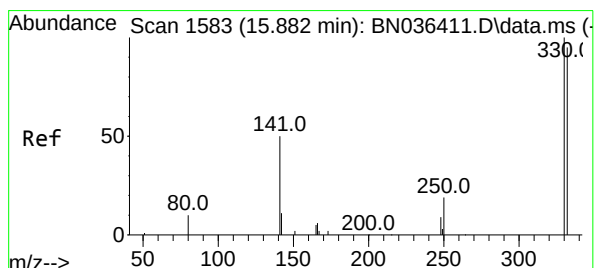
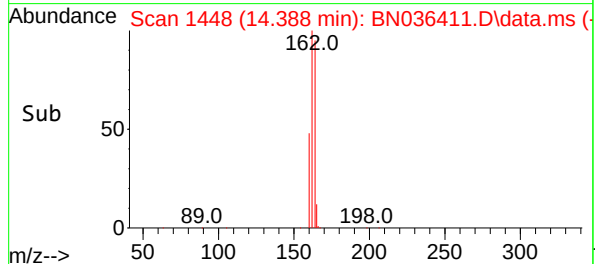
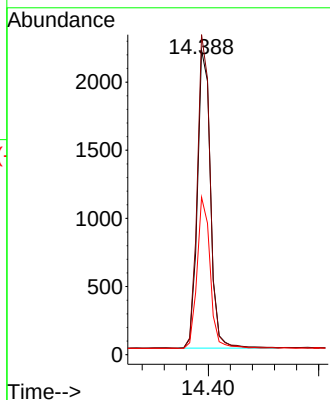
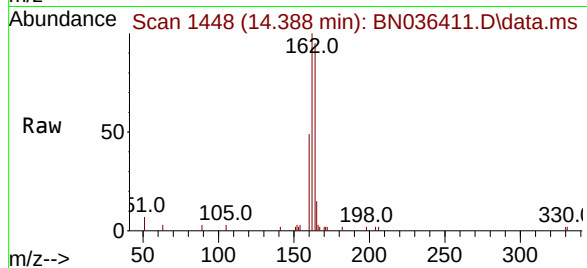




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.388 min Scan# 1448
Delta R.T. 0.000 min
Lab File: BN036411.D
Acq: 10 Feb 2025 13:36

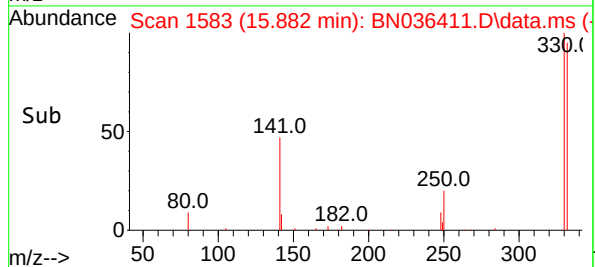
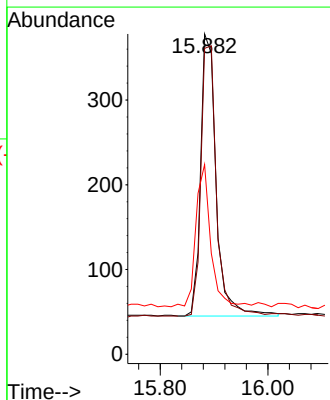
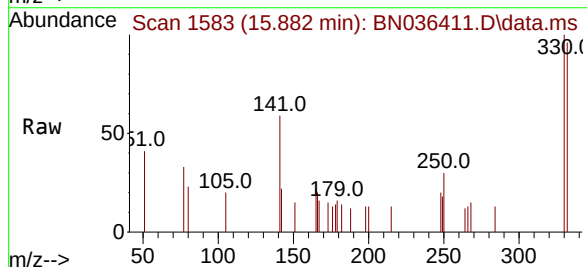
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

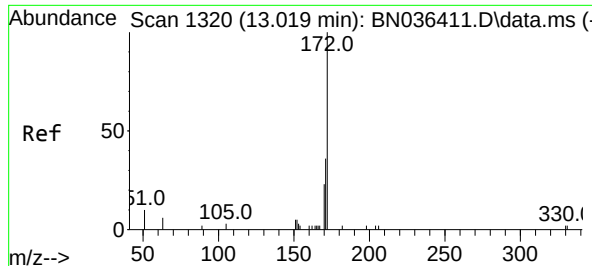
Tgt Ion:164 Resp: 3606
Ion Ratio Lower Upper
164 100
162 105.1 84.1 126.1
160 51.7 41.4 62.0



#14
2,4,6-Tribromophenol
Concen: 0.302 ng
RT: 15.882 min Scan# 1583
Delta R.T. 0.000 min
Lab File: BN036411.D
Acq: 10 Feb 2025 13:36

Tgt Ion:330 Resp: 670
Ion Ratio Lower Upper
330 100
332 95.7 76.6 114.8
141 47.3 37.8 56.8





#15

2-Fluorobiphenyl

Concen: 0.323 ng

RT: 13.019 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN036411.D

Acq: 10 Feb 2025 13:36

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

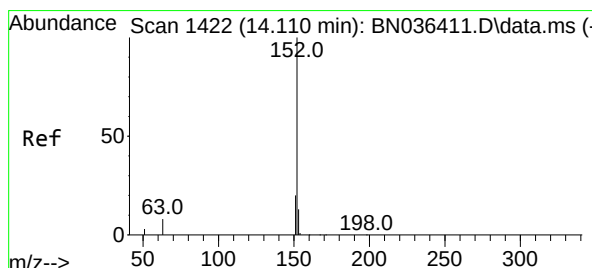
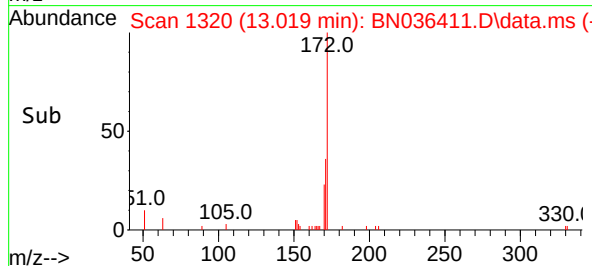
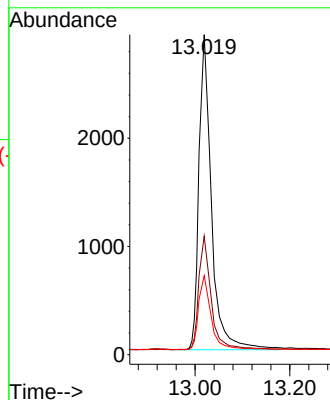
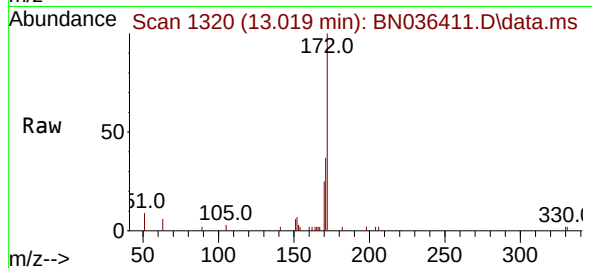
Tgt Ion:172 Resp: 4965

Ion Ratio Lower Upper

172 100

171 37.0 29.6 44.4

170 24.7 19.8 29.6



#16

Acenaphthylene

Concen: 0.366 ng

RT: 14.110 min Scan# 1422

Delta R.T. 0.000 min

Lab File: BN036411.D

Acq: 10 Feb 2025 13:36

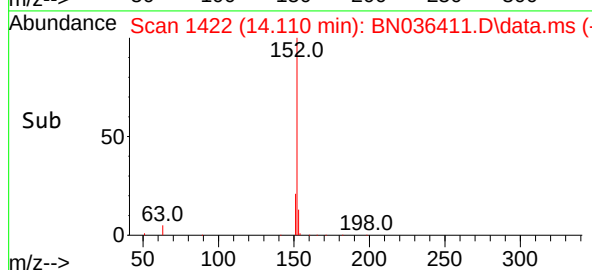
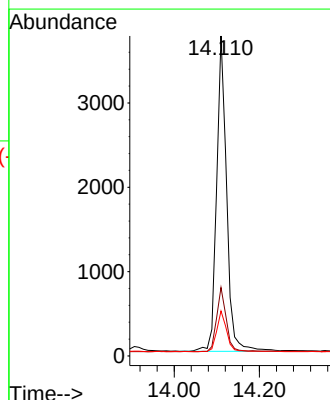
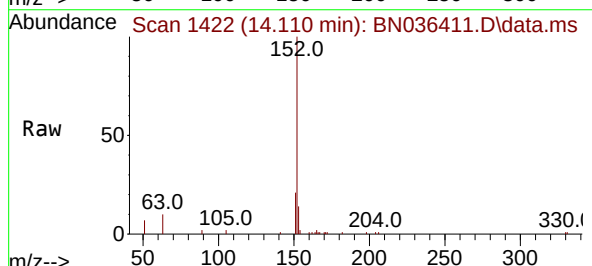
Tgt Ion:152 Resp: 6103

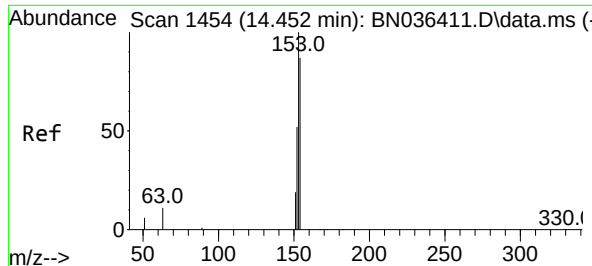
Ion Ratio Lower Upper

152 100

151 19.8 15.8 23.8

153 12.7 10.2 15.2





#17

Acenaphthene

Concen: 0.362 ng

RT: 14.452 min Scan# 1454

Delta R.T. 0.000 min

Lab File: BN036411.D

Acq: 10 Feb 2025 13:36

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

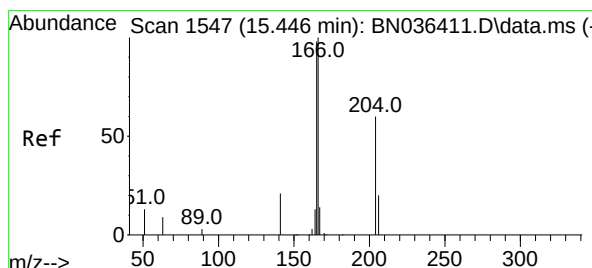
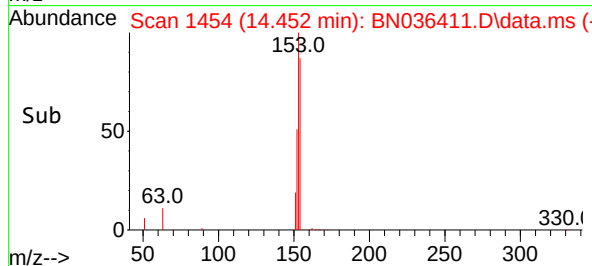
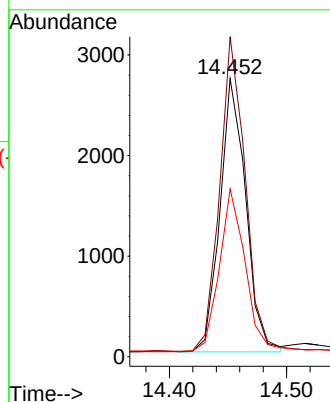
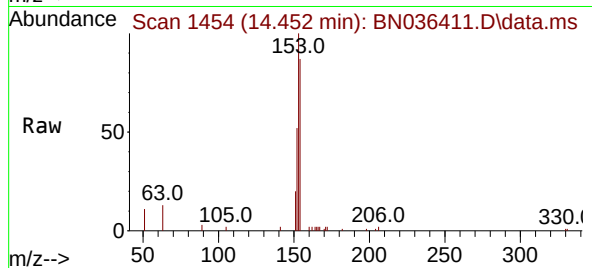
Tgt Ion:154 Resp: 4132

Ion Ratio Lower Upper

154 100

153 116.6 93.3 139.9

152 61.0 48.8 73.2



#18

Fluorene

Concen: 0.407 ng

RT: 15.446 min Scan# 1547

Delta R.T. 0.000 min

Lab File: BN036411.D

Acq: 10 Feb 2025 13:36

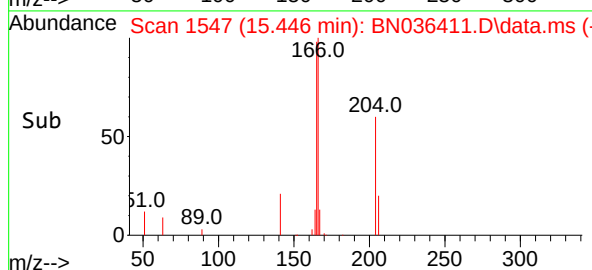
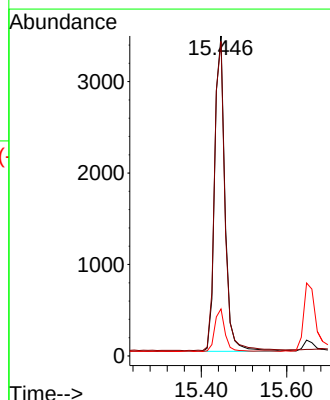
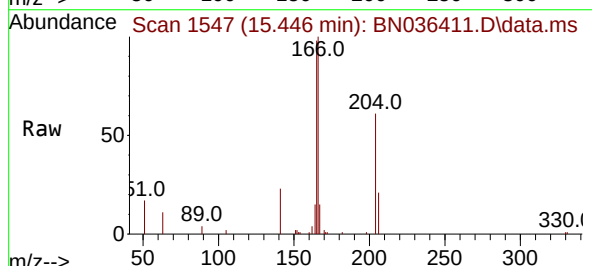
Tgt Ion:166 Resp: 5991

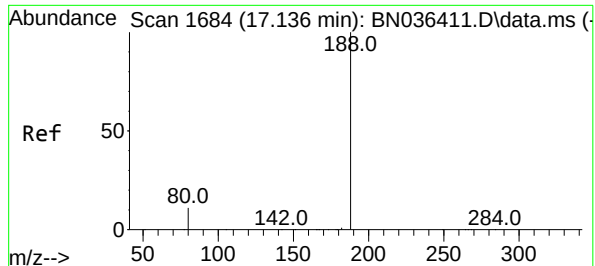
Ion Ratio Lower Upper

166 100

165 100.0 79.5 119.3

167 13.0 10.4 15.6





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.136 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036411.D

Acq: 10 Feb 2025 13:36

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

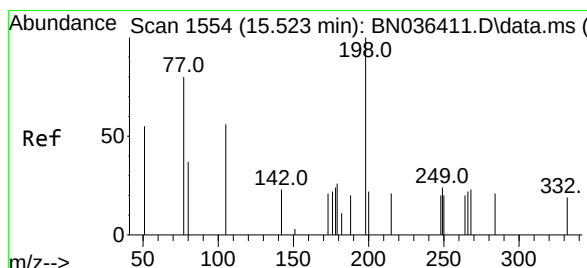
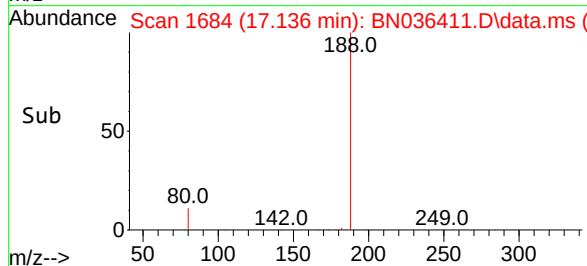
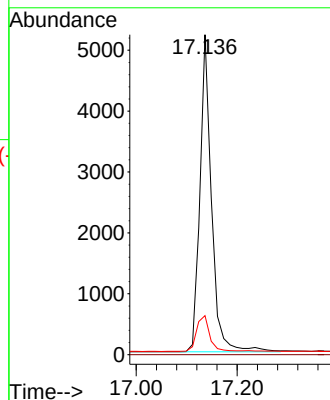
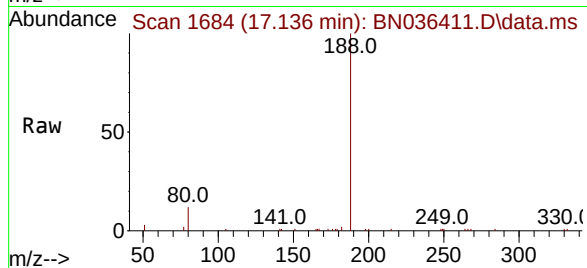
Tgt Ion:188 Resp: 8328

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 12.2 9.8 14.6



#20

4,6-Dinitro-2-methylphenol

Concen: 0.307 ng

RT: 15.523 min Scan# 1554

Delta R.T. 0.000 min

Lab File: BN036411.D

Acq: 10 Feb 2025 13:36

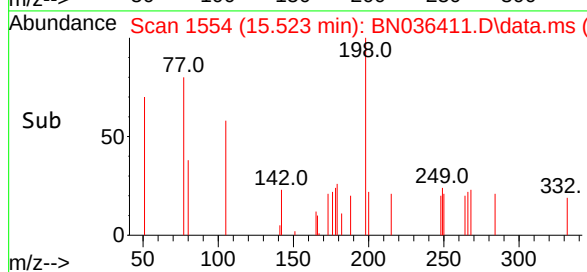
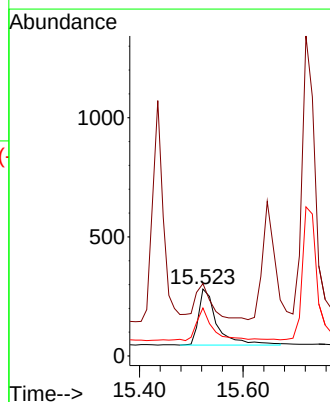
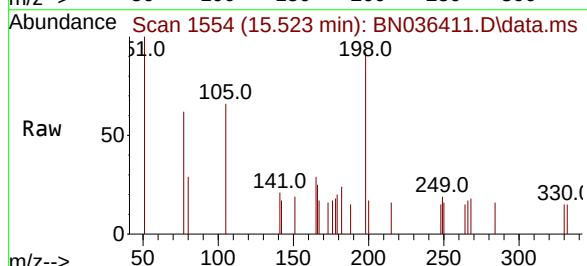
Tgt Ion:198 Resp: 572

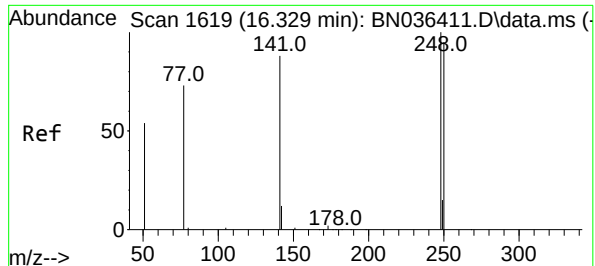
Ion Ratio Lower Upper

198 100

51 108.2 86.6 129.8

105 71.9 57.5 86.3

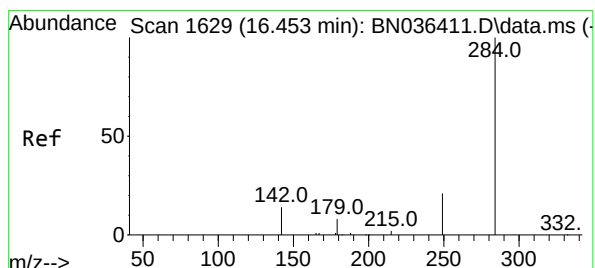
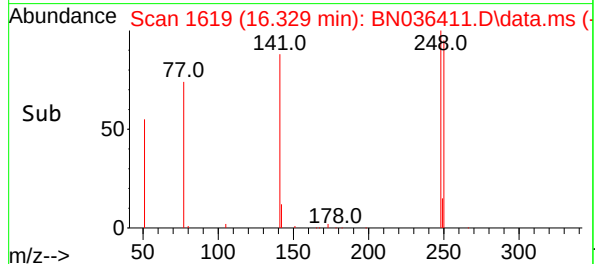
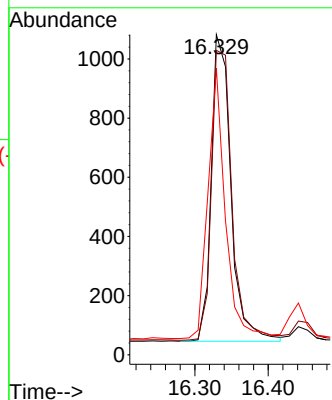
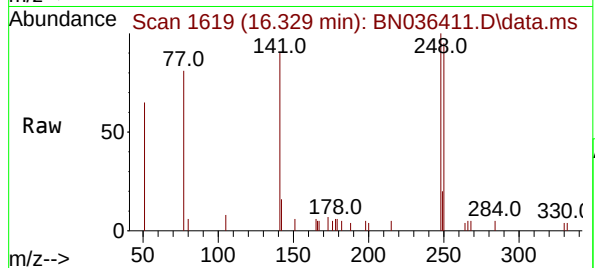




#21
4-Bromophenyl-phenylether
Concen: 0.337 ng
RT: 16.329 min Scan# 1619
Delta R.T. 0.000 min
Lab File: BN036411.D
Acq: 10 Feb 2025 13:36

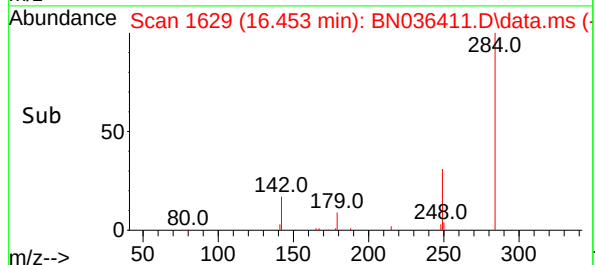
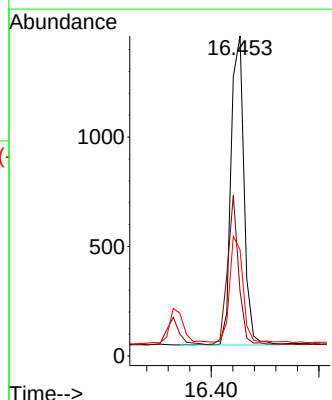
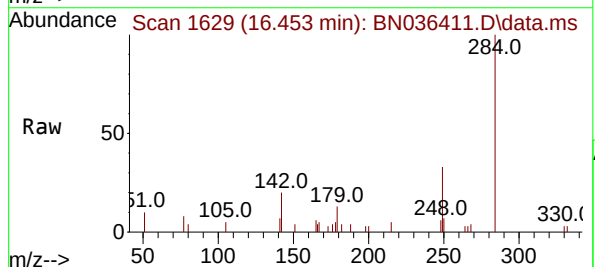
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

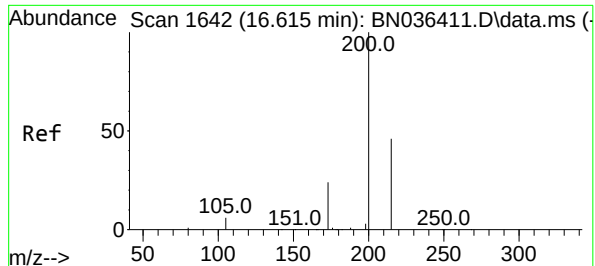
Tgt Ion:248 Resp: 1920
Ion Ratio Lower Upper
248 100
250 95.1 76.1 114.1
141 89.6 71.7 107.5



#22
Hexachlorobenzene
Concen: 0.318 ng
RT: 16.453 min Scan# 1629
Delta R.T. 0.000 min
Lab File: BN036411.D
Acq: 10 Feb 2025 13:36

Tgt Ion:284 Resp: 2369
Ion Ratio Lower Upper
284 100
142 41.7 33.4 50.0
249 35.4 28.6 43.0

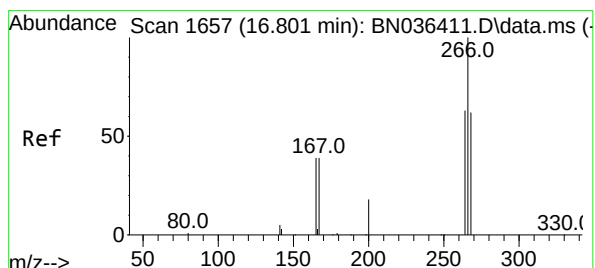
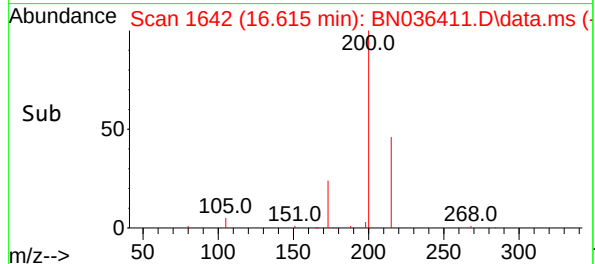
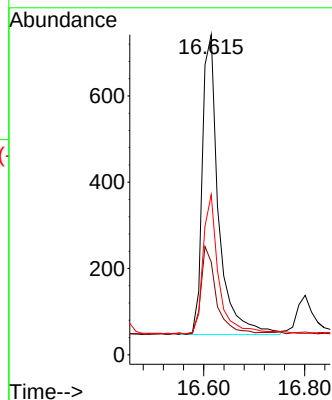
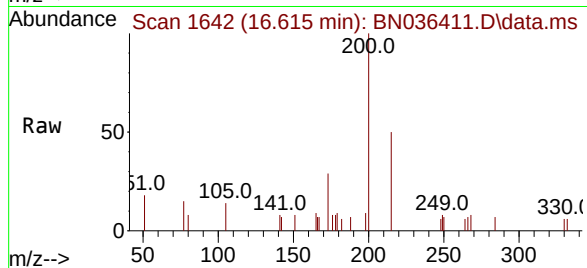




#23
Atrazine
Concen: 0.372 ng
RT: 16.615 min Scan# 1642
Delta R.T. 0.000 min
Lab File: BN036411.D
Acq: 10 Feb 2025 13:36

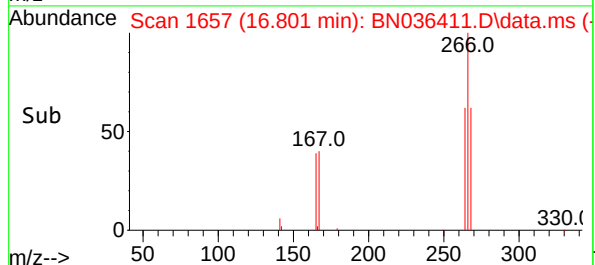
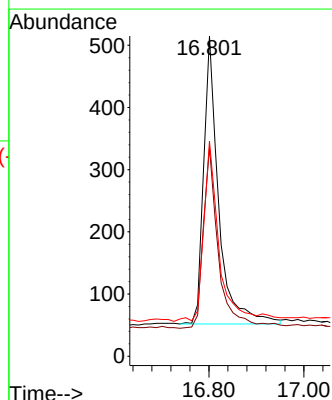
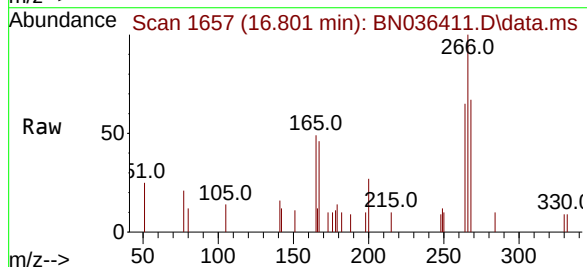
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

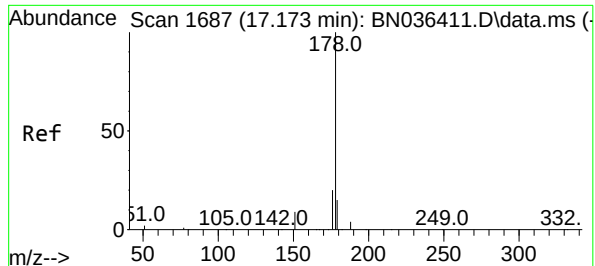
Tgt Ion	Ratio	Lower	Upper
200	100		
173	29.0	23.2	34.8
215	50.0	40.0	60.0



#24
Pentachlorophenol
Concen: 0.313 ng
RT: 16.801 min Scan# 1657
Delta R.T. 0.000 min
Lab File: BN036411.D
Acq: 10 Feb 2025 13:36

Tgt Ion	Ratio	Lower	Upper
266	100		
264	64.0	50.6	76.0
268	65.1	51.9	77.9

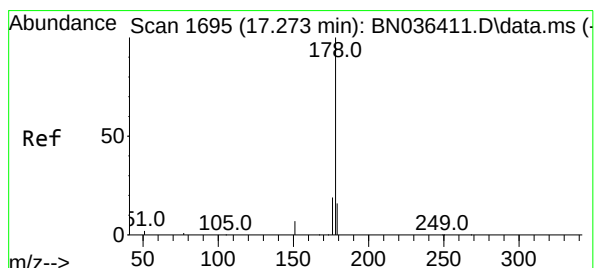
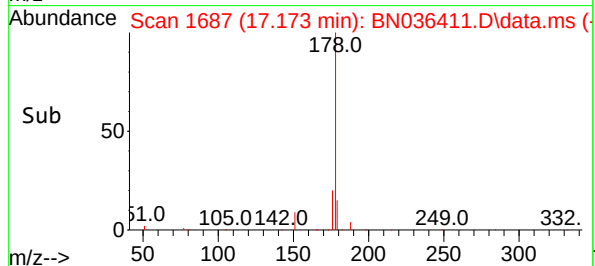
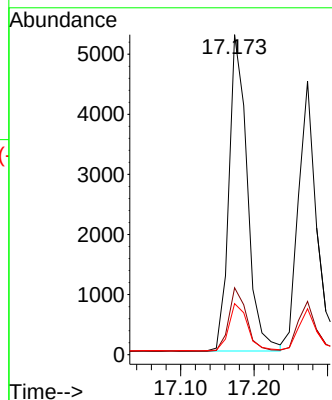
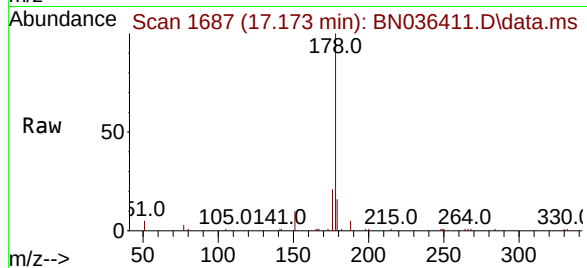




#25
Phenanthrene
Concen: 0.374 ng
RT: 17.173 min Scan# 1687
Delta R.T. 0.000 min
Lab File: BN036411.D
Acq: 10 Feb 2025 13:36

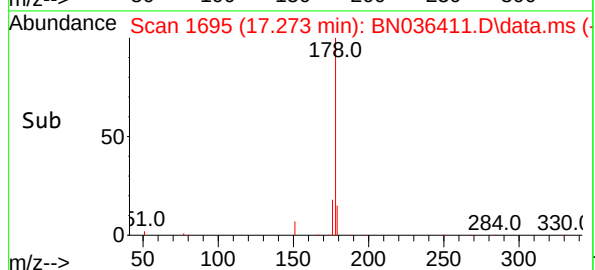
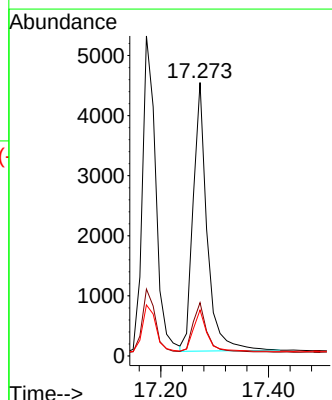
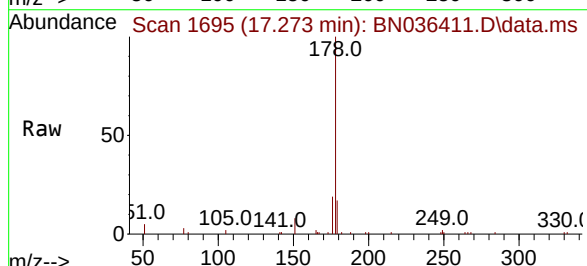
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

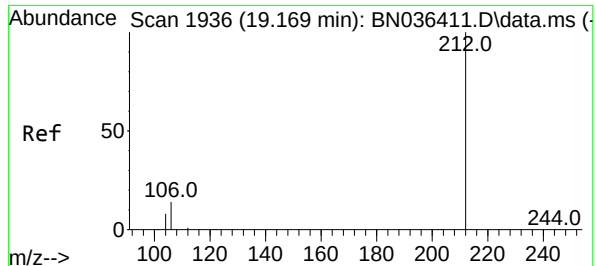
Tgt Ion:178 Resp: 9119
Ion Ratio Lower Upper
178 100
176 19.6 15.7 23.5
179 15.5 12.4 18.6



#26
Anthracene
Concen: 0.363 ng
RT: 17.273 min Scan# 1695
Delta R.T. 0.000 min
Lab File: BN036411.D
Acq: 10 Feb 2025 13:36

Tgt Ion:178 Resp: 8056
Ion Ratio Lower Upper
178 100
176 18.7 14.9 22.3
179 15.3 12.4 18.6





#27

Fluoranthene-d10

Concen: 0.413 ng

RT: 19.169 min Scan# 1936

Delta R.T. 0.000 min

Lab File: BN036411.D

Acq: 10 Feb 2025 13:36

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

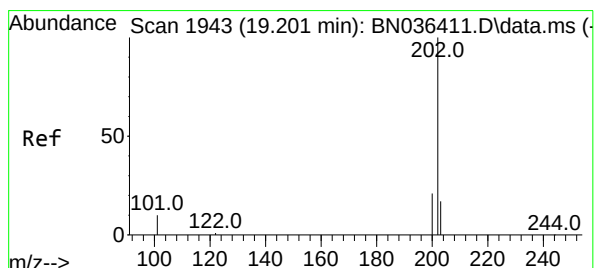
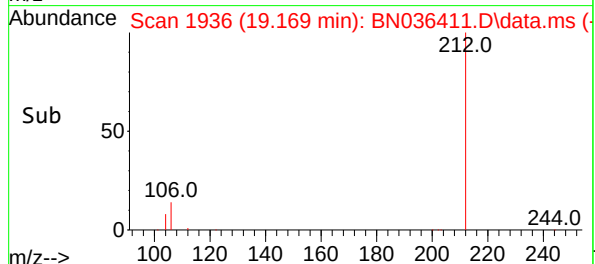
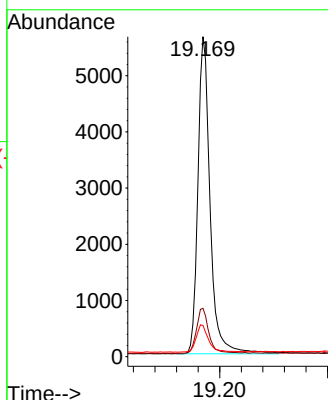
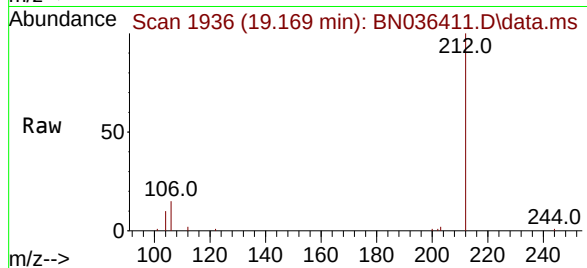
Tgt Ion:212 Resp: 8851

Ion Ratio Lower Upper

212 100

106 14.4 11.5 17.3

104 8.9 7.1 10.7



#28

Fluoranthene

Concen: 0.389 ng

RT: 19.201 min Scan# 1943

Delta R.T. 0.000 min

Lab File: BN036411.D

Acq: 10 Feb 2025 13:36

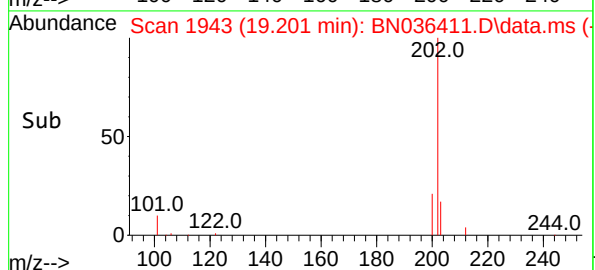
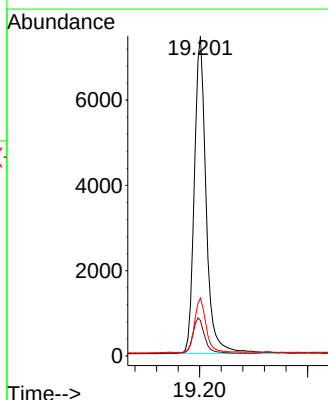
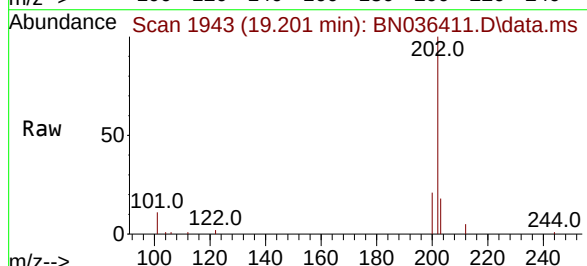
Tgt Ion:202 Resp: 11264

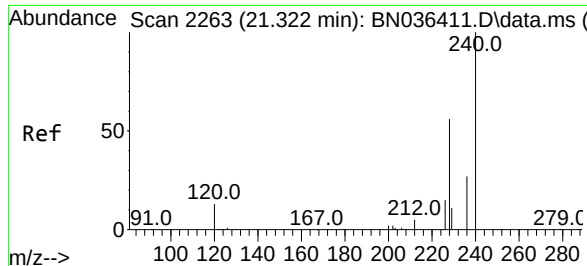
Ion Ratio Lower Upper

202 100

101 11.5 9.2 13.8

203 16.7 13.4 20.0





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.322 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036411.D

Acq: 10 Feb 2025 13:36

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

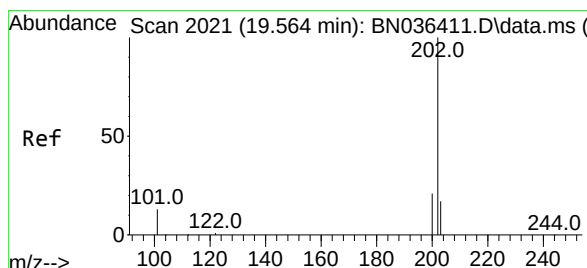
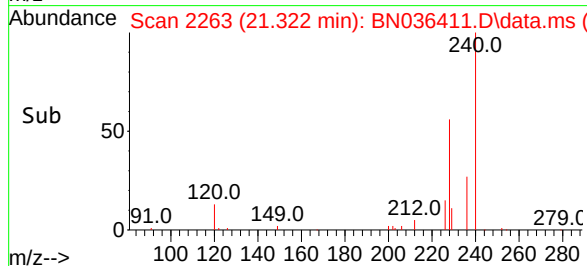
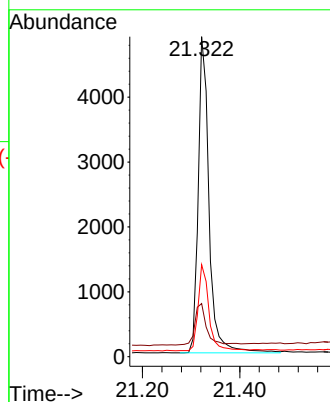
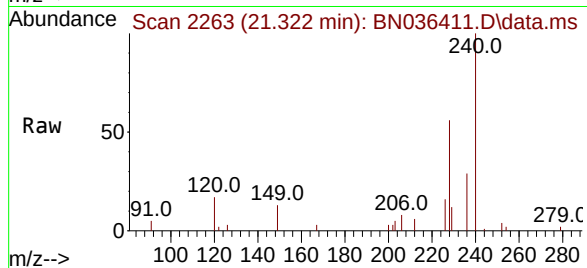
Tgt Ion:240 Resp: 7484

Ion Ratio Lower Upper

240 100

120 16.6 13.3 19.9

236 28.8 23.0 34.6



#30

Pyrene

Concen: 0.384 ng

RT: 19.564 min Scan# 2021

Delta R.T. 0.000 min

Lab File: BN036411.D

Acq: 10 Feb 2025 13:36

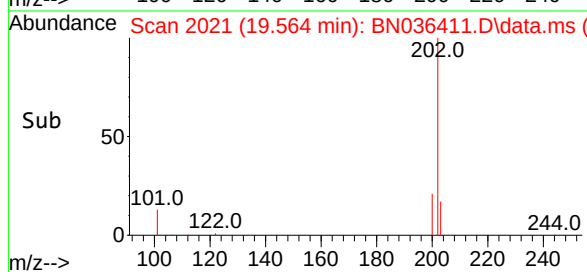
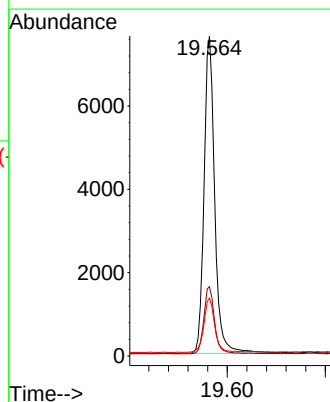
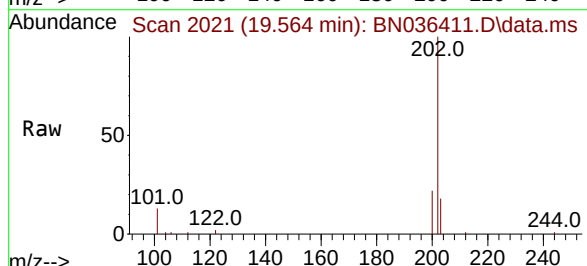
Tgt Ion:202 Resp: 11479

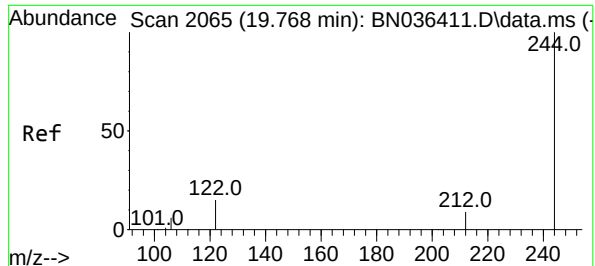
Ion Ratio Lower Upper

202 100

200 21.1 16.9 25.3

203 17.4 13.9 20.9

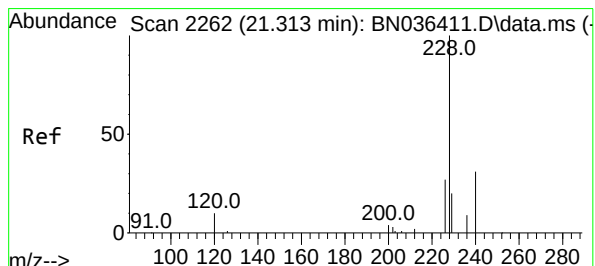
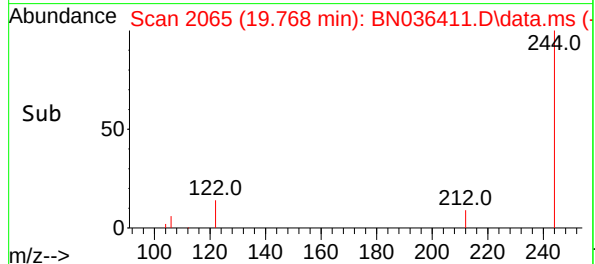
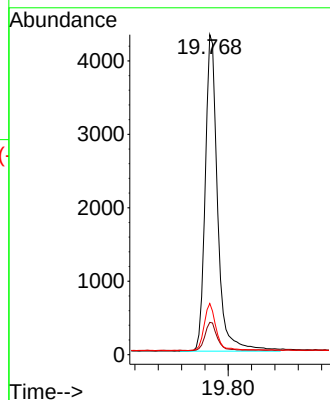
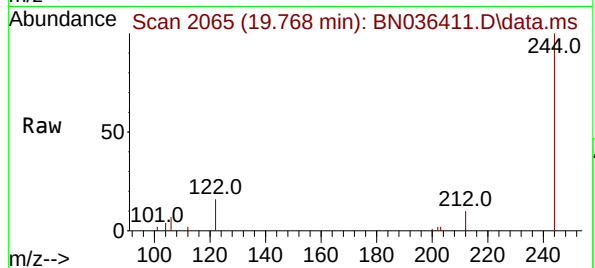




#31
Terphenyl-d14
Concen: 0.412 ng
RT: 19.768 min Scan# 2065
Delta R.T. 0.000 min
Lab File: BN036411.D
Acq: 10 Feb 2025 13:36

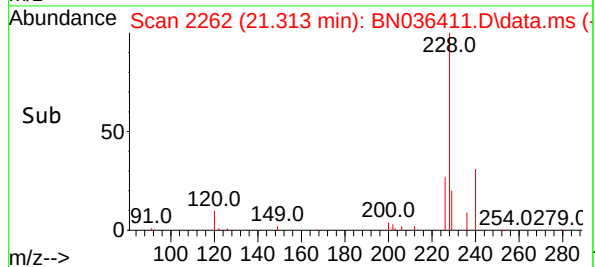
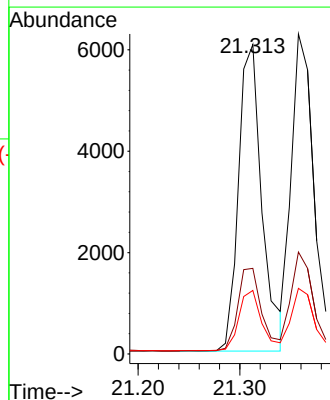
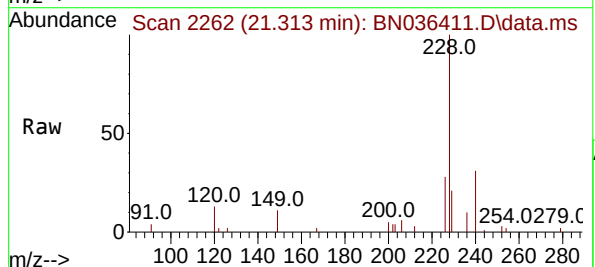
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

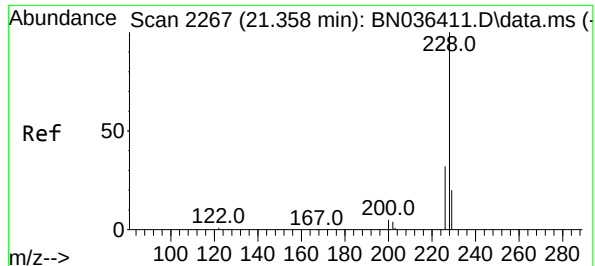
Tgt Ion:244 Resp: 6378
Ion Ratio Lower Upper
244 100
212 10.1 8.1 12.1
122 16.0 12.8 19.2



#32
Benzo(a)anthracene
Concen: 0.364 ng
RT: 21.313 min Scan# 2262
Delta R.T. 0.000 min
Lab File: BN036411.D
Acq: 10 Feb 2025 13:36

Tgt Ion:228 Resp: 9677
Ion Ratio Lower Upper
228 100
226 27.7 22.2 33.2
229 20.6 16.5 24.7





#33

Chrysene

Concen: 0.373 ng

RT: 21.358 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036411.D

Acq: 10 Feb 2025 13:36

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

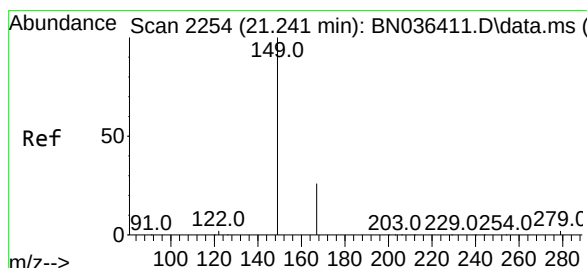
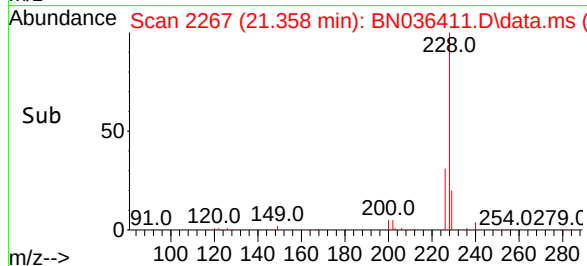
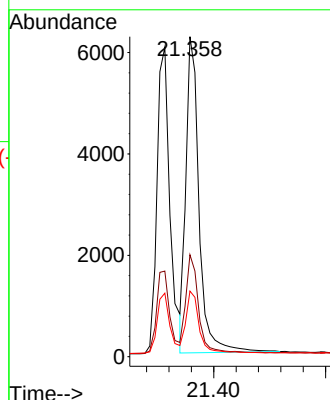
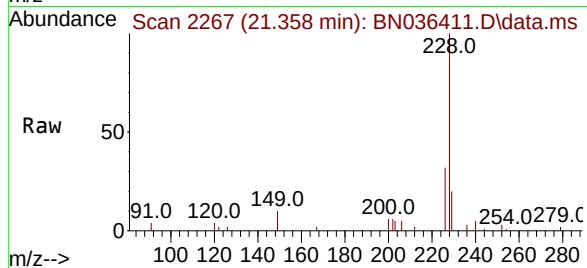
Tgt Ion:228 Resp: 10178

Ion Ratio Lower Upper

228 100

226 31.9 25.5 38.3

229 20.5 16.4 24.6



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.392 ng

RT: 21.241 min Scan# 2254

Delta R.T. 0.000 min

Lab File: BN036411.D

Acq: 10 Feb 2025 13:36

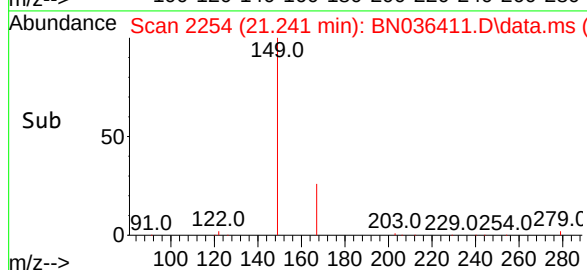
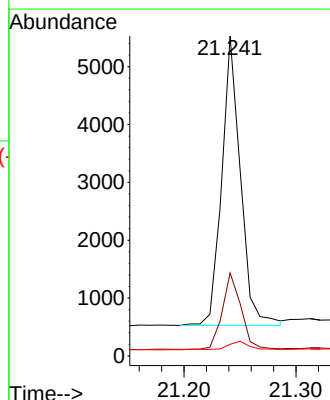
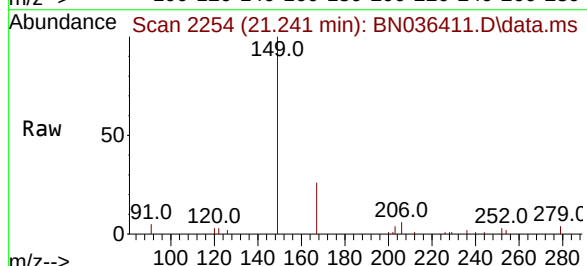
Tgt Ion:149 Resp: 5815

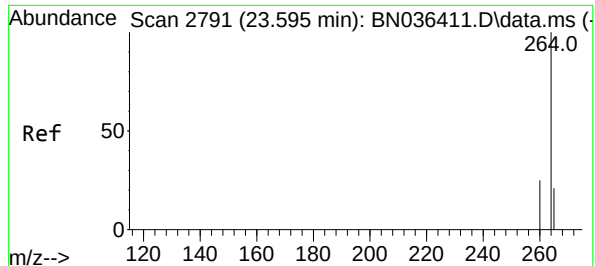
Ion Ratio Lower Upper

149 100

167 26.5 21.2 31.8

279 3.4 2.7 4.1





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.595 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036411.D

Acq: 10 Feb 2025 13:36

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

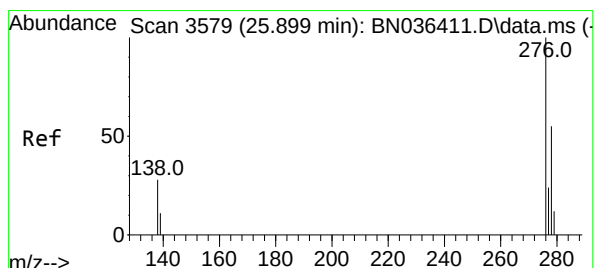
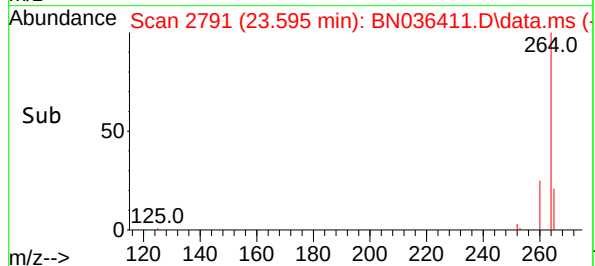
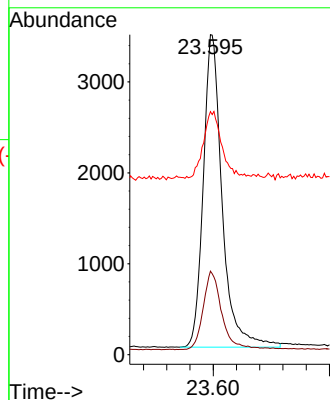
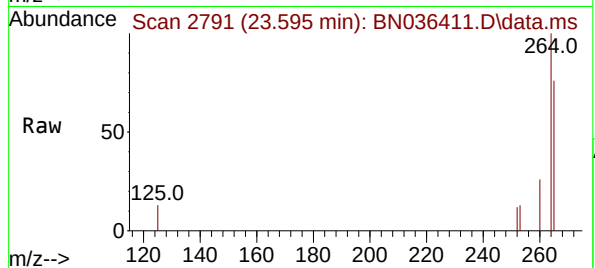
Tgt Ion:264 Resp: 7735

Ion Ratio Lower Upper

264 100

260 26.1 20.9 31.3

265 75.9 60.7 91.1



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.351 ng

RT: 25.899 min Scan# 3579

Delta R.T. 0.000 min

Lab File: BN036411.D

Acq: 10 Feb 2025 13:36

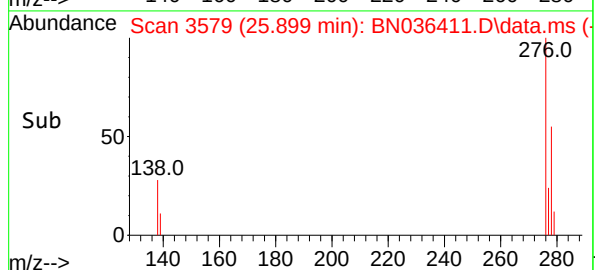
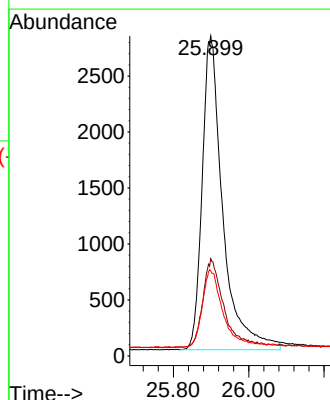
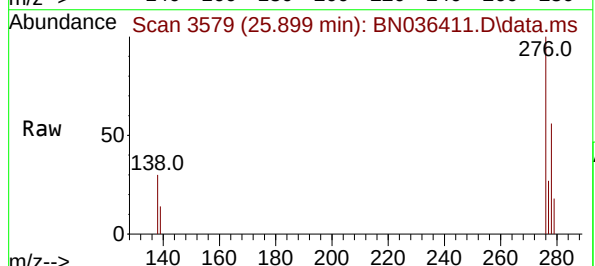
Tgt Ion:276 Resp: 10661

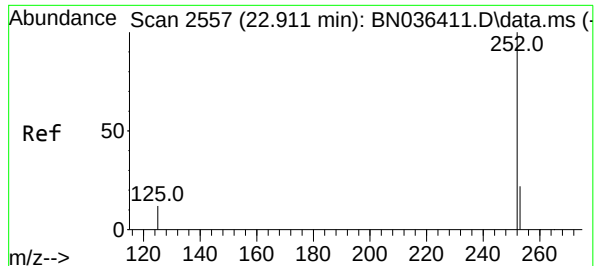
Ion Ratio Lower Upper

276 100

138 27.8 22.2 33.2

277 24.8 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.355 ng

RT: 22.911 min Scan# 2557

Delta R.T. 0.000 min

Lab File: BN036411.D

Acq: 10 Feb 2025 13:36

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

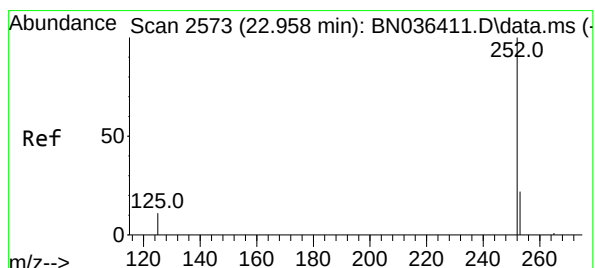
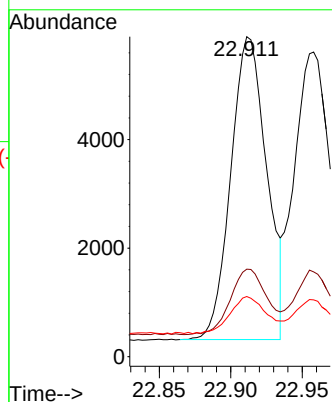
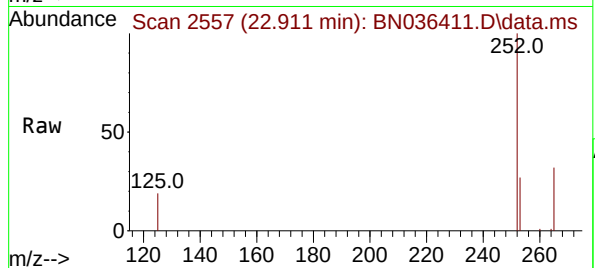
Tgt Ion:252 Resp: 9743

Ion Ratio Lower Upper

252 100

253 27.4 21.9 32.9

125 18.8 15.0 22.6



#38

Benzo(k)fluoranthene

Concen: 0.377 ng

RT: 22.958 min Scan# 2573

Delta R.T. 0.000 min

Lab File: BN036411.D

Acq: 10 Feb 2025 13:36

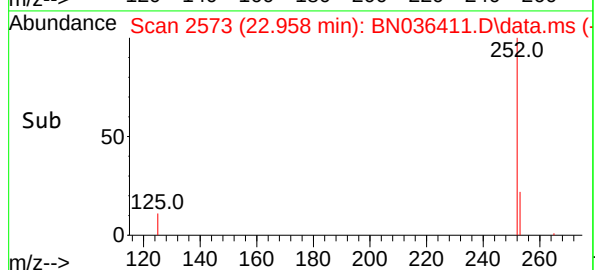
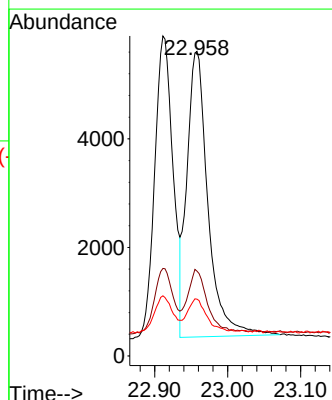
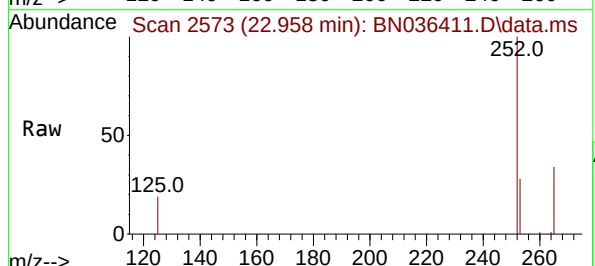
Tgt Ion:252 Resp: 10543

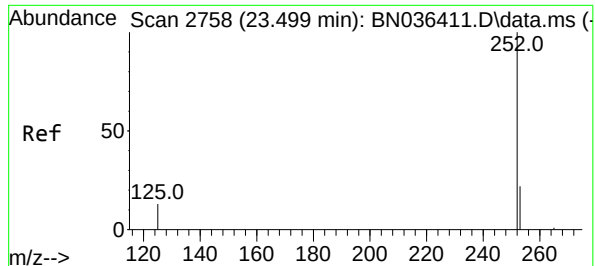
Ion Ratio Lower Upper

252 100

253 27.8 22.2 33.4

125 18.7 15.0 22.4





#39

Benzo(a)pyrene

Concen: 0.362 ng

RT: 23.499 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036411.D

Acq: 10 Feb 2025 13:36

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

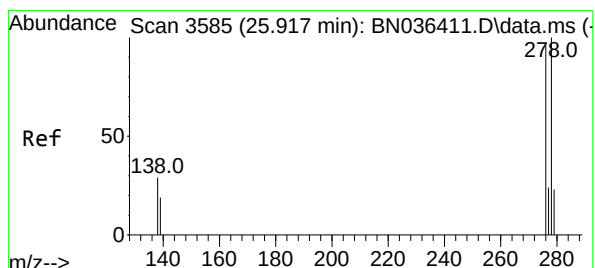
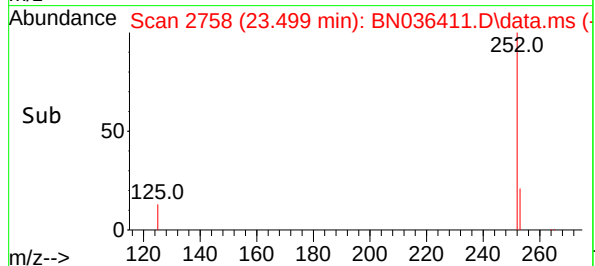
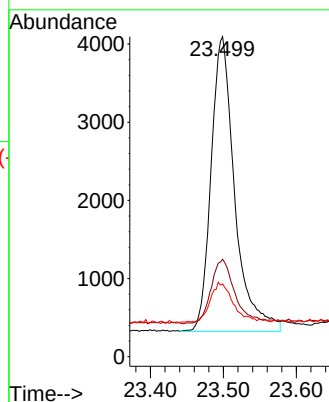
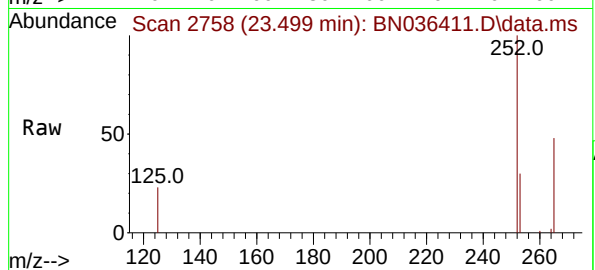
Tgt Ion:252 Resp: 8521

Ion Ratio Lower Upper

252 100

253 30.5 24.4 36.6

125 22.7 18.2 27.2



#40

Dibenzo(a,h)anthracene

Concen: 0.344 ng

RT: 25.917 min Scan# 3585

Delta R.T. 0.000 min

Lab File: BN036411.D

Acq: 10 Feb 2025 13:36

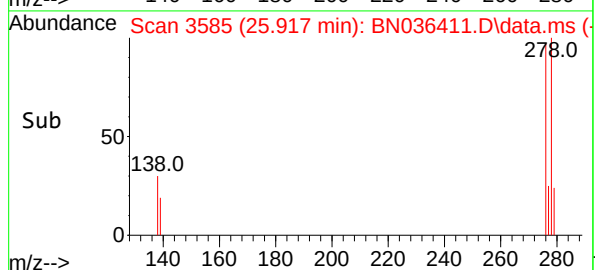
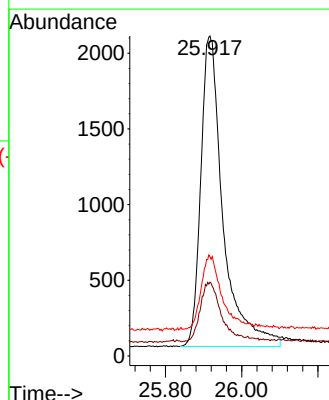
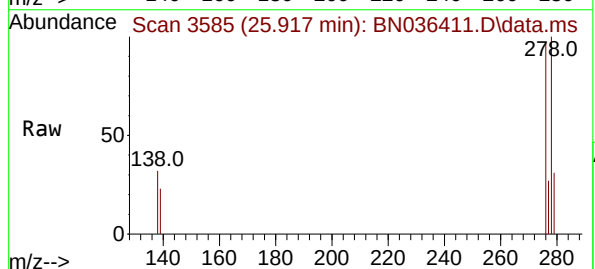
Tgt Ion:278 Resp: 8314

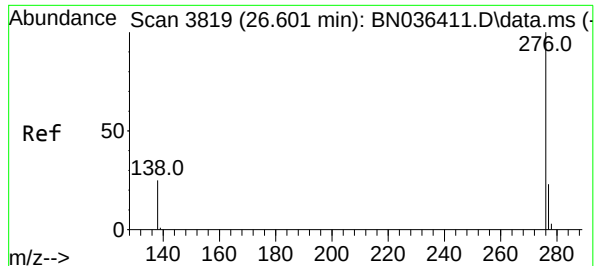
Ion Ratio Lower Upper

278 100

139 23.1 18.5 27.7

279 31.0 24.8 37.2





#41

Benzo(g,h,i)perylene

Concen: 0.366 ng

RT: 26.601 min Scan# 3819

Delta R.T. 0.000 min

Lab File: BN036411.D

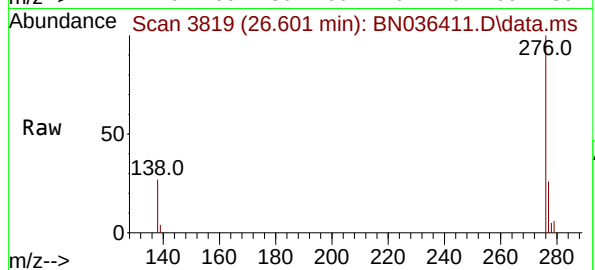
Acq: 10 Feb 2025 13:36

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4



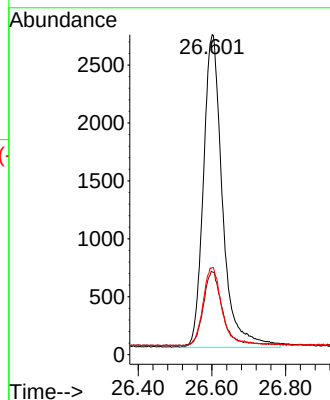
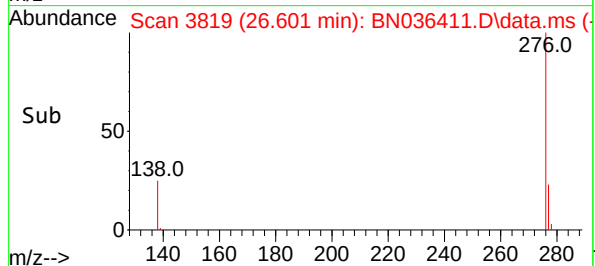
Tgt Ion:276 Resp: 9701

Ion Ratio Lower Upper

276 100

277 25.9 20.7 31.1

138 27.2 21.8 32.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
 Data File : BN036412.D
 Acq On : 10 Feb 2025 14:12
 Operator : RC/JU
 Sample : SSTDICC0.8
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.8

Quant Time: Feb 11 00:36:15 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 00:33:05 2025
 Response via : Initial Calibration

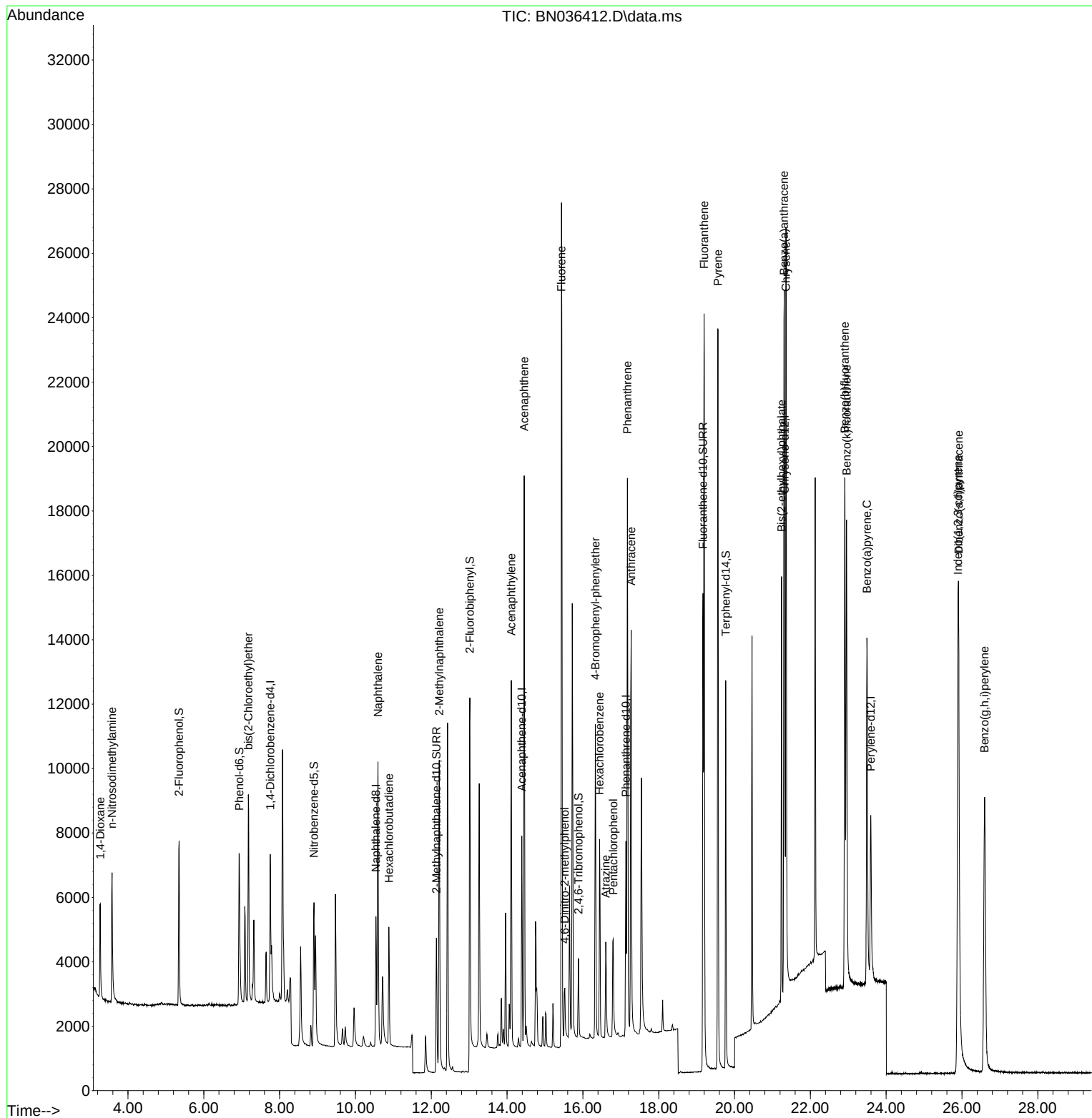
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.753	152	2190	0.400	ng	0.00
7) Naphthalene-d8	10.541	136	5510	0.400	ng	0.00
13) Acenaphthene-d10	14.388	164	3611	0.400	ng	0.00
19) Phenanthrene-d10	17.136	188	8139	0.400	ng	0.00
29) Chrysene-d12	21.322	240	7521	0.400	ng	0.00
35) Perylene-d12	23.595	264	7758	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.348	112	4030	0.723	ng	0.00
5) Phenol-d6	6.937	99	4653	0.715	ng	0.00
8) Nitrobenzene-d5	8.907	82	4082	0.795	ng	0.00
11) 2-Methylnaphthalene-d10	12.136	152	6480	0.860	ng	0.00
14) 2,4,6-Tribromophenol	15.883	330	1331	0.598	ng	0.00
15) 2-Fluorobiphenyl	13.019	172	10765	0.699	ng	0.00
27) Fluoranthene-d10	19.169	212	17242	0.823	ng	0.00
31) Terphenyl-d14	19.768	244	12467	0.800	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.268	88	1812	0.748	ng	99
3) n-Nitrosodimethylamine	3.579	42	3171	0.729	ng	# 98
6) bis(2-Chloroethyl)ether	7.176	93	4947	0.915	ng	97
9) Naphthalene	10.594	128	11992	0.762	ng	98
10) Hexachlorobutadiene	10.883	225	2996	0.608	ng	# 100
12) 2-Methylnaphthalene	12.212	142	7947	0.804	ng	97
16) Acenaphthylene	14.110	152	12153	0.727	ng	99
17) Acenaphthene	14.452	154	8143	0.712	ng	98
18) Fluorene	15.435	166	11752	0.798	ng	100
20) 4,6-Dinitro-2-methylph...	15.523	198	1199	0.658	ng	# 66
21) 4-Bromophenyl-phenylether	16.329	248	3776	0.677	ng	94
22) Hexachlorobenzene	16.441	284	4670	0.642	ng	96
23) Atrazine	16.602	200	3020	0.737	ng	94
24) Pentachlorophenol	16.801	266	1989	0.625	ng	99
25) Phenanthrene	17.173	178	18094	0.758	ng	99
26) Anthracene	17.273	178	15928	0.735	ng	99
28) Fluoranthene	19.197	202	22075	0.781	ng	99
30) Pyrene	19.564	202	22410	0.746	ng	99
32) Benzo(a)anthracene	21.304	228	18881	0.707	ng	98
33) Chrysene	21.358	228	21269	0.776	ng	97
34) Bis(2-ethylhexyl)phtha...	21.241	149	11207	0.752	ng	99
36) Indeno(1,2,3-cd)pyrene	25.893	276	21570	0.708	ng	98
37) Benzo(b)fluoranthene	22.908	252	20019	0.727	ng	# 93
38) Benzo(k)fluoranthene	22.955	252	20570	0.733	ng	# 93
39) Benzo(a)pyrene	23.493	252	17289	0.731	ng	# 91
40) Dibenzo(a,h)anthracene	25.911	278	16872	0.697	ng	93
41) Benzo(g,h,i)perylene	26.598	276	19078	0.718	ng	98

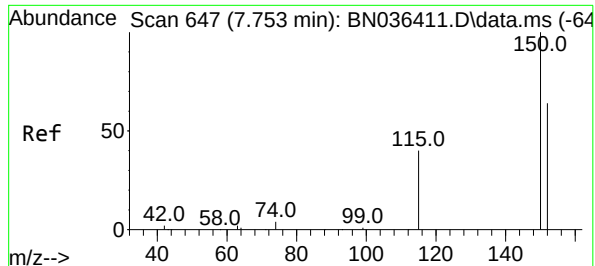
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
Data File : BN036412.D
Acq On : 10 Feb 2025 14:12
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Feb 11 00:36:15 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 11 00:33:05 2025
Response via : Initial Calibration

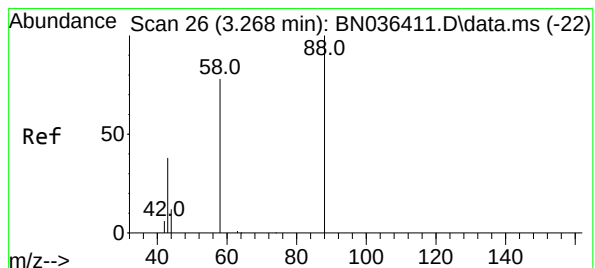
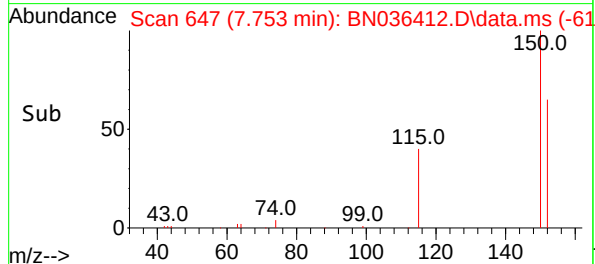
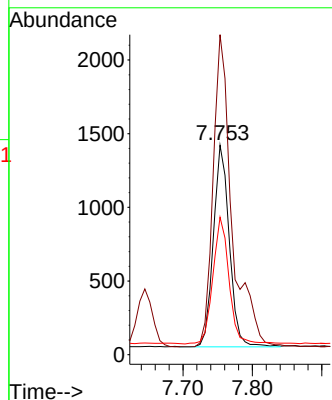
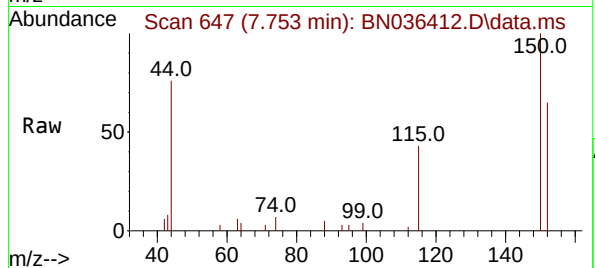




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.753 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036412.D
Acq: 10 Feb 2025 14:12

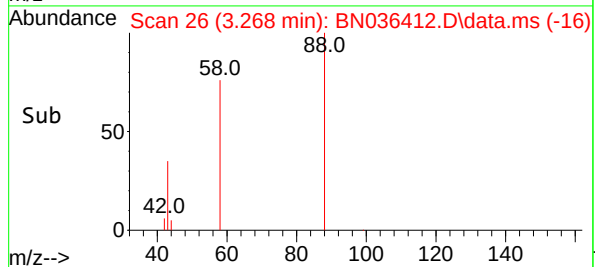
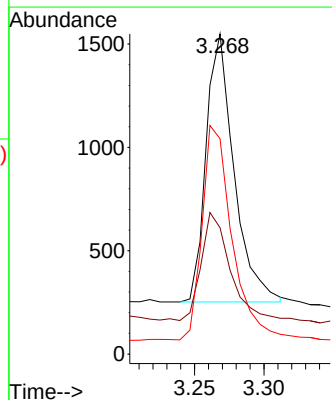
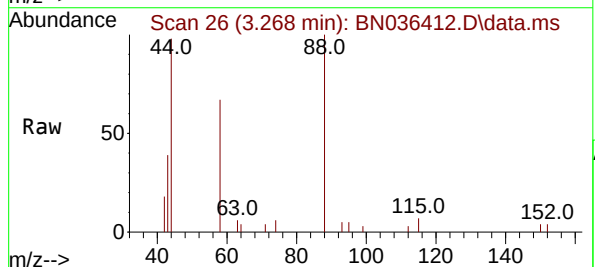
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

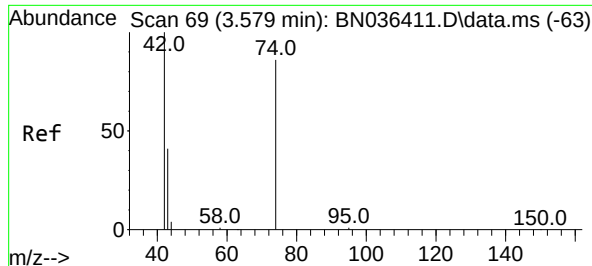
Tgt Ion:152 Resp: 2190
Ion Ratio Lower Upper
152 100
150 152.7 123.7 185.5
115 65.6 52.5 78.7



#2
1,4-Dioxane
Concen: 0.748 ng
RT: 3.268 min Scan# 26
Delta R.T. 0.000 min
Lab File: BN036412.D
Acq: 10 Feb 2025 14:12

Tgt Ion: 88 Resp: 1812
Ion Ratio Lower Upper
88 100
43 41.0 33.7 50.5
58 86.3 68.9 103.3

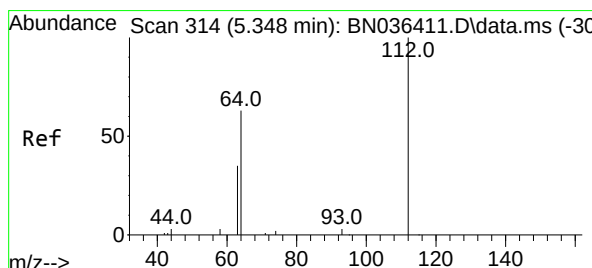
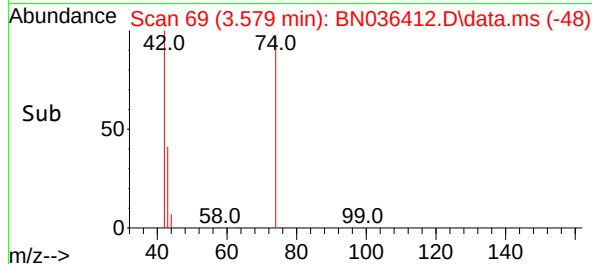
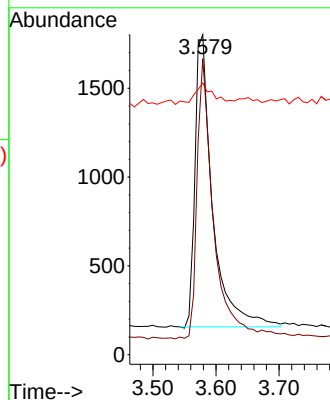
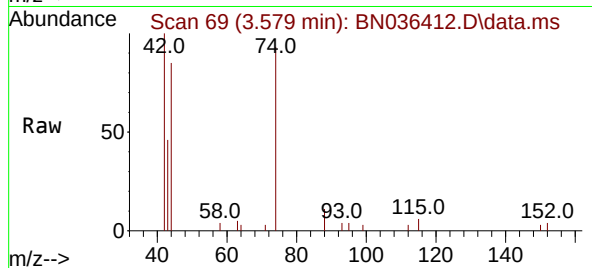




#3
n-Nitrosodimethylamine
Concen: 0.729 ng
RT: 3.579 min Scan# 69
Delta R.T. 0.000 min
Lab File: BN036412.D
Acq: 10 Feb 2025 14:12

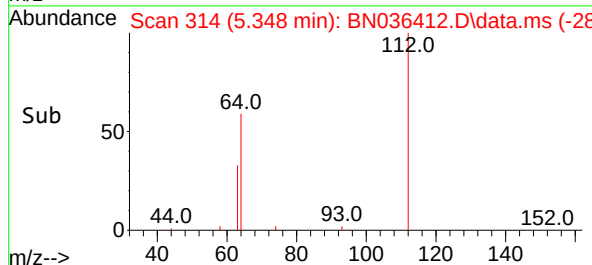
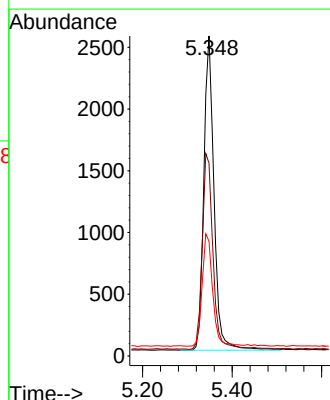
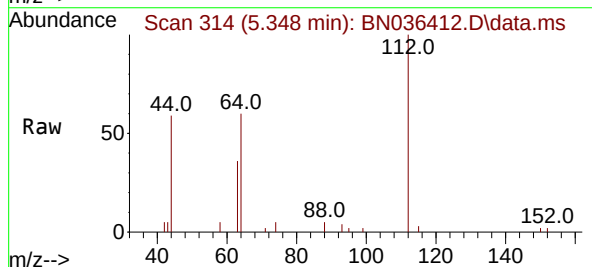
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

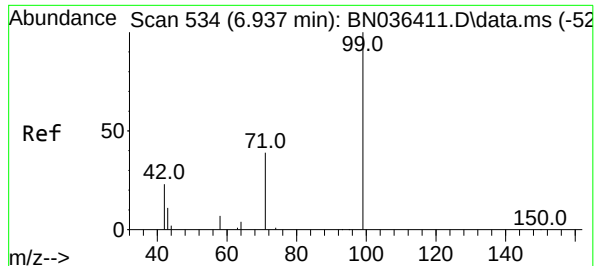
Tgt Ion: 42 Resp: 3171
Ion Ratio Lower Upper
42 100
74 91.4 71.8 107.6
44 7.2 7.8 11.6#



#4
2-Fluorophenol
Concen: 0.723 ng
RT: 5.348 min Scan# 314
Delta R.T. 0.000 min
Lab File: BN036412.D
Acq: 10 Feb 2025 14:12

Tgt Ion: 112 Resp: 4030
Ion Ratio Lower Upper
112 100
64 65.3 53.4 80.0
63 36.6 30.3 45.5

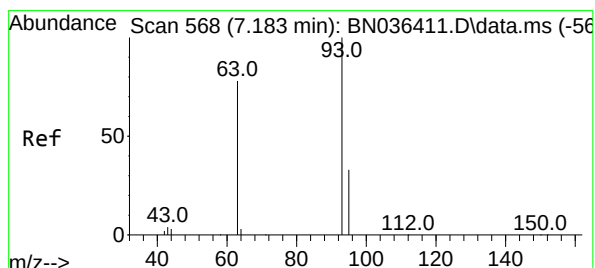
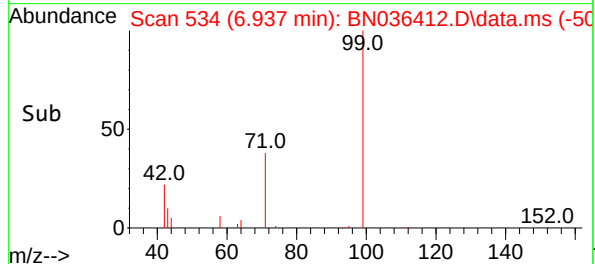
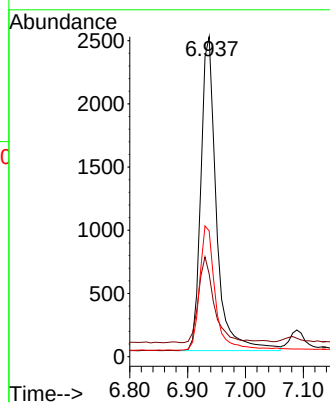
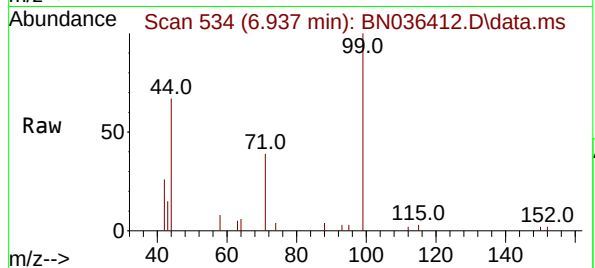




#5
Phenol-d6
Concen: 0.715 ng
RT: 6.937 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN036412.D
Acq: 10 Feb 2025 14:12

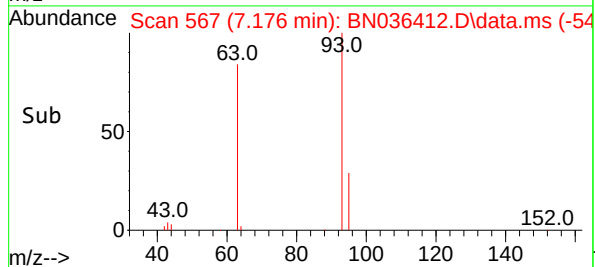
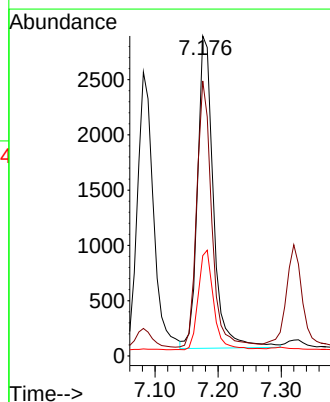
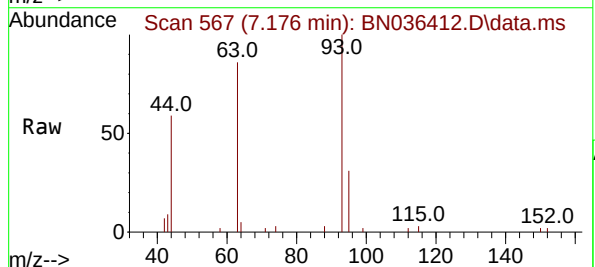
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

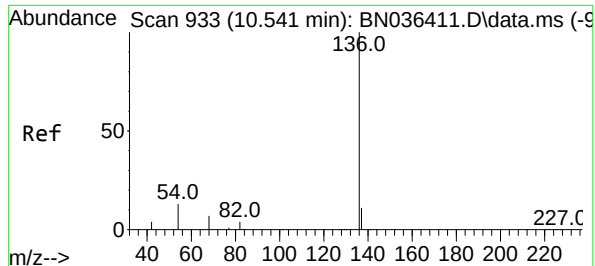
Tgt Ion: 99 Resp: 4653
Ion Ratio Lower Upper
99 100
42 27.6 21.7 32.5
71 40.0 32.6 49.0



#6
bis(2-Chloroethyl)ether
Concen: 0.915 ng
RT: 7.176 min Scan# 567
Delta R.T. -0.007 min
Lab File: BN036412.D
Acq: 10 Feb 2025 14:12

Tgt Ion: 93 Resp: 4947
Ion Ratio Lower Upper
93 100
63 80.8 66.3 99.5
95 31.0 26.2 39.4

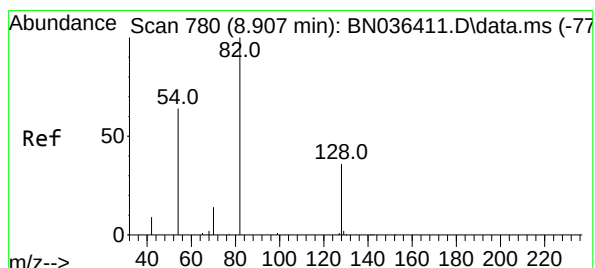
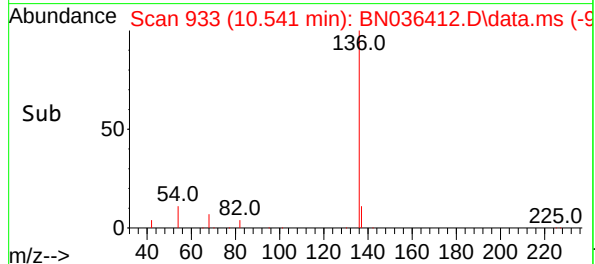
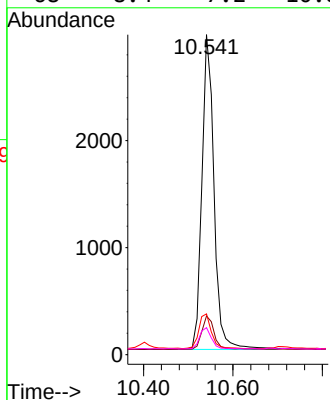
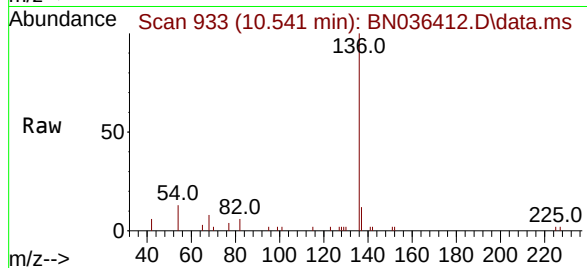




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.541 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036412.D
Acq: 10 Feb 2025 14:12

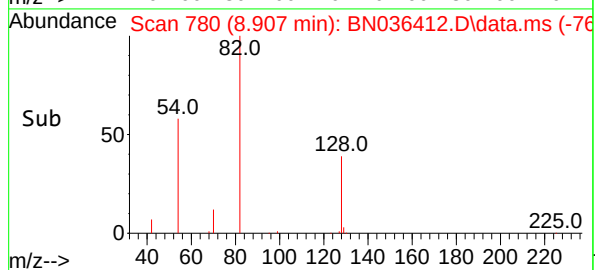
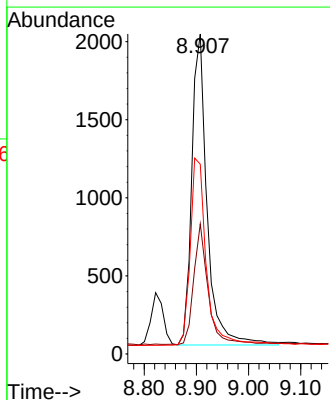
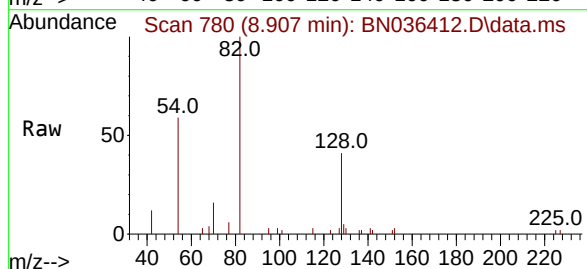
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

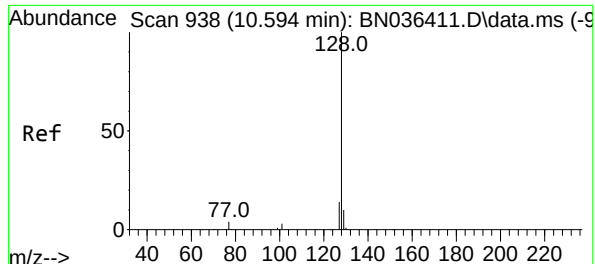
Tgt Ion:	136	Resp:	5510
Ion	Ratio	Lower	Upper
136	100		
137	12.1	10.1	15.1
54	12.7	11.8	17.6
68	8.4	7.2	10.8



#8
Nitrobenzene-d5
Concen: 0.795 ng
RT: 8.907 min Scan# 780
Delta R.T. 0.000 min
Lab File: BN036412.D
Acq: 10 Feb 2025 14:12

Tgt Ion:	82	Resp:	4082
Ion	Ratio	Lower	Upper
82	100		
128	40.7	31.9	47.9
54	59.3	53.1	79.7

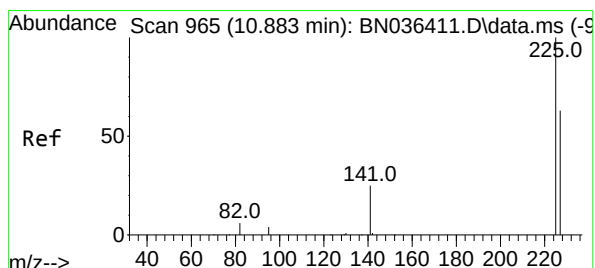
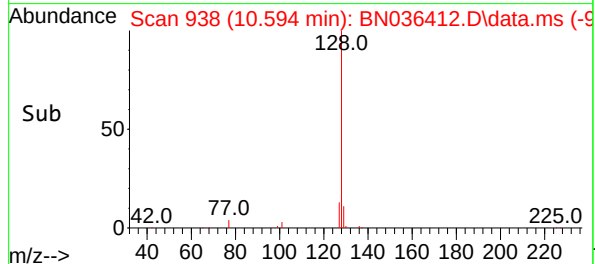
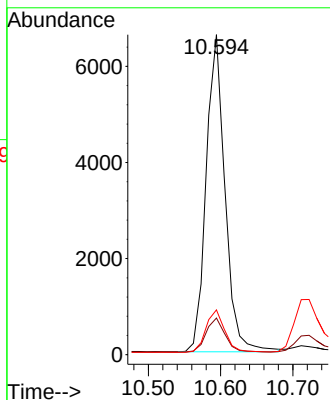
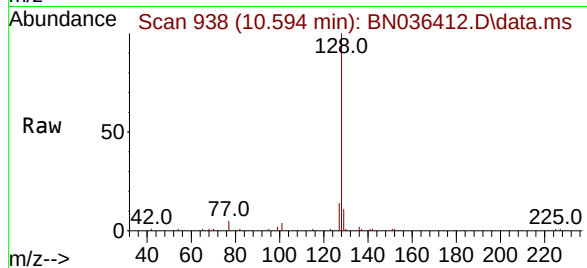




#9
Naphthalene
Concen: 0.762 ng
RT: 10.594 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN036412.D
Acq: 10 Feb 2025 14:12

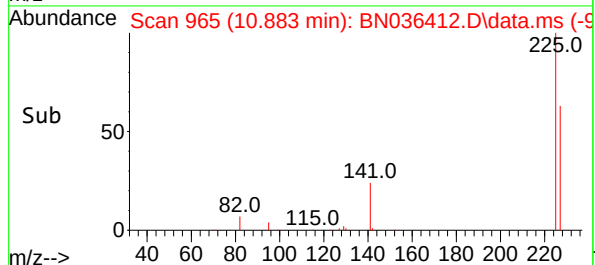
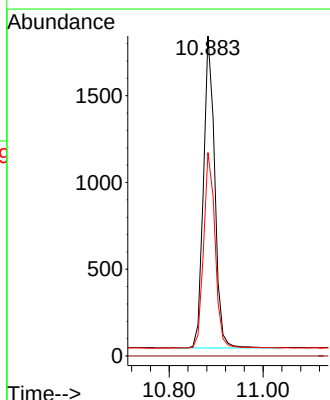
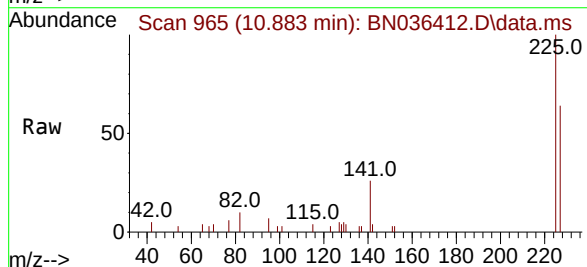
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

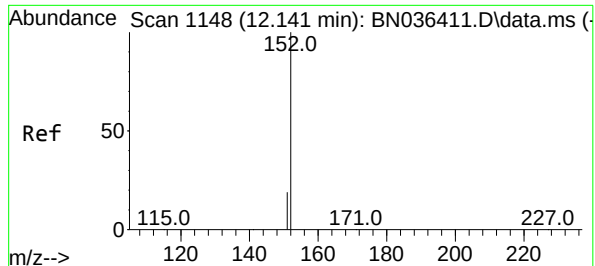
Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.5	9.6	14.4
127	14.0	12.0	18.0



#10
Hexachlorobutadiene
Concen: 0.608 ng
RT: 10.883 min Scan# 965
Delta R.T. 0.000 min
Lab File: BN036412.D
Acq: 10 Feb 2025 14:12

Tgt Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.0	50.9	76.3

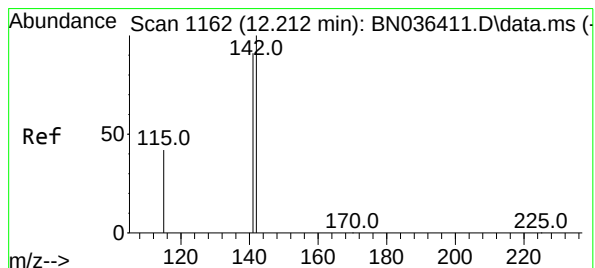
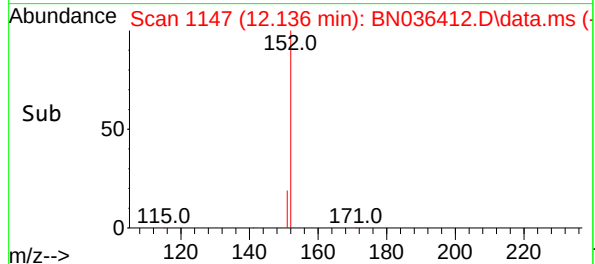
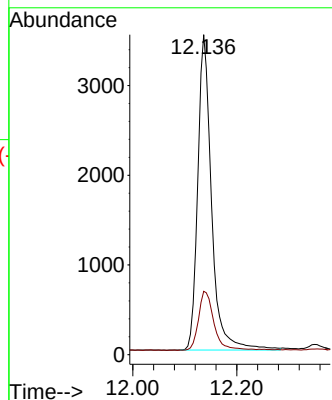
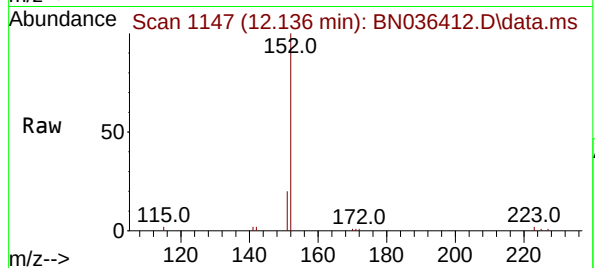




#11
2-Methylnaphthalene-d10
Concen: 0.860 ng
RT: 12.136 min Scan# 1147
Delta R.T. -0.005 min
Lab File: BN036412.D
Acq: 10 Feb 2025 14:12

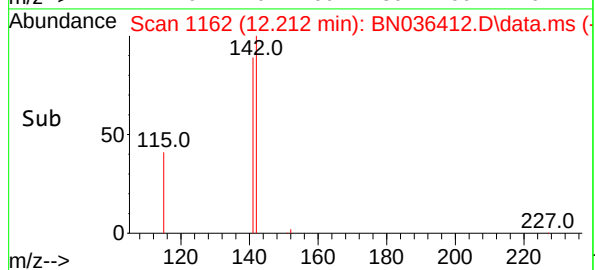
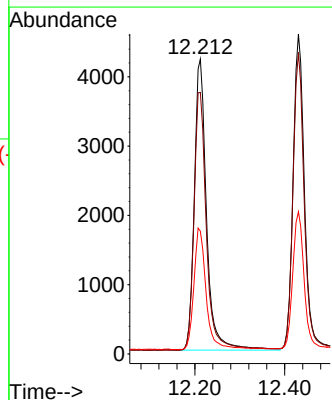
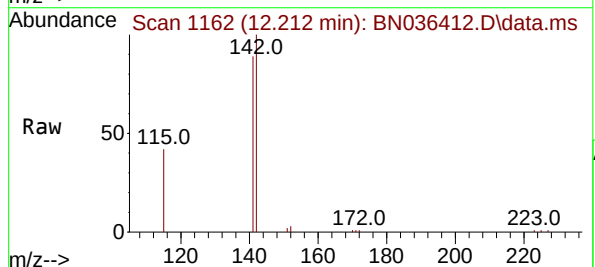
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

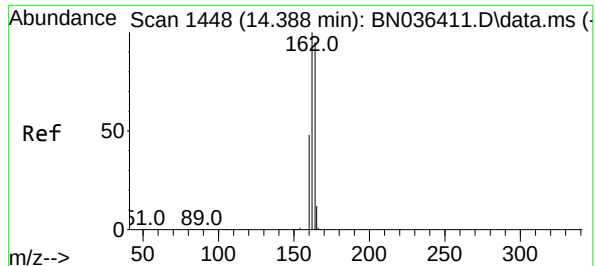
Tgt Ion:152 Resp: 6480
Ion Ratio Lower Upper
152 100
151 20.7 16.6 25.0



#12
2-Methylnaphthalene
Concen: 0.804 ng
RT: 12.212 min Scan# 1162
Delta R.T. 0.000 min
Lab File: BN036412.D
Acq: 10 Feb 2025 14:12

Tgt Ion:142 Resp: 7947
Ion Ratio Lower Upper
142 100
141 88.7 72.8 109.2
115 41.6 35.5 53.3





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.388 min Scan# 1448

Delta R.T. 0.000 min

Lab File: BN036412.D

Acq: 10 Feb 2025 14:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

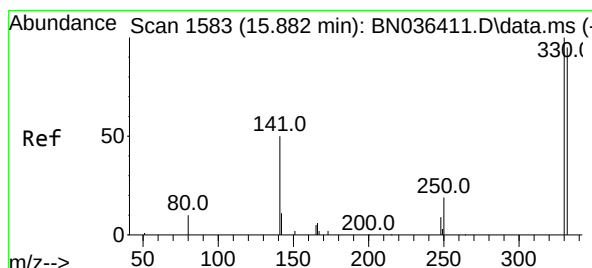
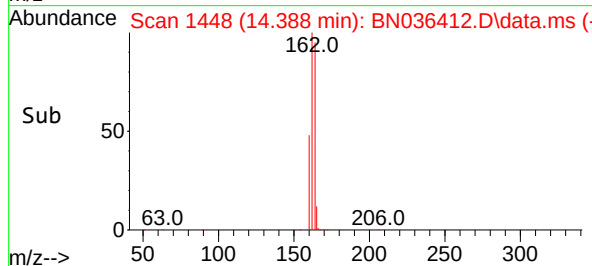
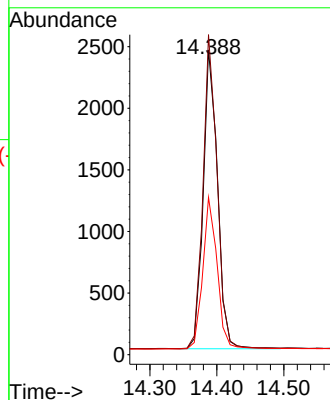
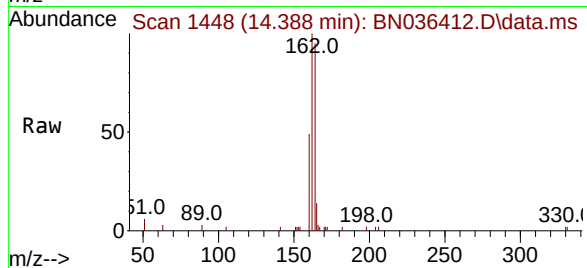
Tgt Ion:164 Resp: 3611

Ion Ratio Lower Upper

164 100

162 105.0 84.1 126.1

160 51.6 41.4 62.0



#14

2,4,6-Tribromophenol

Concen: 0.598 ng

RT: 15.883 min Scan# 1583

Delta R.T. 0.000 min

Lab File: BN036412.D

Acq: 10 Feb 2025 14:12

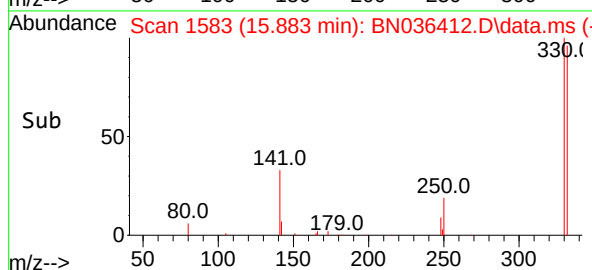
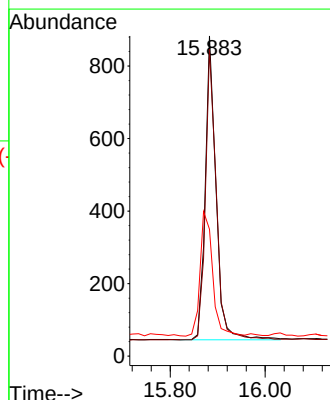
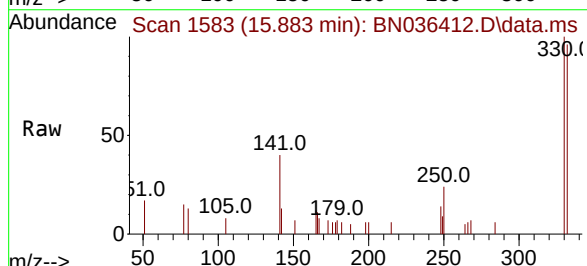
Tgt Ion:330 Resp: 1331

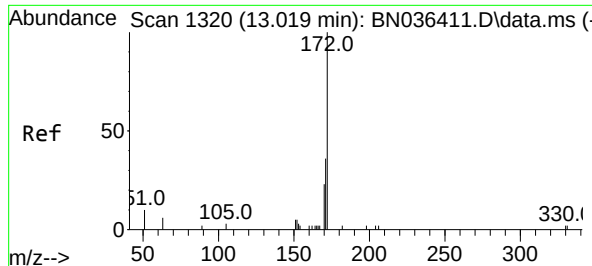
Ion Ratio Lower Upper

330 100

332 95.8 76.6 114.8

141 47.5 37.8 56.8





#15

2-Fluorobiphenyl

Concen: 0.699 ng

RT: 13.019 min Scan# 1320

Delta R.T. 0.000 min

Lab File: BN036412.D

Acq: 10 Feb 2025 14:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

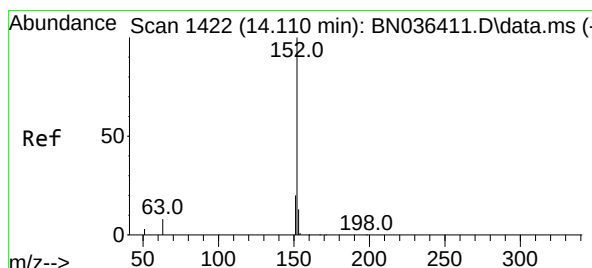
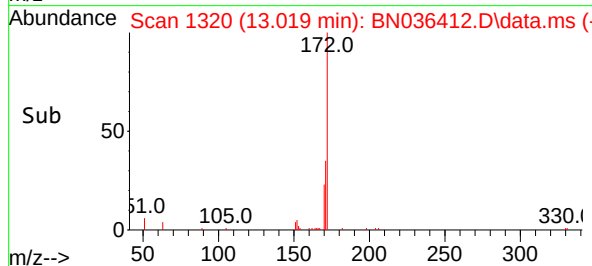
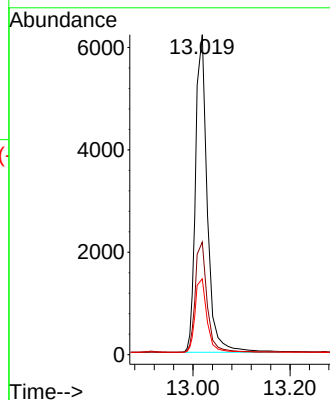
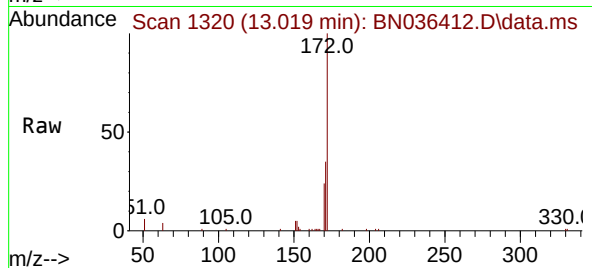
Tgt Ion:172 Resp: 10765

Ion Ratio Lower Upper

172 100

171 35.2 29.6 44.4

170 23.7 19.8 29.6



#16

Acenaphthylene

Concen: 0.727 ng

RT: 14.110 min Scan# 1422

Delta R.T. 0.000 min

Lab File: BN036412.D

Acq: 10 Feb 2025 14:12

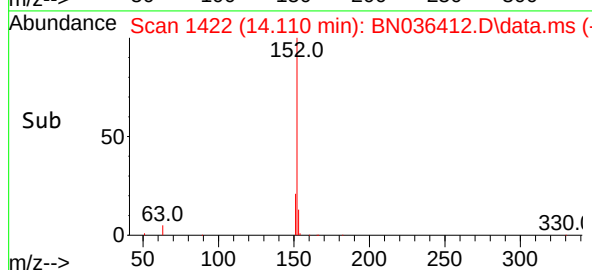
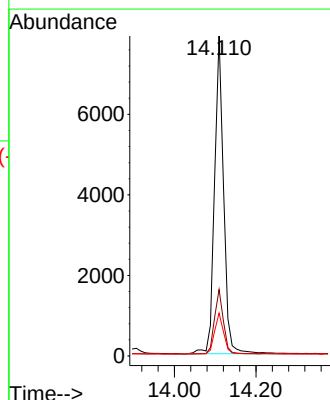
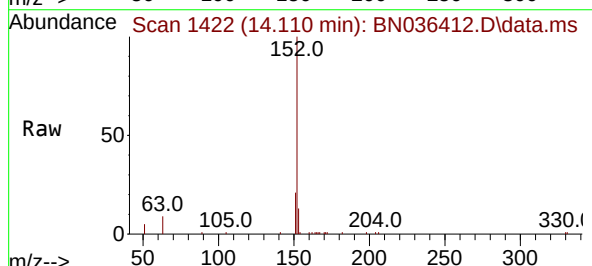
Tgt Ion:152 Resp: 12153

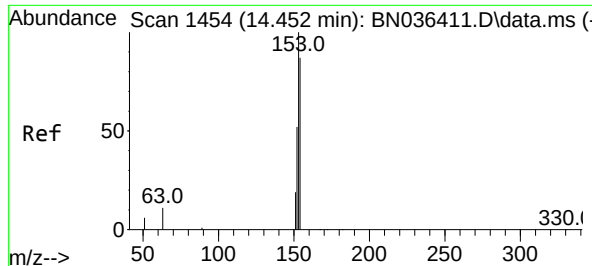
Ion Ratio Lower Upper

152 100

151 20.0 15.8 23.8

153 13.0 10.2 15.2

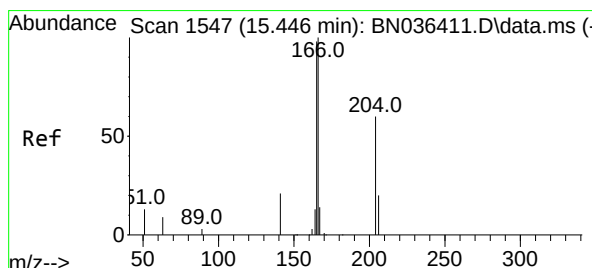
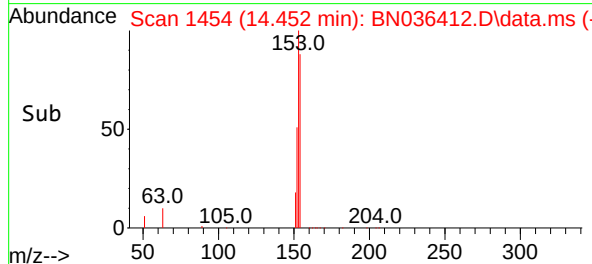
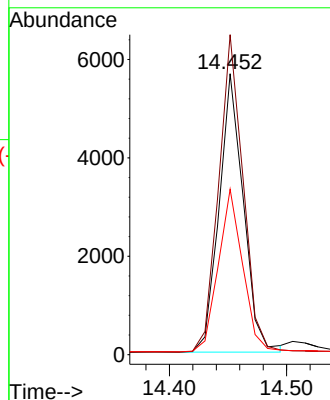
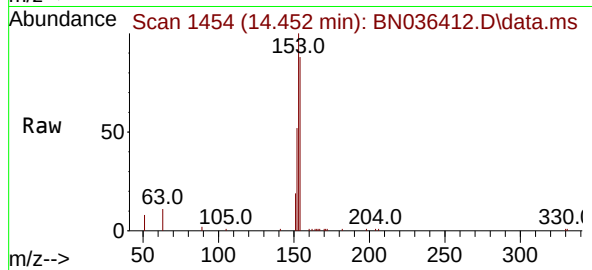




#17
Acenaphthene
Concen: 0.712 ng
RT: 14.452 min Scan# 1454
Delta R.T. 0.000 min
Lab File: BN036412.D
Acq: 10 Feb 2025 14:12

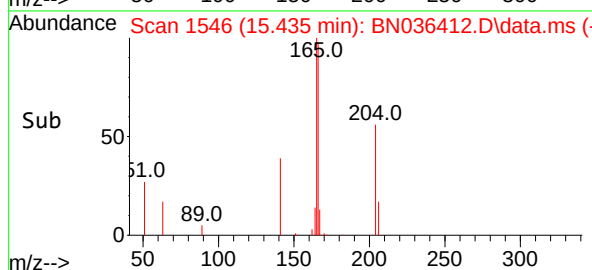
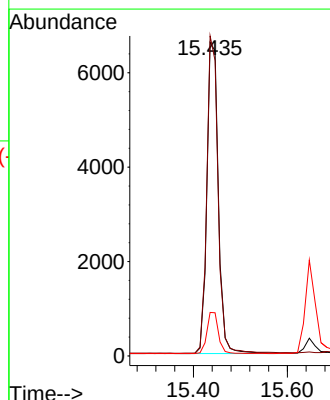
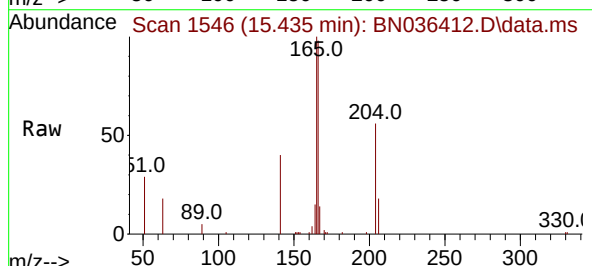
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

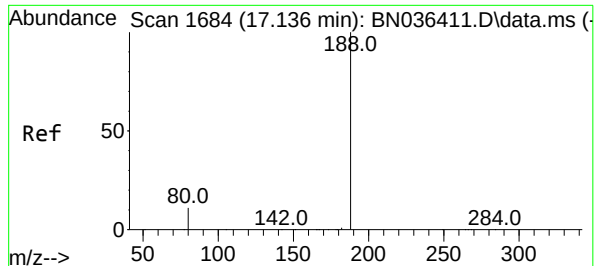
Tgt Ion:154	Resp:	8143
Ion Ratio	Lower	Upper
154	100	
153	115.5	93.3 139.9
152	59.0	48.8 73.2



#18
Fluorene
Concen: 0.798 ng
RT: 15.435 min Scan# 1546
Delta R.T. -0.011 min
Lab File: BN036412.D
Acq: 10 Feb 2025 14:12

Tgt Ion:166	Resp:	11752
Ion Ratio	Lower	Upper
166	100	
165	99.6	79.5 119.3
167	13.3	10.4 15.6





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.136 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036412.D

Acq: 10 Feb 2025 14:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

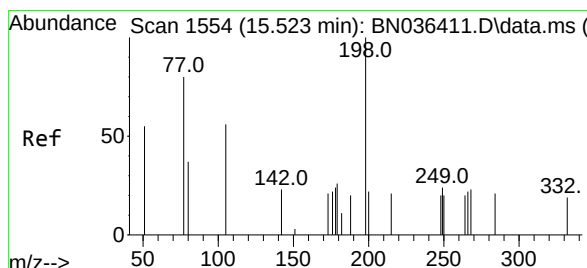
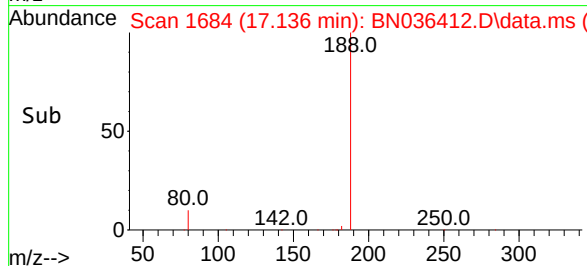
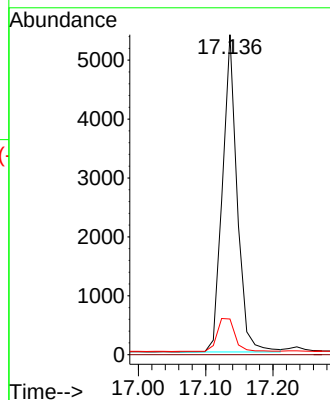
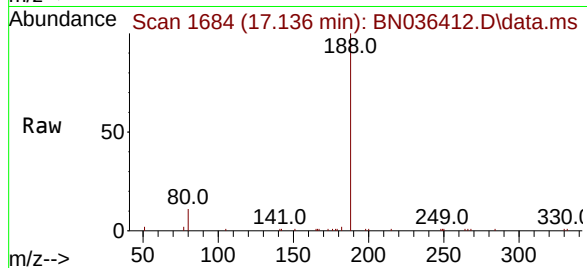
Tgt Ion:188 Resp: 8139

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.1 9.8 14.6



#20

4,6-Dinitro-2-methylphenol

Concen: 0.658 ng

RT: 15.523 min Scan# 1554

Delta R.T. 0.000 min

Lab File: BN036412.D

Acq: 10 Feb 2025 14:12

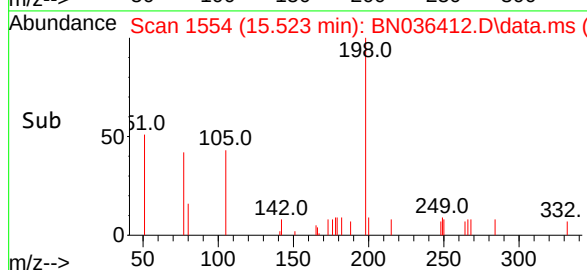
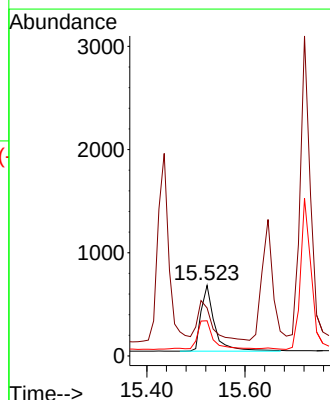
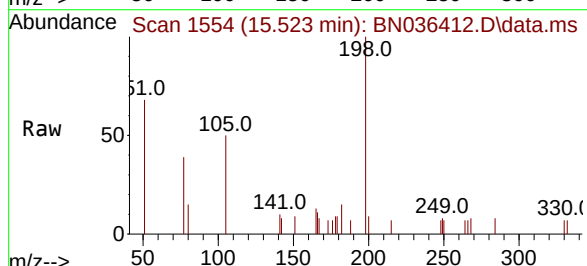
Tgt Ion:198 Resp: 1199

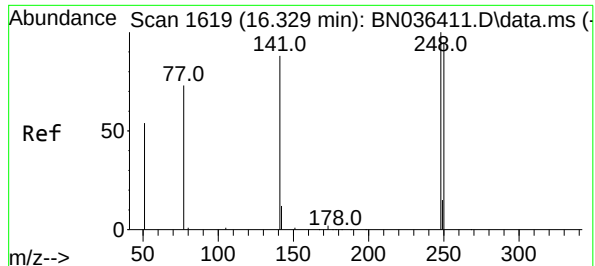
Ion Ratio Lower Upper

198 100

51 68.0 86.6 129.8#

105 49.9 57.5 86.3#

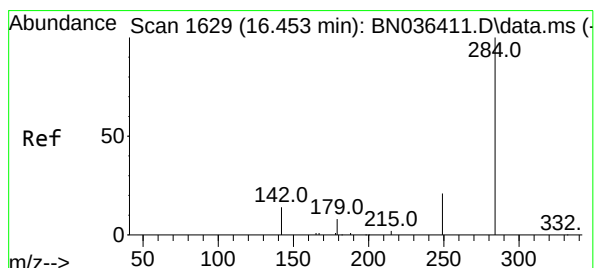
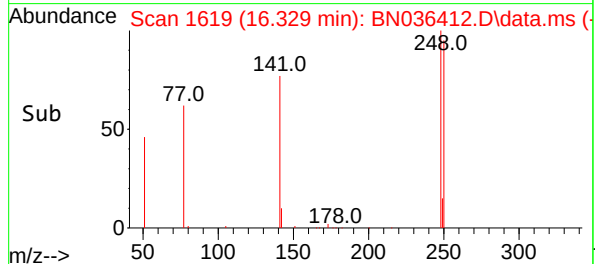
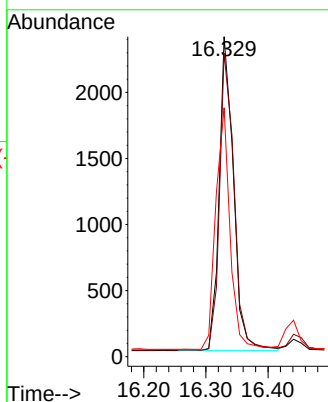
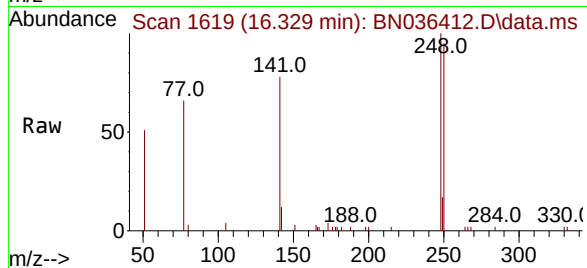




#21
4-Bromophenyl-phenylether
Concen: 0.677 ng
RT: 16.329 min Scan# 1619
Delta R.T. 0.000 min
Lab File: BN036412.D
Acq: 10 Feb 2025 14:12

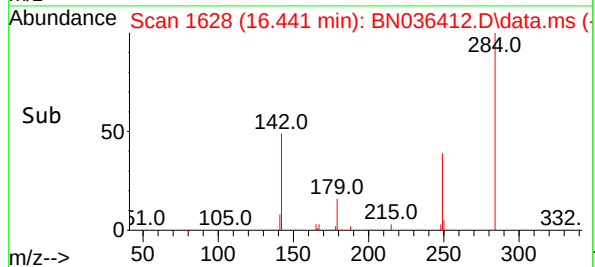
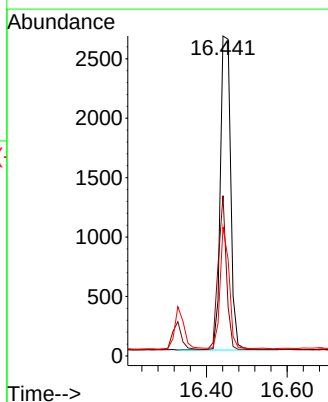
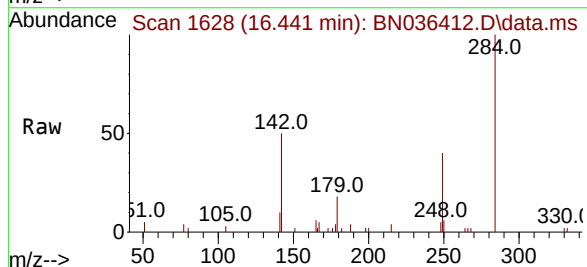
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

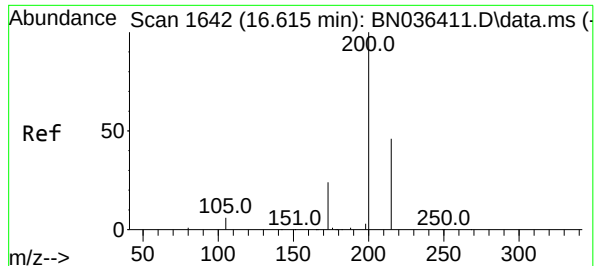
Tgt Ion	Ratio	Lower	Upper
248	100		
250	94.9	76.1	114.1
141	77.8	71.7	107.5



#22
Hexachlorobenzene
Concen: 0.642 ng
RT: 16.441 min Scan# 1628
Delta R.T. -0.012 min
Lab File: BN036412.D
Acq: 10 Feb 2025 14:12

Tgt Ion	Ratio	Lower	Upper
284	100		
142	39.5	33.4	50.0
249	33.7	28.6	43.0

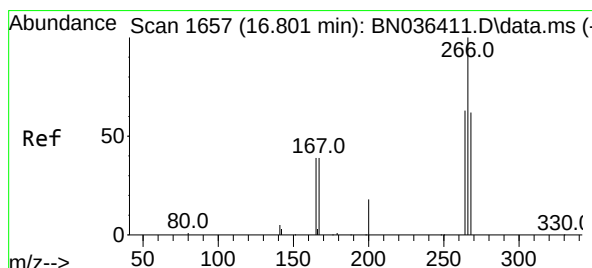
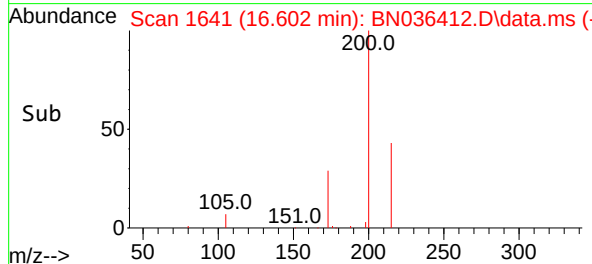
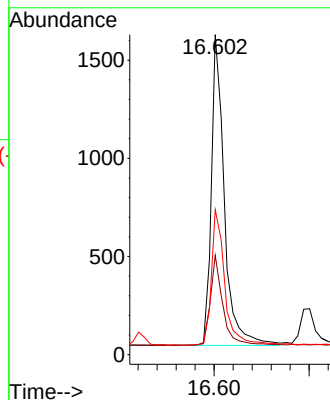
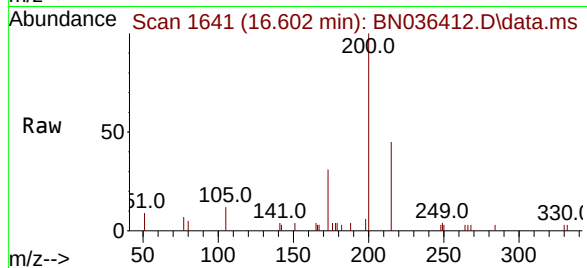




#23
Atrazine
Concen: 0.737 ng
RT: 16.602 min Scan# 1641
Delta R.T. -0.012 min
Lab File: BN036412.D
Acq: 10 Feb 2025 14:12

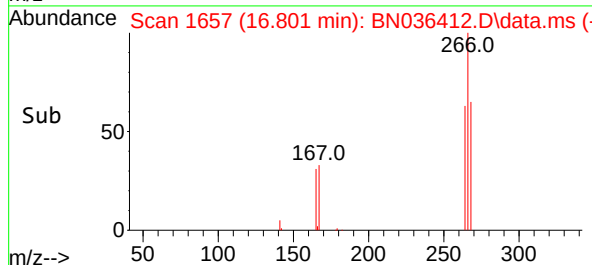
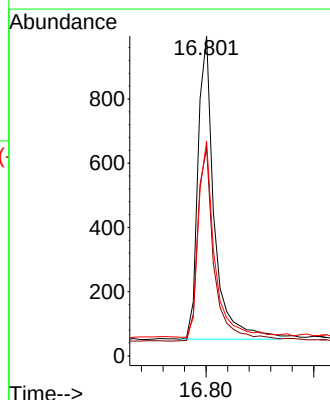
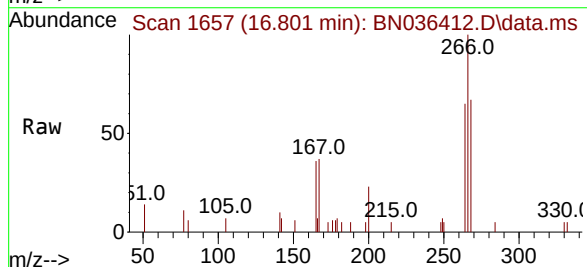
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

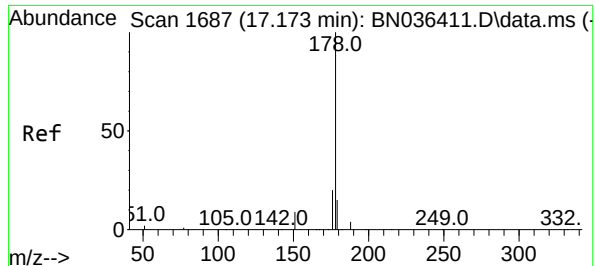
Tgt Ion	Ratio	Lower	Upper
200	100		
173	31.0	23.2	34.8
215	45.3	40.0	60.0



#24
Pentachlorophenol
Concen: 0.625 ng
RT: 16.801 min Scan# 1657
Delta R.T. 0.000 min
Lab File: BN036412.D
Acq: 10 Feb 2025 14:12

Tgt Ion	Ratio	Lower	Upper
266	100		
264	64.5	50.6	76.0
268	64.4	51.9	77.9

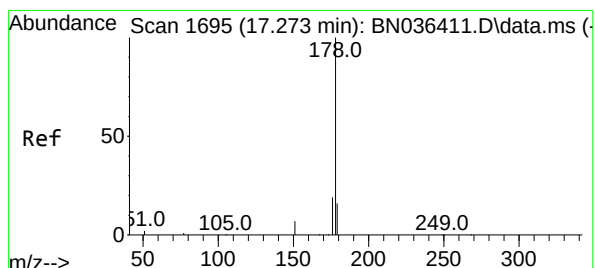
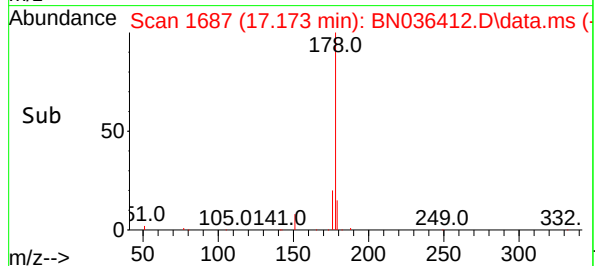
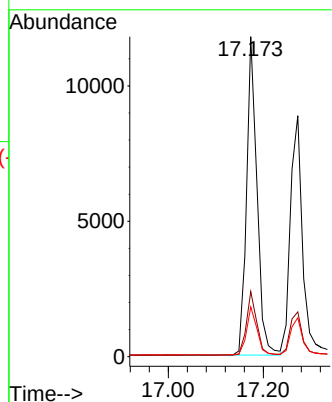
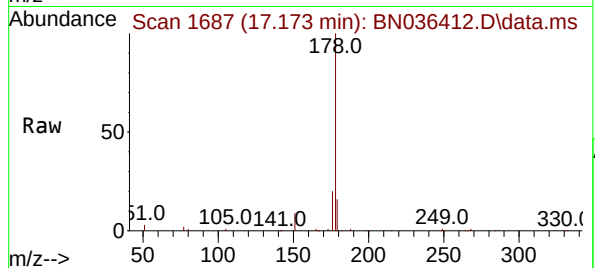




#25
Phenanthrene
Concen: 0.758 ng
RT: 17.173 min Scan# 1687
Delta R.T. 0.000 min
Lab File: BN036412.D
Acq: 10 Feb 2025 14:12

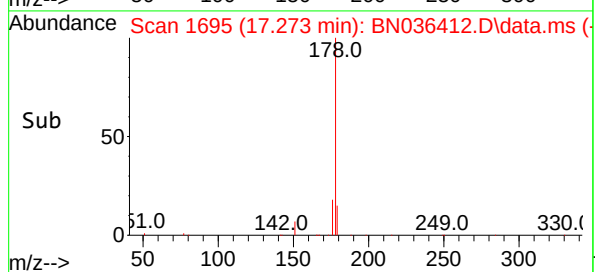
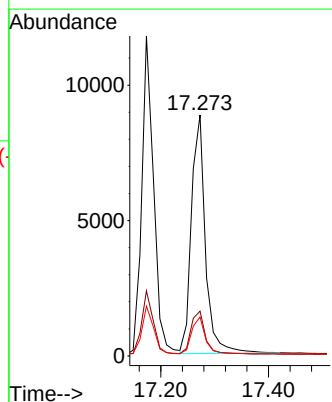
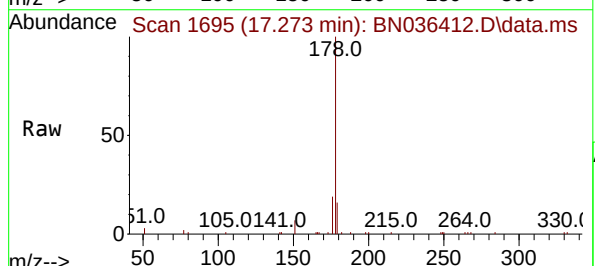
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

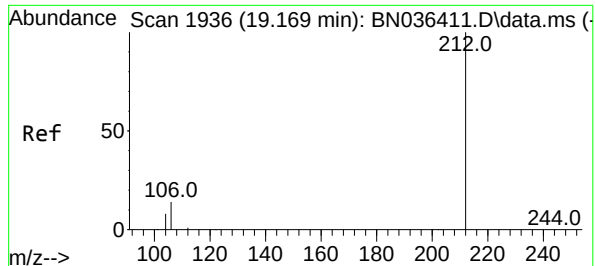
Tgt Ion:178 Resp: 18094
Ion Ratio Lower Upper
178 100
176 19.8 15.7 23.5
179 15.1 12.4 18.6



#26
Anthracene
Concen: 0.735 ng
RT: 17.273 min Scan# 1695
Delta R.T. 0.000 min
Lab File: BN036412.D
Acq: 10 Feb 2025 14:12

Tgt Ion:178 Resp: 15928
Ion Ratio Lower Upper
178 100
176 18.3 14.9 22.3
179 15.4 12.4 18.6





#27

Fluoranthene-d10

Concen: 0.823 ng

RT: 19.169 min Scan# 1936

Delta R.T. 0.000 min

Lab File: BN036412.D

Acq: 10 Feb 2025 14:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

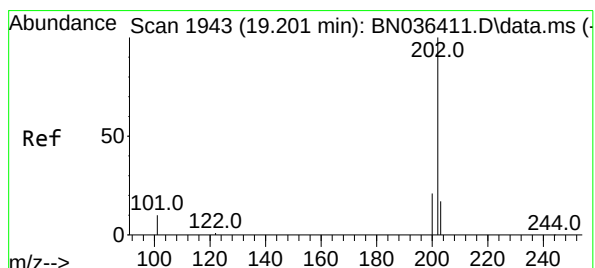
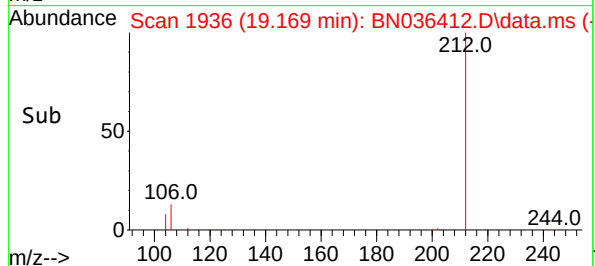
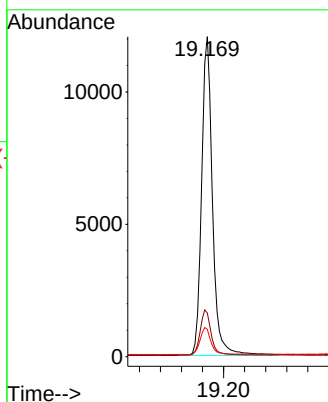
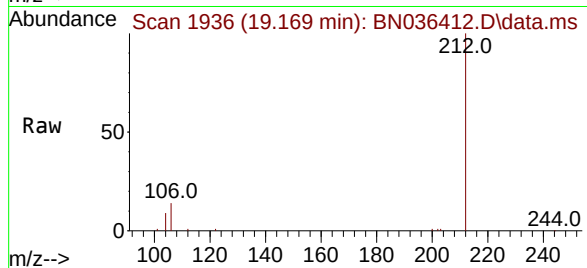
Tgt Ion:212 Resp: 17242

Ion Ratio Lower Upper

212 100

106 14.2 11.5 17.3

104 8.4 7.1 10.7



#28

Fluoranthene

Concen: 0.781 ng

RT: 19.197 min Scan# 1942

Delta R.T. -0.005 min

Lab File: BN036412.D

Acq: 10 Feb 2025 14:12

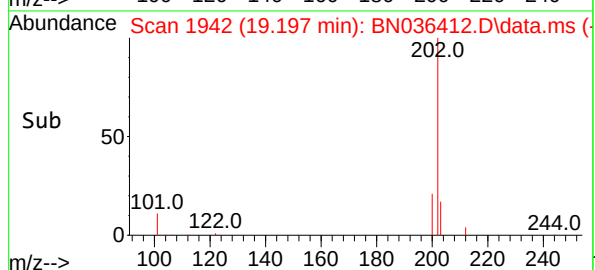
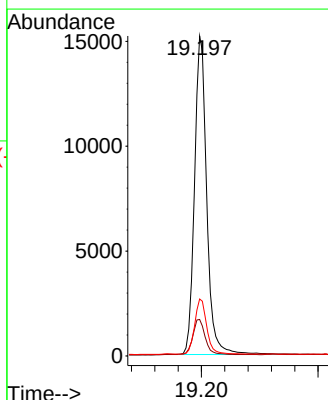
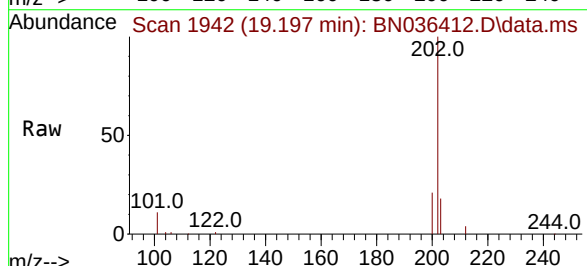
Tgt Ion:202 Resp: 22075

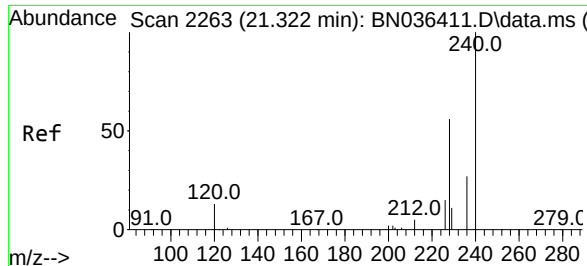
Ion Ratio Lower Upper

202 100

101 11.4 9.2 13.8

203 17.0 13.4 20.0





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.322 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036412.D

Acq: 10 Feb 2025 14:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

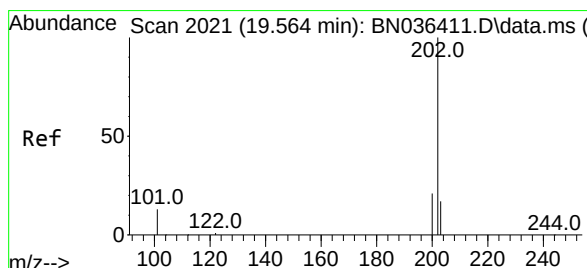
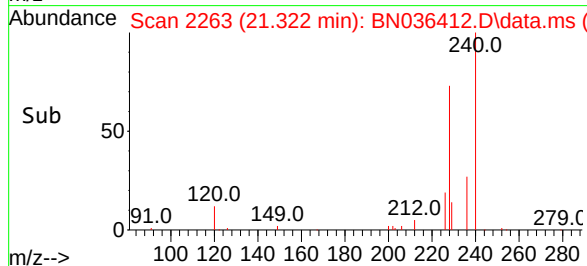
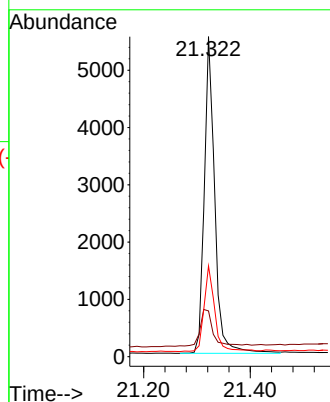
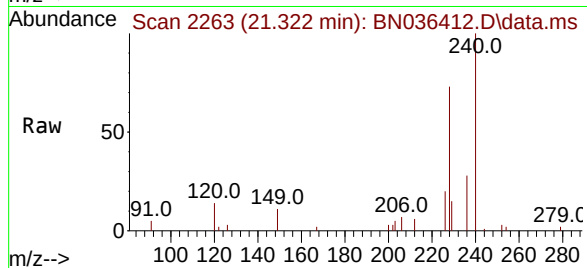
Tgt Ion:240 Resp: 7521

Ion Ratio Lower Upper

240 100

120 14.3 13.3 19.9

236 28.3 23.0 34.6



#30

Pyrene

Concen: 0.746 ng

RT: 19.564 min Scan# 2021

Delta R.T. 0.000 min

Lab File: BN036412.D

Acq: 10 Feb 2025 14:12

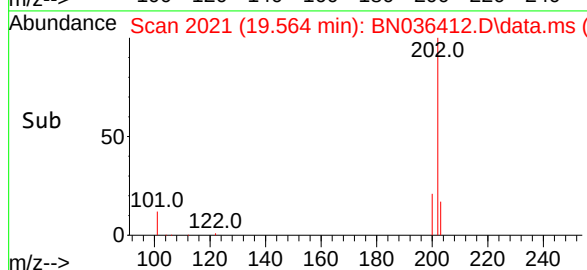
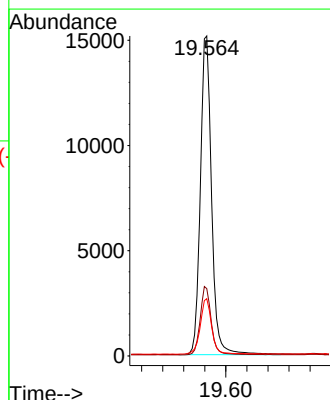
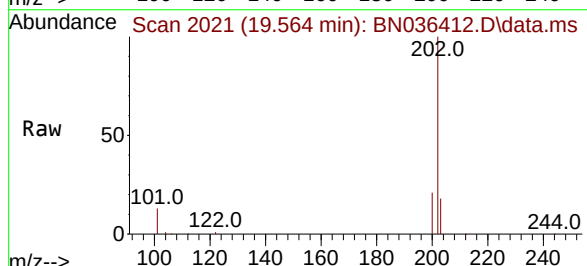
Tgt Ion:202 Resp: 22410

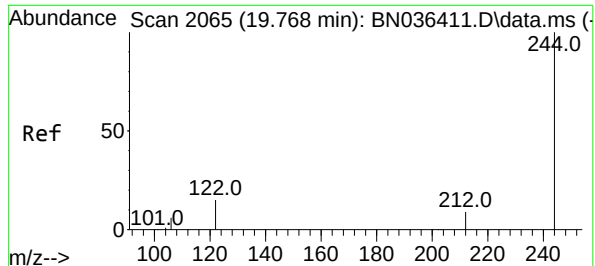
Ion Ratio Lower Upper

202 100

200 21.2 16.9 25.3

203 17.9 13.9 20.9

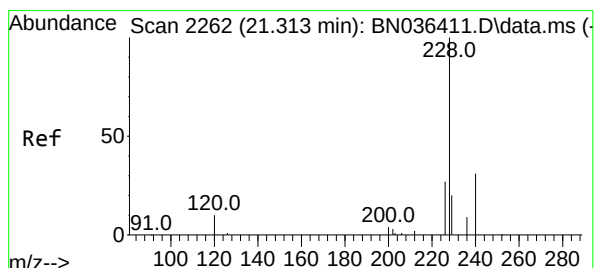
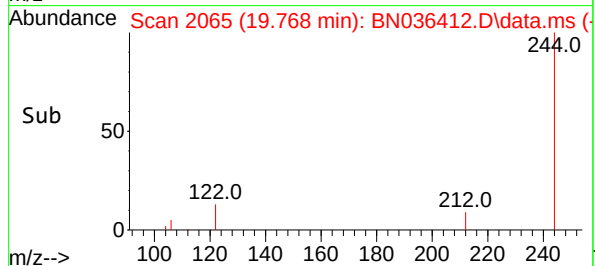
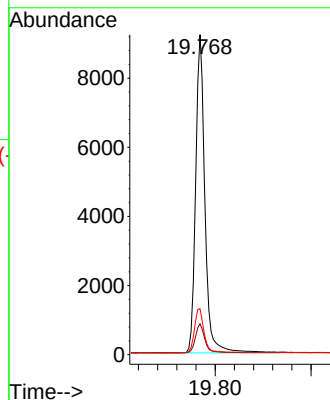
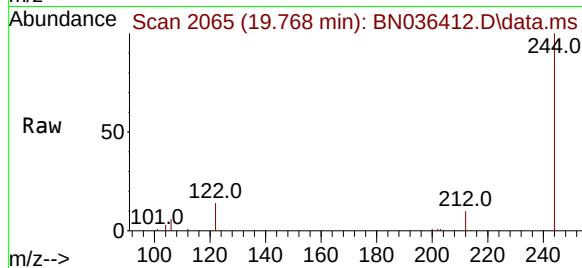




#31
Terphenyl-d14
Concen: 0.800 ng
RT: 19.768 min Scan# 2065
Delta R.T. 0.000 min
Lab File: BN036412.D
Acq: 10 Feb 2025 14:12

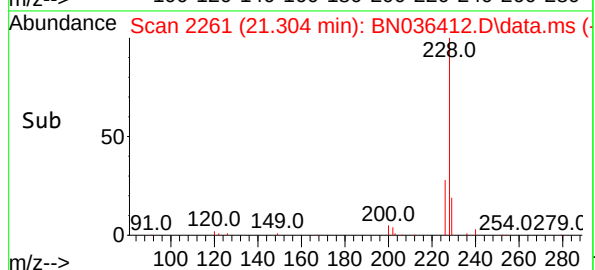
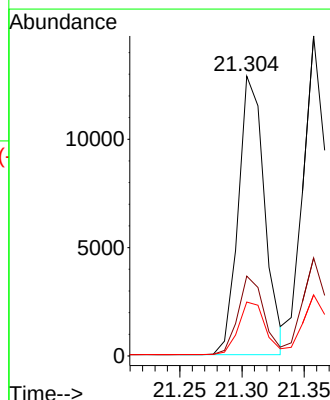
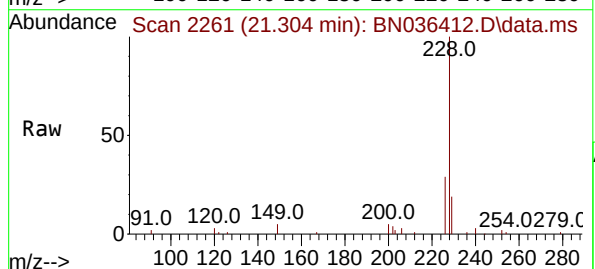
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

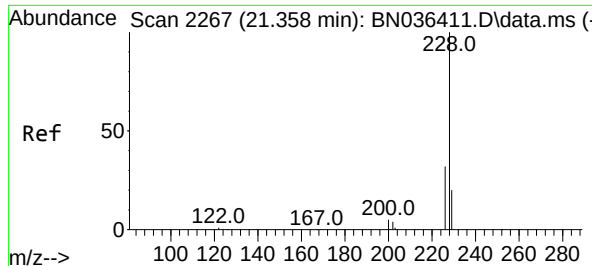
Tgt Ion:244 Resp: 12467
Ion Ratio Lower Upper
244 100
212 9.6 8.1 12.1
122 14.3 12.8 19.2



#32
Benzo(a)anthracene
Concen: 0.707 ng
RT: 21.304 min Scan# 2261
Delta R.T. -0.009 min
Lab File: BN036412.D
Acq: 10 Feb 2025 14:12

Tgt Ion:228 Resp: 18881
Ion Ratio Lower Upper
228 100
226 28.5 22.2 33.2
229 19.3 16.5 24.7





#33

Chrysene

Concen: 0.776 ng

RT: 21.358 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036412.D

Acq: 10 Feb 2025 14:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

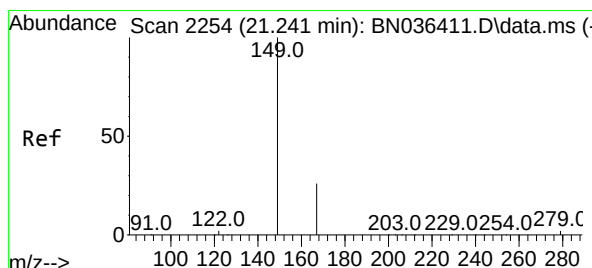
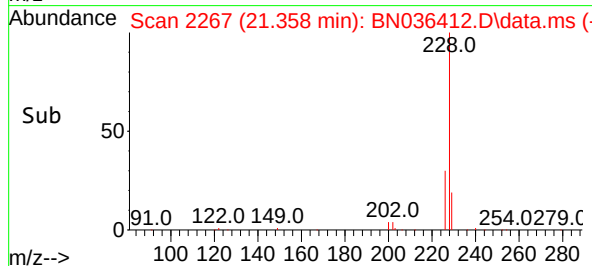
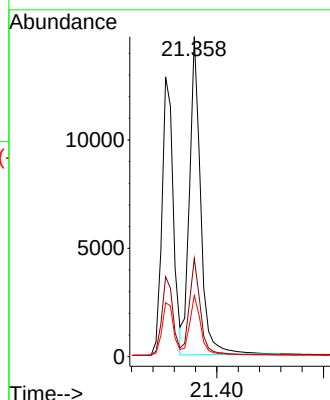
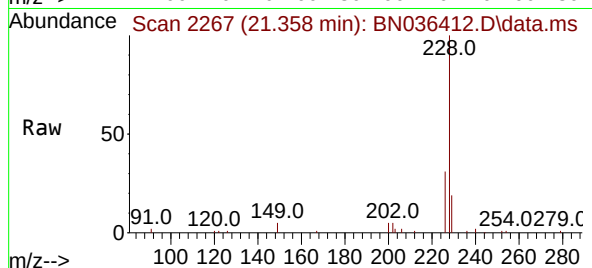
Tgt Ion:228 Resp: 21269

Ion Ratio Lower Upper

228 100

226 30.6 25.5 38.3

229 19.1 16.4 24.6



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.752 ng

RT: 21.241 min Scan# 2254

Delta R.T. 0.000 min

Lab File: BN036412.D

Acq: 10 Feb 2025 14:12

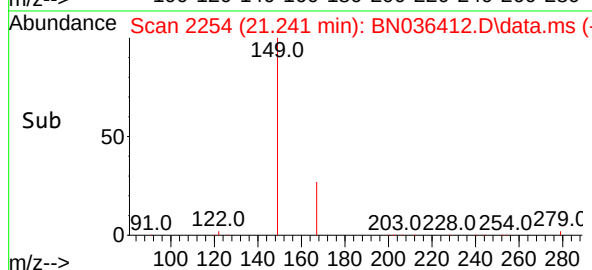
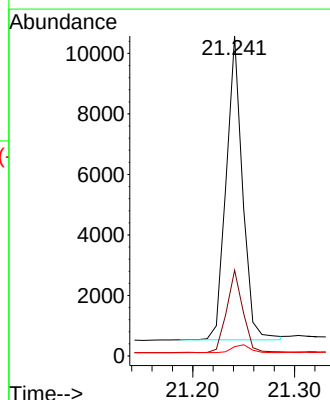
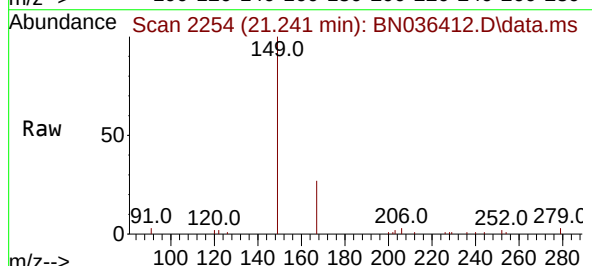
Tgt Ion:149 Resp: 11207

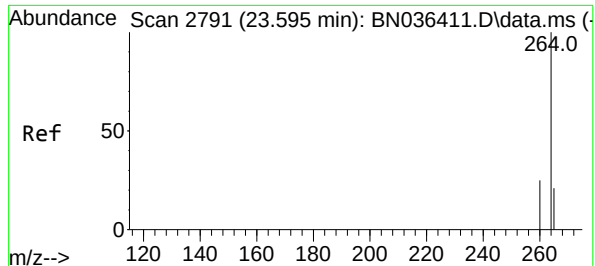
Ion Ratio Lower Upper

149 100

167 27.0 21.2 31.8

279 2.9 2.7 4.1





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.595 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036412.D

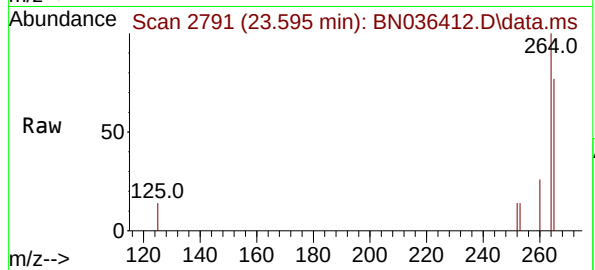
Acq: 10 Feb 2025 14:12

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8



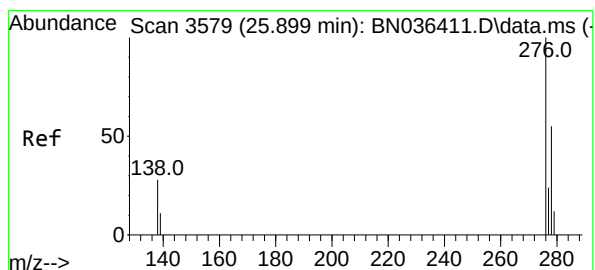
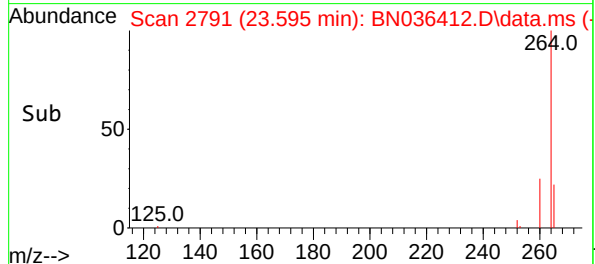
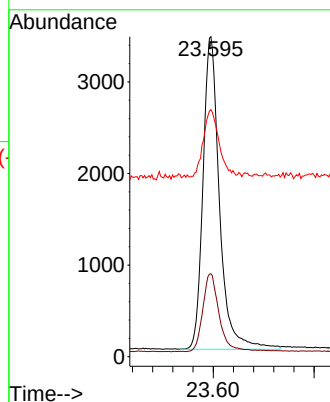
Tgt Ion:264 Resp: 7758

Ion Ratio Lower Upper

264 100

260 25.9 20.9 31.3

265 77.2 60.7 91.1



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.708 ng

RT: 25.893 min Scan# 3577

Delta R.T. -0.006 min

Lab File: BN036412.D

Acq: 10 Feb 2025 14:12

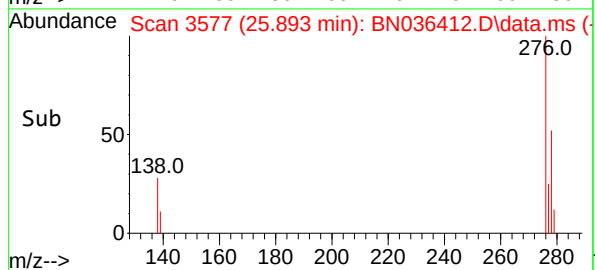
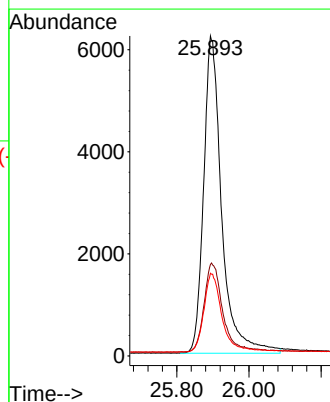
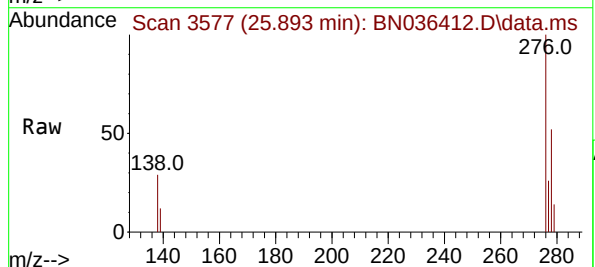
Tgt Ion:276 Resp: 21570

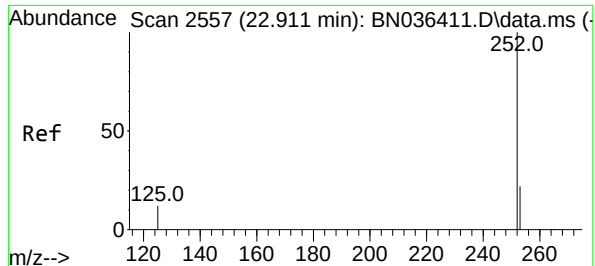
Ion Ratio Lower Upper

276 100

138 28.9 22.2 33.2

277 23.9 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.727 ng

RT: 22.908 min Scan# 2556

Delta R.T. -0.003 min

Lab File: BN036412.D

Acq: 10 Feb 2025 14:12

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

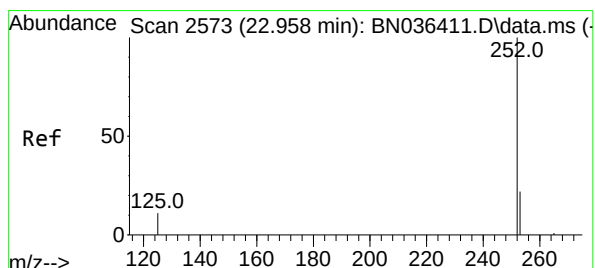
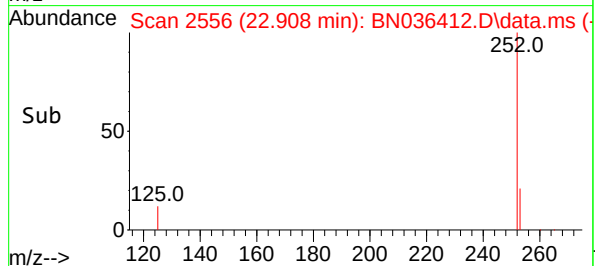
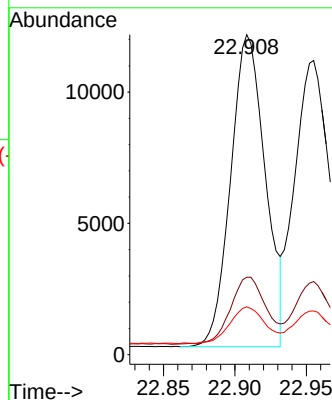
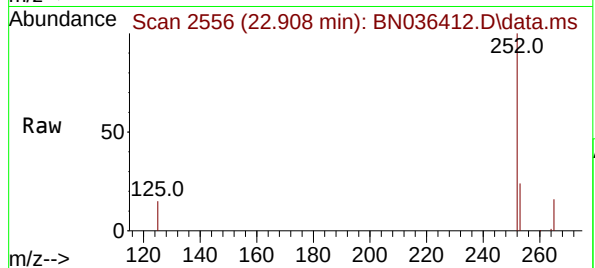
Tgt Ion:252 Resp: 20019

Ion Ratio Lower Upper

252 100

253 24.2 21.9 32.9

125 15.0 15.0 22.6#



#38

Benzo(k)fluoranthene

Concen: 0.733 ng

RT: 22.955 min Scan# 2572

Delta R.T. -0.003 min

Lab File: BN036412.D

Acq: 10 Feb 2025 14:12

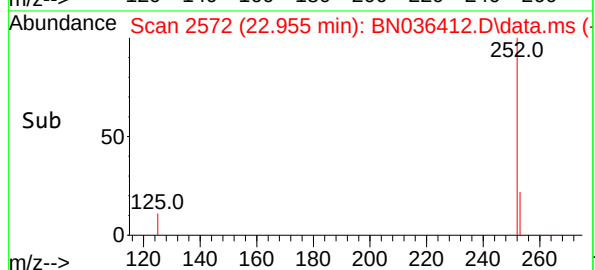
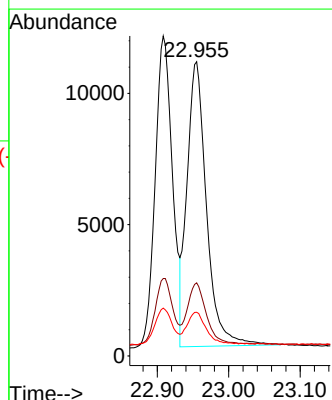
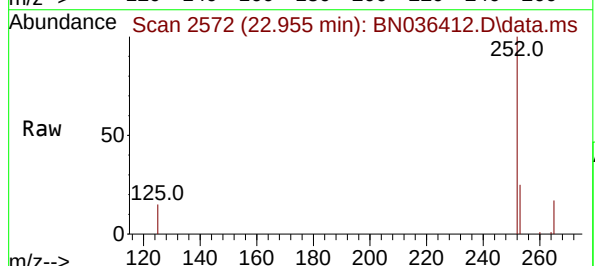
Tgt Ion:252 Resp: 20570

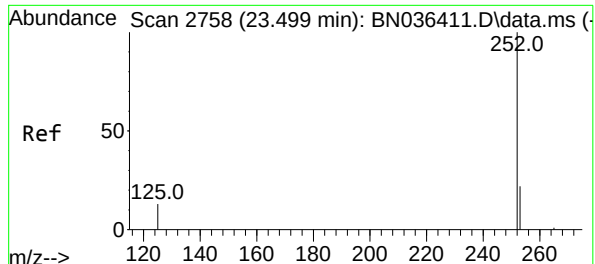
Ion Ratio Lower Upper

252 100

253 24.9 22.2 33.4

125 14.8 15.0 22.4#





#39

Benzo(a)pyrene

Concen: 0.731 ng

RT: 23.493 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN036412.D

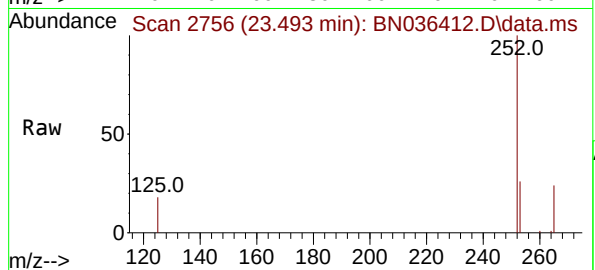
Acq: 10 Feb 2025 14:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



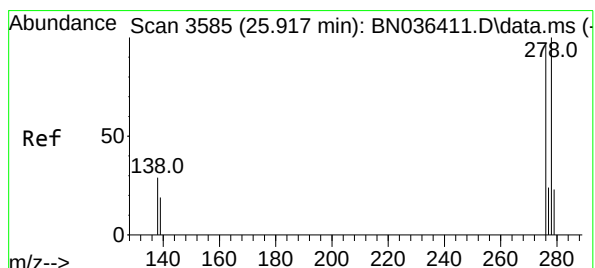
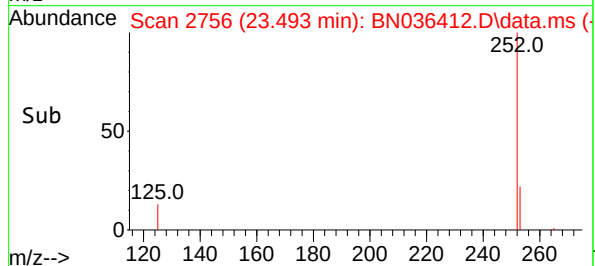
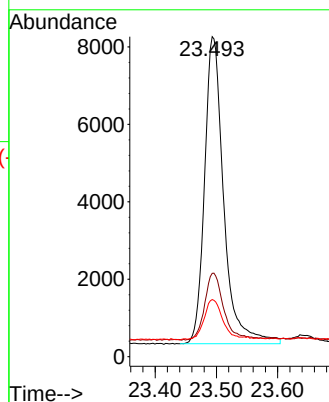
Tgt Ion:252 Resp: 17289

Ion Ratio Lower Upper

252 100

253 26.0 24.4 36.6

125 17.9 18.2 27.2#



#40

Dibenzo(a,h)anthracene

Concen: 0.697 ng

RT: 25.911 min Scan# 3583

Delta R.T. -0.006 min

Lab File: BN036412.D

Acq: 10 Feb 2025 14:12

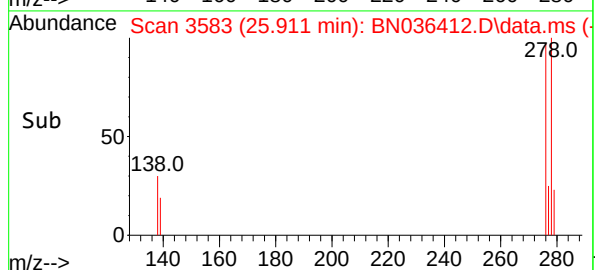
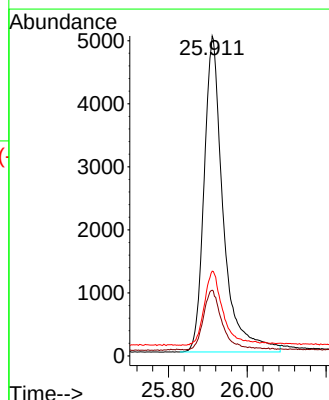
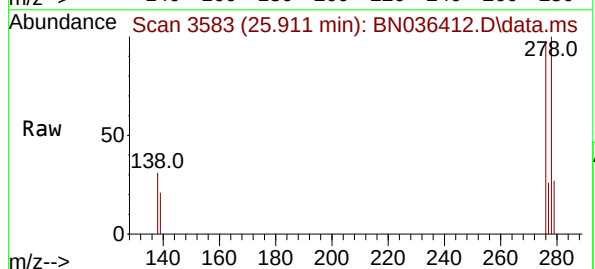
Tgt Ion:278 Resp: 16872

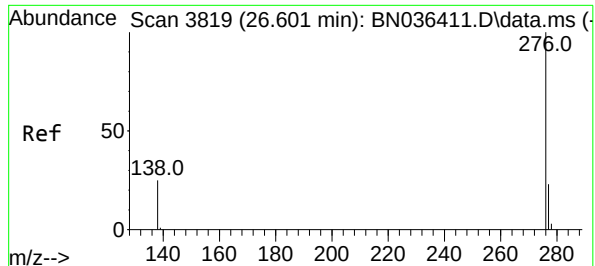
Ion Ratio Lower Upper

278 100

139 20.6 18.5 27.7

279 26.5 24.8 37.2





#41

Benzo(g,h,i)perylene

Concen: 0.718 ng

RT: 26.598 min Scan# 3818

Delta R.T. -0.003 min

Lab File: BN036412.D

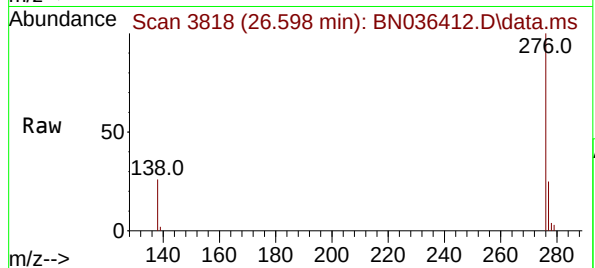
Acq: 10 Feb 2025 14:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



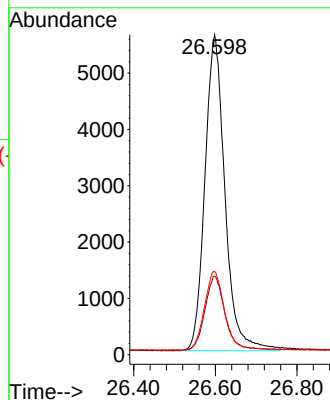
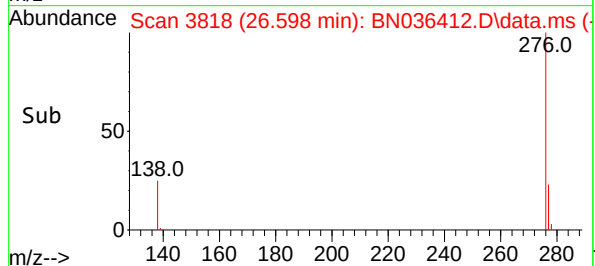
Tgt Ion:276 Resp: 19078

Ion Ratio Lower Upper

276 100

277 24.6 20.7 31.1

138 26.0 21.8 32.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
 Data File : BN036413.D
 Acq On : 10 Feb 2025 14:48
 Operator : RC/JU
 Sample : SSTDICC1.6
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC1.6

Quant Time: Feb 11 00:36:38 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 00:33:05 2025
 Response via : Initial Calibration

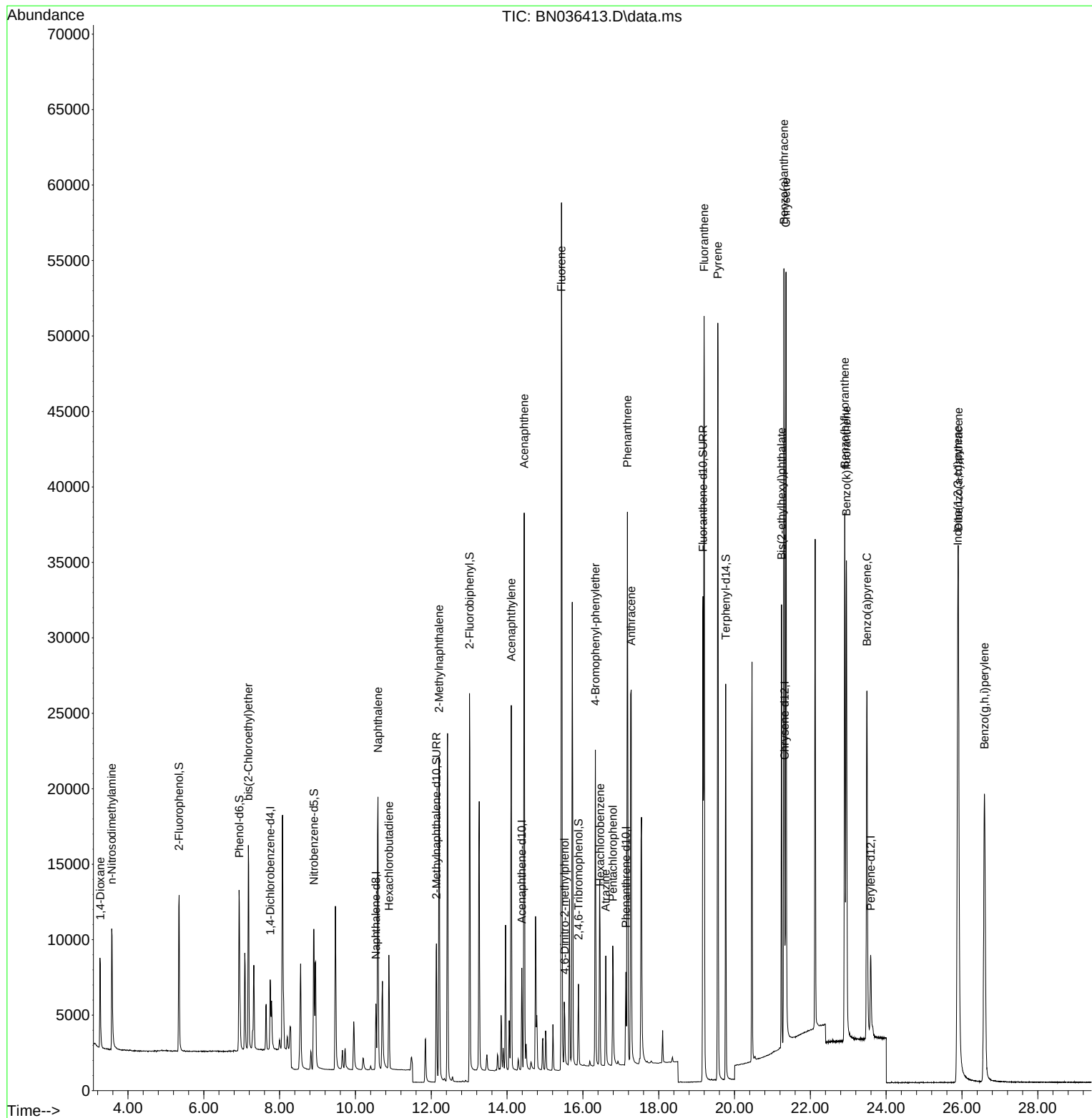
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.753	152	2193	0.400	ng	0.00
7) Naphthalene-d8	10.541	136	5625	0.400	ng	0.00
13) Acenaphthene-d10	14.388	164	3645	0.400	ng	0.00
19) Phenanthrene-d10	17.136	188	8137	0.400	ng	0.00
29) Chrysene-d12	21.322	240	7773	0.400	ng	# 0.00
35) Perylene-d12	23.592	264	7967	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.348	112	8016	1.436	ng	0.00
5) Phenol-d6	6.937	99	9644	1.481	ng	0.00
8) Nitrobenzene-d5	8.907	82	8250	1.574	ng	0.00
11) 2-Methylnaphthalene-d10	12.136	152	13436	1.746	ng	0.00
14) 2,4,6-Tribromophenol	15.882	330	2844	1.266	ng	0.00
15) 2-Fluorobiphenyl	13.008	172	22810	1.467	ng	-0.01
27) Fluoranthene-d10	19.169	212	35740	1.707	ng	0.00
31) Terphenyl-d14	19.768	244	25927	1.611	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.268	88	3606	1.487	ng	98
3) n-Nitrosodimethylamine	3.572	42	6208	1.425	ng	99
6) bis(2-Chloroethyl)ether	7.175	93	9821	1.813	ng	98
9) Naphthalene	10.594	128	24185	1.505	ng	97
10) Hexachlorobutadiene	10.882	225	5933	1.178	ng	# 100
12) 2-Methylnaphthalene	12.207	142	16325	1.617	ng	99
16) Acenaphthylene	14.110	152	25289	1.499	ng	100
17) Acenaphthene	14.452	154	17130	1.483	ng	97
18) Fluorene	15.435	166	24341	1.638	ng	100
20) 4,6-Dinitro-2-methylph...	15.522	198	2725	1.497	ng	# 47
21) 4-Bromophenyl-phenylether	16.329	248	7690	1.379	ng	91
22) Hexachlorobenzene	16.453	284	9401	1.292	ng	97
23) Atrazine	16.602	200	6316	1.541	ng	95
24) Pentachlorophenol	16.789	266	4352	1.368	ng	99
25) Phenanthrene	17.173	178	37027	1.552	ng	100
26) Anthracene	17.273	178	33031	1.524	ng	99
28) Fluoranthene	19.197	202	45708	1.617	ng	99
30) Pyrene	19.559	202	46256	1.489	ng	100
32) Benzo(a)anthracene	21.304	228	40416	1.463	ng	99
33) Chrysene	21.357	228	43661	1.542	ng	97
34) Bis(2-ethylhexyl)phtha...	21.241	149	23672	1.538	ng	99
36) Indeno(1,2,3-cd)pyrene	25.890	276	46083	1.472	ng	98
37) Benzo(b)fluoranthene	22.908	252	42491	1.502	ng	# 89
38) Benzo(k)fluoranthene	22.952	252	42933	1.489	ng	# 89
39) Benzo(a)pyrene	23.493	252	36490	1.503	ng	# 86
40) Dibenzo(a,h)anthracene	25.905	278	36765	1.478	ng	# 90
41) Benzo(g,h,i)perylene	26.592	276	40441	1.482	ng	98

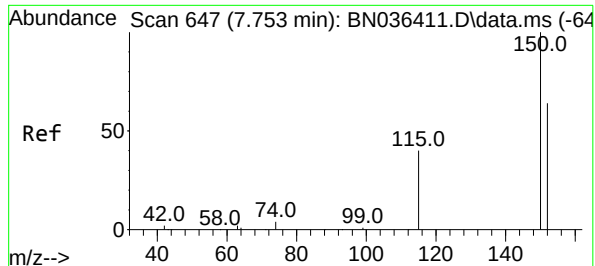
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
Data File : BN036413.D
Acq On : 10 Feb 2025 14:48
Operator : RC/JU
Sample : SSTDIC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDIC1.6

Quant Time: Feb 11 00:36:38 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 11 00:33:05 2025
Response via : Initial Calibration

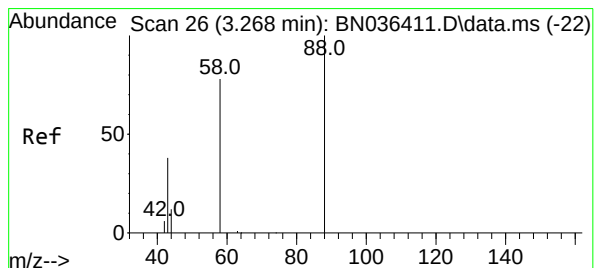
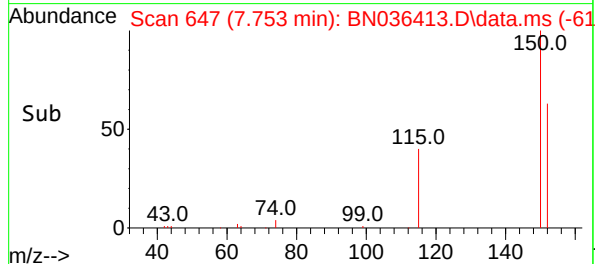
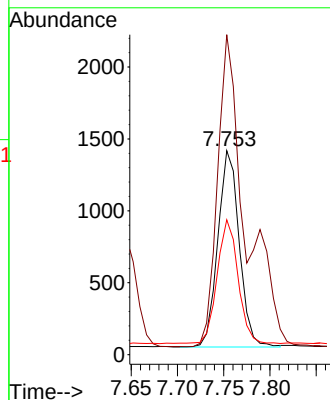
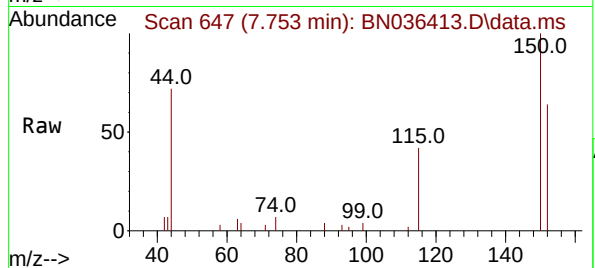




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.753 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036413.D
Acq: 10 Feb 2025 14:48

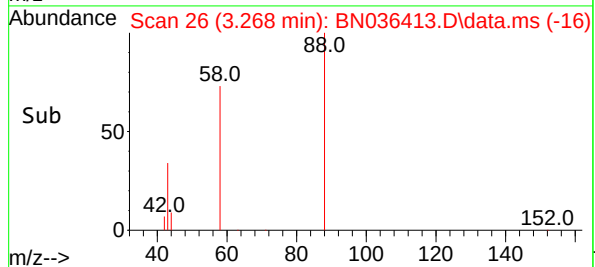
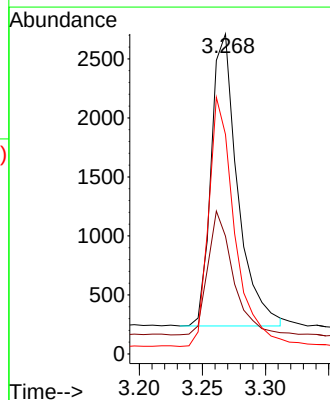
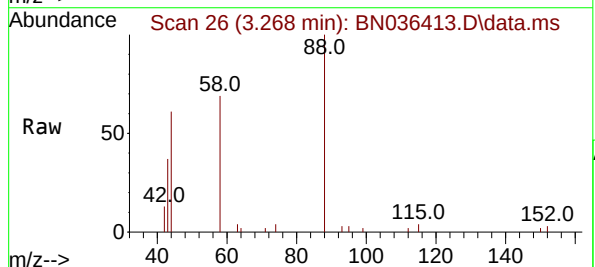
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

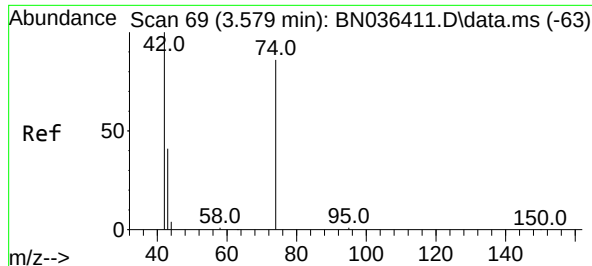
Tgt Ion:152 Resp: 2193
Ion Ratio Lower Upper
152 100
150 156.9 123.7 185.5
115 66.1 52.5 78.7



#2
1,4-Dioxane
Concen: 1.487 ng
RT: 3.268 min Scan# 26
Delta R.T. -0.000 min
Lab File: BN036413.D
Acq: 10 Feb 2025 14:48

Tgt Ion: 88 Resp: 3606
Ion Ratio Lower Upper
88 100
43 40.7 33.7 50.5
58 84.0 68.9 103.3

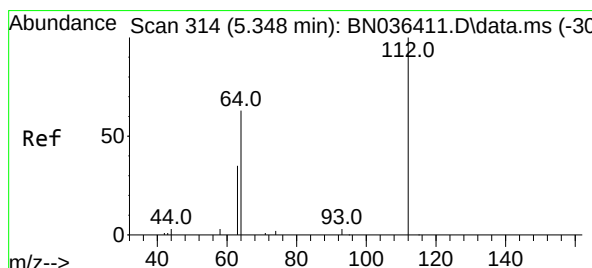
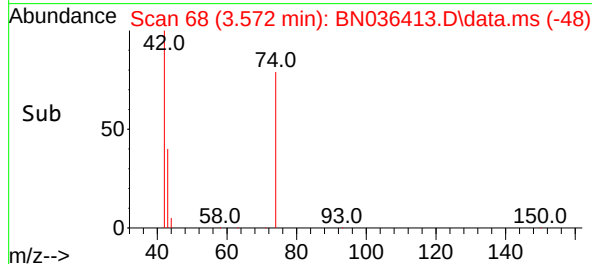
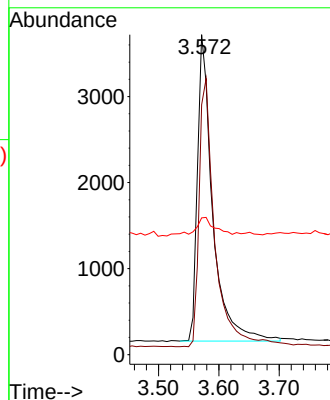
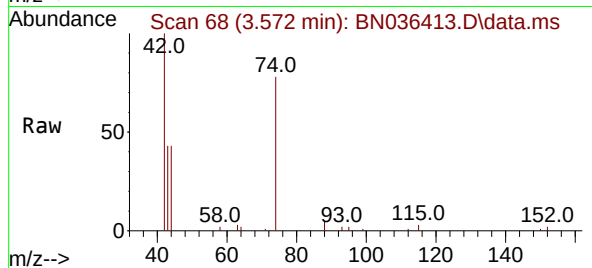




#3
n-Nitrosodimethylamine
Concen: 1.425 ng
RT: 3.572 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN036413.D
Acq: 10 Feb 2025 14:48

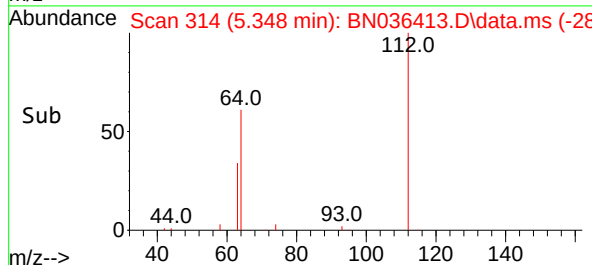
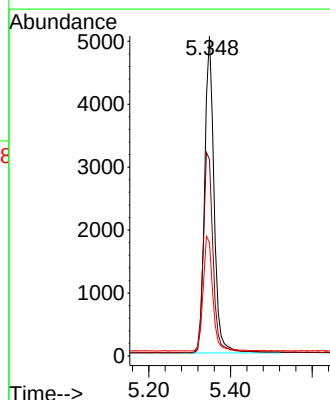
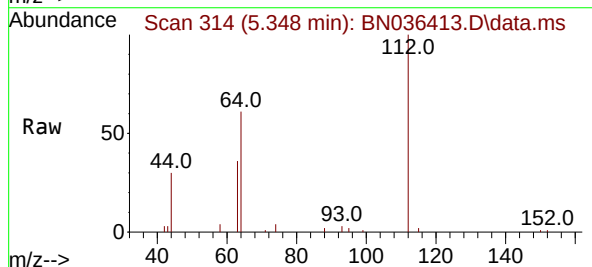
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

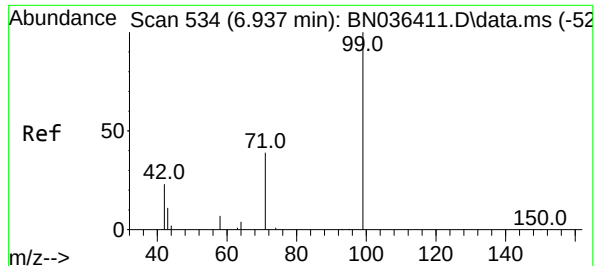
Tgt Ion: 42 Resp: 6208
Ion Ratio Lower Upper
42 100
74 90.8 71.8 107.6
44 7.9 7.8 11.6



#4
2-Fluorophenol
Concen: 1.436 ng
RT: 5.348 min Scan# 314
Delta R.T. -0.000 min
Lab File: BN036413.D
Acq: 10 Feb 2025 14:48

Tgt Ion: 112 Resp: 8016
Ion Ratio Lower Upper
112 100
64 65.9 53.4 80.0
63 37.6 30.3 45.5

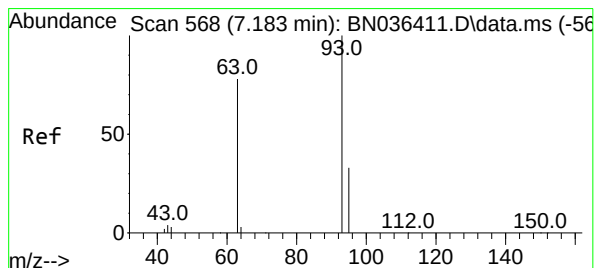
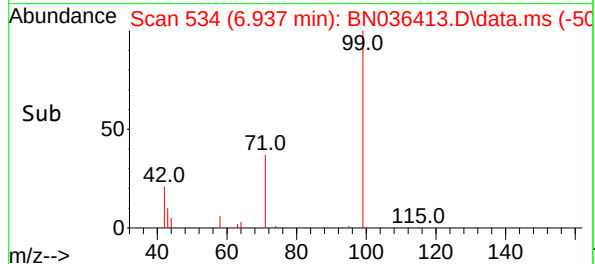
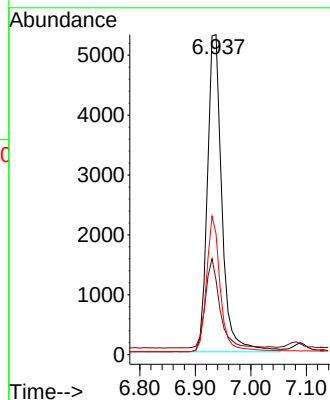
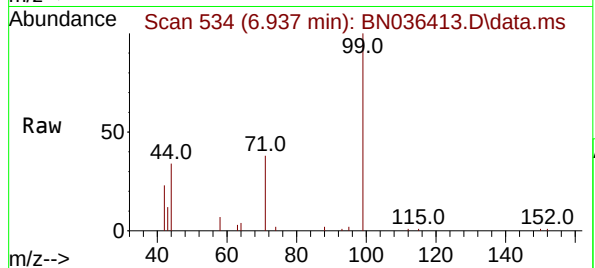




#5
Phenol-d6
Concen: 1.481 ng
RT: 6.937 min Scan# 511
Delta R.T. -0.000 min
Lab File: BN036413.D
Acq: 10 Feb 2025 14:48

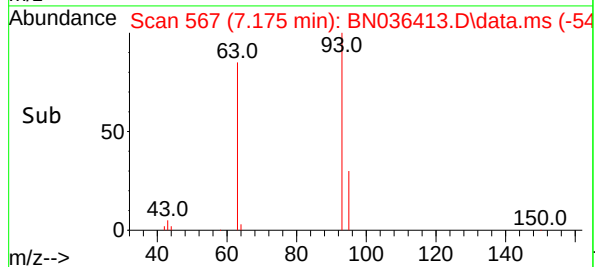
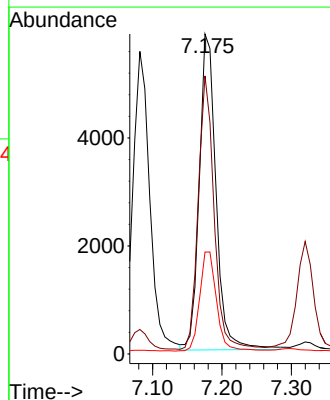
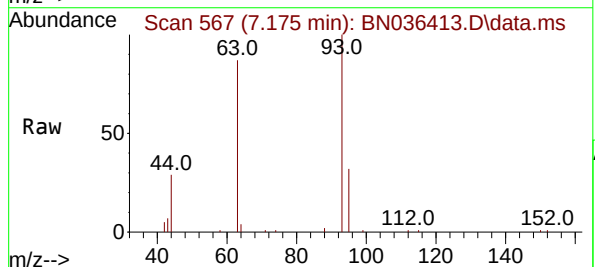
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

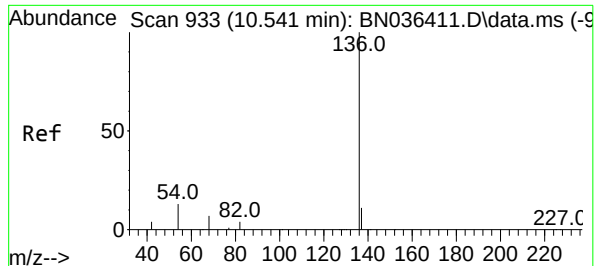
Tgt Ion:	99	Resp:	9644
Ion	Ratio	Lower	Upper
99	100		
42	27.7	21.7	32.5
71	41.1	32.6	49.0



#6
bis(2-Chloroethyl)ether
Concen: 1.813 ng
RT: 7.175 min Scan# 567
Delta R.T. -0.007 min
Lab File: BN036413.D
Acq: 10 Feb 2025 14:48

Tgt Ion:	93	Resp:	9821
Ion	Ratio	Lower	Upper
93	100		
63	81.0	66.3	99.5
95	31.5	26.2	39.4

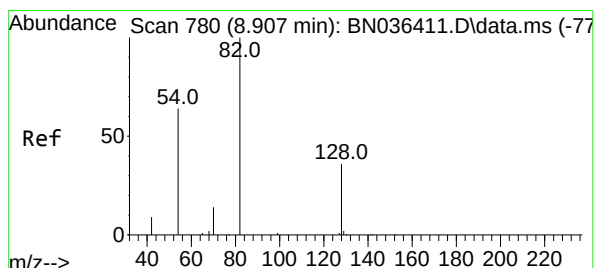
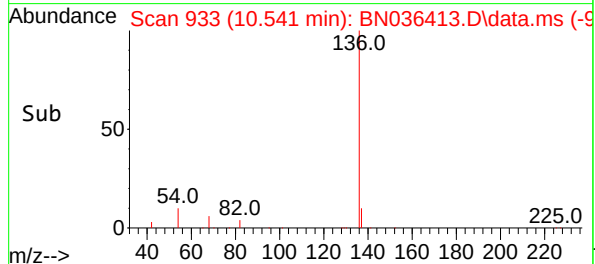
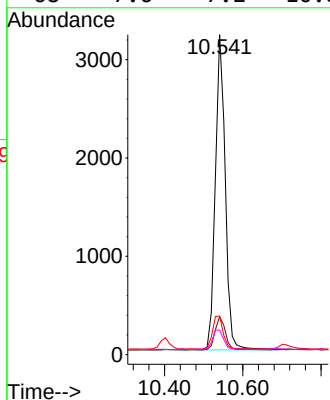
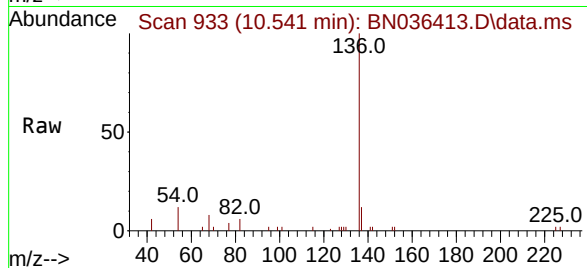




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.541 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN036413.D
Acq: 10 Feb 2025 14:48

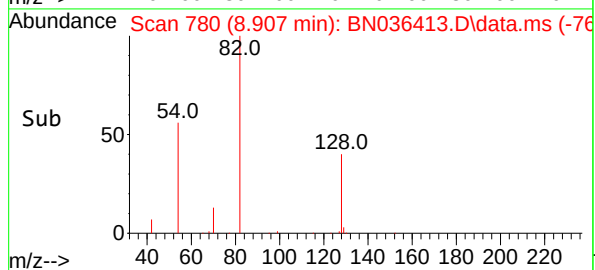
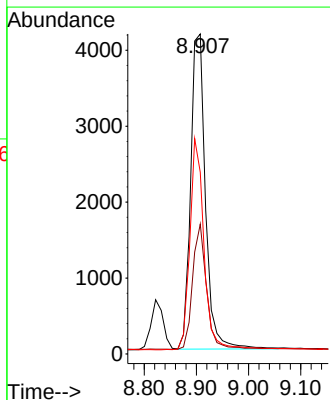
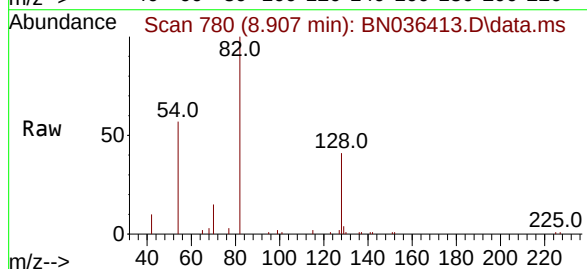
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

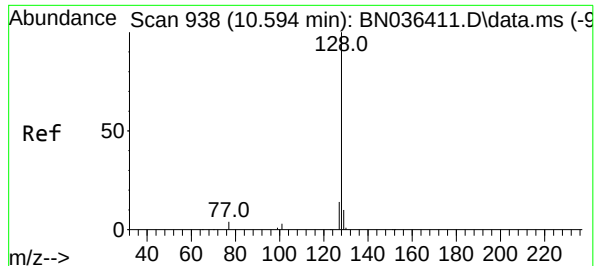
Tgt Ion:	136	Resp:	5625
Ion	Ratio	Lower	Upper
136	100		
137	11.9	10.1	15.1
54	12.0	11.8	17.6
68	7.6	7.2	10.8



#8
Nitrobenzene-d5
Concen: 1.574 ng
RT: 8.907 min Scan# 780
Delta R.T. -0.000 min
Lab File: BN036413.D
Acq: 10 Feb 2025 14:48

Tgt Ion:	82	Resp:	8250
Ion	Ratio	Lower	Upper
82	100		
128	40.6	31.9	47.9
54	56.8	53.1	79.7





#9
Naphthalene

Concen: 1.505 ng

RT: 10.594 min Scan# 91

Delta R.T. -0.000 min

Lab File: BN036413.D

Acq: 10 Feb 2025 14:48

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

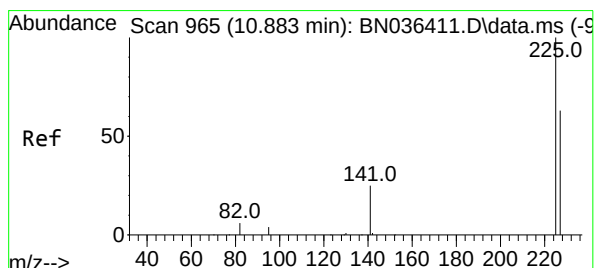
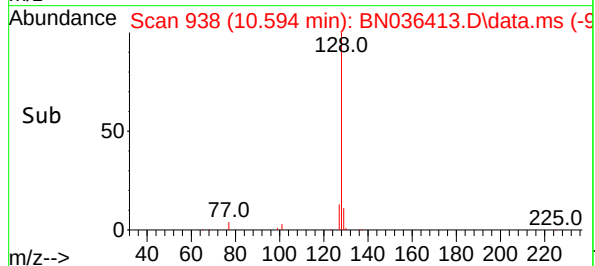
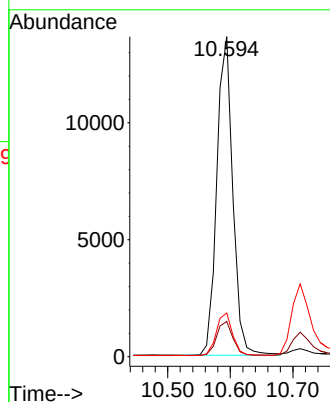
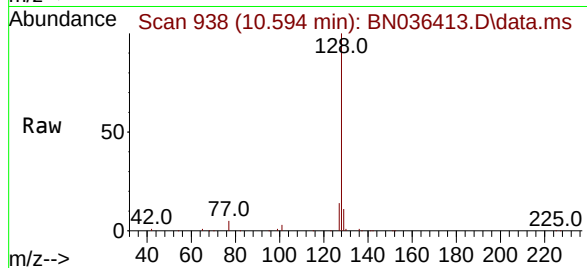
Tgt Ion:128 Resp: 24185

Ion Ratio Lower Upper

128 100

129 11.0 9.6 14.4

127 13.7 12.0 18.0



#10

Hexachlorobutadiene

Concen: 1.178 ng

RT: 10.882 min Scan# 965

Delta R.T. -0.000 min

Lab File: BN036413.D

Acq: 10 Feb 2025 14:48

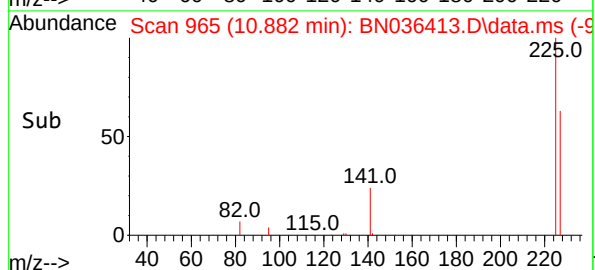
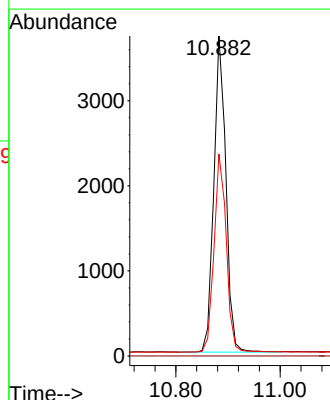
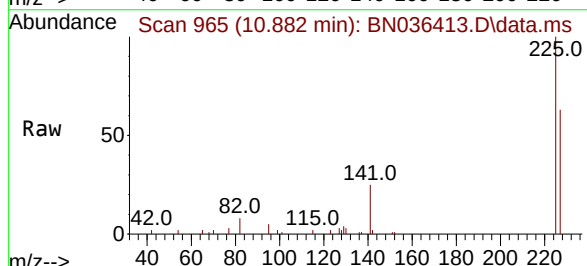
Tgt Ion:225 Resp: 5933

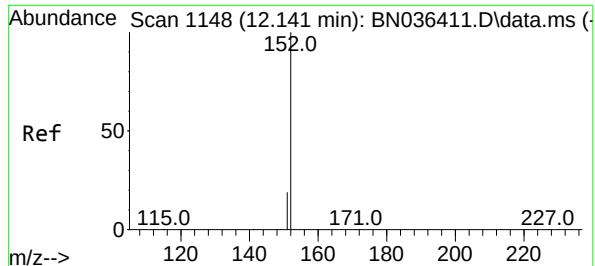
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.8 50.9 76.3

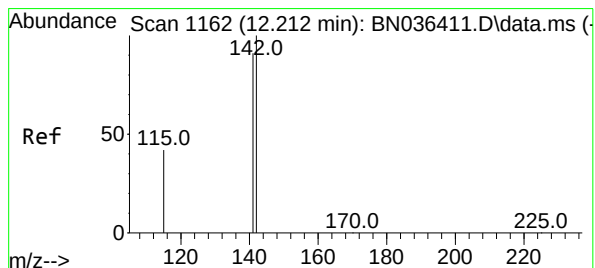
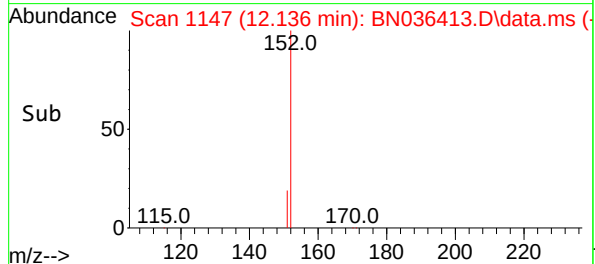
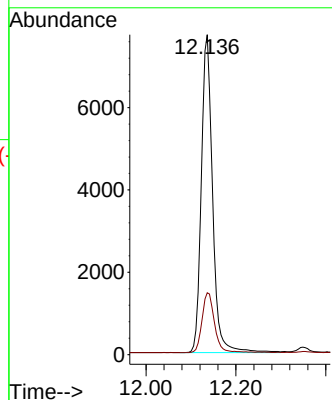
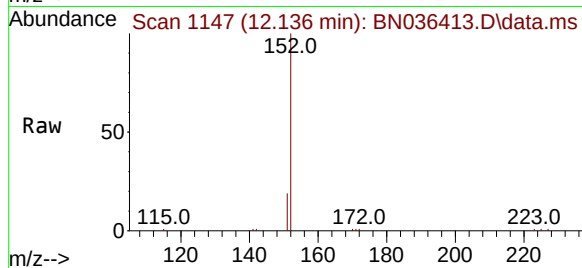




#11
2-Methylnaphthalene-d10
Concen: 1.746 ng
RT: 12.136 min Scan# 1147
Delta R.T. -0.005 min
Lab File: BN036413.D
Acq: 10 Feb 2025 14:48

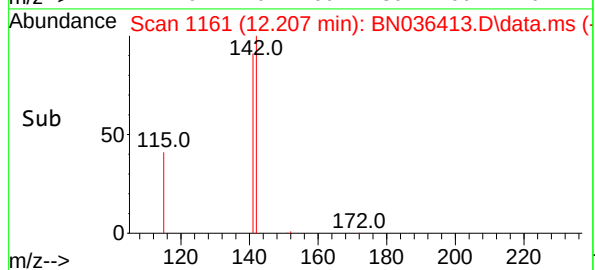
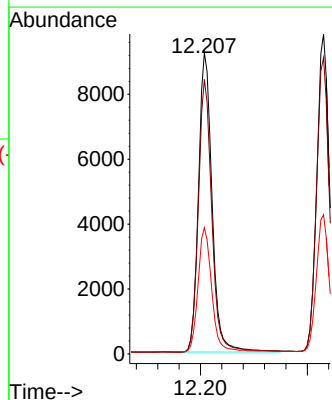
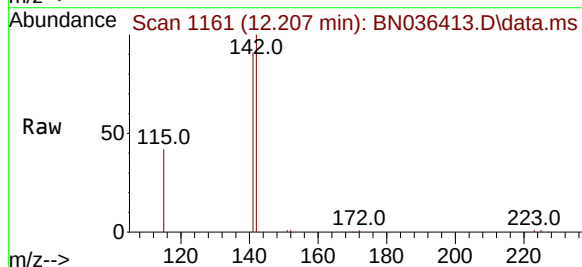
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

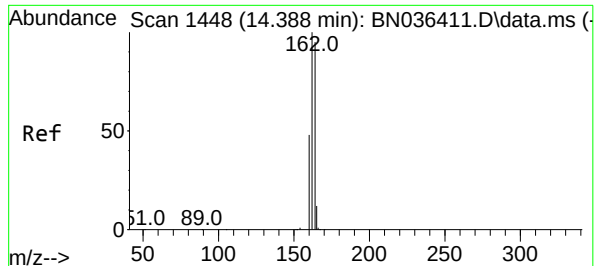
Tgt Ion:152 Resp: 13436
Ion Ratio Lower Upper
152 100
151 20.8 16.6 25.0



#12
2-Methylnaphthalene
Concen: 1.617 ng
RT: 12.207 min Scan# 1161
Delta R.T. -0.005 min
Lab File: BN036413.D
Acq: 10 Feb 2025 14:48

Tgt Ion:142 Resp: 16325
Ion Ratio Lower Upper
142 100
141 91.0 72.8 109.2
115 41.9 35.5 53.3

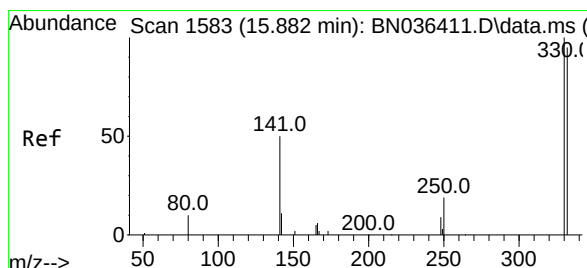
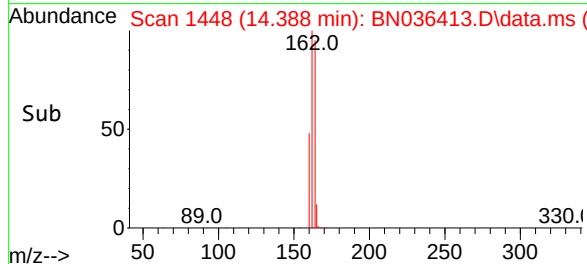
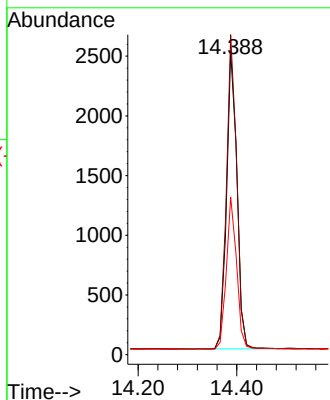
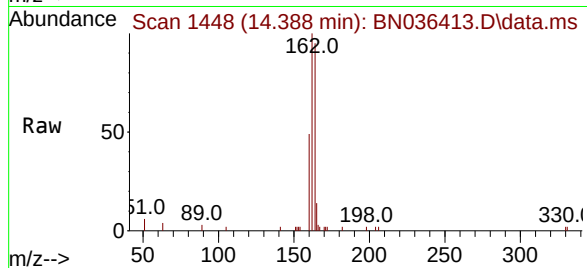




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.388 min Scan# 1448
Delta R.T. -0.000 min
Lab File: BN036413.D
Acq: 10 Feb 2025 14:48

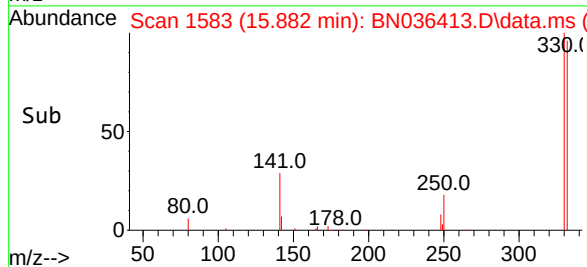
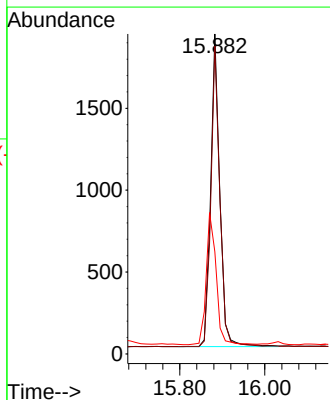
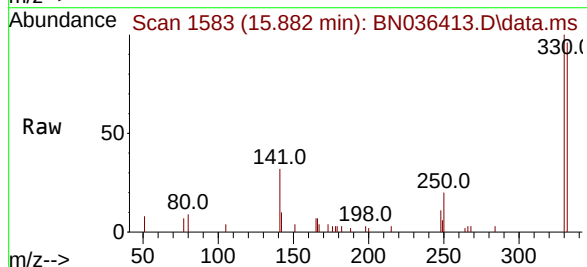
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

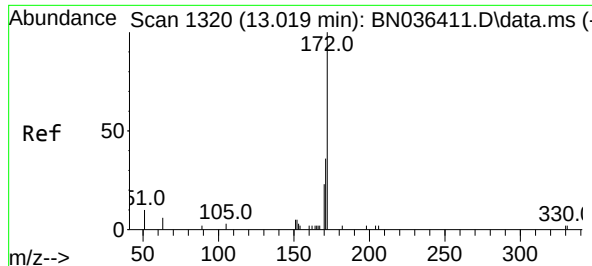
Tgt Ion:164 Resp: 3645
Ion Ratio Lower Upper
164 100
162 105.5 84.1 126.1
160 52.0 41.4 62.0



#14
2,4,6-Tribromophenol
Concen: 1.266 ng
RT: 15.882 min Scan# 1583
Delta R.T. -0.000 min
Lab File: BN036413.D
Acq: 10 Feb 2025 14:48

Tgt Ion:330 Resp: 2844
Ion Ratio Lower Upper
330 100
332 94.6 76.6 114.8
141 46.0 37.8 56.8

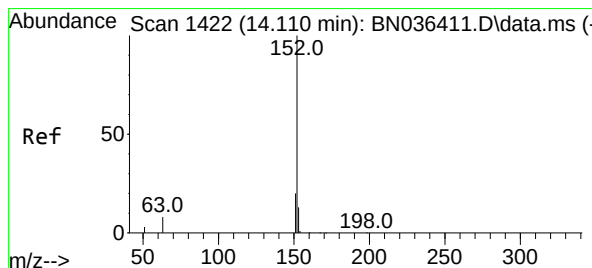
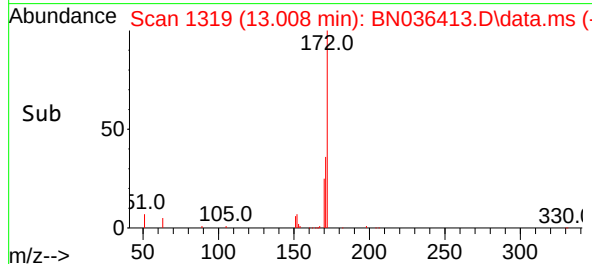
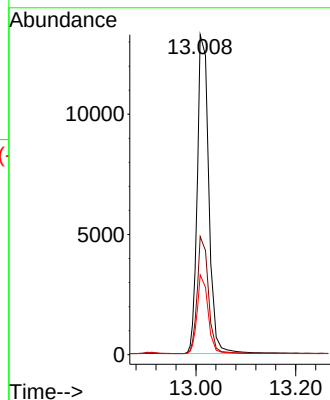
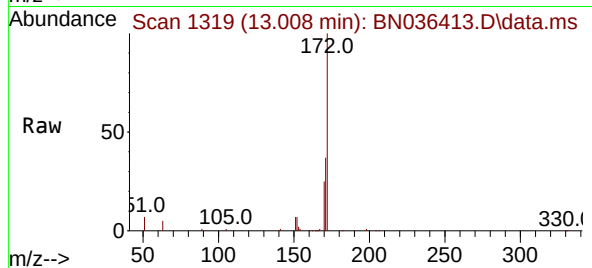




#15
2-Fluorobiphenyl
Concen: 1.467 ng
RT: 13.008 min Scan# 1319
Delta R.T. -0.011 min
Lab File: BN036413.D
Acq: 10 Feb 2025 14:48

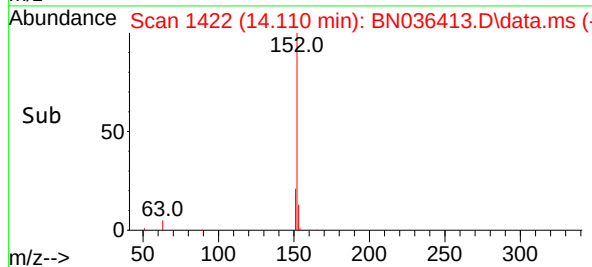
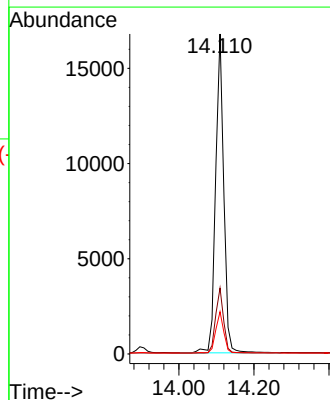
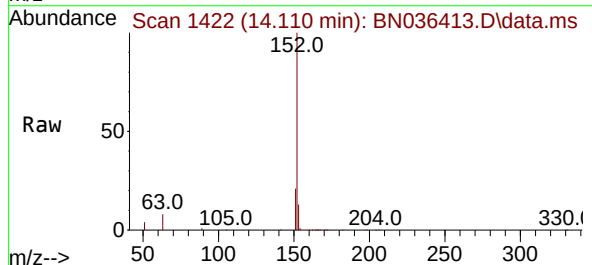
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

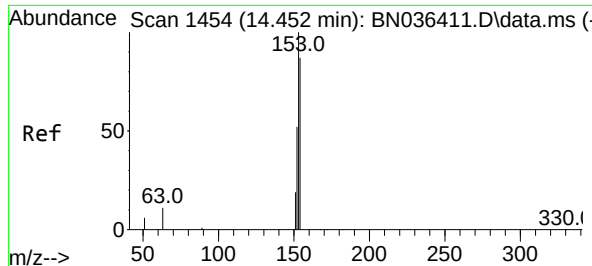
Tgt Ion:172 Resp: 22810
Ion Ratio Lower Upper
172 100
171 36.9 29.6 44.4
170 25.0 19.8 29.6



#16
Acenaphthylene
Concen: 1.499 ng
RT: 14.110 min Scan# 1422
Delta R.T. -0.000 min
Lab File: BN036413.D
Acq: 10 Feb 2025 14:48

Tgt Ion:152 Resp: 25289
Ion Ratio Lower Upper
152 100
151 20.0 15.8 23.8
153 12.9 10.2 15.2





#17

Acenaphthene

Concen: 1.483 ng

RT: 14.452 min Scan# 1454

Delta R.T. -0.000 min

Lab File: BN036413.D

Acq: 10 Feb 2025 14:48

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

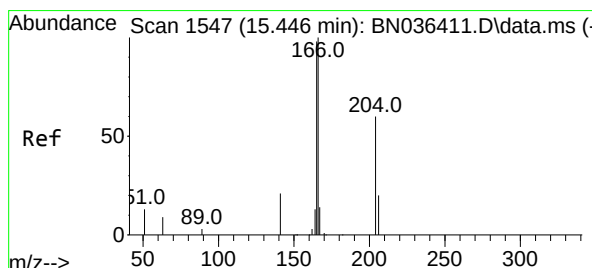
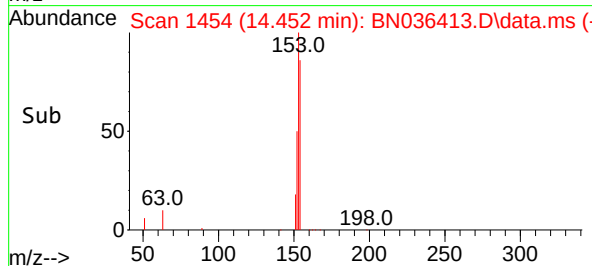
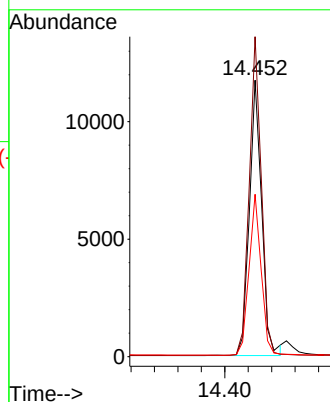
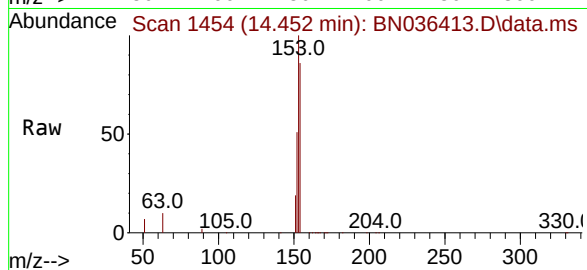
Tgt Ion:154 Resp: 17130

Ion Ratio Lower Upper

154 100

153 114.1 93.3 139.9

152 58.1 48.8 73.2



#18

Fluorene

Concen: 1.638 ng

RT: 15.435 min Scan# 1546

Delta R.T. -0.011 min

Lab File: BN036413.D

Acq: 10 Feb 2025 14:48

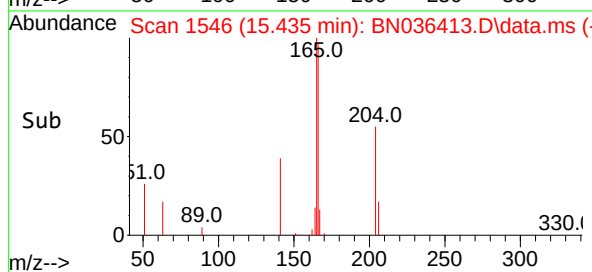
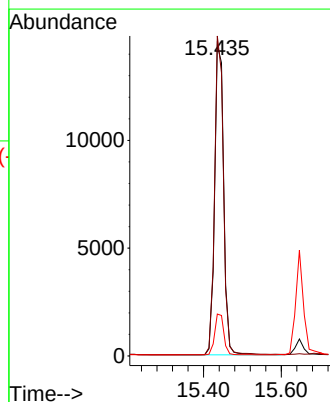
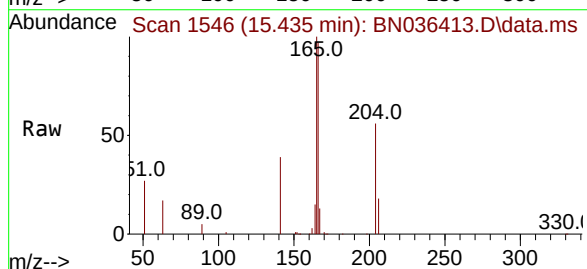
Tgt Ion:166 Resp: 24341

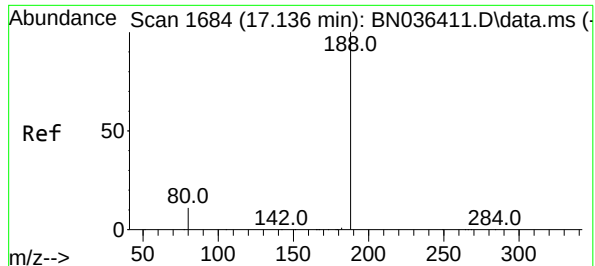
Ion Ratio Lower Upper

166 100

165 99.5 79.5 119.3

167 13.2 10.4 15.6





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.136 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN036413.D

Acq: 10 Feb 2025 14:48

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

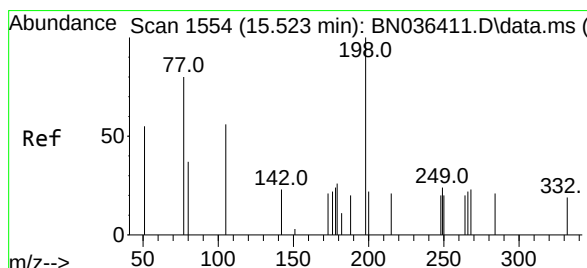
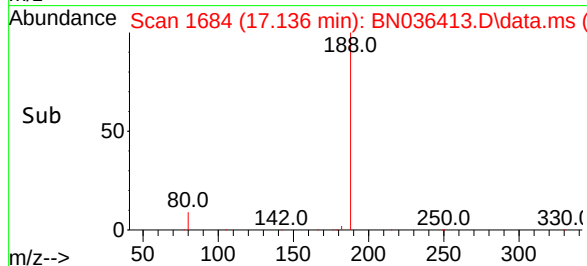
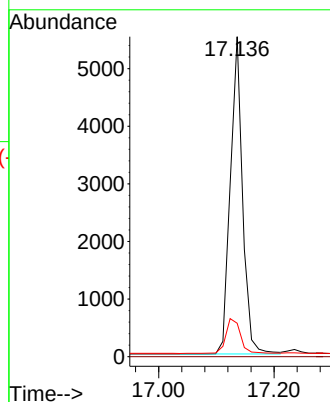
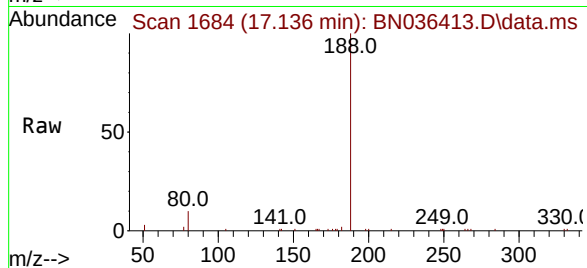
Tgt Ion:188 Resp: 8137

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.5 9.8 14.6



#20

4,6-Dinitro-2-methylphenol

Concen: 1.497 ng

RT: 15.522 min Scan# 1554

Delta R.T. -0.000 min

Lab File: BN036413.D

Acq: 10 Feb 2025 14:48

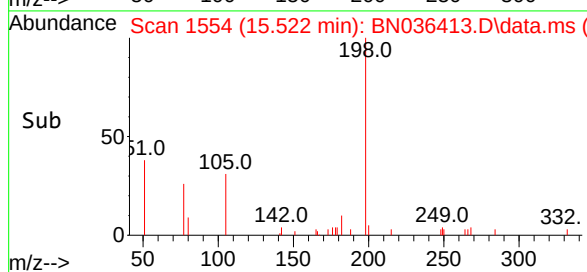
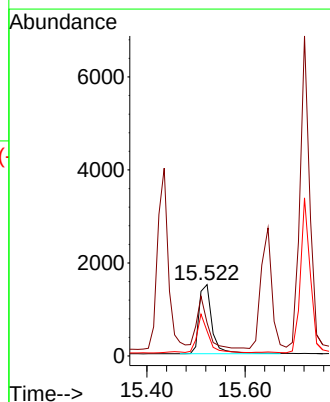
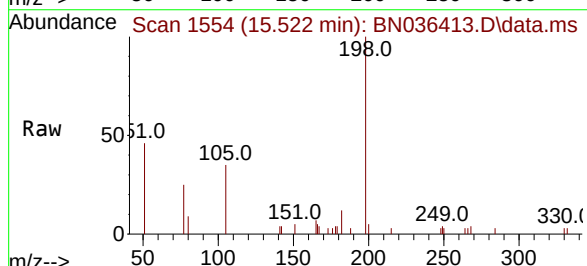
Tgt Ion:198 Resp: 2725

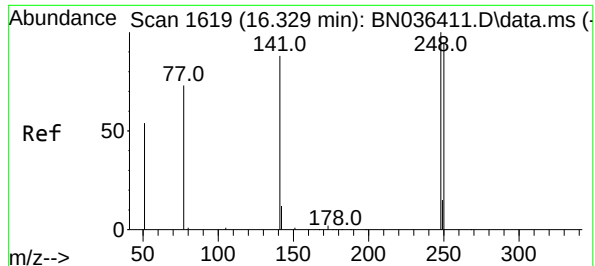
Ion Ratio Lower Upper

198 100

51 46.4 86.6 129.8#

105 34.9 57.5 86.3#

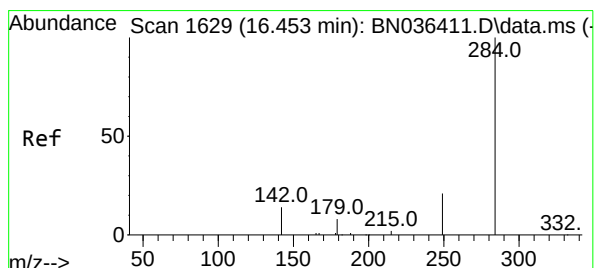
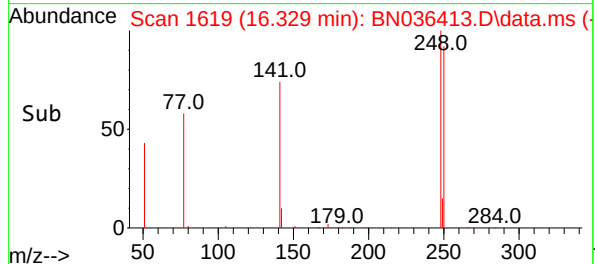
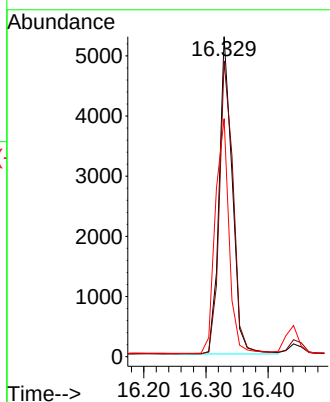
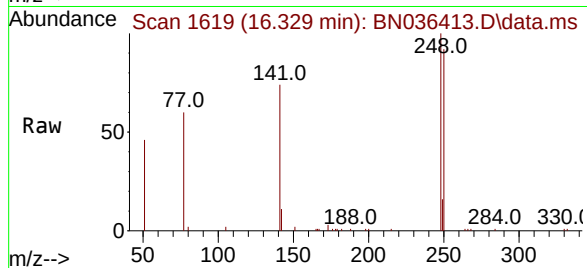




#21
4-Bromophenyl-phenylether
Concen: 1.379 ng
RT: 16.329 min Scan# 1619
Delta R.T. -0.000 min
Lab File: BN036413.D
Acq: 10 Feb 2025 14:48

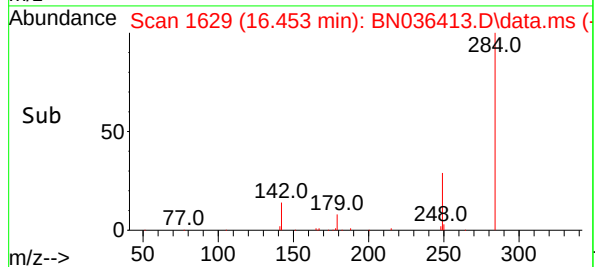
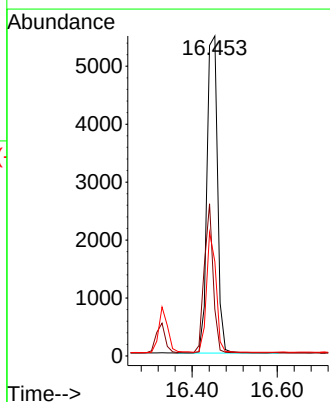
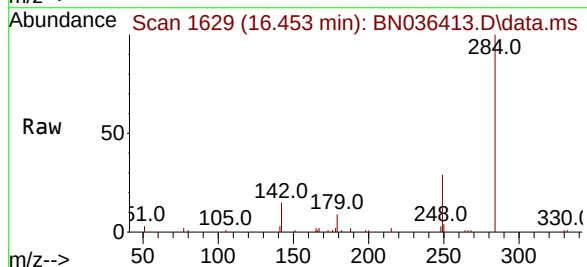
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

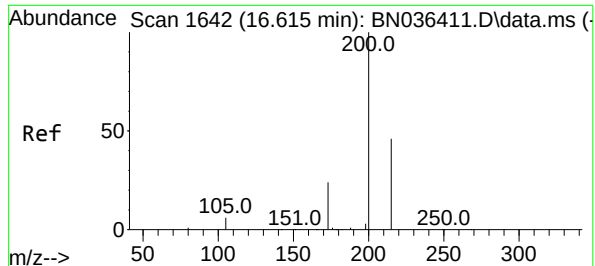
Tgt Ion:248 Resp: 7690
Ion Ratio Lower Upper
248 100
250 92.4 76.1 114.1
141 74.4 71.7 107.5



#22
Hexachlorobenzene
Concen: 1.292 ng
RT: 16.453 min Scan# 1629
Delta R.T. -0.000 min
Lab File: BN036413.D
Acq: 10 Feb 2025 14:48

Tgt Ion:284 Resp: 9401
Ion Ratio Lower Upper
284 100
142 39.9 33.4 50.0
249 34.3 28.6 43.0

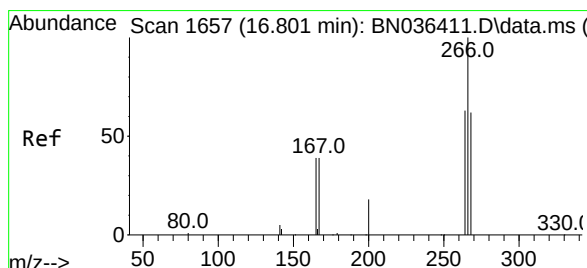
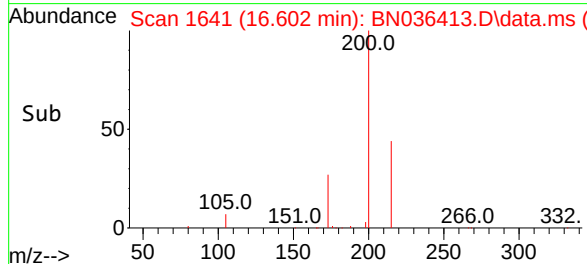
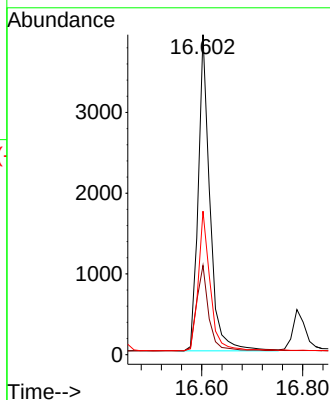
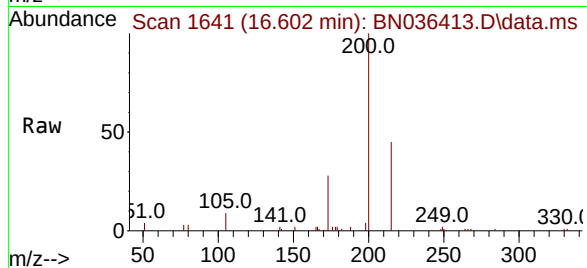




#23
Atrazine
Concen: 1.541 ng
RT: 16.602 min Scan# 1641
Delta R.T. -0.012 min
Lab File: BN036413.D
Acq: 10 Feb 2025 14:48

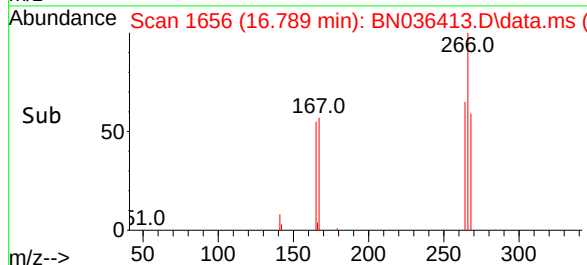
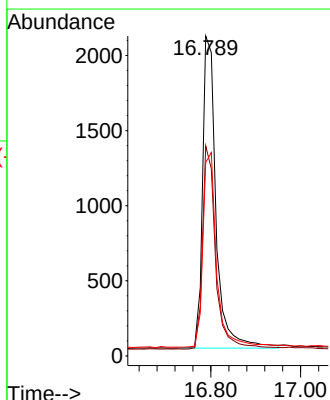
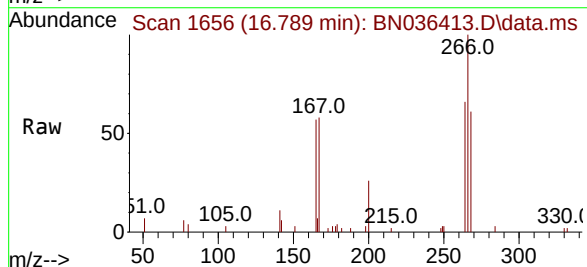
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

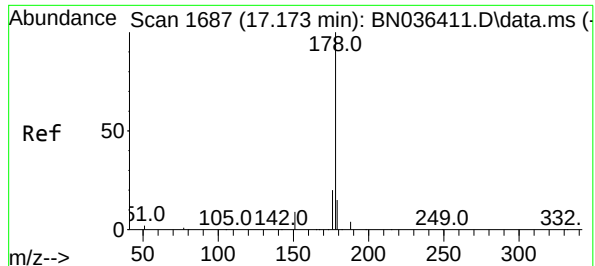
Tgt Ion:200 Resp: 6316
Ion Ratio Lower Upper
200 100
173 27.9 23.2 34.8
215 44.8 40.0 60.0



#24
Pentachlorophenol
Concen: 1.368 ng
RT: 16.789 min Scan# 1656
Delta R.T. -0.012 min
Lab File: BN036413.D
Acq: 10 Feb 2025 14:48

Tgt Ion:266 Resp: 4352
Ion Ratio Lower Upper
266 100
264 63.3 50.6 76.0
268 63.3 51.9 77.9

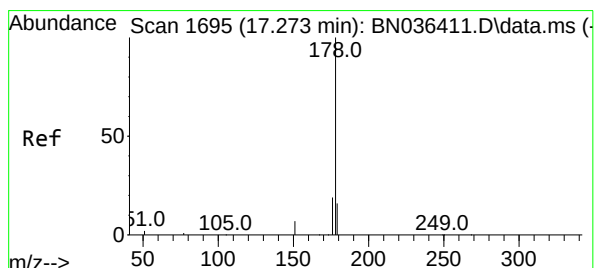
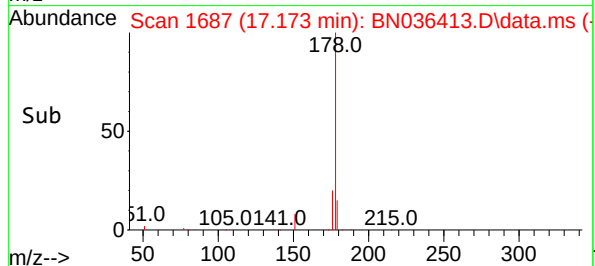
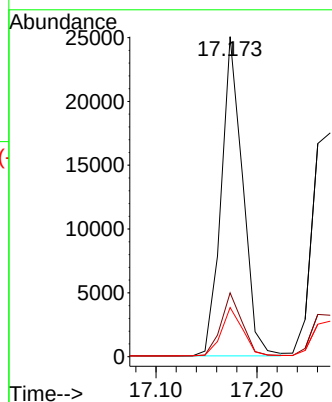
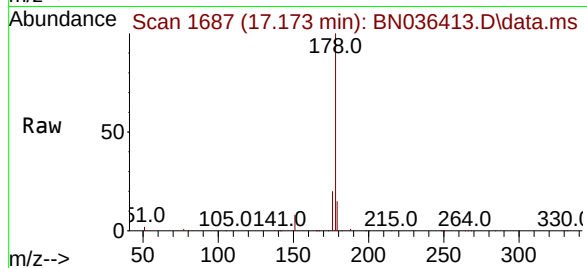




#25
Phenanthrene
Concen: 1.552 ng
RT: 17.173 min Scan# 1687
Delta R.T. -0.000 min
Lab File: BN036413.D
Acq: 10 Feb 2025 14:48

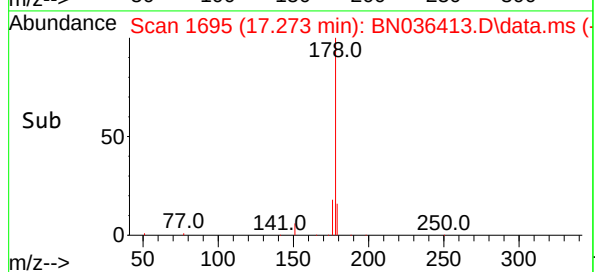
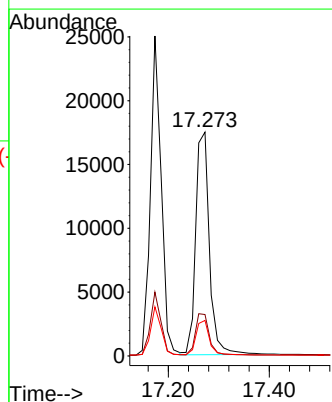
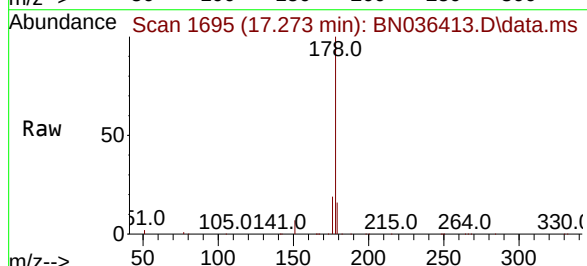
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

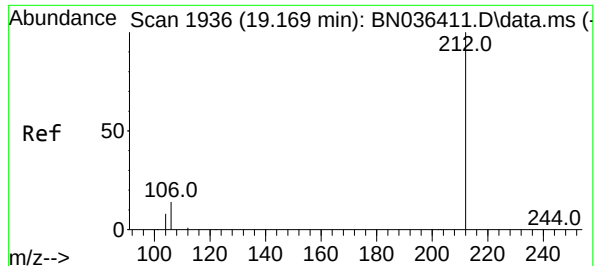
Tgt Ion:178 Resp: 37027
Ion Ratio Lower Upper
178 100
176 19.6 15.7 23.5
179 15.1 12.4 18.6



#26
Anthracene
Concen: 1.524 ng
RT: 17.273 min Scan# 1695
Delta R.T. -0.000 min
Lab File: BN036413.D
Acq: 10 Feb 2025 14:48

Tgt Ion:178 Resp: 33031
Ion Ratio Lower Upper
178 100
176 18.9 14.9 22.3
179 15.2 12.4 18.6





#27

Fluoranthene-d10

Concen: 1.707 ng

RT: 19.169 min Scan# 1936

Delta R.T. -0.000 min

Lab File: BN036413.D

Acq: 10 Feb 2025 14:48

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

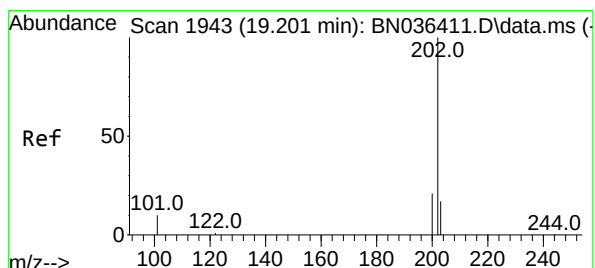
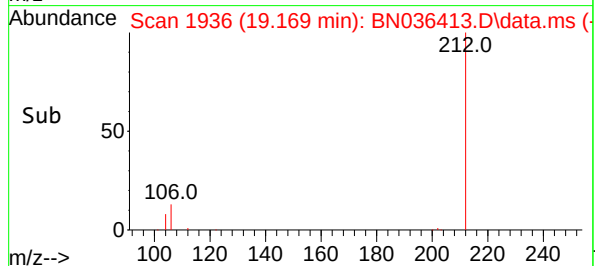
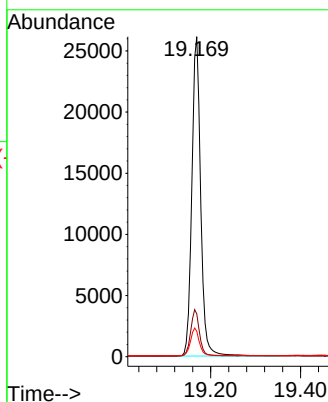
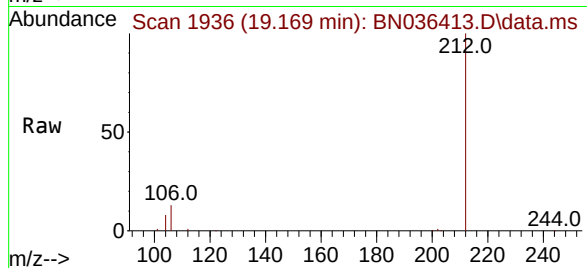
Tgt Ion:212 Resp: 35740

Ion Ratio Lower Upper

212 100

106 14.4 11.5 17.3

104 8.5 7.1 10.7



#28

Fluoranthene

Concen: 1.617 ng

RT: 19.197 min Scan# 1942

Delta R.T. -0.005 min

Lab File: BN036413.D

Acq: 10 Feb 2025 14:48

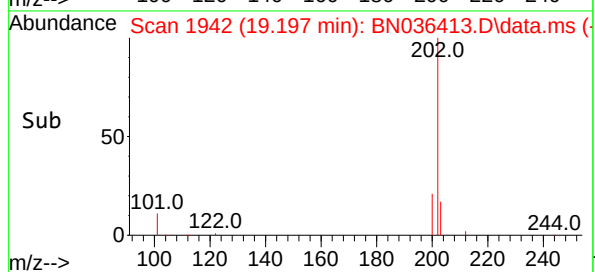
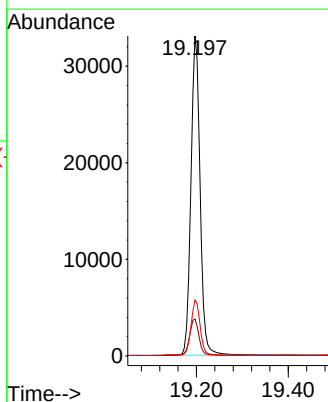
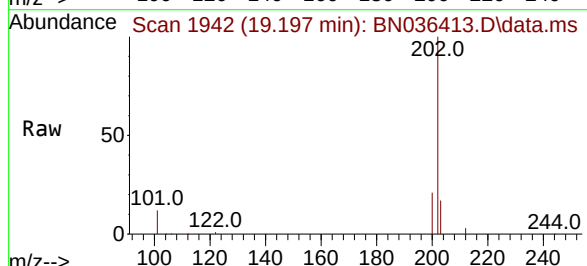
Tgt Ion:202 Resp: 45708

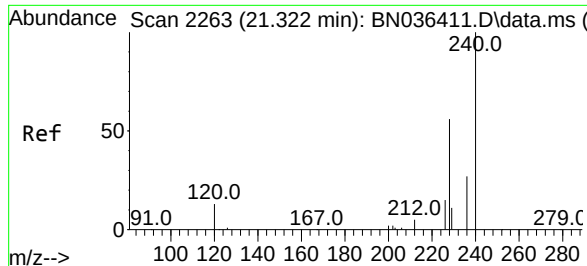
Ion Ratio Lower Upper

202 100

101 11.8 9.2 13.8

203 17.0 13.4 20.0





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.322 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036413.D

Acq: 10 Feb 2025 14:48

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

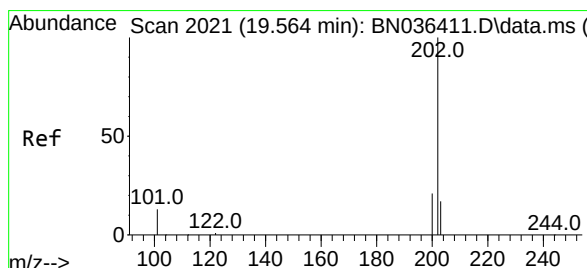
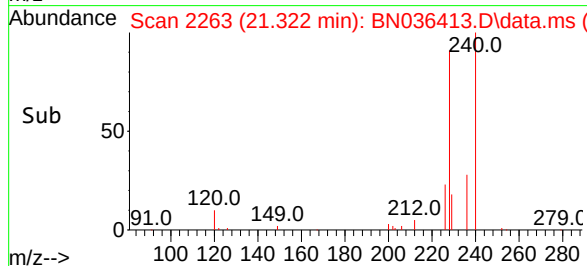
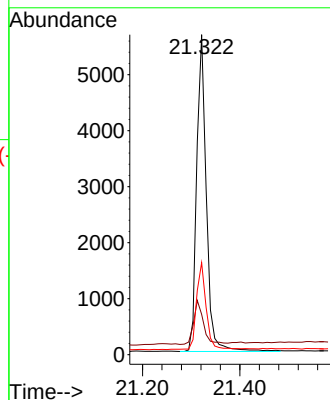
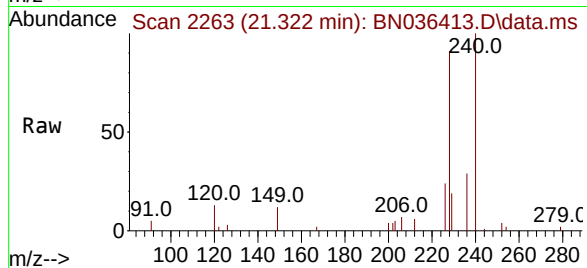
Tgt Ion:240 Resp: 7773

Ion Ratio Lower Upper

240 100

120 12.6 13.3 19.9#

236 28.8 23.0 34.6



#30

Pyrene

Concen: 1.489 ng

RT: 19.559 min Scan# 2020

Delta R.T. -0.005 min

Lab File: BN036413.D

Acq: 10 Feb 2025 14:48

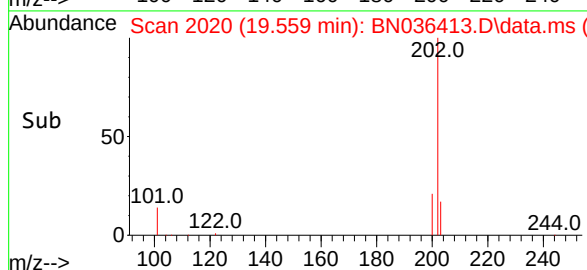
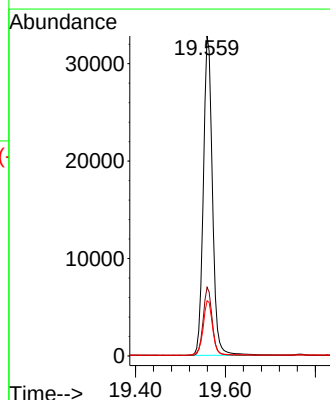
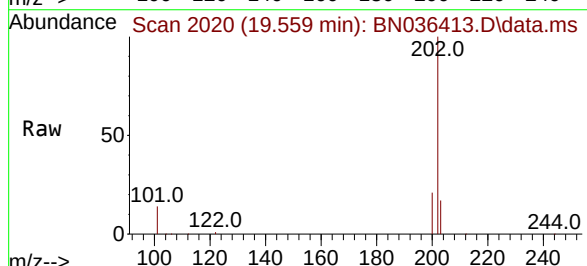
Tgt Ion:202 Resp: 46256

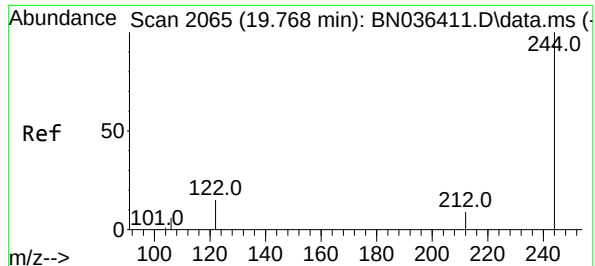
Ion Ratio Lower Upper

202 100

200 21.2 16.9 25.3

203 17.7 13.9 20.9

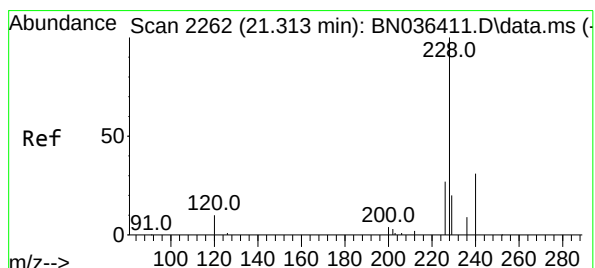
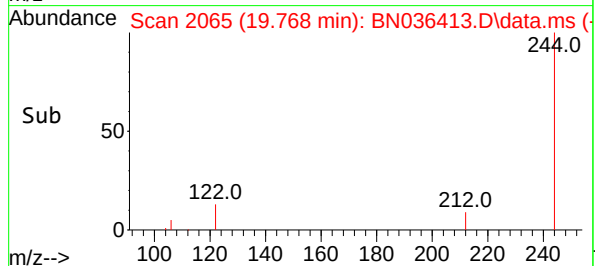
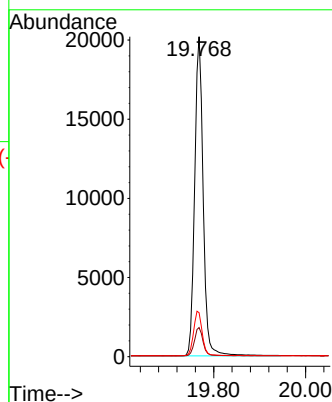
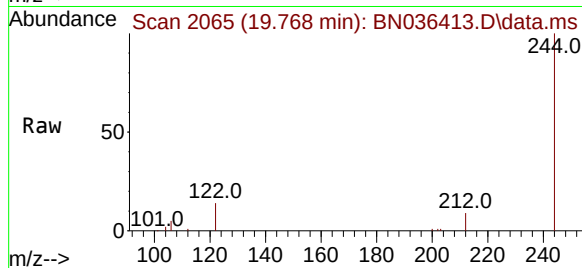




#31
Terphenyl-d14
Concen: 1.611 ng
RT: 19.768 min Scan# 2065
Delta R.T. -0.000 min
Lab File: BN036413.D
Acq: 10 Feb 2025 14:48

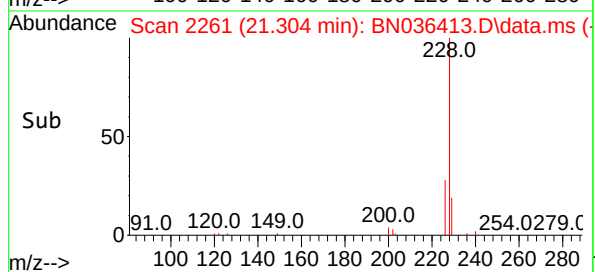
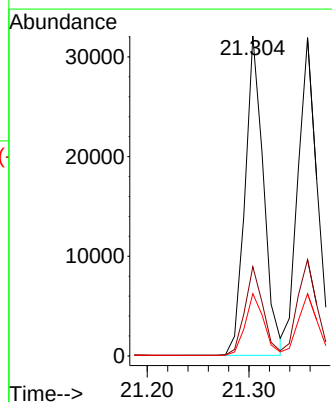
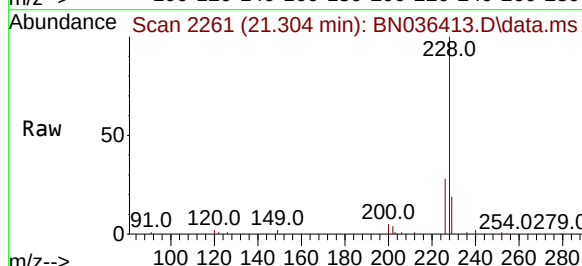
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

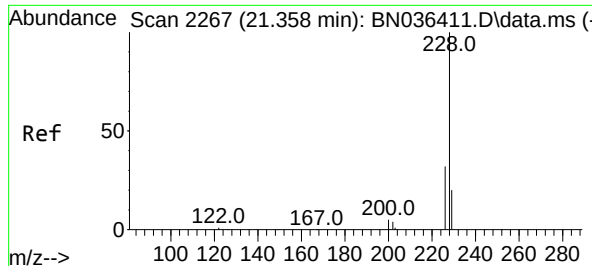
Tgt Ion:244 Resp: 25927
Ion Ratio Lower Upper
244 100
212 9.1 8.1 12.1
122 13.8 12.8 19.2



#32
Benzo(a)anthracene
Concen: 1.463 ng
RT: 21.304 min Scan# 2261
Delta R.T. -0.009 min
Lab File: BN036413.D
Acq: 10 Feb 2025 14:48

Tgt Ion:228 Resp: 40416
Ion Ratio Lower Upper
228 100
226 27.9 22.2 33.2
229 19.5 16.5 24.7





#33

Chrysene

Concen: 1.542 ng

RT: 21.357 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036413.D

Acq: 10 Feb 2025 14:48

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

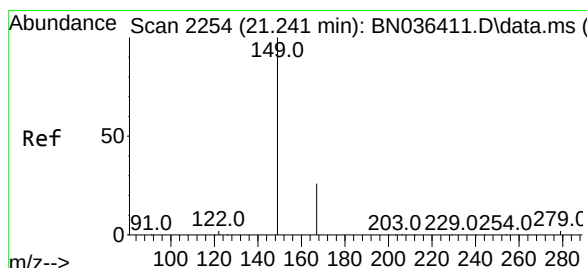
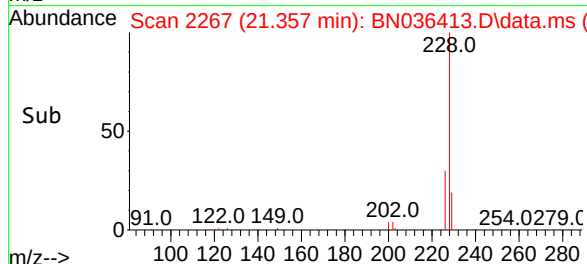
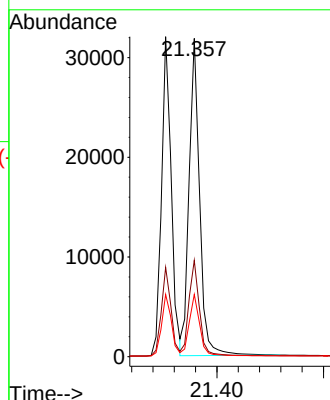
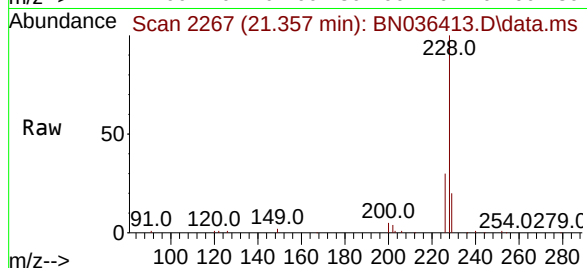
Tgt Ion:228 Resp: 43661

Ion Ratio Lower Upper

228 100

226 30.3 25.5 38.3

229 19.5 16.4 24.6



#34

Bis(2-ethylhexyl)phthalate

Concen: 1.538 ng

RT: 21.241 min Scan# 2254

Delta R.T. -0.000 min

Lab File: BN036413.D

Acq: 10 Feb 2025 14:48

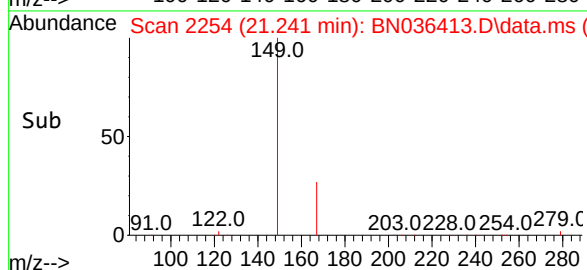
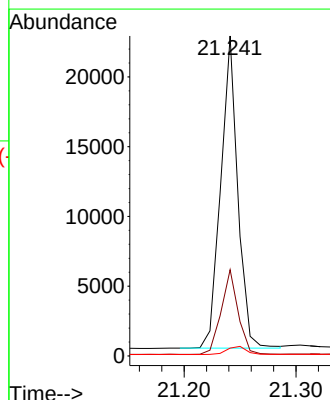
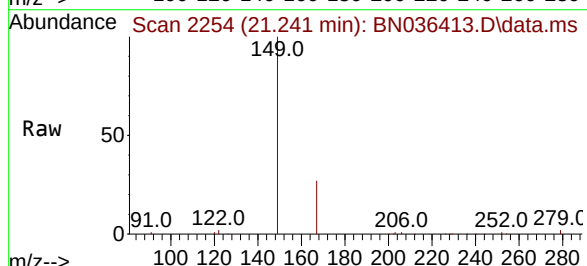
Tgt Ion:149 Resp: 23672

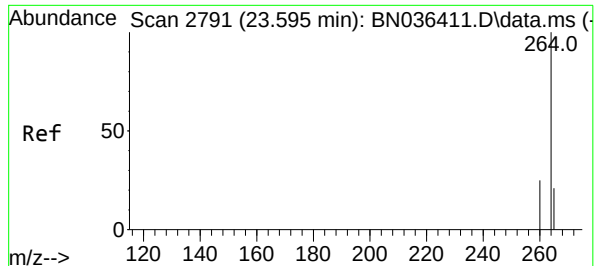
Ion Ratio Lower Upper

149 100

167 26.9 21.2 31.8

279 3.0 2.7 4.1





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.592 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036413.D

Acq: 10 Feb 2025 14:48

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

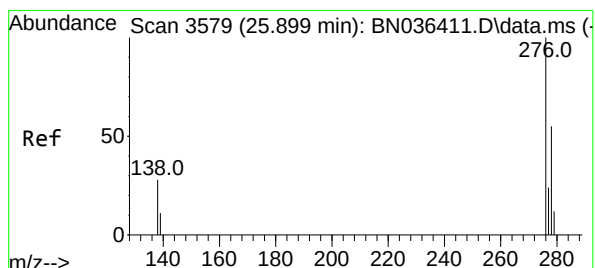
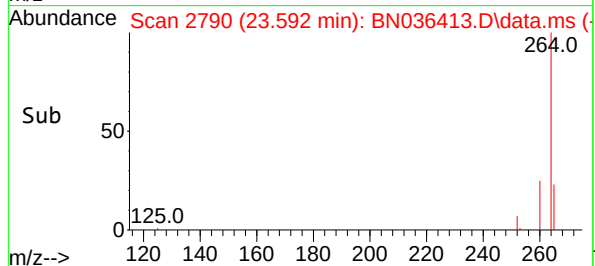
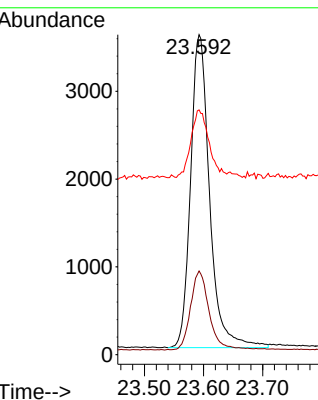
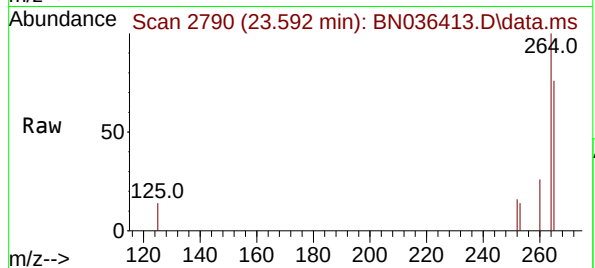
Tgt Ion:264 Resp: 7967

Ion Ratio Lower Upper

264 100

260 26.1 20.9 31.3

265 76.5 60.7 91.1



#36

Indeno(1,2,3-cd)pyrene

Concen: 1.472 ng

RT: 25.890 min Scan# 3576

Delta R.T. -0.009 min

Lab File: BN036413.D

Acq: 10 Feb 2025 14:48

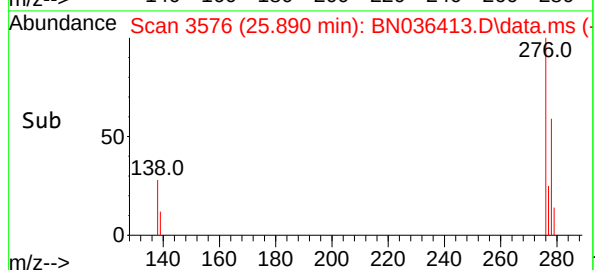
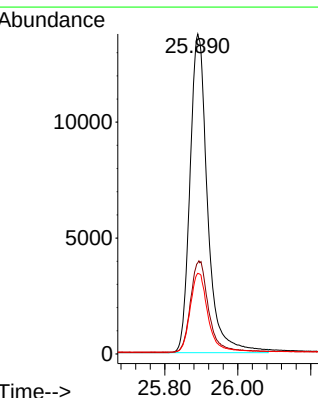
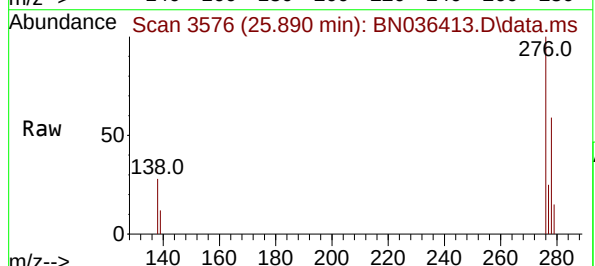
Tgt Ion:276 Resp: 46083

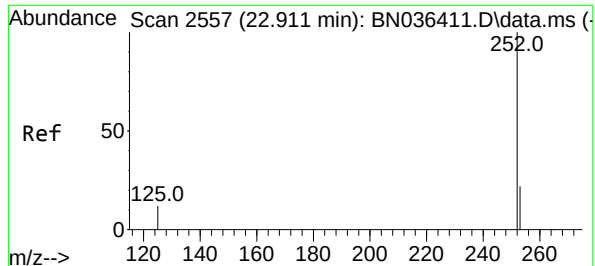
Ion Ratio Lower Upper

276 100

138 29.4 22.2 33.2

277 25.3 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 1.502 ng

RT: 22.908 min Scan# 2556

Delta R.T. -0.003 min

Lab File: BN036413.D

Acq: 10 Feb 2025 14:48

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

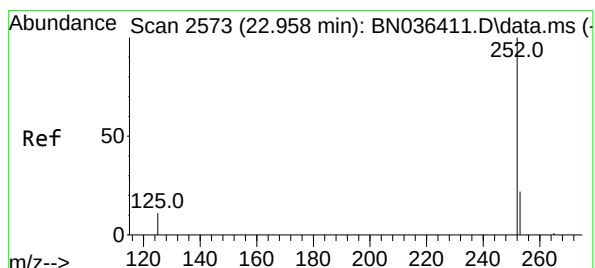
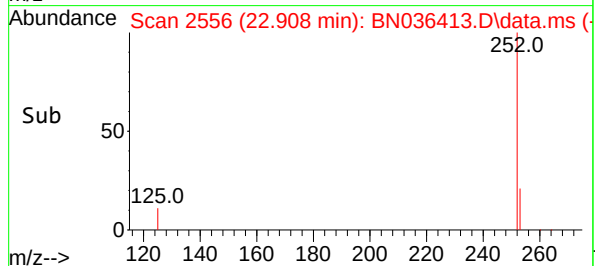
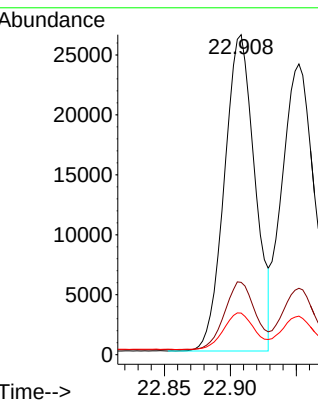
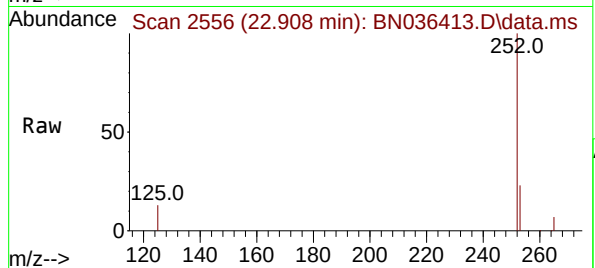
Tgt Ion:252 Resp: 42491

Ion Ratio Lower Upper

252 100

253 22.6 21.9 32.9

125 13.0 15.0 22.6#



#38

Benzo(k)fluoranthene

Concen: 1.489 ng

RT: 22.952 min Scan# 2571

Delta R.T. -0.006 min

Lab File: BN036413.D

Acq: 10 Feb 2025 14:48

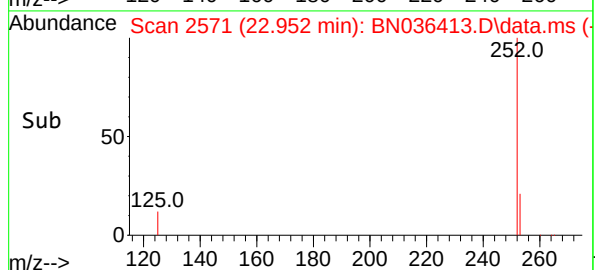
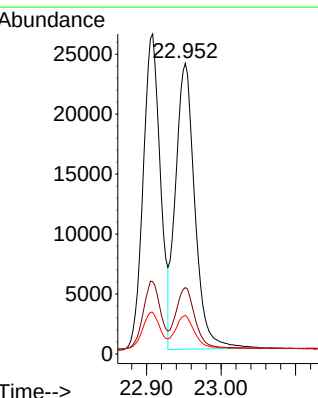
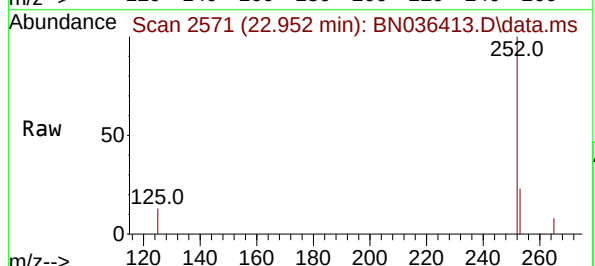
Tgt Ion:252 Resp: 42933

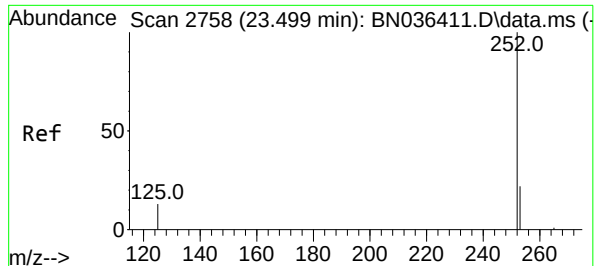
Ion Ratio Lower Upper

252 100

253 22.8 22.2 33.4

125 13.2 15.0 22.4#





#39

Benzo(a)pyrene

Concen: 1.503 ng

RT: 23.493 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN036413.D

Acq: 10 Feb 2025 14:48

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

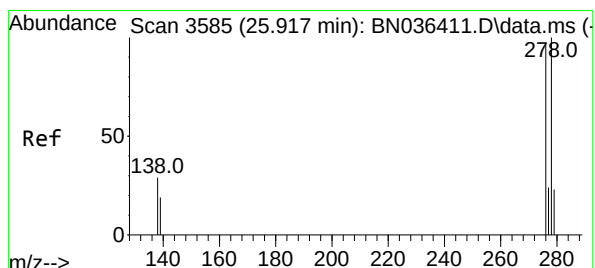
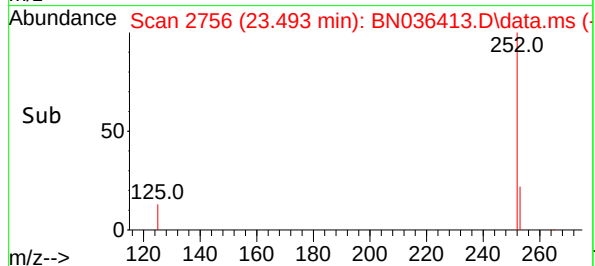
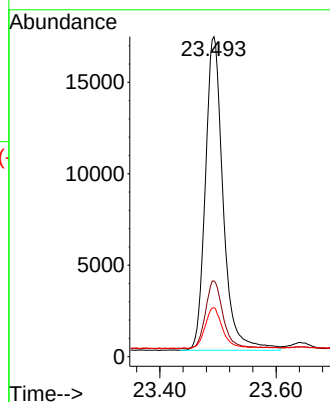
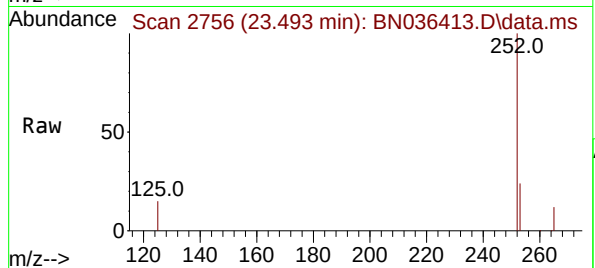
Tgt Ion:252 Resp: 36490

Ion Ratio Lower Upper

252 100

253 23.7 24.4 36.6#

125 15.3 18.2 27.2#



#40

Dibenzo(a,h)anthracene

Concen: 1.478 ng

RT: 25.905 min Scan# 3581

Delta R.T. -0.012 min

Lab File: BN036413.D

Acq: 10 Feb 2025 14:48

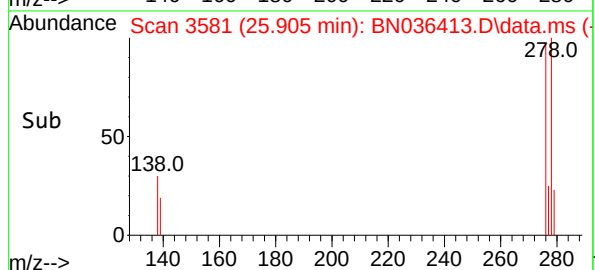
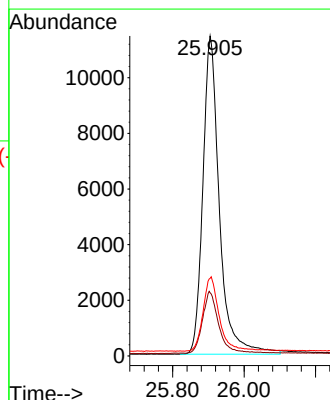
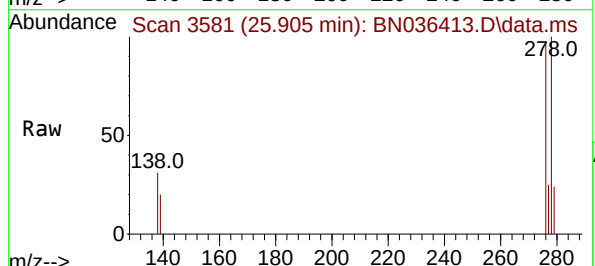
Tgt Ion:278 Resp: 36765

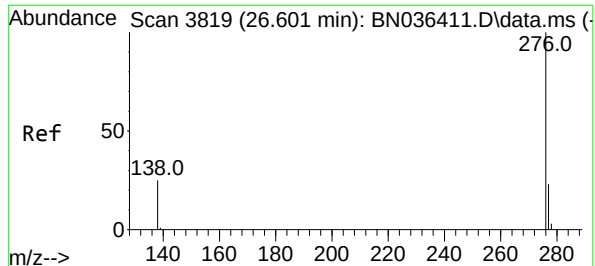
Ion Ratio Lower Upper

278 100

139 19.7 18.5 27.7

279 24.3 24.8 37.2#





#41

Benzo(g,h,i)perylene

Concen: 1.482 ng

RT: 26.592 min Scan# 3816

Delta R.T. -0.009 min

Lab File: BN036413.D

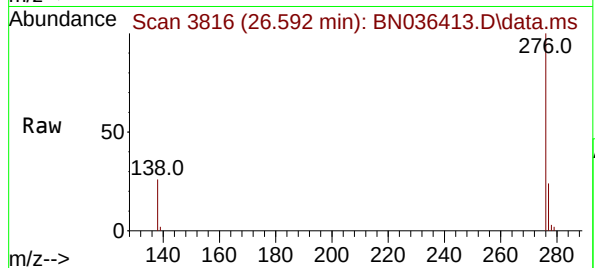
Acq: 10 Feb 2025 14:48

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



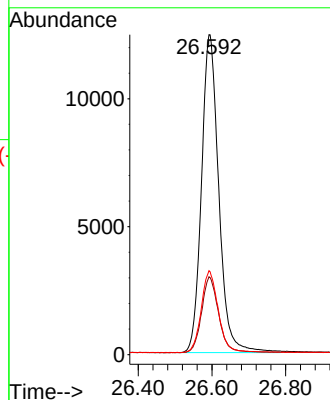
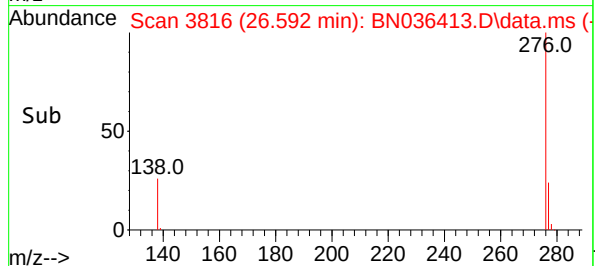
Tgt Ion:276 Resp: 40441

Ion Ratio Lower Upper

276 100

277 24.3 20.7 31.1

138 26.3 21.8 32.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
 Data File : BN036414.D
 Acq On : 10 Feb 2025 15:24
 Operator : RC/JU
 Sample : SSTDICC3.2
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

Quant Time: Feb 11 00:37:03 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 00:33:05 2025
 Response via : Initial Calibration

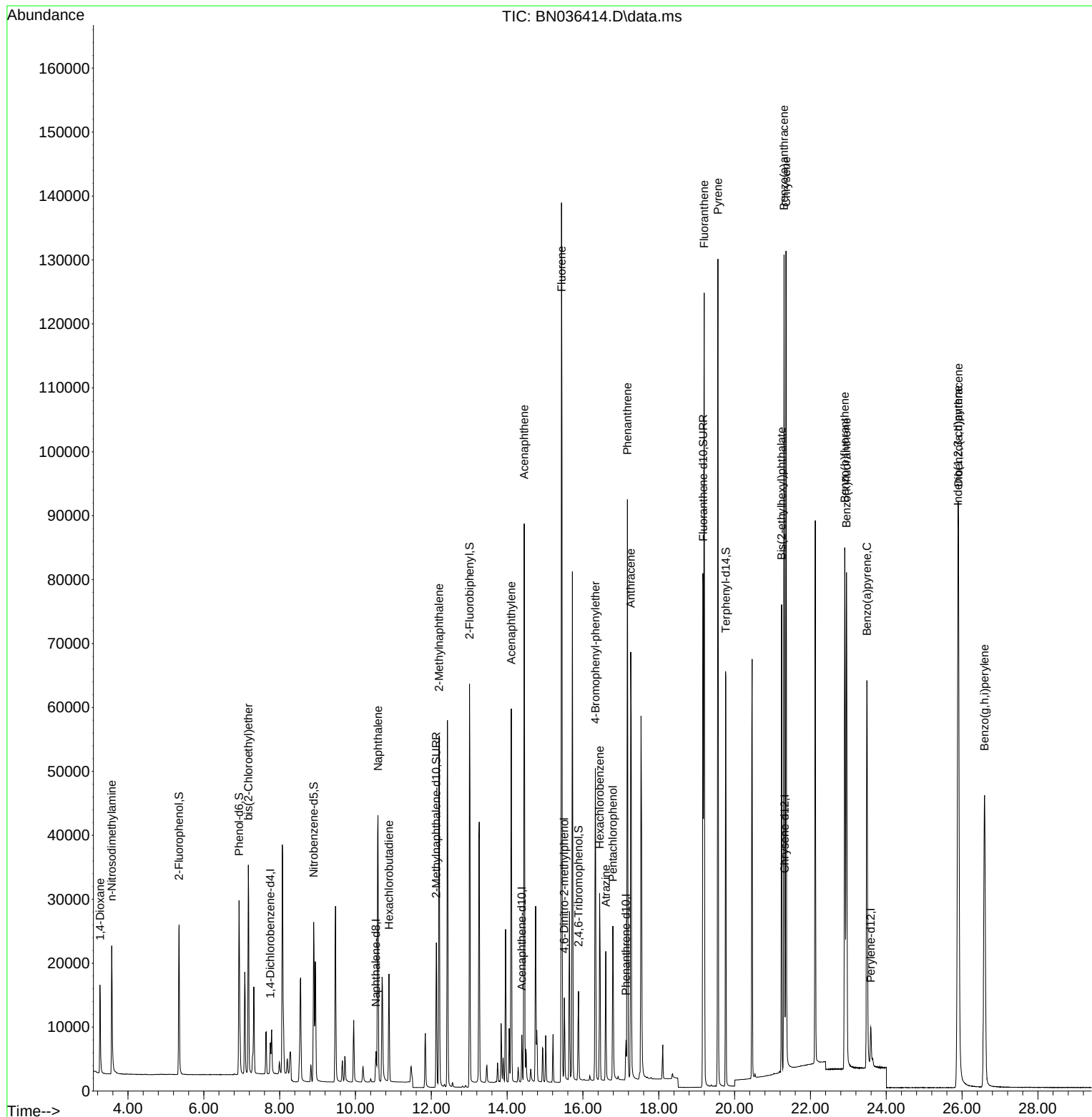
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.753	152	2264	0.400	ng	0.00
7) Naphthalene-d8	10.541	136	5888	0.400	ng	# 0.00
13) Acenaphthene-d10	14.388	164	3870	0.400	ng	0.00
19) Phenanthrene-d10	17.136	188	8443	0.400	ng	0.00
29) Chrysene-d12	21.322	240	8450	0.400	ng	# 0.00
35) Perylene-d12	23.592	264	8327	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.348	112	18096	3.140	ng	0.00
5) Phenol-d6	6.930	99	22949	3.414	ng	0.00
8) Nitrobenzene-d5	8.897	82	19636	3.579	ng	-0.01
11) 2-Methylnaphthalene-d10	12.131	152	31489	3.909	ng	-0.01
14) 2,4,6-Tribromophenol	15.883	330	7004	2.937	ng	0.00
15) 2-Fluorobiphenyl	13.009	172	53807	3.260	ng	-0.01
27) Fluoranthene-d10	19.169	212	84968	3.911	ng	0.00
31) Terphenyl-d14	19.768	244	61695	3.526	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.261	88	7842	3.133	ng	Qvalue 97
3) n-Nitrosodimethylamine	3.572	42	13931	3.098	ng	# 98
6) bis(2-Chloroethyl)ether	7.176	93	22184	3.968	ng	99
9) Naphthalene	10.594	128	55857	3.321	ng	97
10) Hexachlorobutadiene	10.883	225	13261	2.516	ng	# 100
12) 2-Methylnaphthalene	12.207	142	38458	3.640	ng	98
16) Acenaphthylene	14.110	152	60797	3.395	ng	100
17) Acenaphthene	14.452	154	39414	3.214	ng	98
18) Fluorene	15.435	166	56634	3.589	ng	100
20) 4,6-Dinitro-2-methylph...	15.510	198	7256	3.841	ng	# 74
21) 4-Bromophenyl-phenylether	16.329	248	17824	3.081	ng	# 86
22) Hexachlorobenzene	16.441	284	21378	2.832	ng	97
23) Atrazine	16.602	200	15456	3.634	ng	92
24) Pentachlorophenol	16.789	266	11492	3.481	ng	100
25) Phenanthrene	17.173	178	85950	3.473	ng	99
26) Anthracene	17.260	178	78802	3.504	ng	99
28) Fluoranthene	19.197	202	108527	3.700	ng	99
30) Pyrene	19.559	202	110153	3.262	ng	100
32) Benzo(a)anthracene	21.304	228	99445	3.312	ng	99
33) Chrysene	21.358	228	103234	3.354	ng	97
34) Bis(2-ethylhexyl)phtha...	21.241	149	58234	3.480	ng	99
36) Indeno(1,2,3-cd)pyrene	25.890	276	108596	3.320	ng	97
37) Benzo(b)fluoranthene	22.905	252	101833	3.445	ng	# 88
38) Benzo(k)fluoranthene	22.952	252	102040	3.385	ng	# 88
39) Benzo(a)pyrene	23.490	252	87191	3.437	ng	# 84
40) Dibenzo(a,h)anthracene	25.905	278	86887	3.343	ng	# 90
41) Benzo(g,h,i)perylene	26.592	276	93260	3.269	ng	97

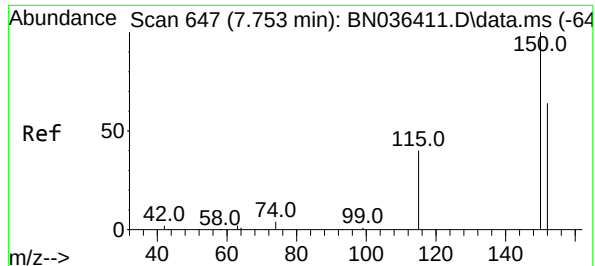
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
Data File : BN036414.D
Acq On : 10 Feb 2025 15:24
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Feb 11 00:37:03 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 11 00:33:05 2025
Response via : Initial Calibration

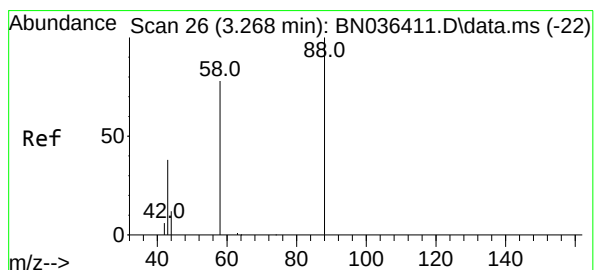
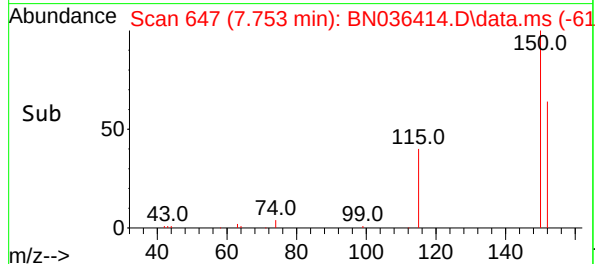
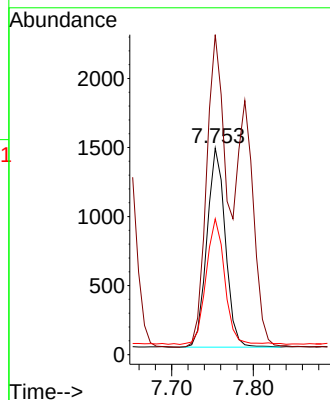
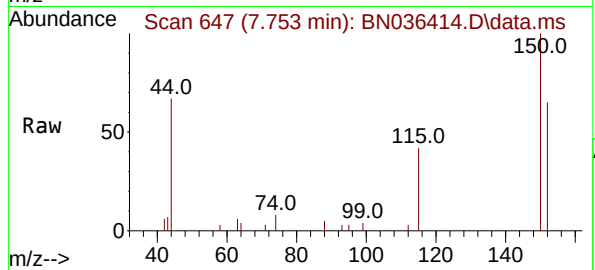




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.753 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

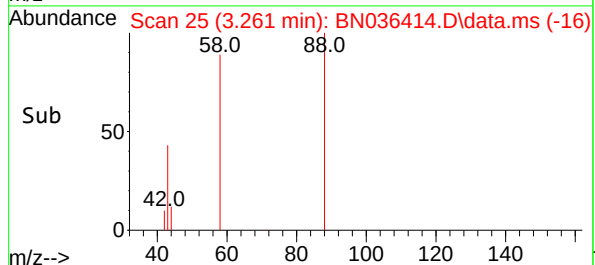
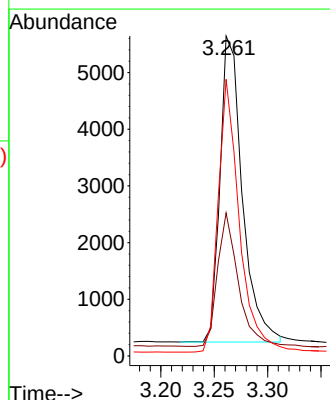
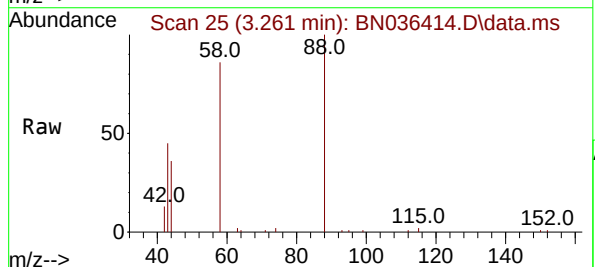
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

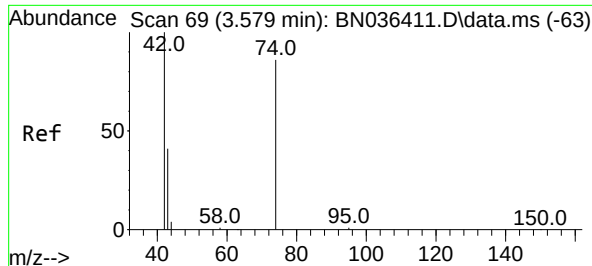
Tgt Ion:152 Resp: 2264
Ion Ratio Lower Upper
152 100
150 154.9 123.7 185.5
115 65.7 52.5 78.7



#2
1,4-Dioxane
Concen: 3.133 ng
RT: 3.261 min Scan# 25
Delta R.T. -0.007 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Tgt Ion: 88 Resp: 7842
Ion Ratio Lower Upper
88 100
43 40.6 33.7 50.5
58 83.7 68.9 103.3

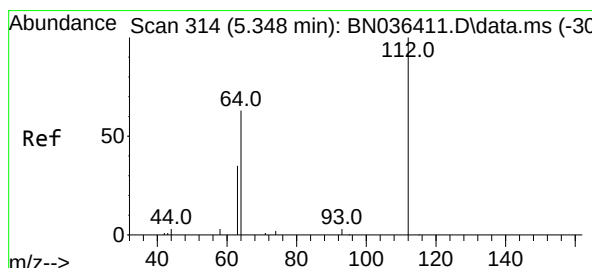
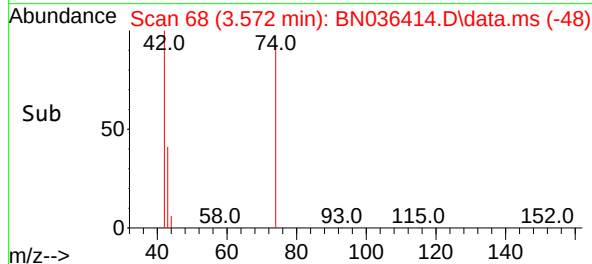
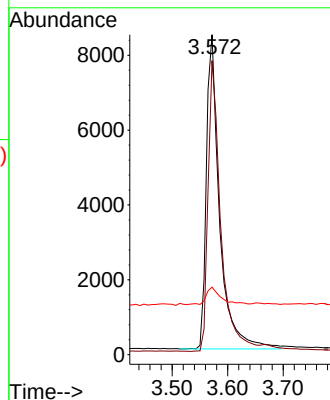
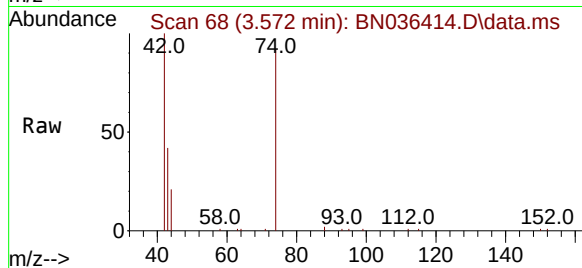




#3
n-Nitrosodimethylamine
Concen: 3.098 ng
RT: 3.572 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

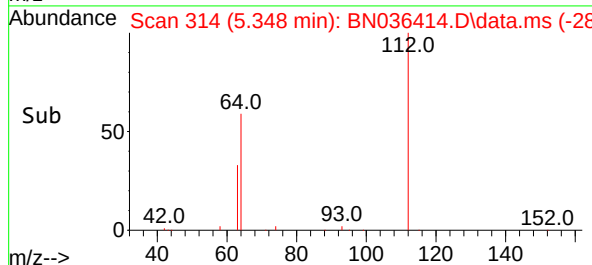
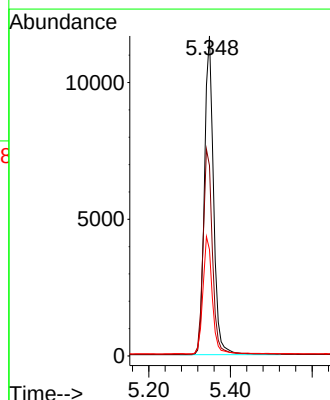
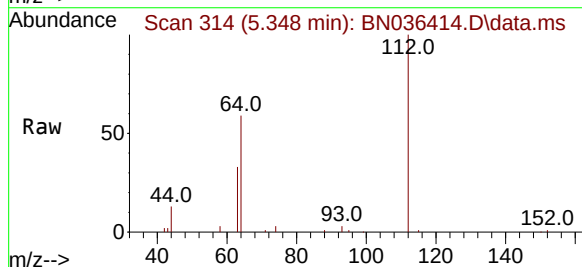
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

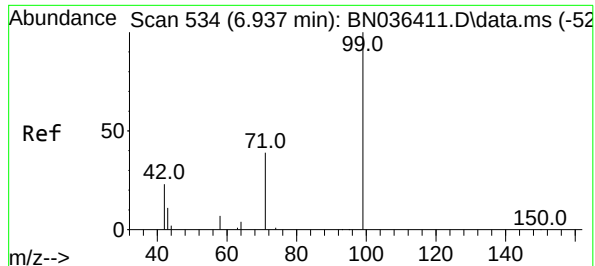
Tgt Ion: 42 Resp: 13931
Ion Ratio Lower Upper
42 100
74 91.3 71.8 107.6
44 6.4 7.8 11.6#



#4
2-Fluorophenol
Concen: 3.140 ng
RT: 5.348 min Scan# 314
Delta R.T. 0.000 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Tgt Ion: 112 Resp: 18096
Ion Ratio Lower Upper
112 100
64 66.2 53.4 80.0
63 36.9 30.3 45.5

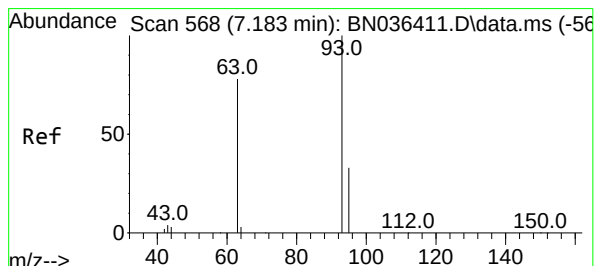
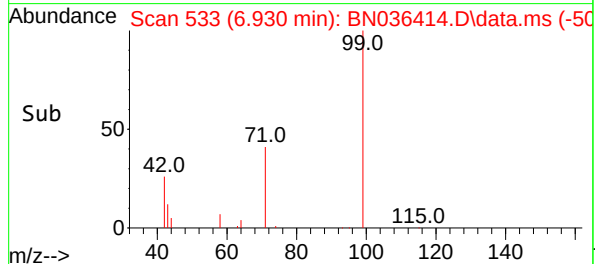
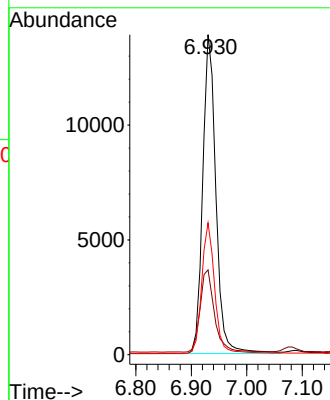
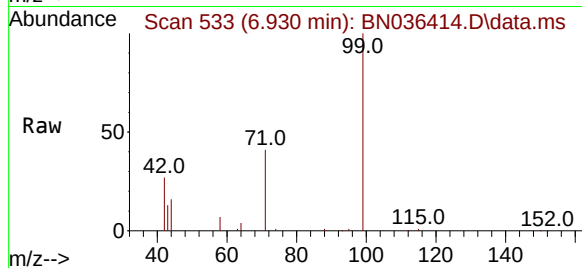




#5
Phenol-d6
Concen: 3.414 ng
RT: 6.930 min Scan# 511
Delta R.T. -0.007 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

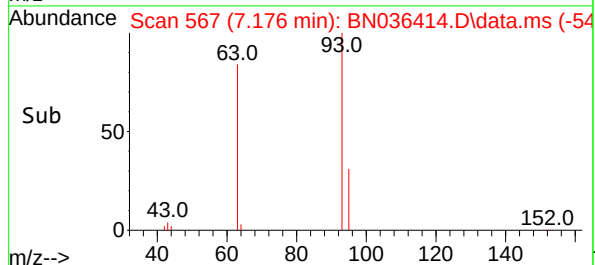
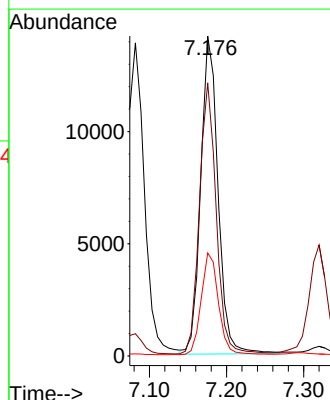
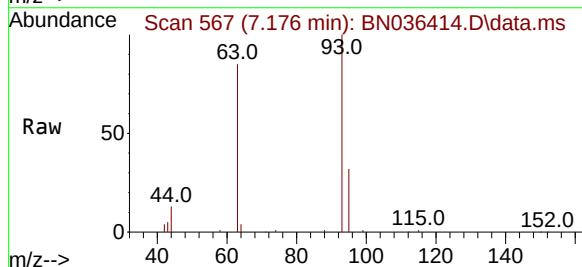
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

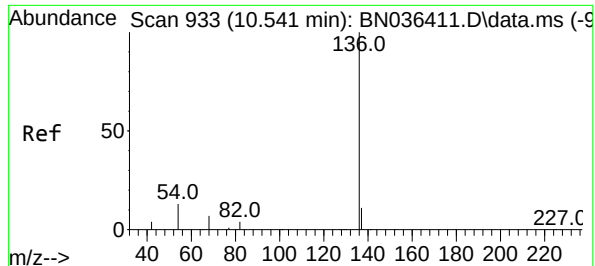
Tgt Ion: 99 Resp: 22949
Ion Ratio Lower Upper
99 100
42 28.0 21.7 32.5
71 40.5 32.6 49.0



#6
bis(2-Chloroethyl)ether
Concen: 3.968 ng
RT: 7.176 min Scan# 567
Delta R.T. -0.007 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Tgt Ion: 93 Resp: 22184
Ion Ratio Lower Upper
93 100
63 82.3 66.3 99.5
95 31.7 26.2 39.4

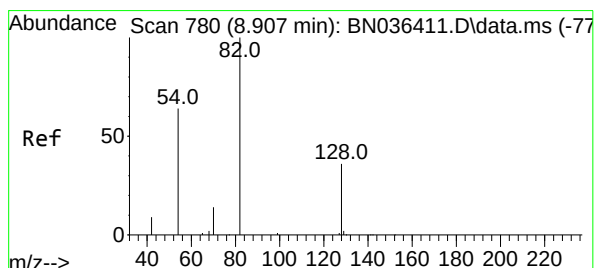
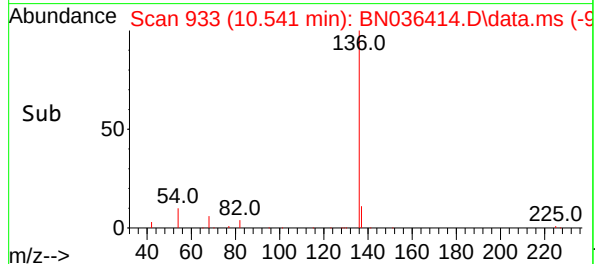
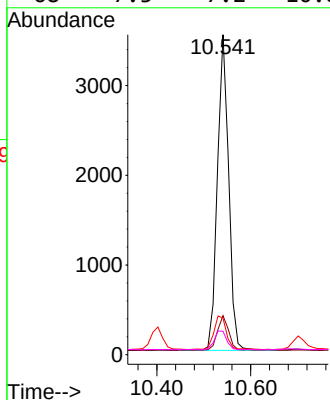
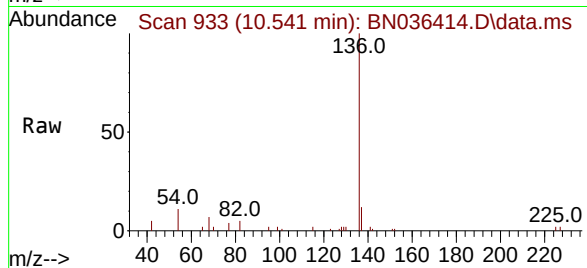




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.541 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

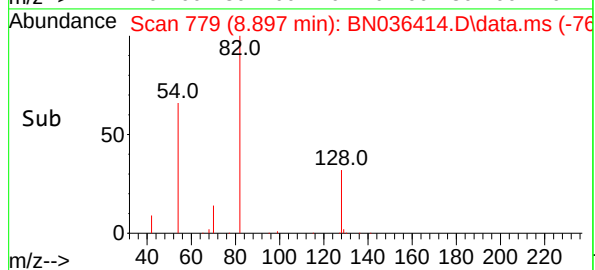
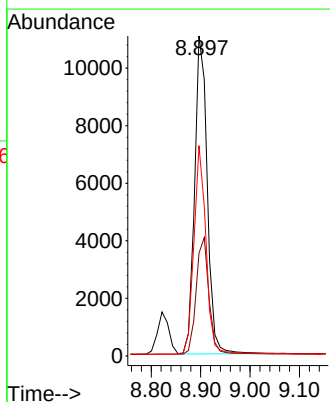
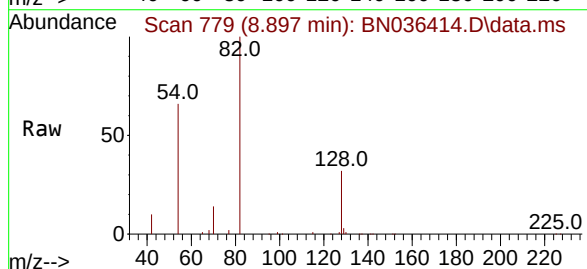
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

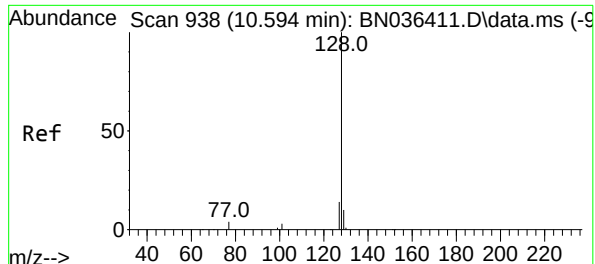
Tgt Ion:	136	Resp:	5888
Ion	Ratio	Lower	Upper
136	100		
137	12.2	10.1	15.1
54	11.4	11.8	17.6#
68	7.3	7.2	10.8



#8
Nitrobenzene-d5
Concen: 3.579 ng
RT: 8.897 min Scan# 779
Delta R.T. -0.011 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Tgt Ion:	82	Resp:	19636
Ion	Ratio	Lower	Upper
82	100		
128	32.1	31.9	47.9
54	65.7	53.1	79.7

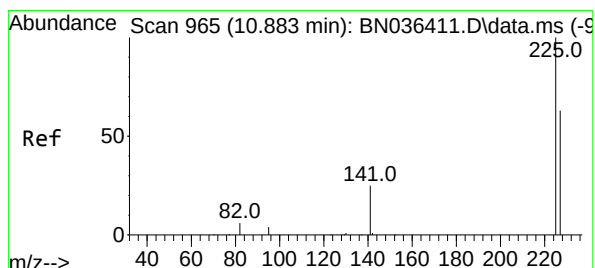
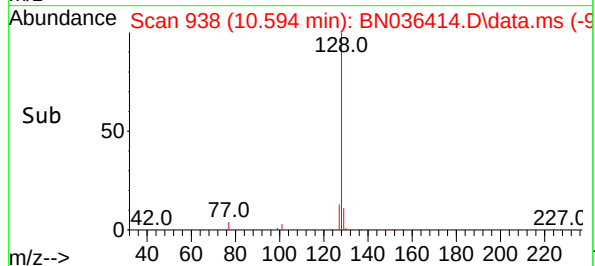
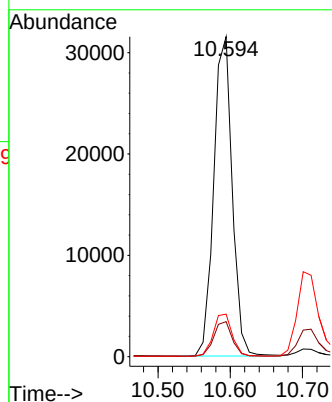
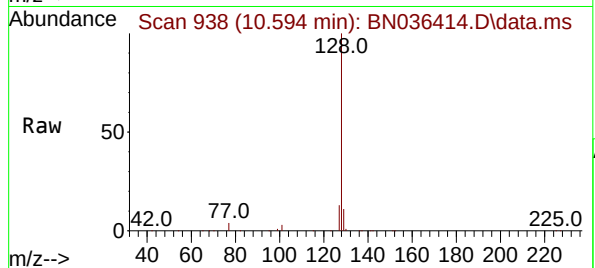




#9
Naphthalene
Concen: 3.321 ng
RT: 10.594 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

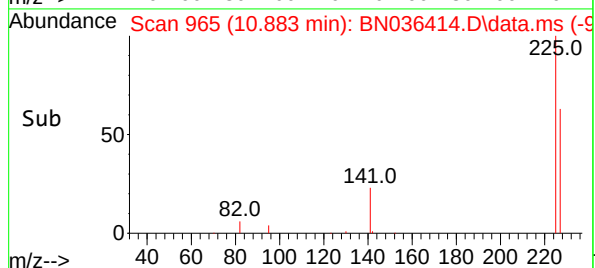
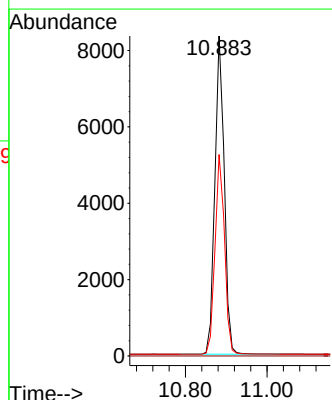
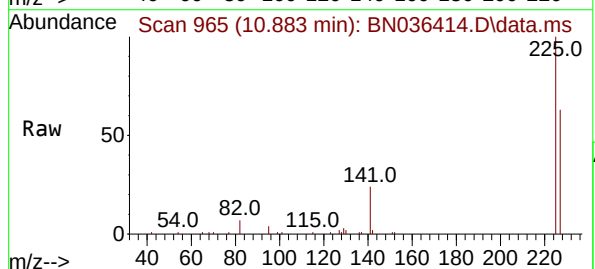
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

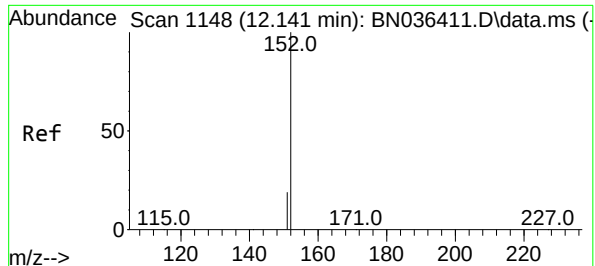
Tgt Ion:128 Resp: 55857
Ion Ratio Lower Upper
128 100
129 11.0 9.6 14.4
127 13.3 12.0 18.0



#10
Hexachlorobutadiene
Concen: 2.516 ng
RT: 10.883 min Scan# 965
Delta R.T. 0.000 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Tgt Ion:225 Resp: 13261
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.6 50.9 76.3

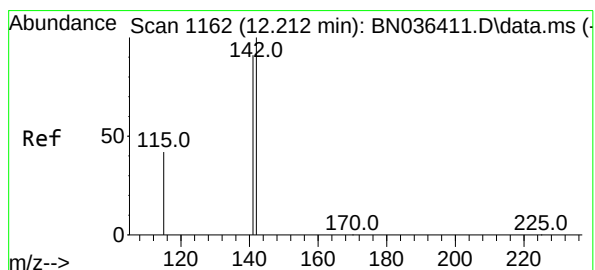
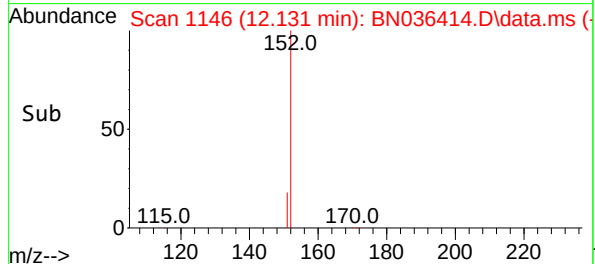
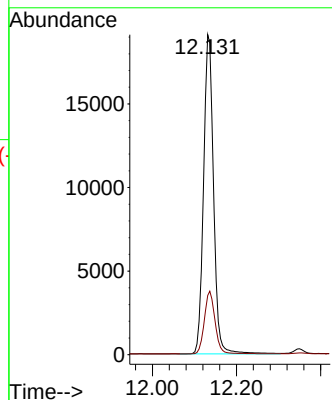
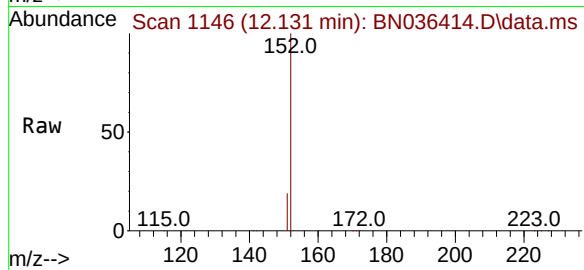




#11
2-Methylnaphthalene-d10
Concen: 3.909 ng
RT: 12.131 min Scan# 1146
Delta R.T. -0.010 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

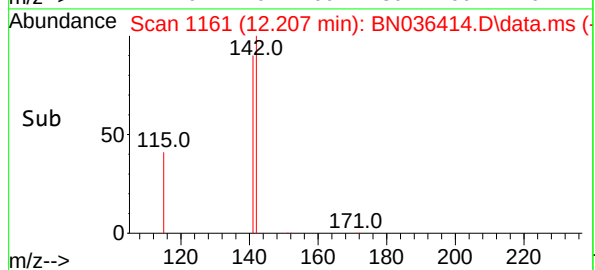
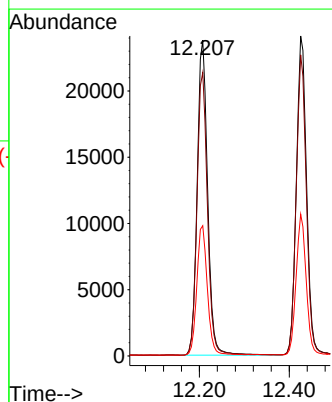
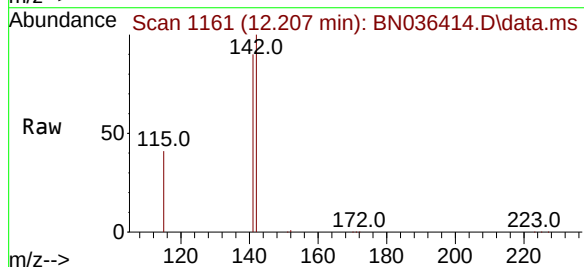
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

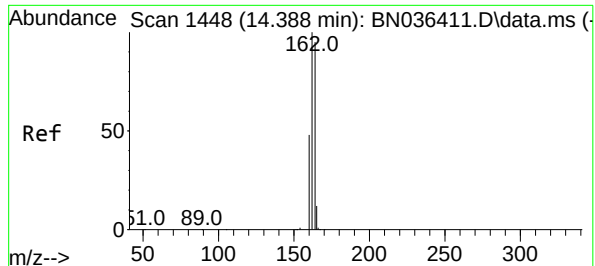
Tgt Ion:152 Resp: 31489
Ion Ratio Lower Upper
152 100
151 21.0 16.6 25.0



#12
2-Methylnaphthalene
Concen: 3.640 ng
RT: 12.207 min Scan# 1161
Delta R.T. -0.005 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Tgt Ion:142 Resp: 38458
Ion Ratio Lower Upper
142 100
141 89.8 72.8 109.2
115 41.3 35.5 53.3

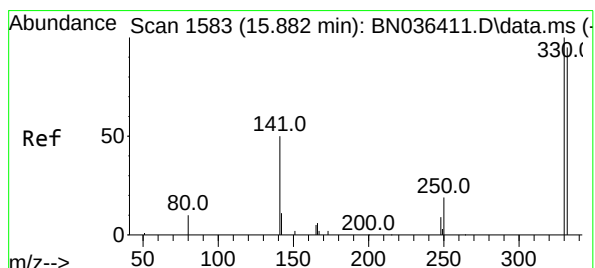
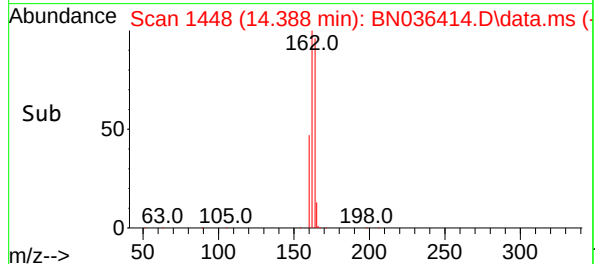
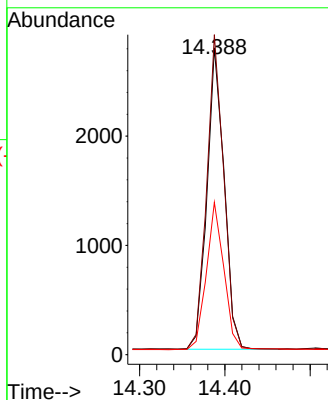
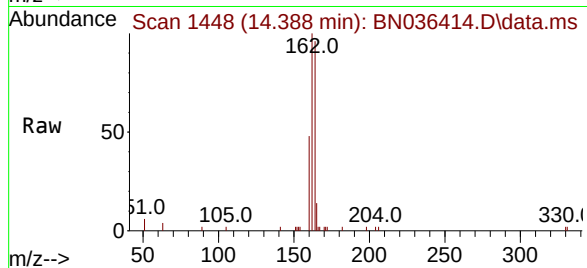




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.388 min Scan# 1448
Delta R.T. 0.000 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

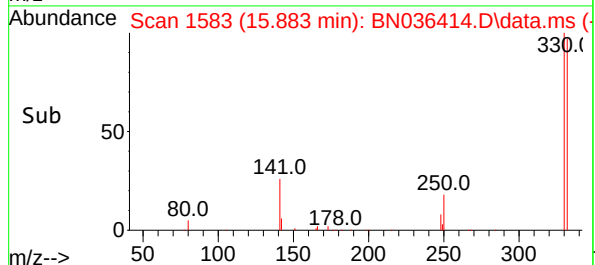
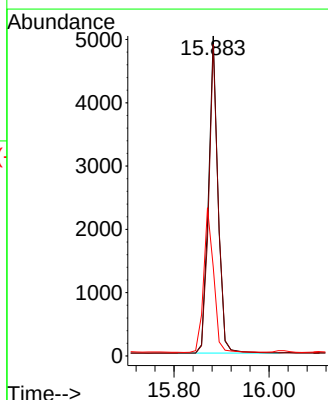
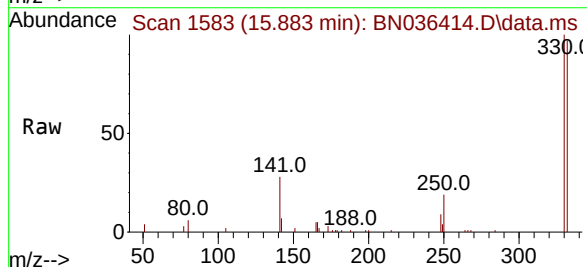
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

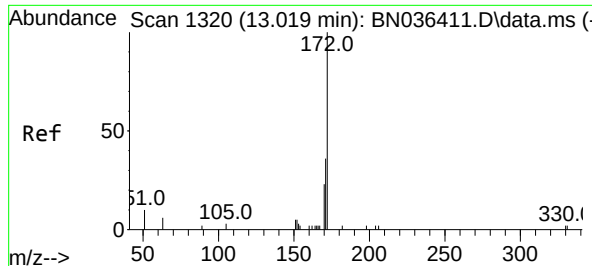
Tgt Ion:164 Resp: 3870
Ion Ratio Lower Upper
164 100
162 104.3 84.1 126.1
160 49.6 41.4 62.0



#14
2,4,6-Tribromophenol
Concen: 2.937 ng
RT: 15.883 min Scan# 1583
Delta R.T. 0.000 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Tgt Ion:330 Resp: 7004
Ion Ratio Lower Upper
330 100
332 96.5 76.6 114.8
141 48.2 37.8 56.8

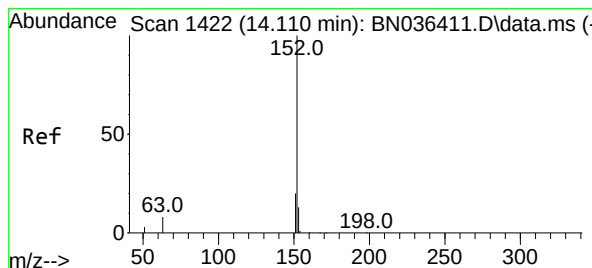
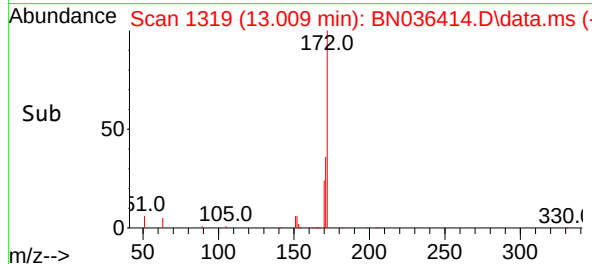
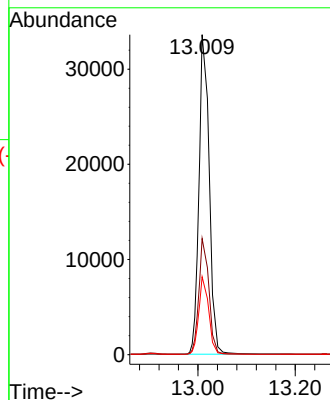
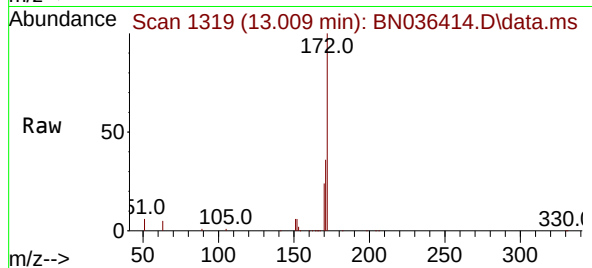




#15
2-Fluorobiphenyl
Concen: 3.260 ng
RT: 13.009 min Scan# 1319
Delta R.T. -0.011 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

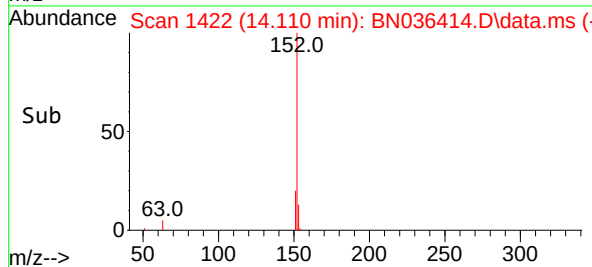
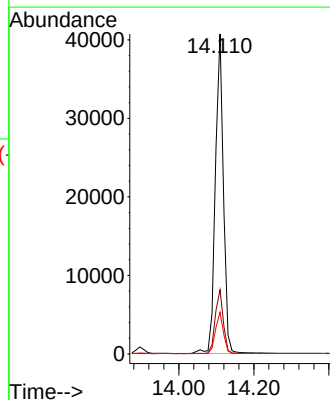
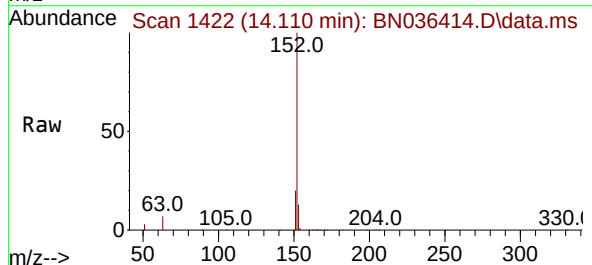
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

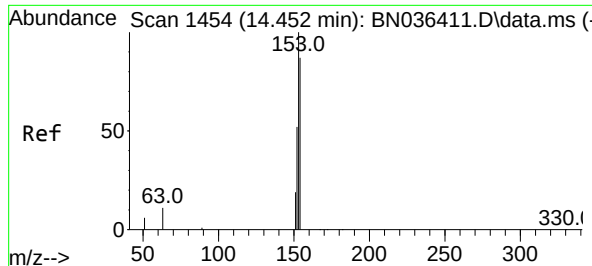
Tgt Ion:172 Resp: 53807
Ion Ratio Lower Upper
172 100
171 36.3 29.6 44.4
170 24.4 19.8 29.6



#16
Acenaphthylene
Concen: 3.395 ng
RT: 14.110 min Scan# 1422
Delta R.T. 0.000 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Tgt Ion:152 Resp: 60797
Ion Ratio Lower Upper
152 100
151 19.8 15.8 23.8
153 12.9 10.2 15.2

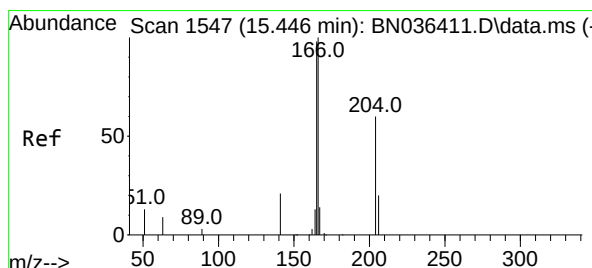
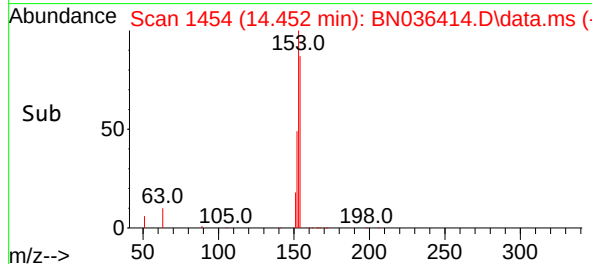
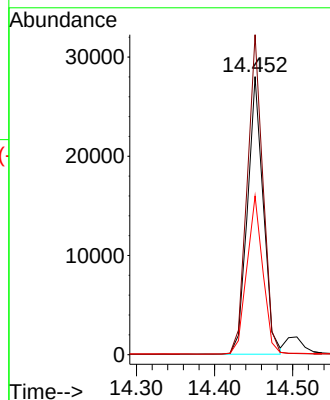
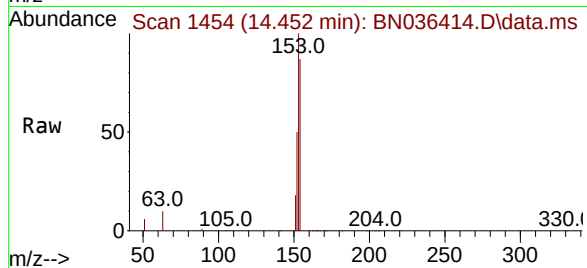




#17
Acenaphthene
Concen: 3.214 ng
RT: 14.452 min Scan# 1454
Delta R.T. 0.000 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

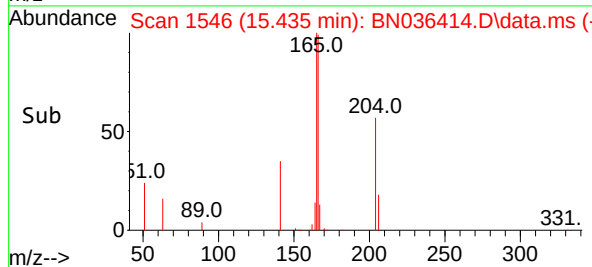
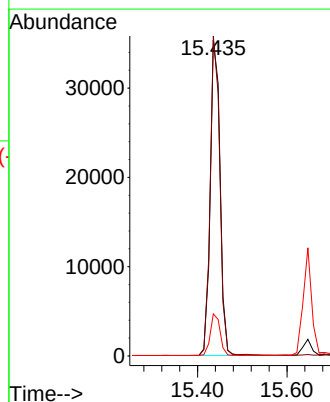
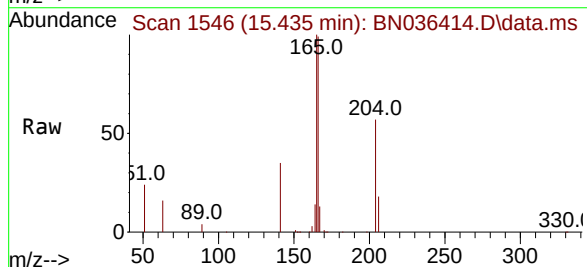
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

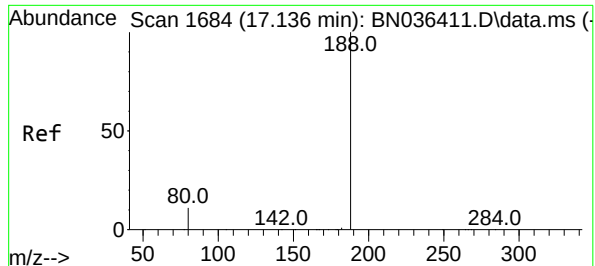
Tgt Ion:154 Resp: 39414
Ion Ratio Lower Upper
154 100
153 115.0 93.3 139.9
152 57.9 48.8 73.2



#18
Fluorene
Concen: 3.589 ng
RT: 15.435 min Scan# 1546
Delta R.T. -0.011 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Tgt Ion:166 Resp: 56634
Ion Ratio Lower Upper
166 100
165 99.4 79.5 119.3
167 12.6 10.4 15.6





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.136 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036414.D

Acq: 10 Feb 2025 15:24

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

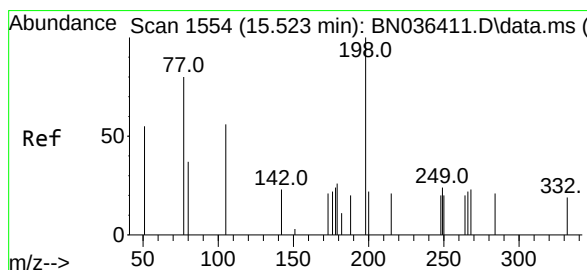
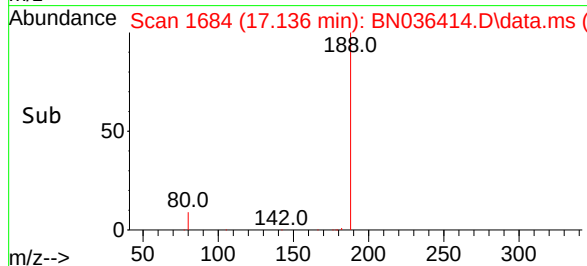
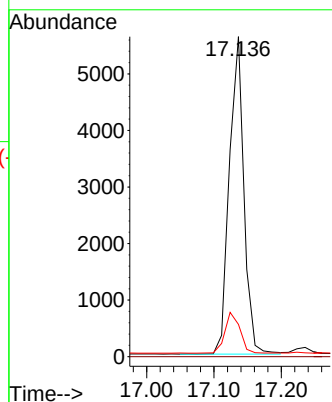
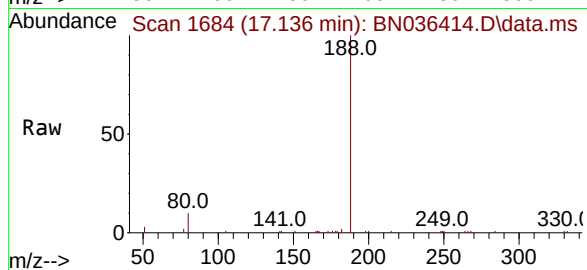
Tgt Ion:188 Resp: 8443

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.1 9.8 14.6



#20

4,6-Dinitro-2-methylphenol

Concen: 3.841 ng

RT: 15.510 min Scan# 1553

Delta R.T. -0.012 min

Lab File: BN036414.D

Acq: 10 Feb 2025 15:24

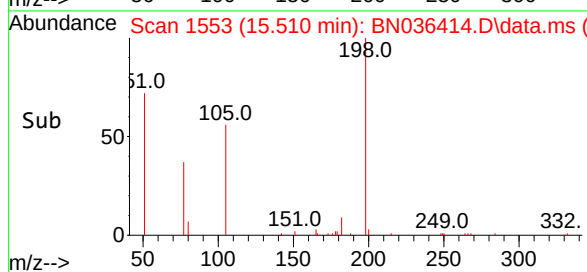
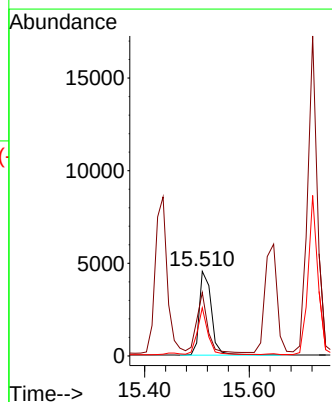
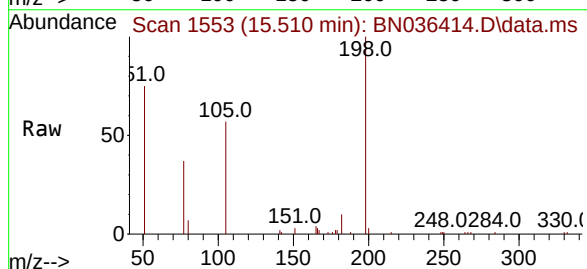
Tgt Ion:198 Resp: 7256

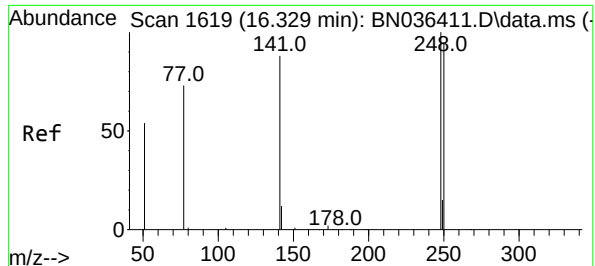
Ion Ratio Lower Upper

198 100

51 74.8 86.6 129.8#

105 57.0 57.5 86.3#

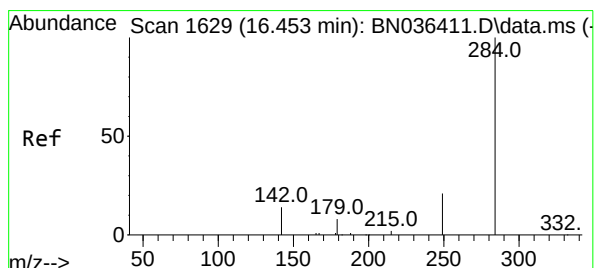
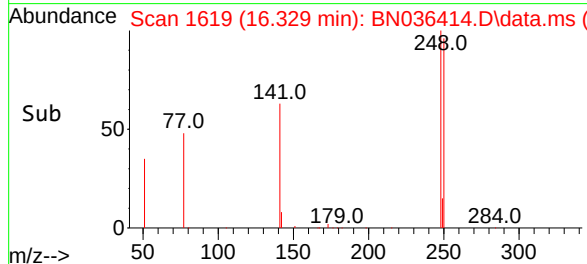
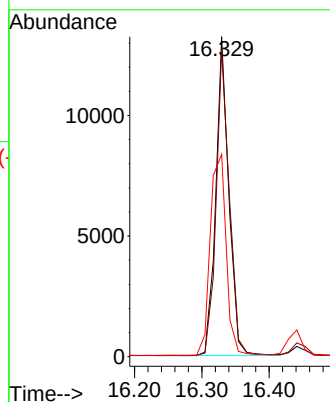
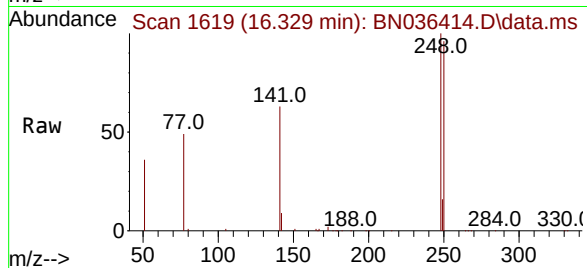




#21
4-Bromophenyl-phenylether
Concen: 3.081 ng
RT: 16.329 min Scan# 1619
Delta R.T. 0.000 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

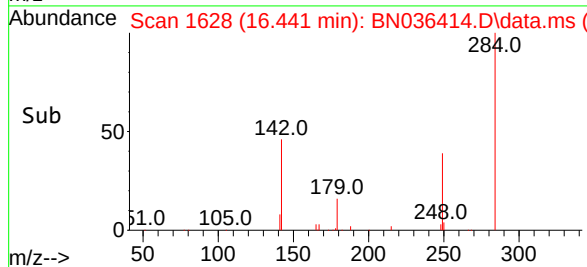
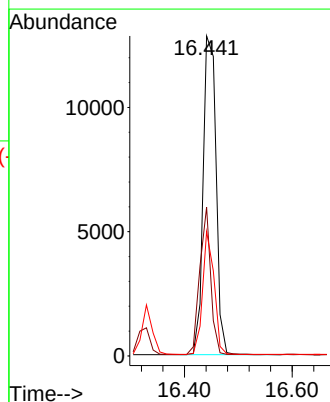
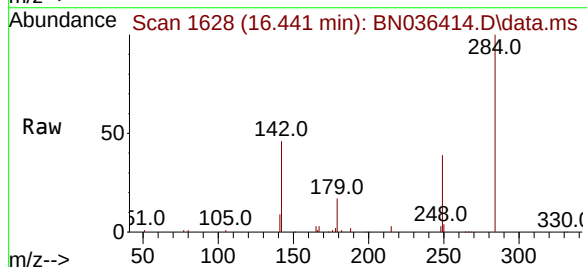
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

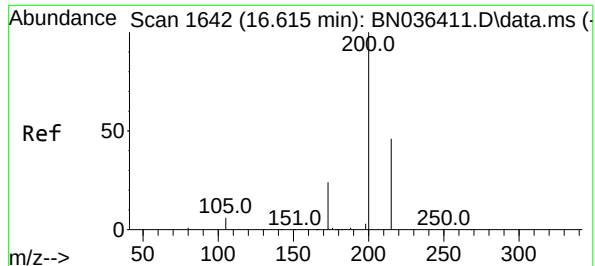
Tgt Ion:248 Resp: 17824
Ion Ratio Lower Upper
248 100
250 95.9 76.1 114.1
141 63.3 71.7 107.5#



#22
Hexachlorobenzene
Concen: 2.832 ng
RT: 16.441 min Scan# 1628
Delta R.T. -0.012 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Tgt Ion:284 Resp: 21378
Ion Ratio Lower Upper
284 100
142 39.4 33.4 50.0
249 34.3 28.6 43.0

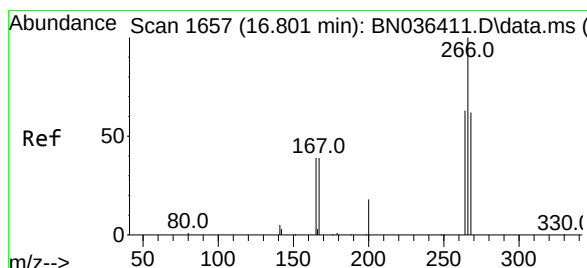
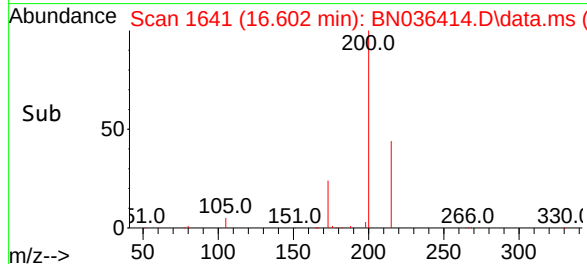
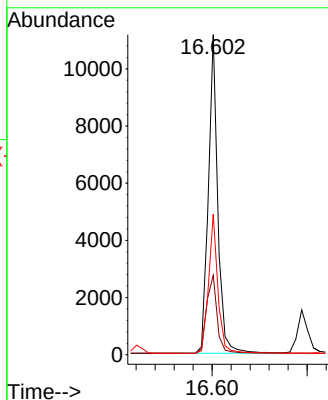
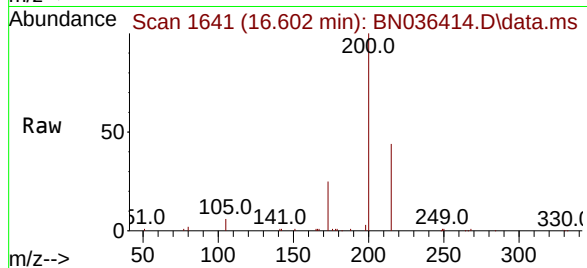




#23
Atrazine
Concen: 3.634 ng
RT: 16.602 min Scan# 1641
Delta R.T. -0.012 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

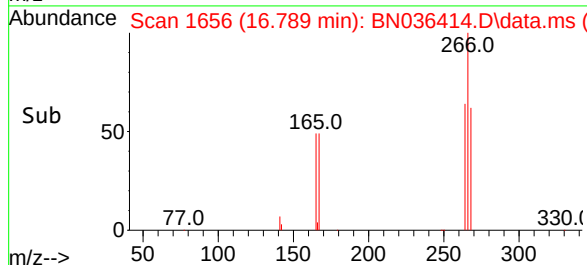
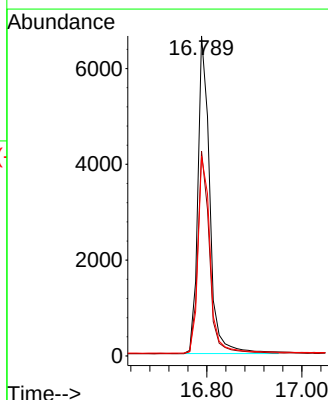
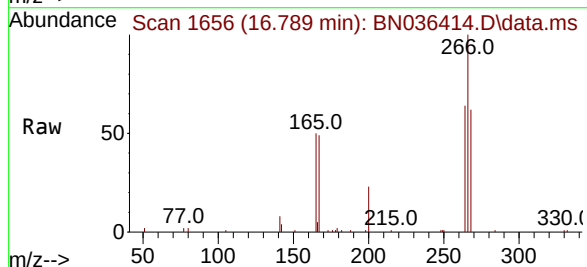
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

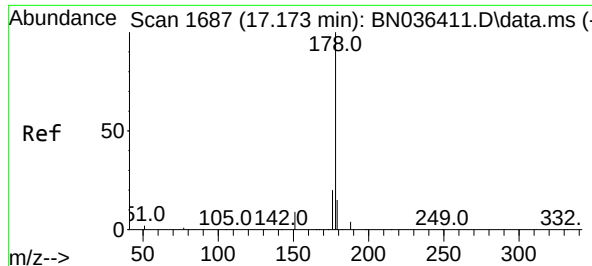
Tgt Ion	Ratio	Lower	Upper
200	100		
173	24.8	23.2	34.8
215	44.0	40.0	60.0



#24
Pentachlorophenol
Concen: 3.481 ng
RT: 16.789 min Scan# 1656
Delta R.T. -0.012 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Tgt Ion	Ratio	Lower	Upper
266	100		
264	63.3	50.6	76.0
268	64.3	51.9	77.9

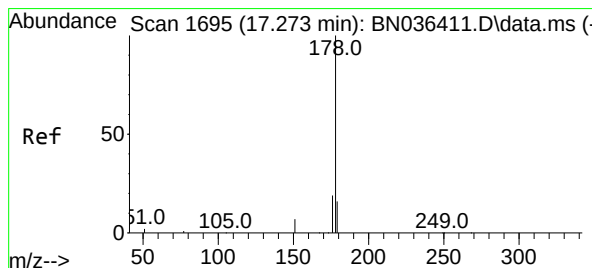
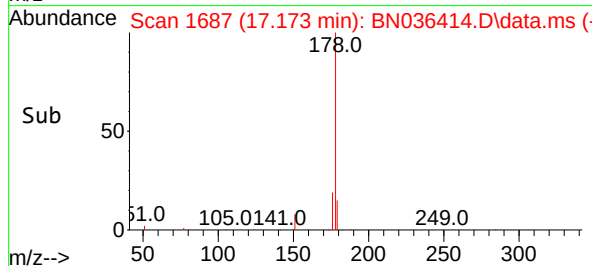
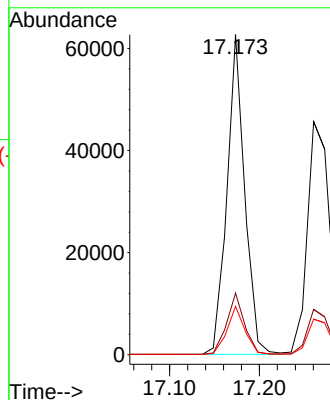
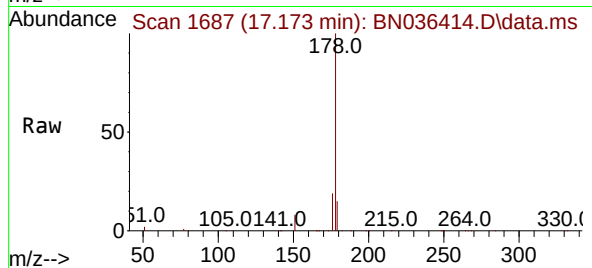




#25
Phenanthrene
Concen: 3.473 ng
RT: 17.173 min Scan# 1687
Delta R.T. 0.000 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

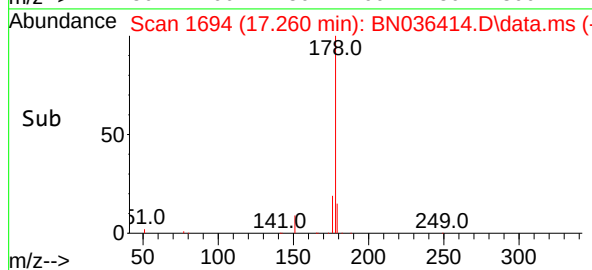
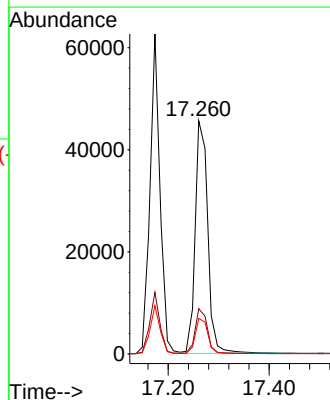
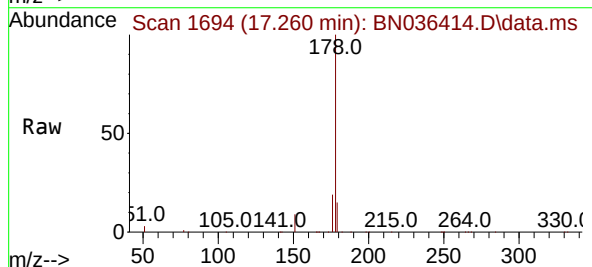
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

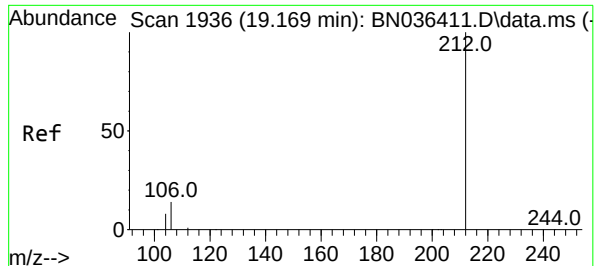
Tgt Ion:178 Resp: 85950
Ion Ratio Lower Upper
178 100
176 19.3 15.7 23.5
179 15.1 12.4 18.6



#26
Anthracene
Concen: 3.504 ng
RT: 17.260 min Scan# 1694
Delta R.T. -0.012 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Tgt Ion:178 Resp: 78802
Ion Ratio Lower Upper
178 100
176 18.9 14.9 22.3
179 15.2 12.4 18.6





#27

Fluoranthene-d10

Concen: 3.911 ng

RT: 19.169 min Scan# 1936

Delta R.T. 0.000 min

Lab File: BN036414.D

Acq: 10 Feb 2025 15:24

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

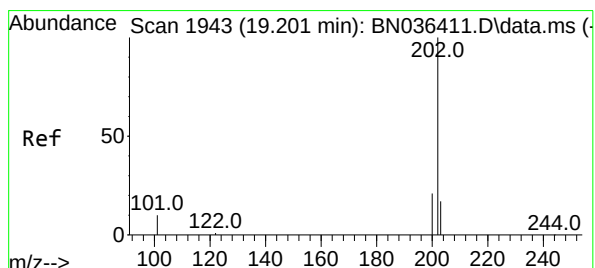
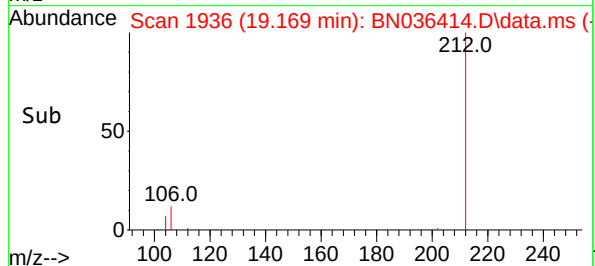
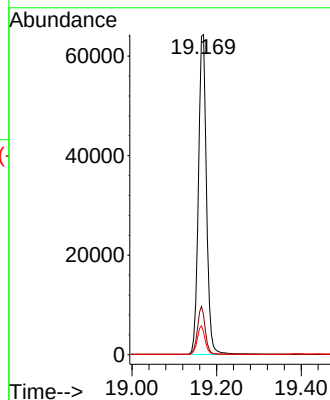
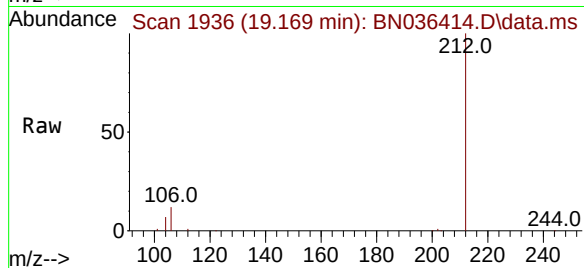
Tgt Ion:212 Resp: 84968

Ion Ratio Lower Upper

212 100

106 14.5 11.5 17.3

104 8.6 7.1 10.7



#28

Fluoranthene

Concen: 3.700 ng

RT: 19.197 min Scan# 1942

Delta R.T. -0.005 min

Lab File: BN036414.D

Acq: 10 Feb 2025 15:24

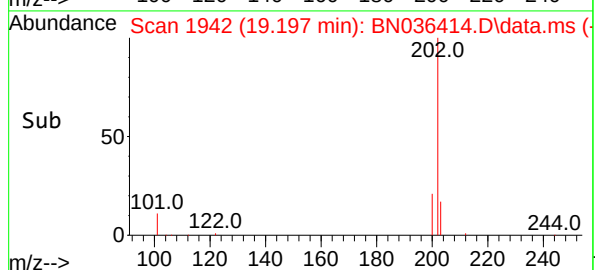
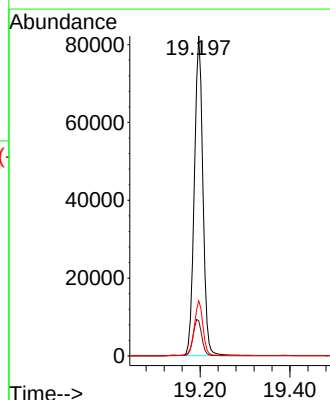
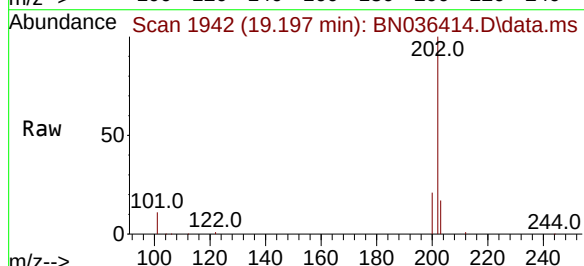
Tgt Ion:202 Resp: 108527

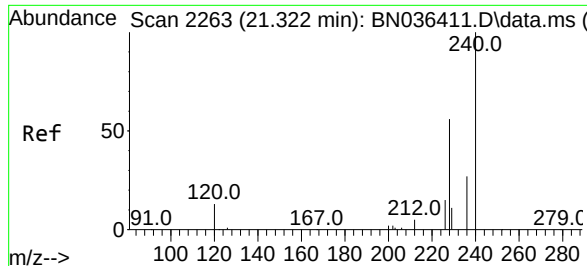
Ion Ratio Lower Upper

202 100

101 11.9 9.2 13.8

203 17.1 13.4 20.0





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.322 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036414.D

Acq: 10 Feb 2025 15:24

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

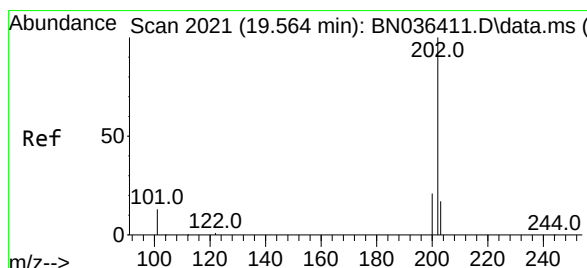
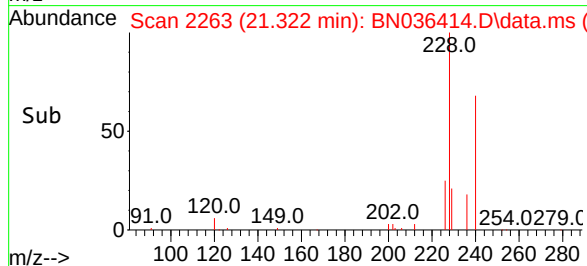
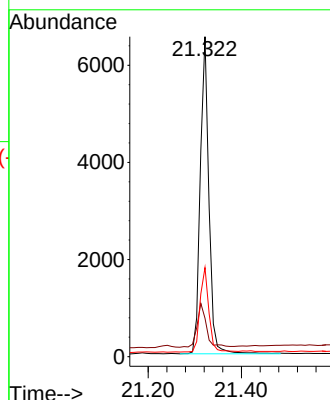
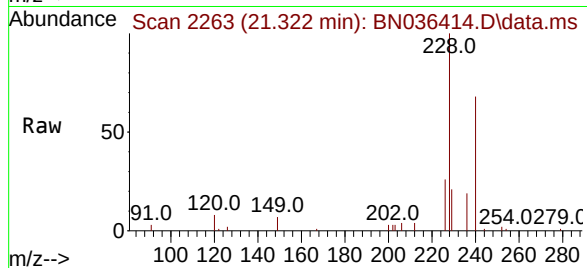
Tgt Ion:240 Resp: 8450

Ion Ratio Lower Upper

240 100

120 12.0 13.3 19.9#

236 27.8 23.0 34.6



#30

Pyrene

Concen: 3.262 ng

RT: 19.559 min Scan# 2020

Delta R.T. -0.005 min

Lab File: BN036414.D

Acq: 10 Feb 2025 15:24

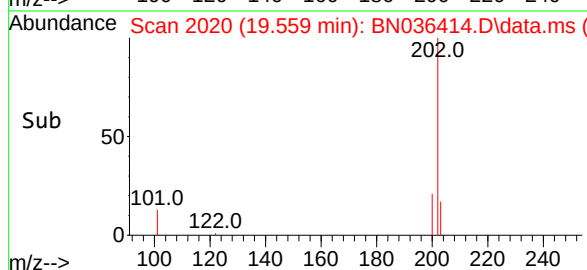
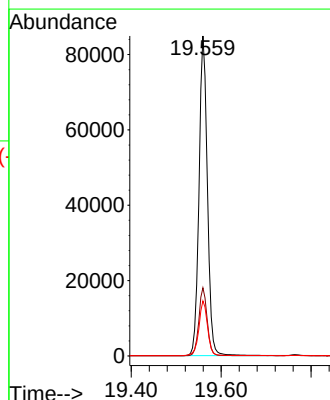
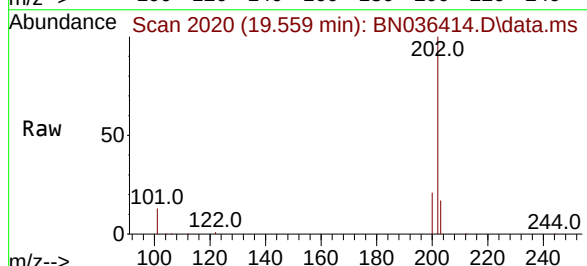
Tgt Ion:202 Resp: 110153

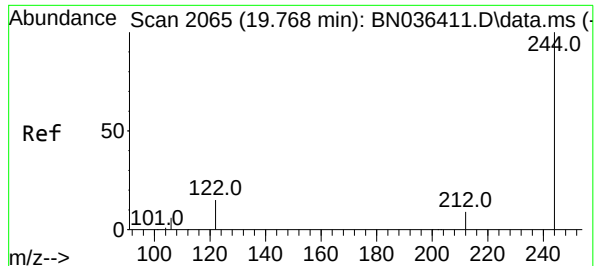
Ion Ratio Lower Upper

202 100

200 21.2 16.9 25.3

203 17.7 13.9 20.9

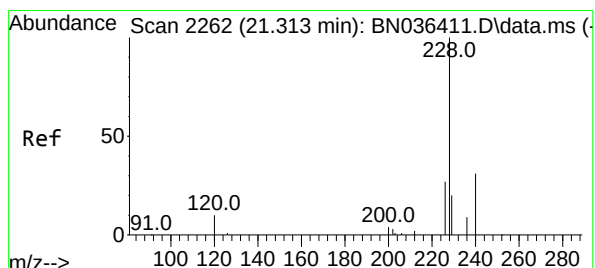
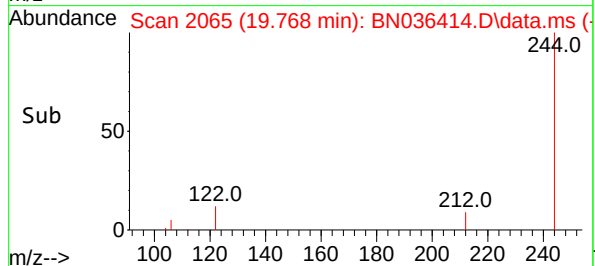
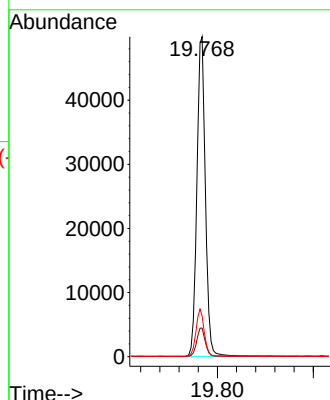
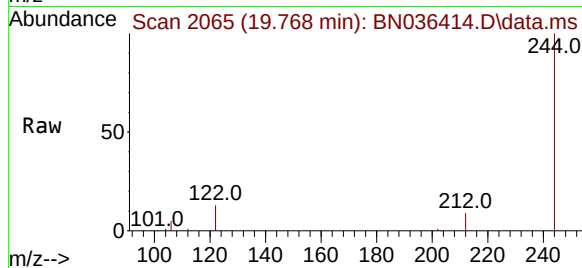




#31
Terphenyl-d14
Concen: 3.526 ng
RT: 19.768 min Scan# 2065
Delta R.T. 0.000 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

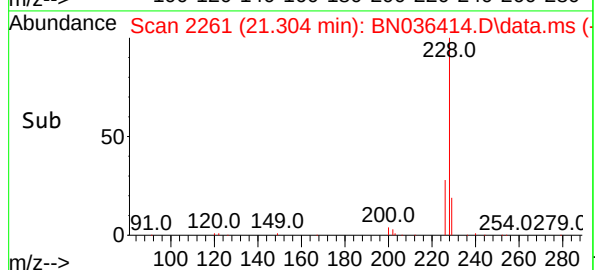
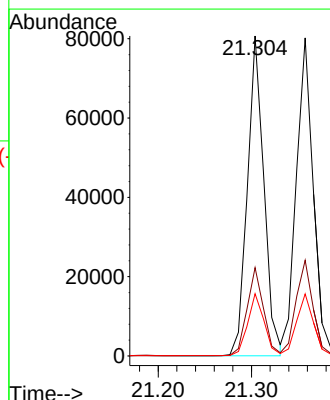
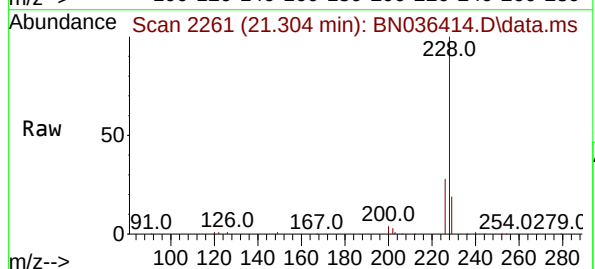
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

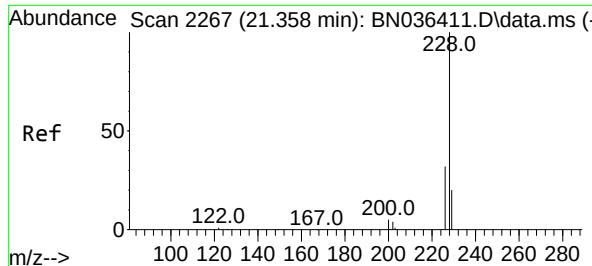
Tgt Ion:244 Resp: 61695
Ion Ratio Lower Upper
244 100
212 8.9 8.1 12.1
122 12.8 12.8 19.2#



#32
Benzo(a)anthracene
Concen: 3.312 ng
RT: 21.304 min Scan# 2261
Delta R.T. -0.009 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Tgt Ion:228 Resp: 99445
Ion Ratio Lower Upper
228 100
226 27.6 22.2 33.2
229 19.5 16.5 24.7





#33

Chrysene

Concen: 3.354 ng

RT: 21.358 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036414.D

Acq: 10 Feb 2025 15:24

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

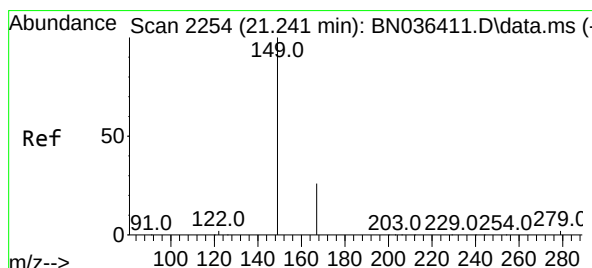
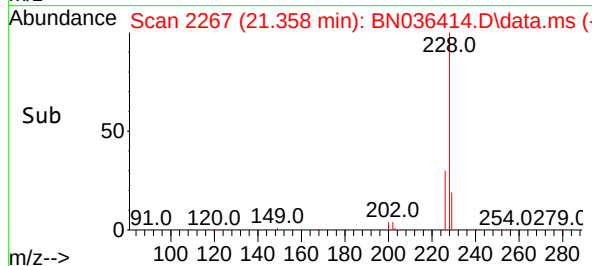
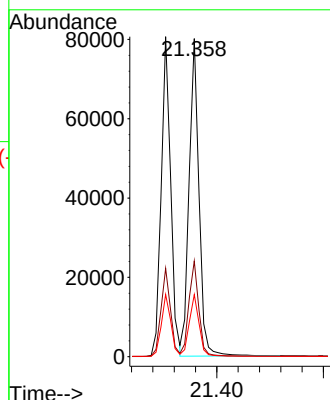
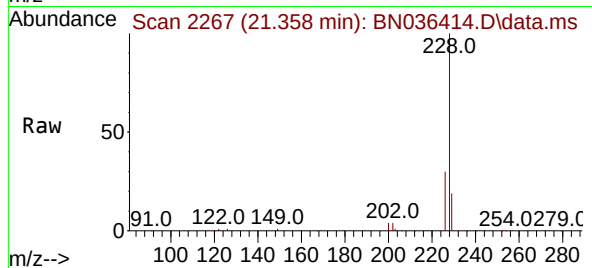
Tgt Ion:228 Resp: 103234

Ion Ratio Lower Upper

228 100

226 30.1 25.5 38.3

229 19.5 16.4 24.6



#34

Bis(2-ethylhexyl)phthalate

Concen: 3.480 ng

RT: 21.241 min Scan# 2254

Delta R.T. 0.000 min

Lab File: BN036414.D

Acq: 10 Feb 2025 15:24

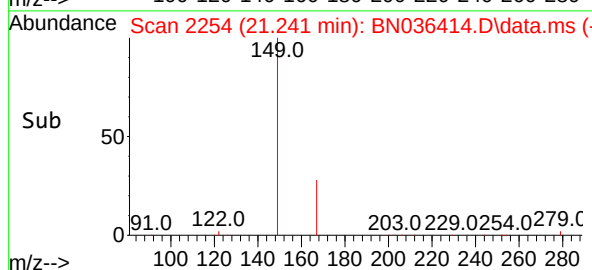
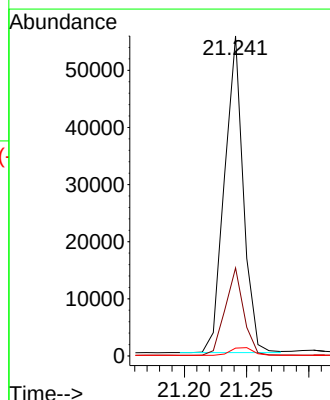
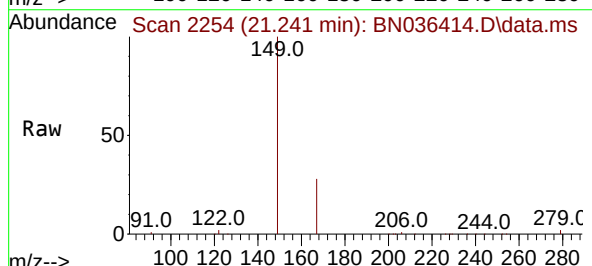
Tgt Ion:149 Resp: 58234

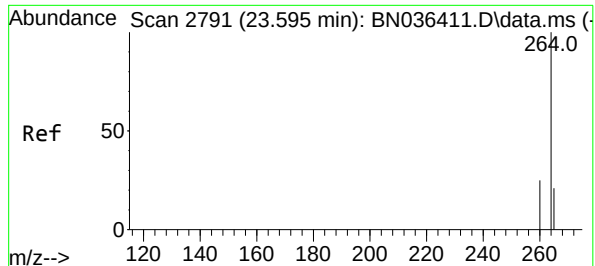
Ion Ratio Lower Upper

149 100

167 27.1 21.2 31.8

279 3.0 2.7 4.1





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.592 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036414.D

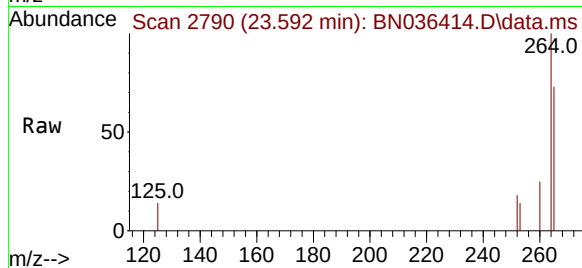
Acq: 10 Feb 2025 15:24

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



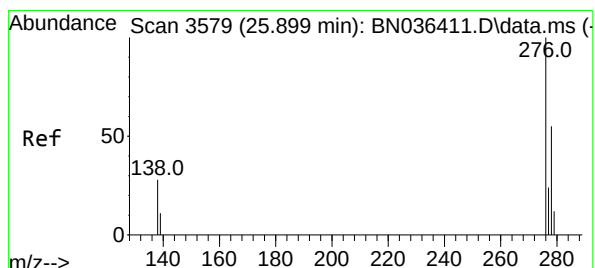
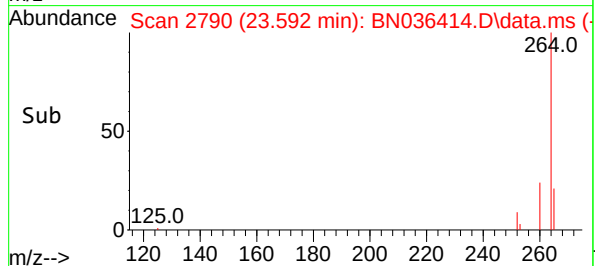
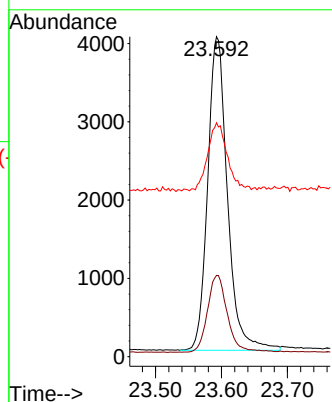
Tgt Ion:264 Resp: 8327

Ion Ratio Lower Upper

264 100

260 25.4 20.9 31.3

265 73.1 60.7 91.1



#36

Indeno(1,2,3-cd)pyrene

Concen: 3.320 ng

RT: 25.890 min Scan# 3576

Delta R.T. -0.009 min

Lab File: BN036414.D

Acq: 10 Feb 2025 15:24

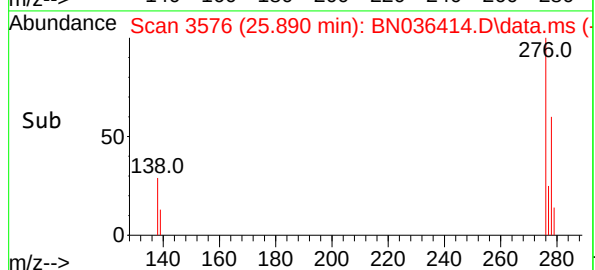
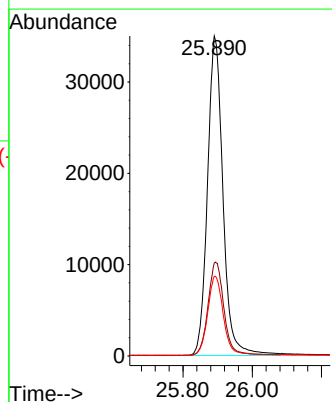
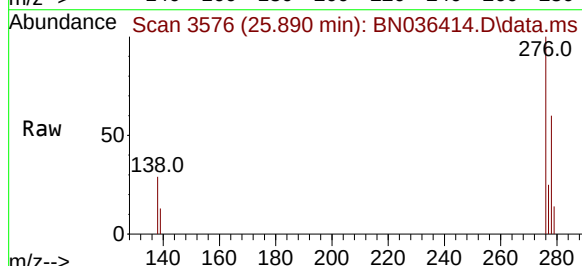
Tgt Ion:276 Resp: 108596

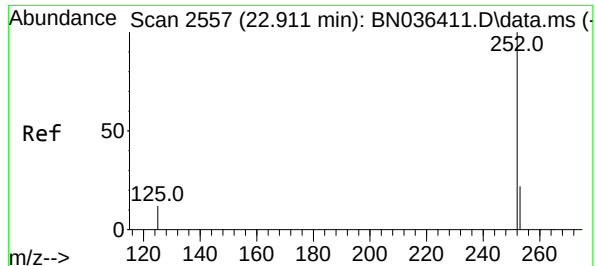
Ion Ratio Lower Upper

276 100

138 29.9 22.2 33.2

277 25.1 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 3.445 ng

RT: 22.905 min Scan# 2555

Delta R.T. -0.006 min

Lab File: BN036414.D

Acq: 10 Feb 2025 15:24

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

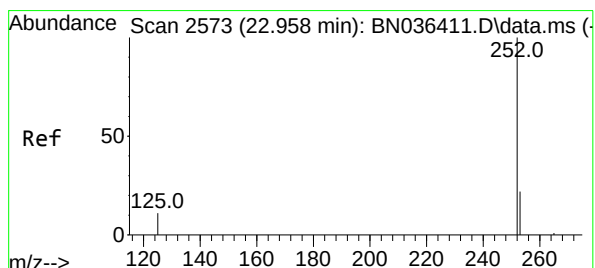
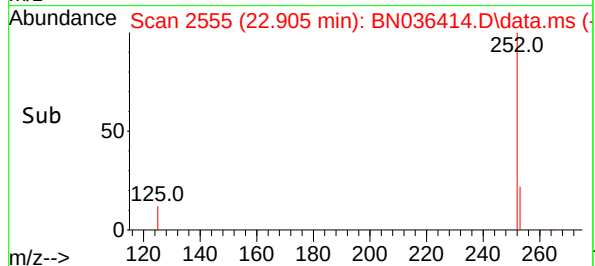
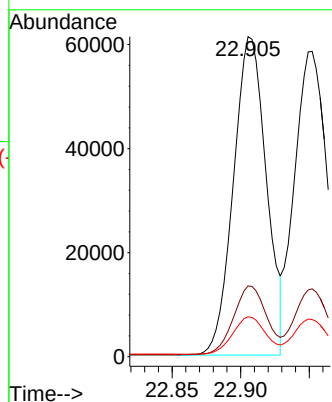
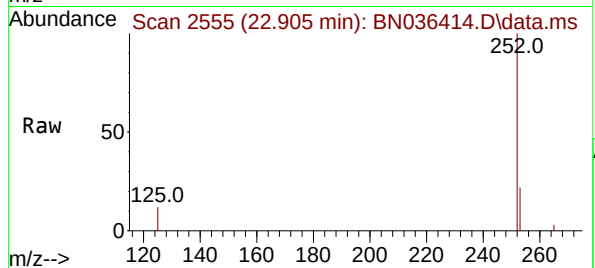
Tgt Ion:252 Resp: 101833

Ion Ratio Lower Upper

252 100

253 22.1 21.9 32.9

125 12.5 15.0 22.6#



#38

Benzo(k)fluoranthene

Concen: 3.385 ng

RT: 22.952 min Scan# 2571

Delta R.T. -0.006 min

Lab File: BN036414.D

Acq: 10 Feb 2025 15:24

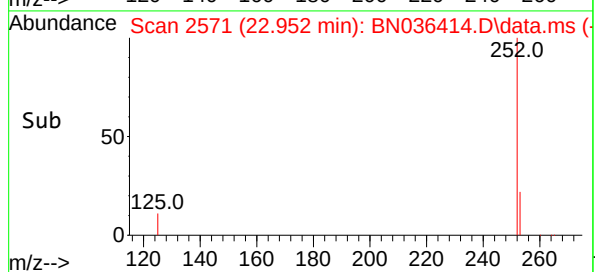
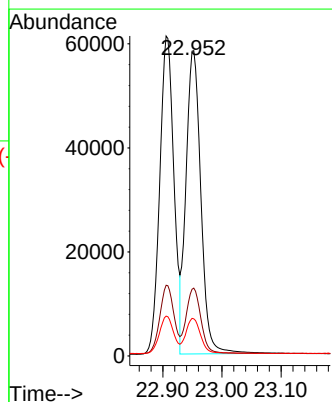
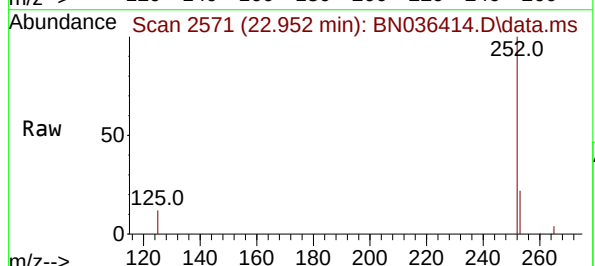
Tgt Ion:252 Resp: 102040

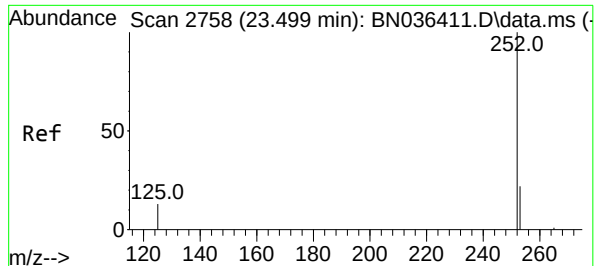
Ion Ratio Lower Upper

252 100

253 22.2 22.2 33.4#

125 12.2 15.0 22.4#





#39

Benzo(a)pyrene

Concen: 3.437 ng

RT: 23.490 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN036414.D

Acq: 10 Feb 2025 15:24

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

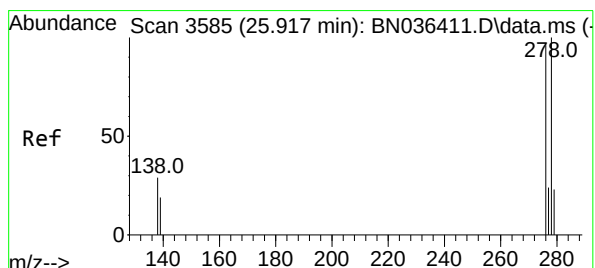
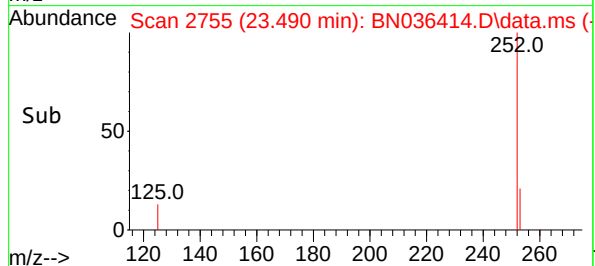
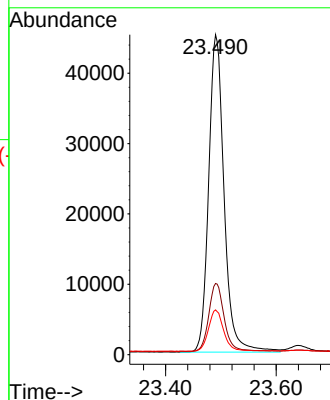
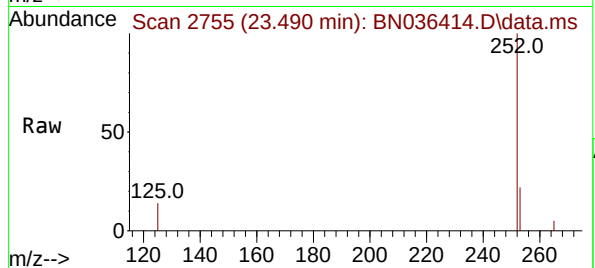
Tgt Ion:252 Resp: 87191

Ion Ratio Lower Upper

252 100

253 22.2 24.4 36.6#

125 14.0 18.2 27.2#



#40

Dibenzo(a,h)anthracene

Concen: 3.343 ng

RT: 25.905 min Scan# 3581

Delta R.T. -0.012 min

Lab File: BN036414.D

Acq: 10 Feb 2025 15:24

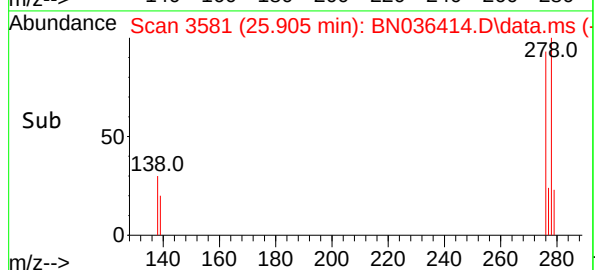
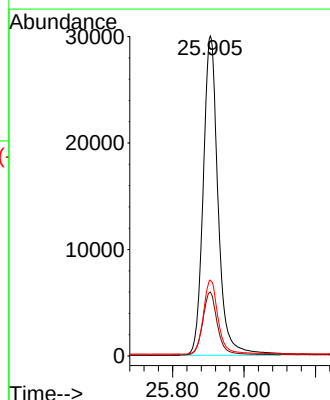
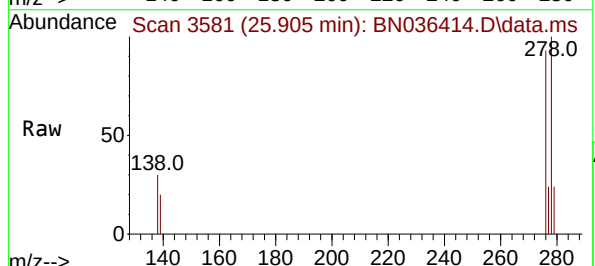
Tgt Ion:278 Resp: 86887

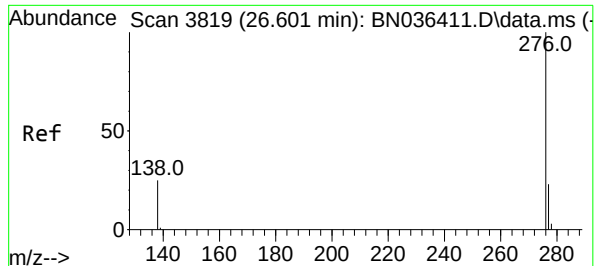
Ion Ratio Lower Upper

278 100

139 20.0 18.5 27.7

279 23.7 24.8 37.2#





#41

Benzo(g,h,i)perylene

Concen: 3.269 ng

RT: 26.592 min Scan# 3816

Delta R.T. -0.009 min

Lab File: BN036414.D

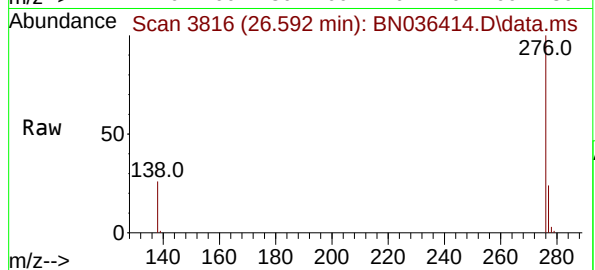
Acq: 10 Feb 2025 15:24

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



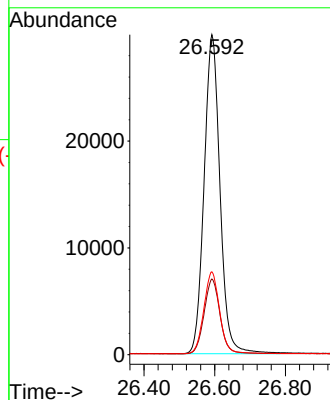
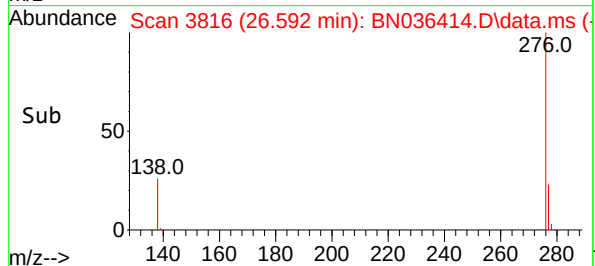
Tgt Ion:276 Resp: 93260

Ion Ratio Lower Upper

276 100

277 23.7 20.7 31.1

138 25.9 21.8 32.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
 Data File : BN036415.D
 Acq On : 10 Feb 2025 16:00
 Operator : RC/JU
 Sample : SSTDICC5.0
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC5.0

Quant Time: Feb 11 00:37:30 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 00:33:05 2025
 Response via : Initial Calibration

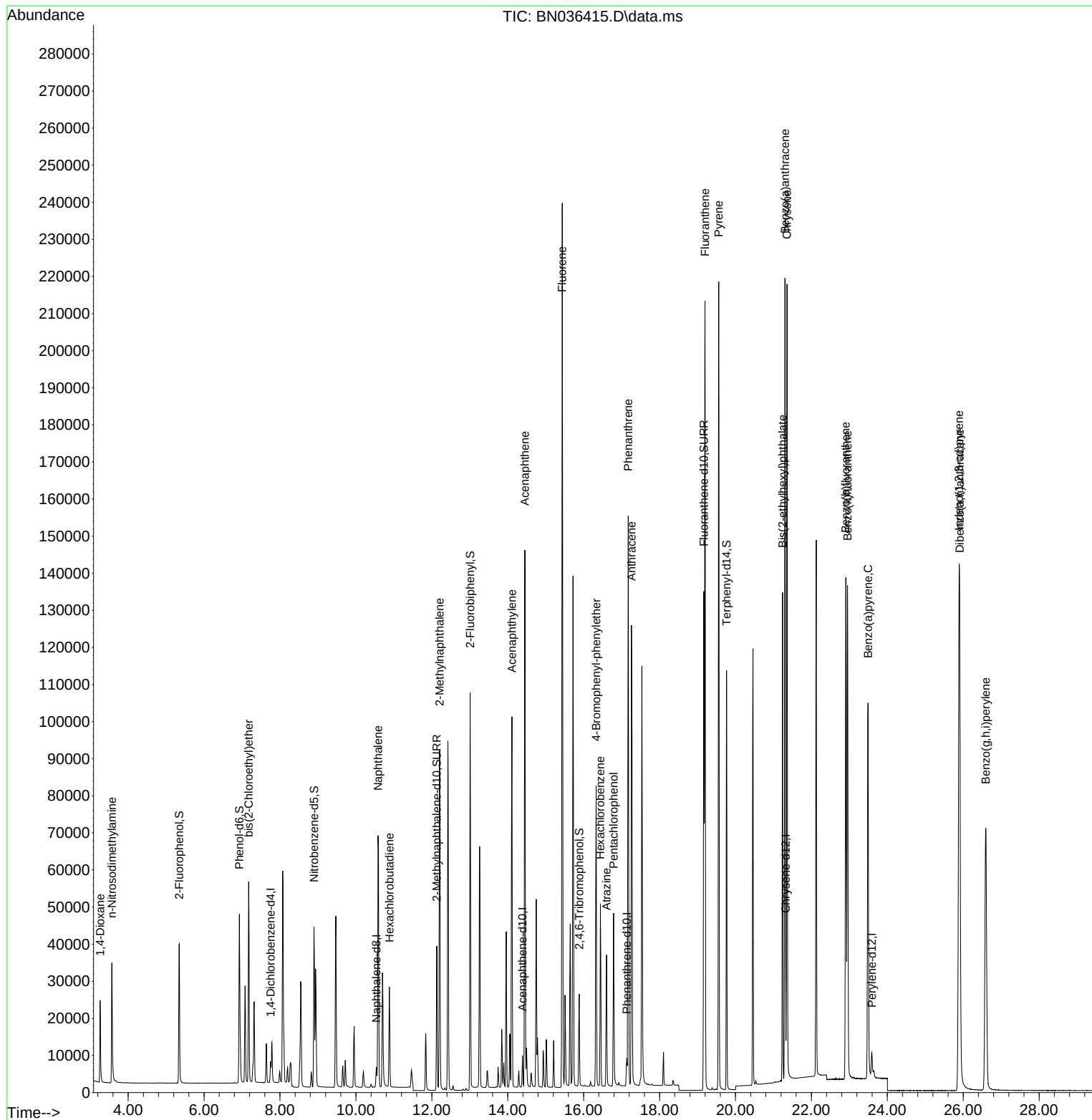
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.753	152	2586	0.400	ng	0.00
7) Naphthalene-d8	10.541	136	6761	0.400	ng	# 0.00
13) Acenaphthene-d10	14.388	164	4542	0.400	ng	0.00
19) Phenanthrene-d10	17.136	188	9953	0.400	ng	# 0.00
29) Chrysene-d12	21.322	240	9960	0.400	ng	# 0.00
35) Perylene-d12	23.592	264	9411	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.348	112	28619	4.348	ng	0.00
5) Phenol-d6	6.930	99	37616	4.898	ng	0.00
8) Nitrobenzene-d5	8.897	82	32241	5.118	ng	-0.01
11) 2-Methylnaphthalene-d10	12.131	152	52187	5.642	ng	-0.01
14) 2,4,6-Tribromophenol	15.883	330	12444	4.447	ng	0.00
15) 2-Fluorobiphenyl	13.009	172	88478	4.567	ng	-0.01
27) Fluoranthene-d10	19.164	212	143795	5.615	ng	0.00
31) Terphenyl-d14	19.764	244	104936	5.088	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.261	88	12303	4.303	ng	97
3) n-Nitrosodimethylamine	3.572	42	21660	4.216	ng	# 99
6) bis(2-Chloroethyl)ether	7.176	93	35791	5.604	ng	99
9) Naphthalene	10.584	128	90689	4.696	ng	97
10) Hexachlorobutadiene	10.883	225	21383	3.534	ng	# 100
12) 2-Methylnaphthalene	12.207	142	63405	5.226	ng	97
16) Acenaphthylene	14.110	152	103358	4.917	ng	99
17) Acenaphthene	14.452	154	66375	4.612	ng	97
18) Fluorene	15.435	166	93442	5.045	ng	96
21) 4-Bromophenyl-phenylether	16.329	248	29550	4.334	ng	# 86
22) Hexachlorobenzene	16.441	284	35446	3.983	ng	97
23) Atrazine	16.602	200	26508	5.288	ng	92
24) Pentachlorophenol	16.789	266	20784	5.340	ng	99
25) Phenanthrene	17.173	178	143424	4.916	ng	100
26) Anthracene	17.260	178	135332	5.105	ng	100
28) Fluoranthene	19.197	202	181794	5.257	ng	99
30) Pyrene	19.559	202	185711	4.666	ng	100
32) Benzo(a)anthracene	21.304	228	169514	4.790	ng	99
33) Chrysene	21.358	228	170028	4.687	ng	97
34) Bis(2-ethylhexyl)phtha...	21.241	149	101929	5.168	ng	99
36) Indeno(1,2,3-cd)pyrene	25.890	276	172989	4.679	ng	97
37) Benzo(b)fluoranthene	22.905	252	166596	4.986	ng	# 88
38) Benzo(k)fluoranthene	22.952	252	166186	4.879	ng	# 88
39) Benzo(a)pyrene	23.490	252	141837	4.947	ng	# 83
40) Dibenzo(a,h)anthracene	25.905	278	138330	4.709	ng	# 89
41) Benzo(g,h,i)perylene	26.595	276	146932	4.557	ng	96

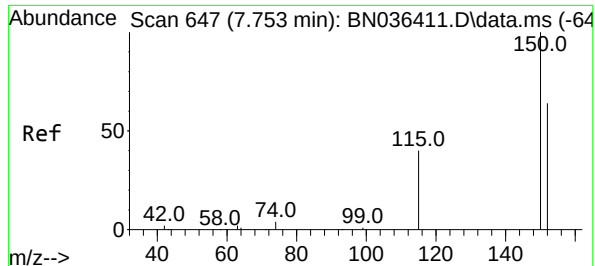
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
Data File : BN036415.D
Acq On : 10 Feb 2025 16:00
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Feb 11 00:37:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 11 00:33:05 2025
Response via : Initial Calibration

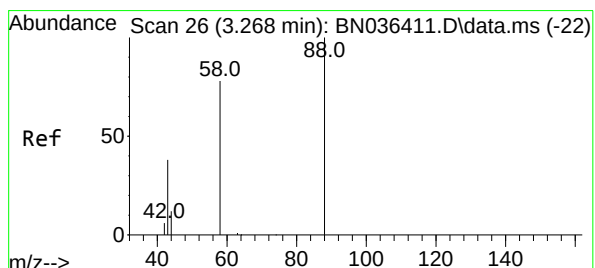
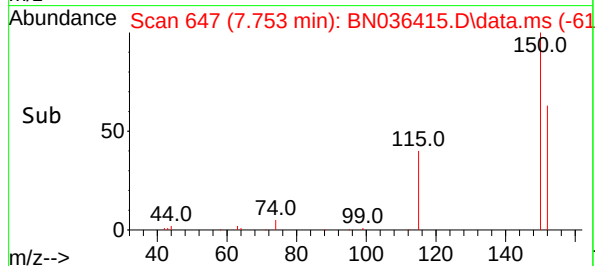
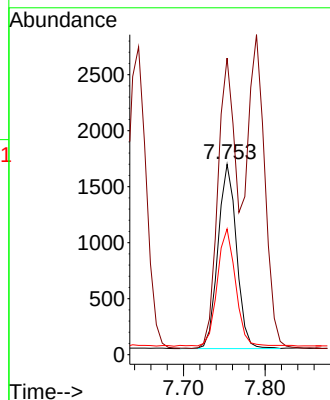
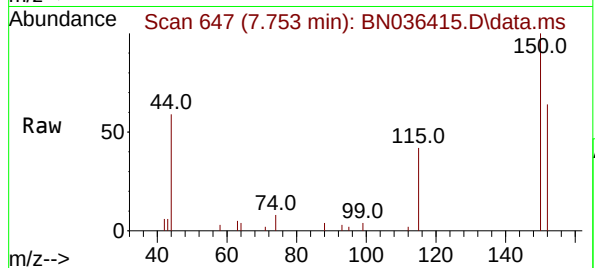




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.753 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

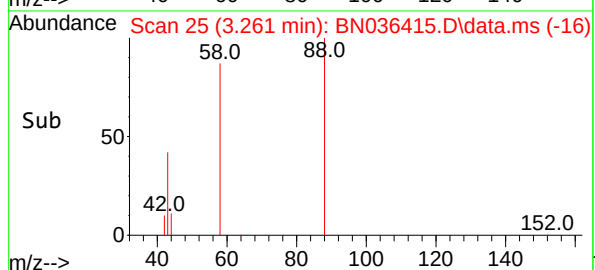
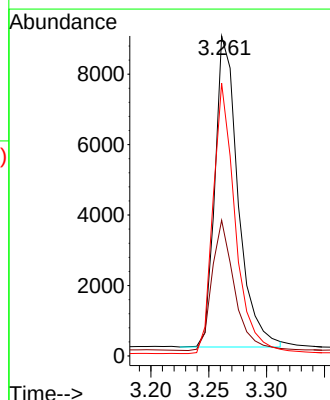
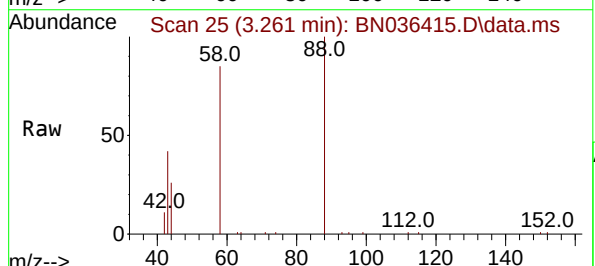
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

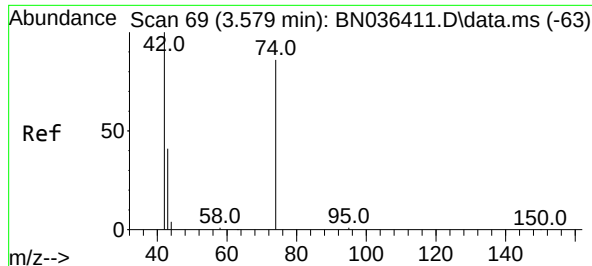
Tgt Ion:152 Resp: 2586
Ion Ratio Lower Upper
152 100
150 155.8 123.7 185.5
115 66.1 52.5 78.7



#2
1,4-Dioxane
Concen: 4.303 ng
RT: 3.261 min Scan# 25
Delta R.T. -0.007 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

Tgt Ion: 88 Resp: 12303
Ion Ratio Lower Upper
88 100
43 40.4 33.7 50.5
58 82.9 68.9 103.3

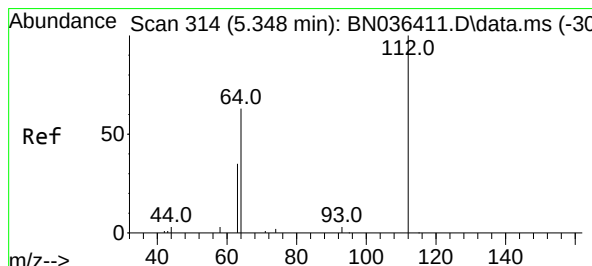
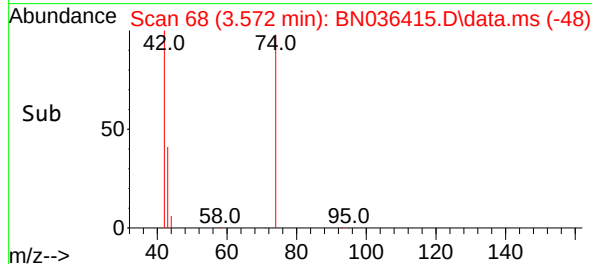
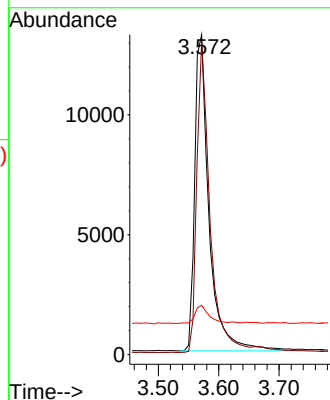
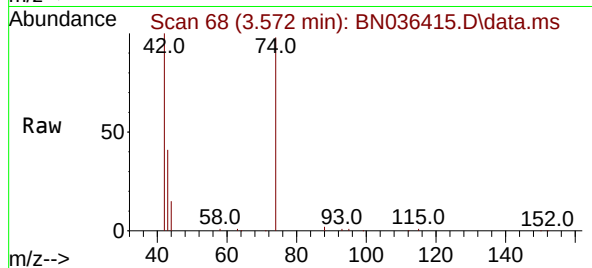




#3
n-Nitrosodimethylamine
Concen: 4.216 ng
RT: 3.572 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

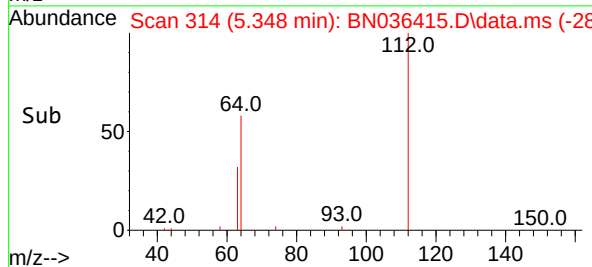
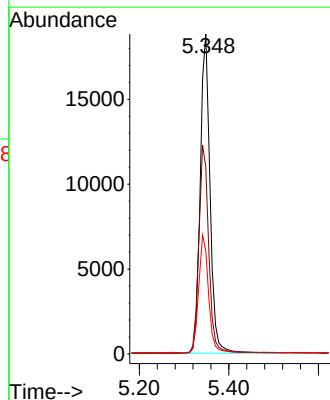
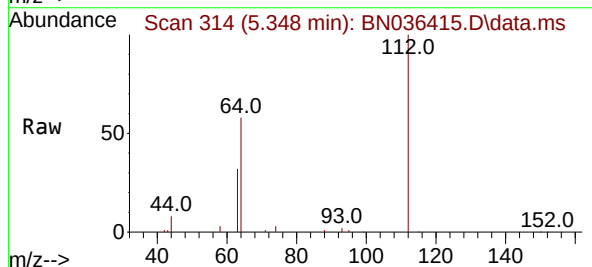
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

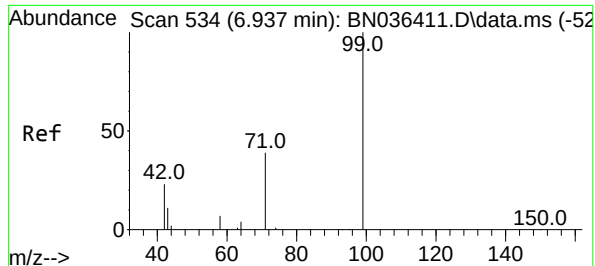
Tgt Ion: 42 Resp: 21660
Ion Ratio Lower Upper
42 100
74 89.7 71.8 107.6
44 5.6 7.8 11.6#



#4
2-Fluorophenol
Concen: 4.348 ng
RT: 5.348 min Scan# 314
Delta R.T. 0.000 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

Tgt Ion: 112 Resp: 28619
Ion Ratio Lower Upper
112 100
64 66.1 53.4 80.0
63 37.1 30.3 45.5

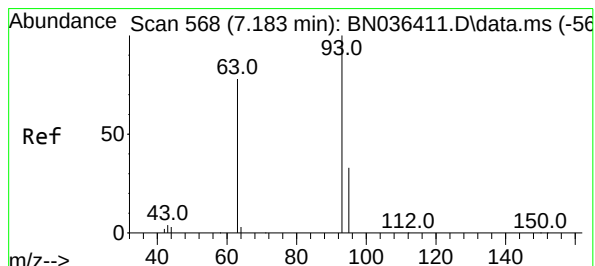
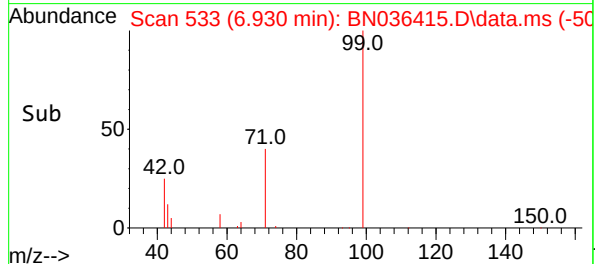
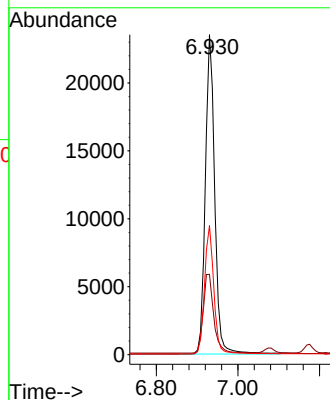
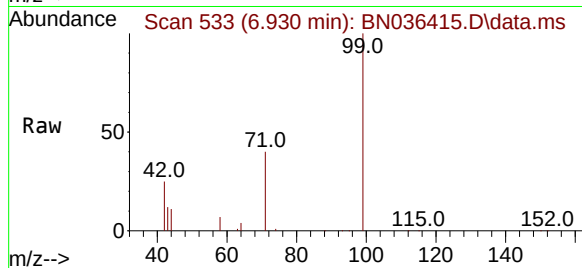




#5
Phenol-d6
Concen: 4.898 ng
RT: 6.930 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

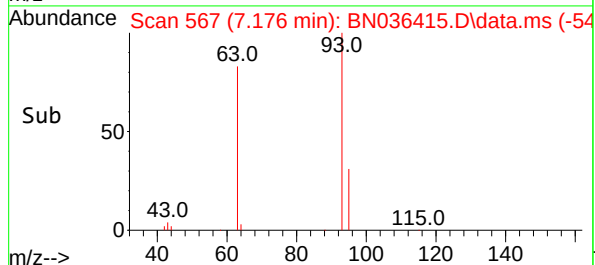
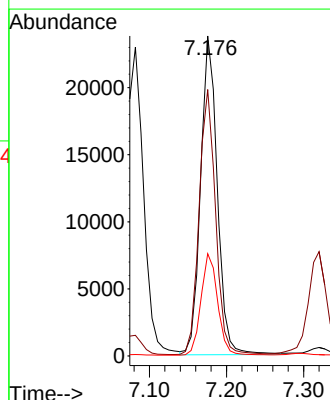
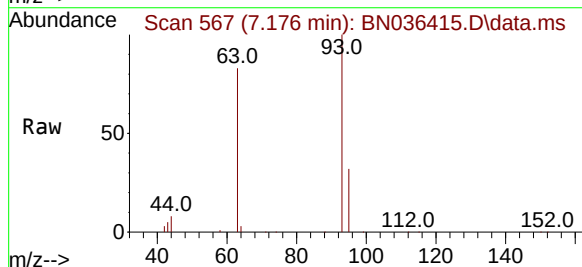
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

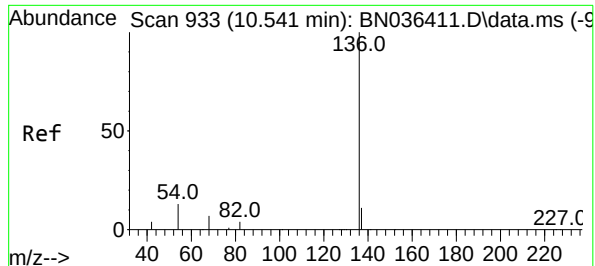
Tgt Ion: 99 Resp: 37616
Ion Ratio Lower Upper
99 100
42 27.6 21.7 32.5
71 40.0 32.6 49.0



#6
bis(2-Chloroethyl)ether
Concen: 5.604 ng
RT: 7.176 min Scan# 567
Delta R.T. -0.007 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

Tgt Ion: 93 Resp: 35791
Ion Ratio Lower Upper
93 100
63 81.8 66.3 99.5
95 31.7 26.2 39.4

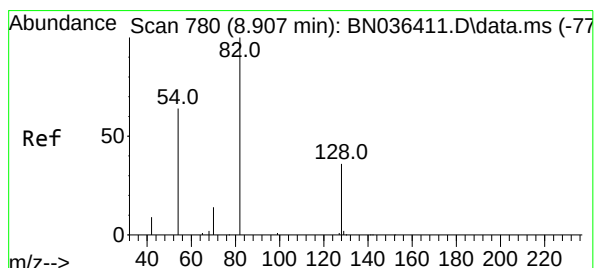
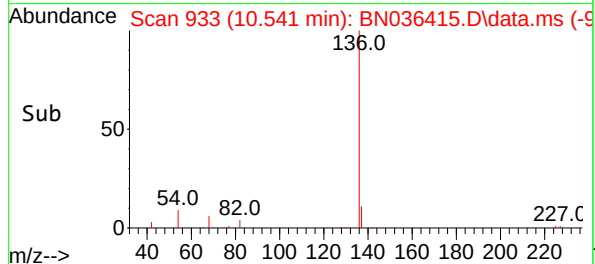
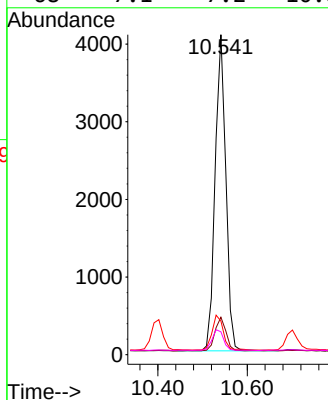
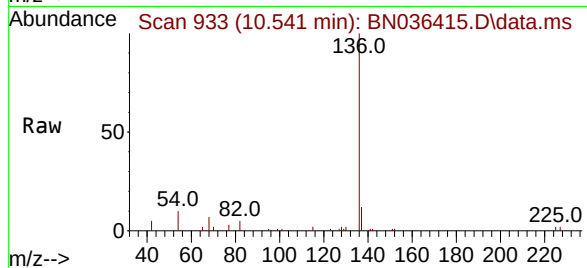




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.541 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

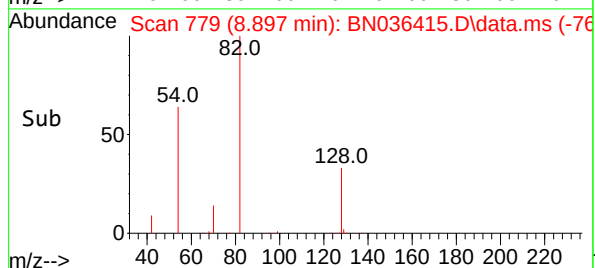
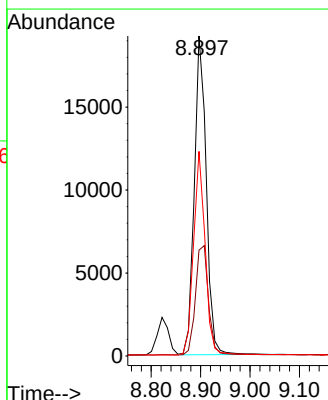
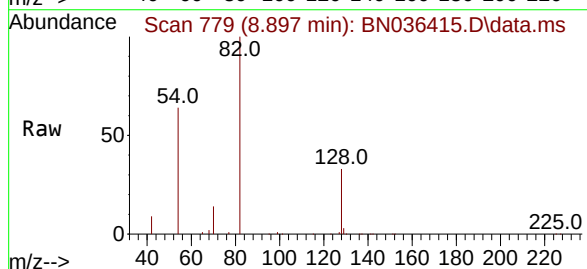
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

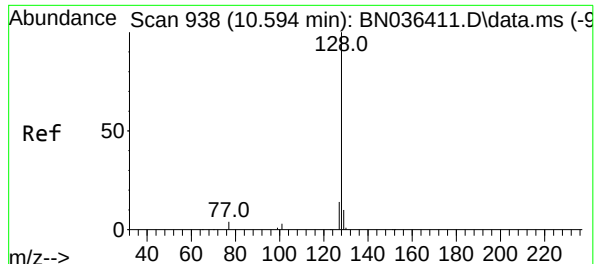
Tgt Ion:	136	Resp:	6761
Ion	Ratio	Lower	Upper
136	100		
137	11.7	10.1	15.1
54	10.5	11.8	17.6#
68	7.1	7.2	10.8#



#8
Nitrobenzene-d5
Concen: 5.118 ng
RT: 8.897 min Scan# 779
Delta R.T. -0.011 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

Tgt Ion:	82	Resp:	32241
Ion	Ratio	Lower	Upper
82	100		
128	33.1	31.9	47.9
54	64.0	53.1	79.7





#9

Naphthalene

Concen: 4.696 ng

RT: 10.584 min Scan# 91

Delta R.T. -0.011 min

Lab File: BN036415.D

Acq: 10 Feb 2025 16:00

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

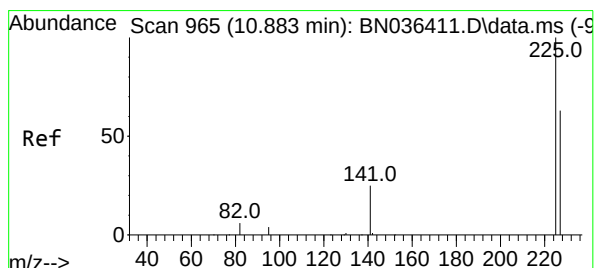
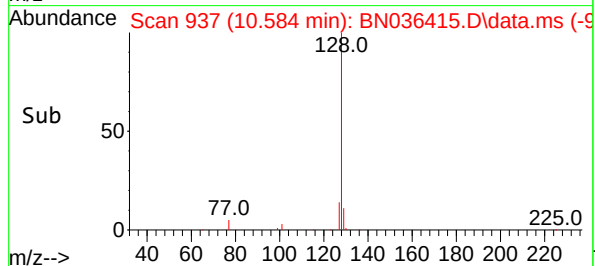
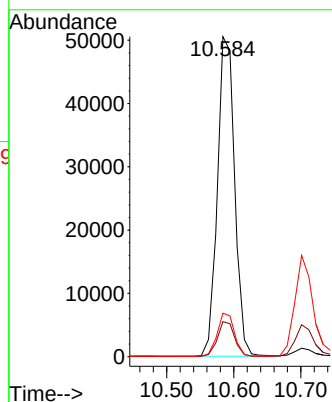
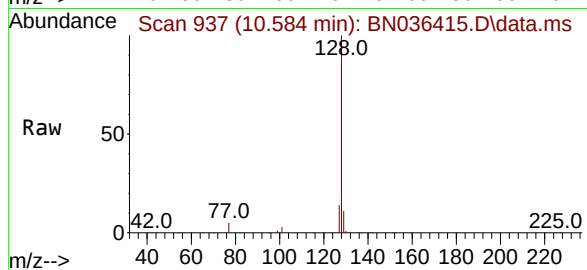
Tgt Ion:128 Resp: 90689

Ion Ratio Lower Upper

128 100

129 10.9 9.6 14.4

127 13.6 12.0 18.0



#10

Hexachlorobutadiene

Concen: 3.534 ng

RT: 10.883 min Scan# 965

Delta R.T. 0.000 min

Lab File: BN036415.D

Acq: 10 Feb 2025 16:00

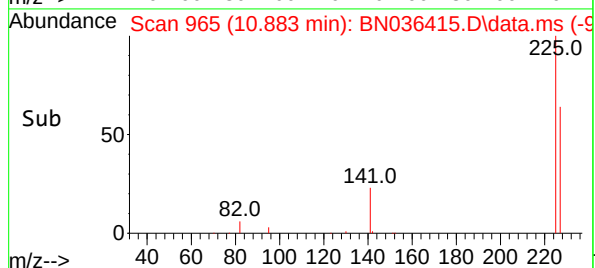
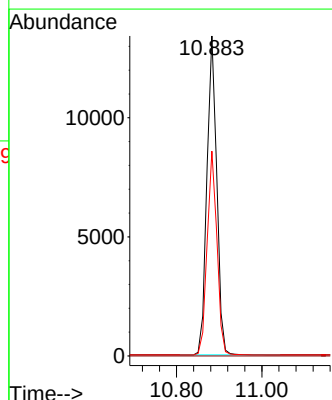
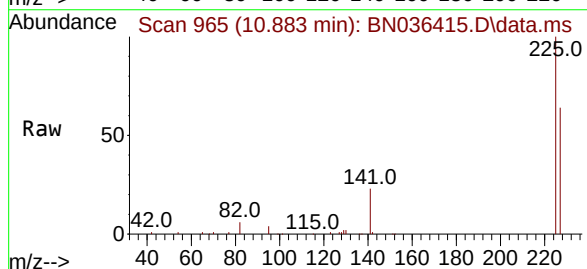
Tgt Ion:225 Resp: 21383

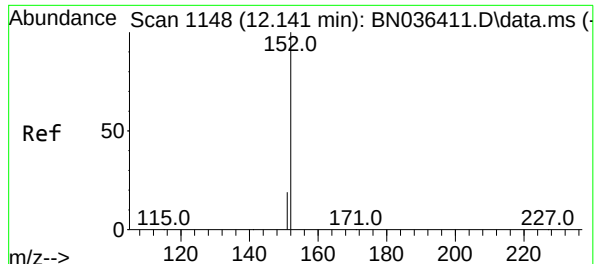
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.5 50.9 76.3

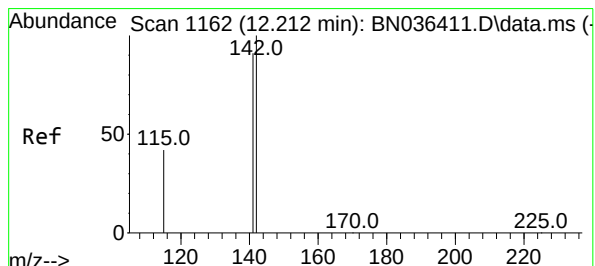
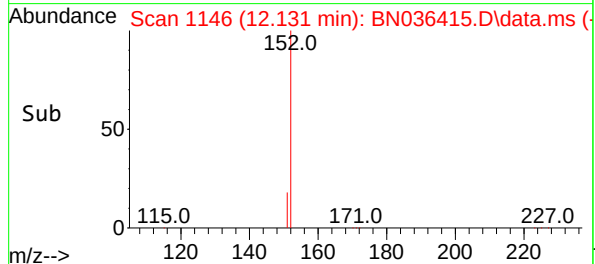
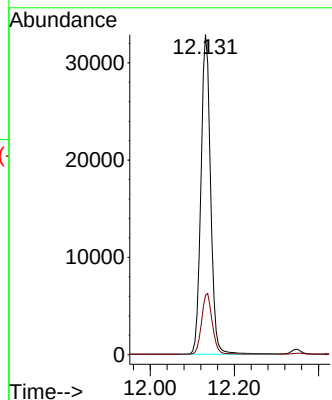
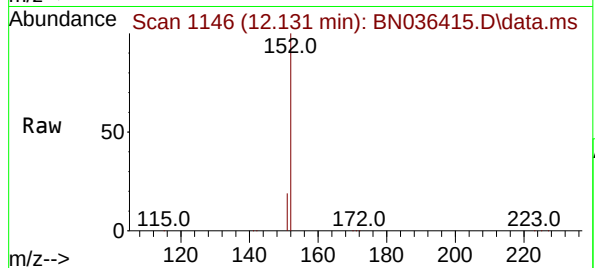




#11
2-Methylnaphthalene-d10
Concen: 5.642 ng
RT: 12.131 min Scan# 1148
Delta R.T. -0.010 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

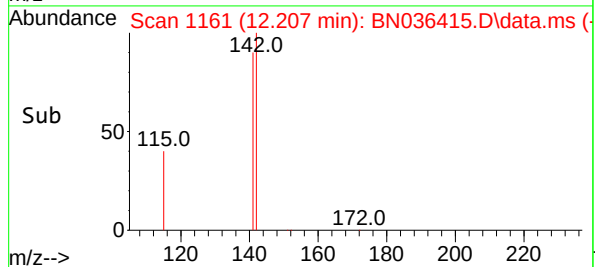
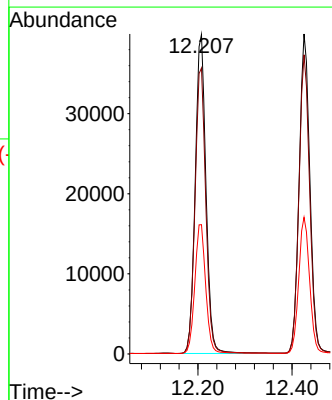
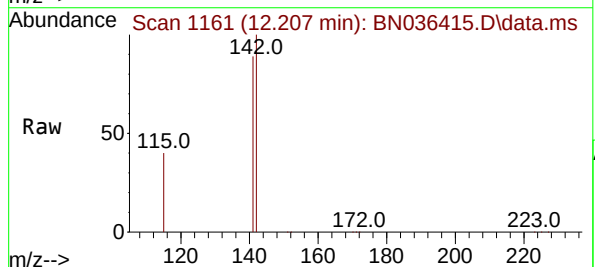
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

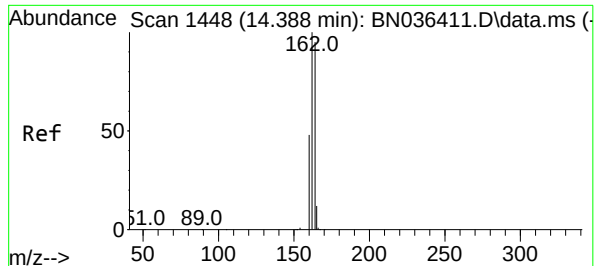
Tgt Ion:152 Resp: 52187
Ion Ratio Lower Upper
152 100
151 21.0 16.6 25.0



#12
2-Methylnaphthalene
Concen: 5.226 ng
RT: 12.207 min Scan# 1161
Delta R.T. -0.005 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

Tgt Ion:142 Resp: 63405
Ion Ratio Lower Upper
142 100
141 89.5 72.8 109.2
115 40.5 35.5 53.3

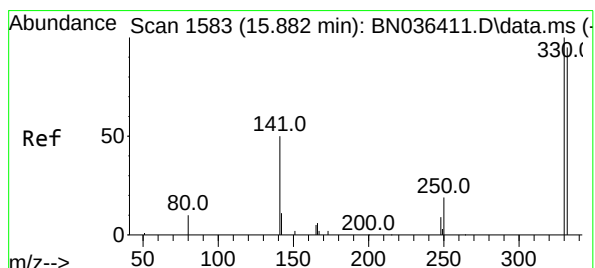
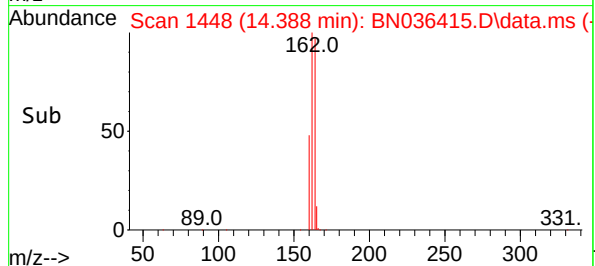
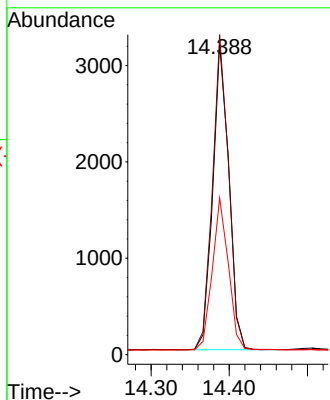
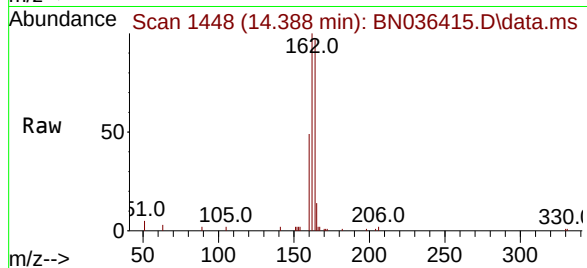




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.388 min Scan# 1448
Delta R.T. 0.000 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

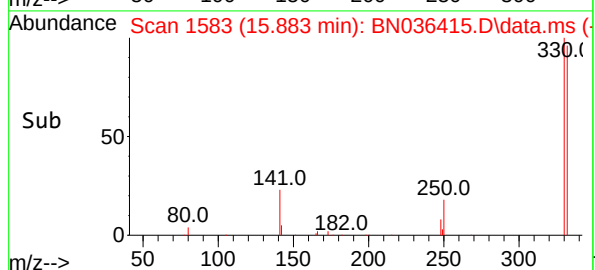
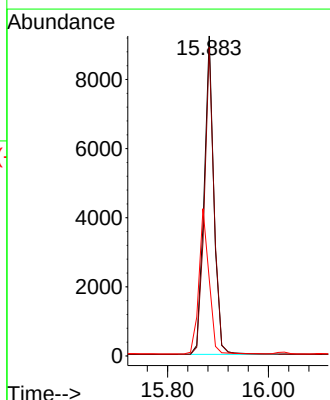
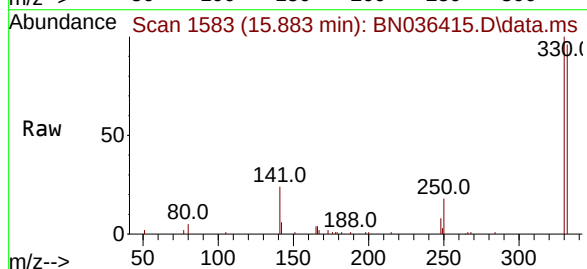
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

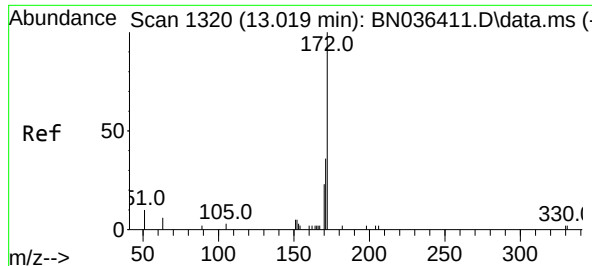
Tgt Ion:164 Resp: 4542
Ion Ratio Lower Upper
164 100
162 102.9 84.1 126.1
160 50.4 41.4 62.0



#14
2,4,6-Tribromophenol
Concen: 4.447 ng
RT: 15.883 min Scan# 1583
Delta R.T. 0.000 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

Tgt Ion:330 Resp: 12444
Ion Ratio Lower Upper
330 100
332 95.6 76.6 114.8
141 46.6 37.8 56.8





#15

2-Fluorobiphenyl

Concen: 4.567 ng

RT: 13.009 min Scan# 1319

Delta R.T. -0.011 min

Lab File: BN036415.D

Acq: 10 Feb 2025 16:00

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

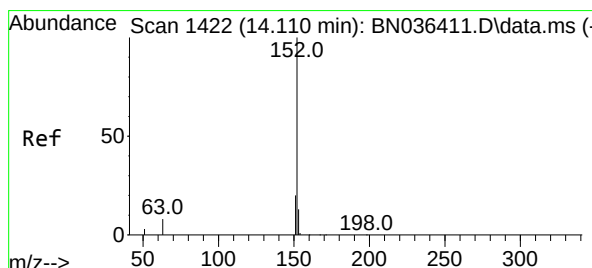
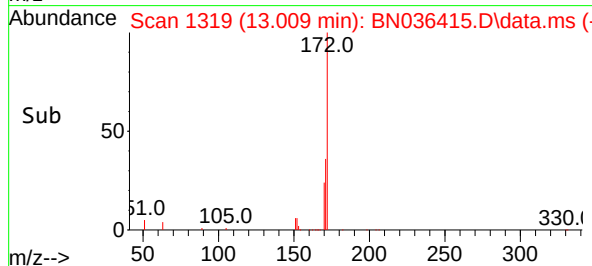
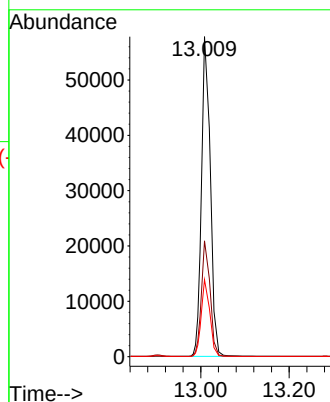
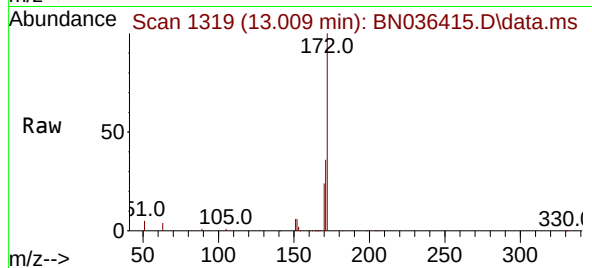
Tgt Ion:172 Resp: 88478

Ion Ratio Lower Upper

172 100

171 36.2 29.6 44.4

170 24.0 19.8 29.6



#16

Acenaphthylene

Concen: 4.917 ng

RT: 14.110 min Scan# 1422

Delta R.T. 0.000 min

Lab File: BN036415.D

Acq: 10 Feb 2025 16:00

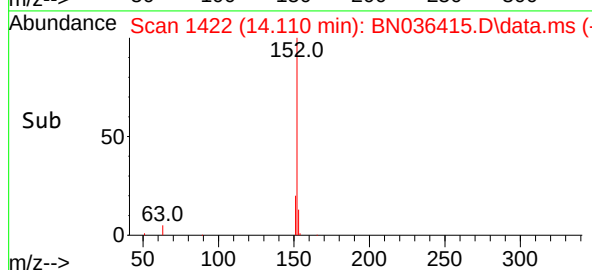
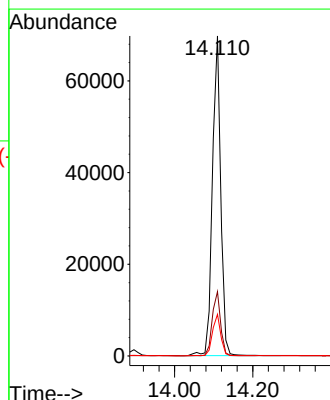
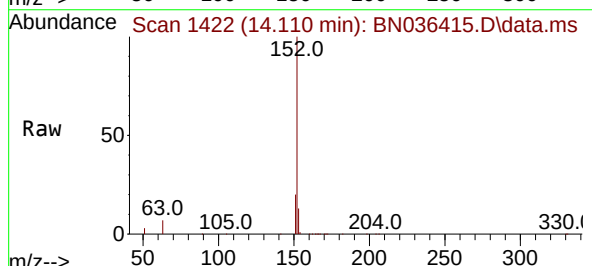
Tgt Ion:152 Resp: 103358

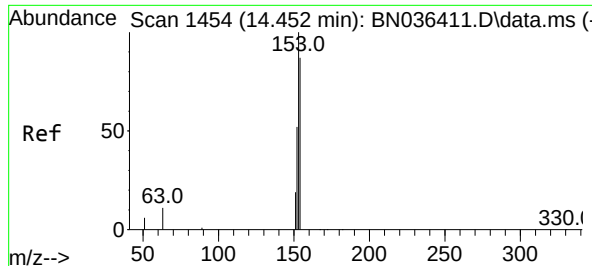
Ion Ratio Lower Upper

152 100

151 20.1 15.8 23.8

153 12.9 10.2 15.2

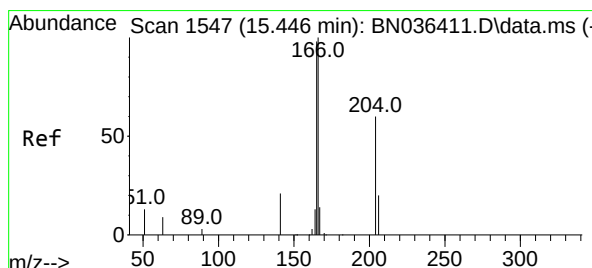
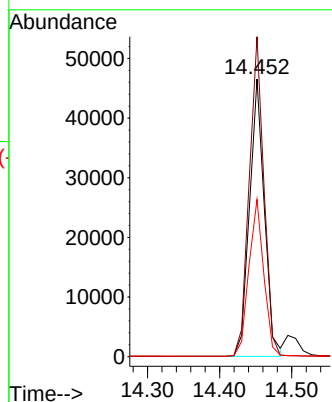
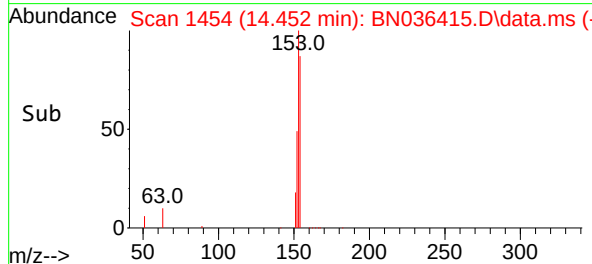
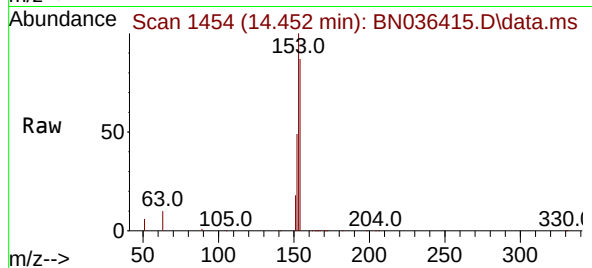




#17
Acenaphthene
Concen: 4.612 ng
RT: 14.452 min Scan# 1454
Delta R.T. 0.000 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

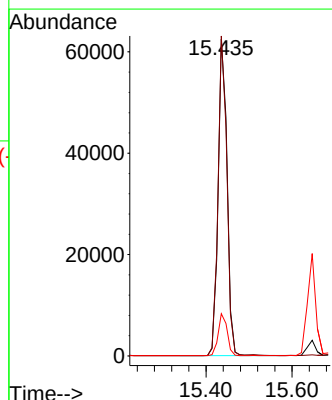
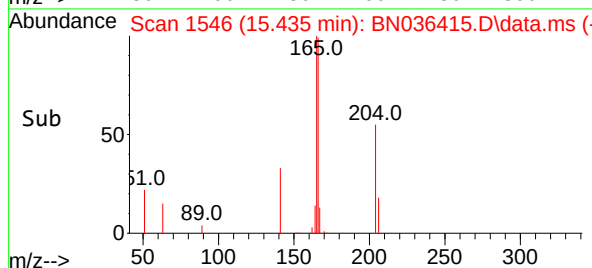
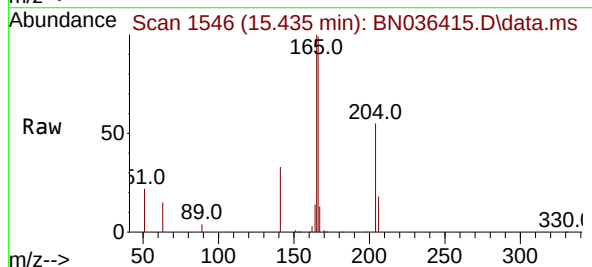
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

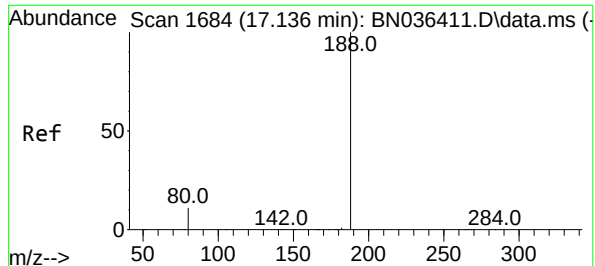
Tgt Ion:154 Resp: 66375
Ion Ratio Lower Upper
154 100
153 114.4 93.3 139.9
152 57.1 48.8 73.2



#18
Fluorene
Concen: 5.045 ng
RT: 15.435 min Scan# 1546
Delta R.T. -0.011 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

Tgt Ion:166 Resp: 93442
Ion Ratio Lower Upper
166 100
165 95.5 79.5 119.3
167 12.8 10.4 15.6





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.136 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036415.D

Acq: 10 Feb 2025 16:00

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

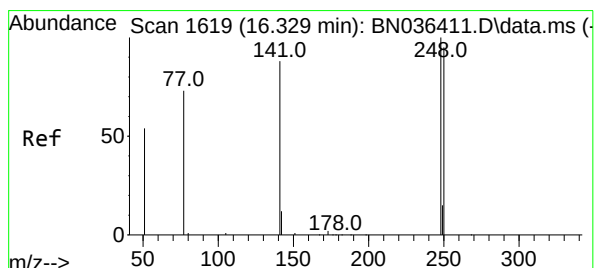
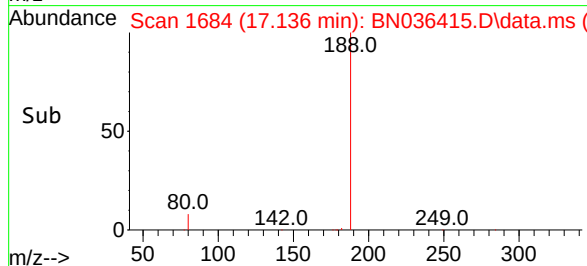
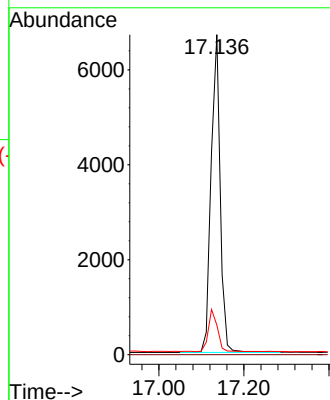
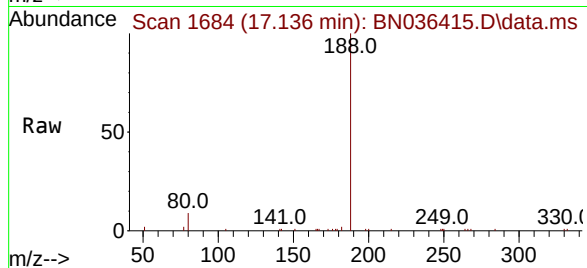
Tgt Ion:188 Resp: 9953

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.3 9.8 14.6#



#21

4-Bromophenyl-phenylether

Concen: 4.334 ng

RT: 16.329 min Scan# 1619

Delta R.T. 0.000 min

Lab File: BN036415.D

Acq: 10 Feb 2025 16:00

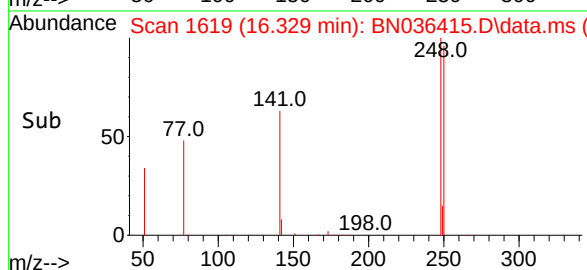
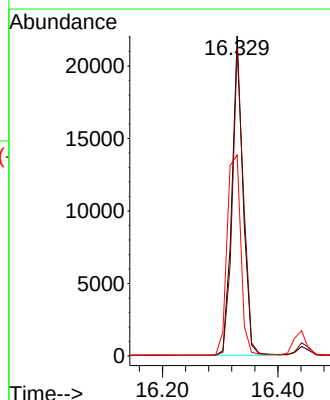
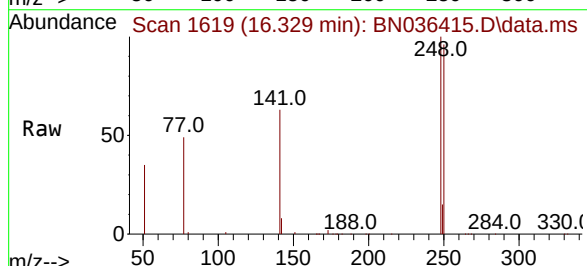
Tgt Ion:248 Resp: 29550

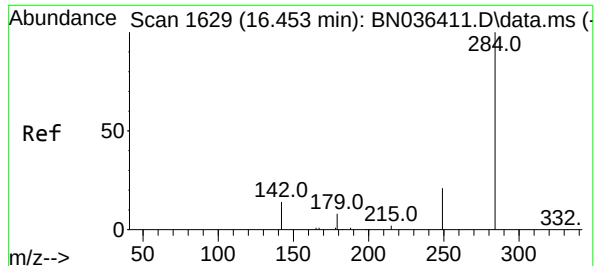
Ion Ratio Lower Upper

248 100

250 95.8 76.1 114.1

141 62.8 71.7 107.5#

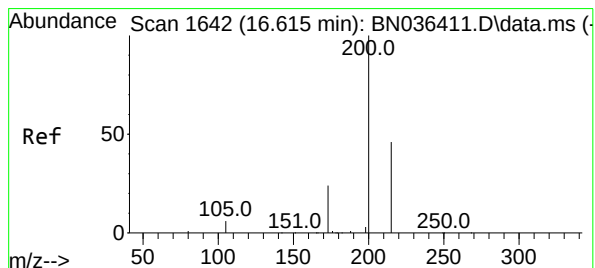
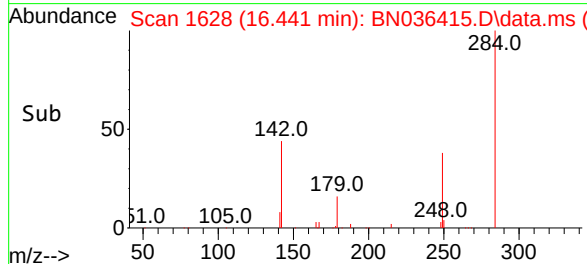
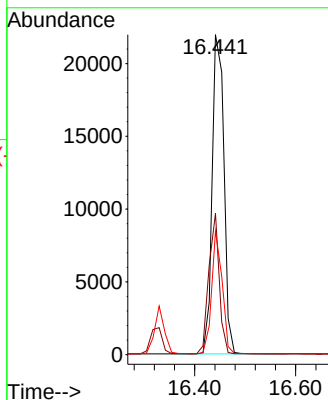
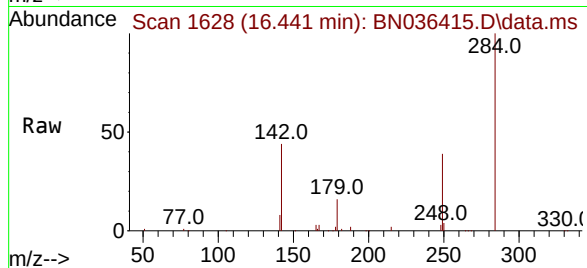




#22
Hexachlorobenzene
Concen: 3.983 ng
RT: 16.441 min Scan# 1628
Delta R.T. -0.012 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

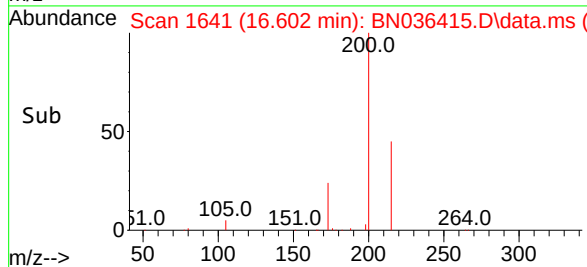
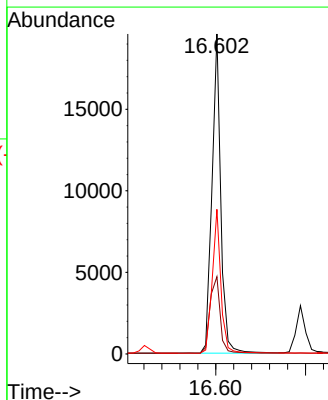
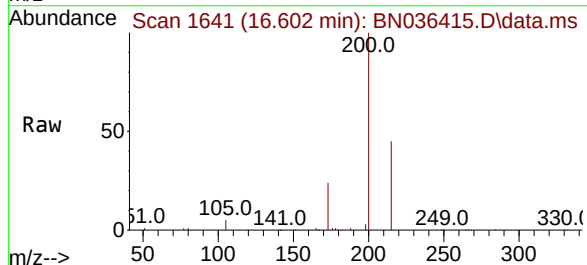
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

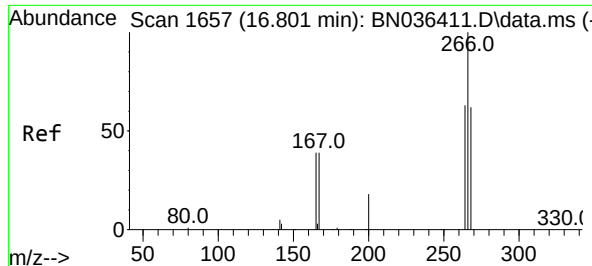
Tgt Ion:284 Resp: 35446
Ion Ratio Lower Upper
284 100
142 39.2 33.4 50.0
249 34.2 28.6 43.0



#23
Atrazine
Concen: 5.288 ng
RT: 16.602 min Scan# 1641
Delta R.T. -0.012 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

Tgt Ion:200 Resp: 26508
Ion Ratio Lower Upper
200 100
173 24.1 23.2 34.8
215 45.2 40.0 60.0

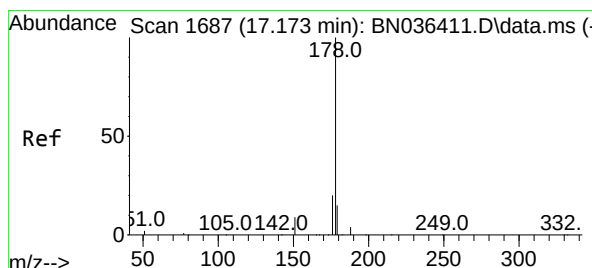
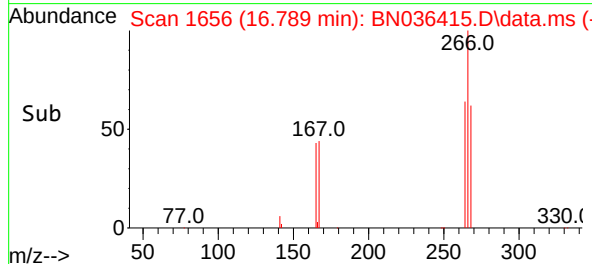
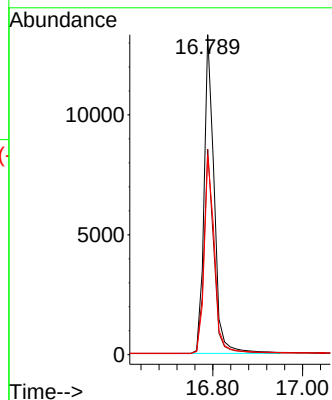
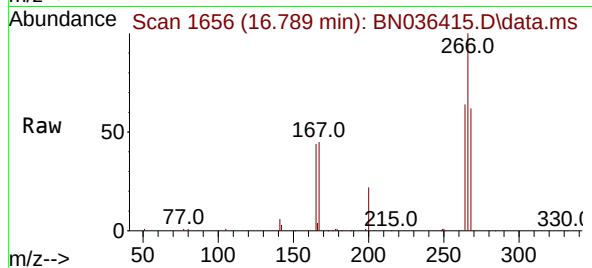




#24
Pentachlorophenol
Concen: 5.340 ng
RT: 16.789 min Scan# 1656
Delta R.T. -0.012 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

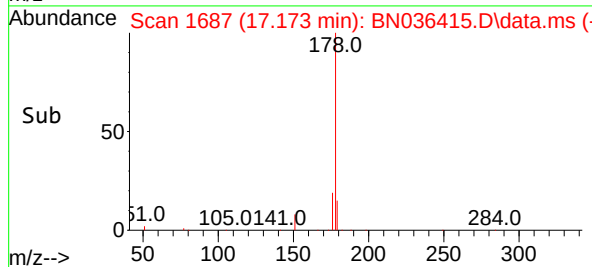
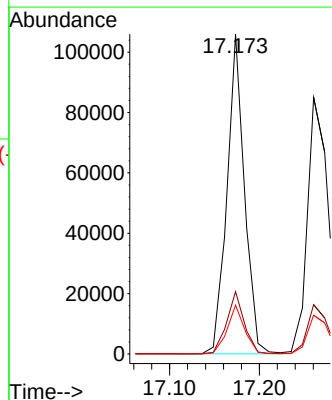
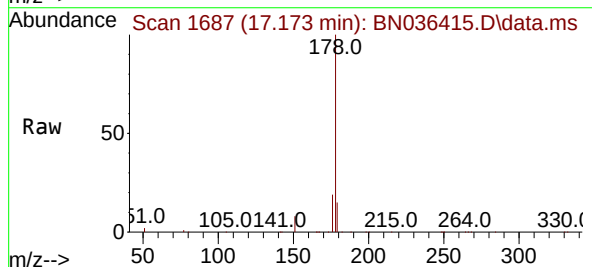
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

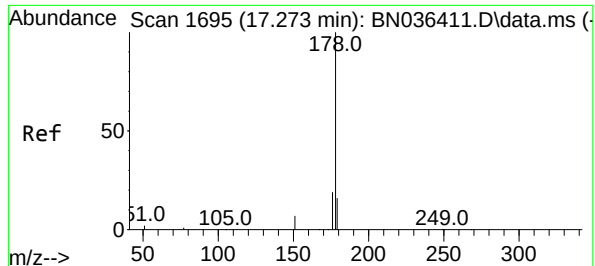
Tgt Ion:266 Resp: 20784
Ion Ratio Lower Upper
266 100
264 63.1 50.6 76.0
268 63.4 51.9 77.9



#25
Phenanthrene
Concen: 4.916 ng
RT: 17.173 min Scan# 1687
Delta R.T. 0.000 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

Tgt Ion:178 Resp: 143424
Ion Ratio Lower Upper
178 100
176 19.5 15.7 23.5
179 15.2 12.4 18.6

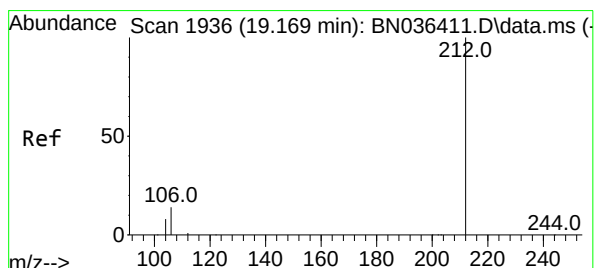
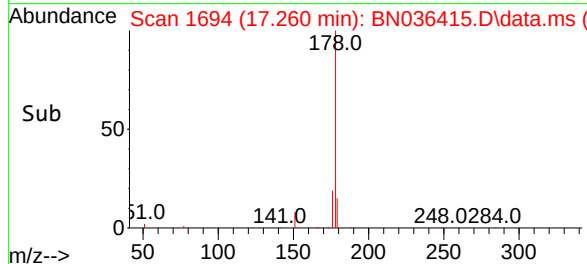
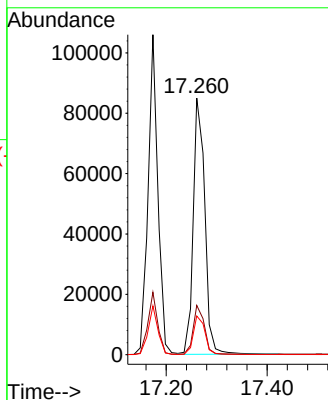
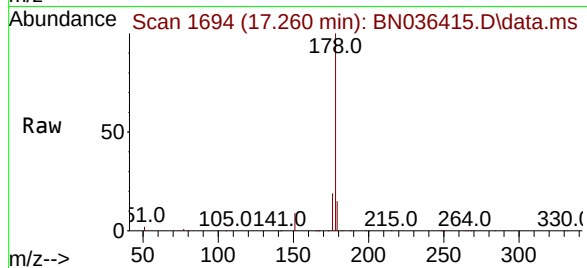




#26
Anthracene
Concen: 5.105 ng
RT: 17.260 min Scan# 1694
Delta R.T. -0.012 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

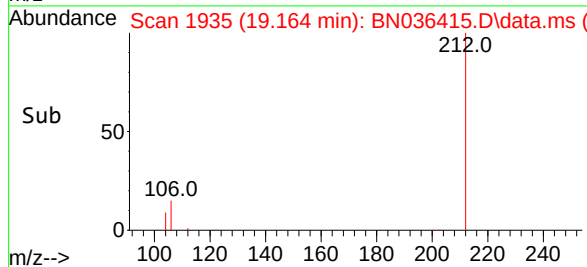
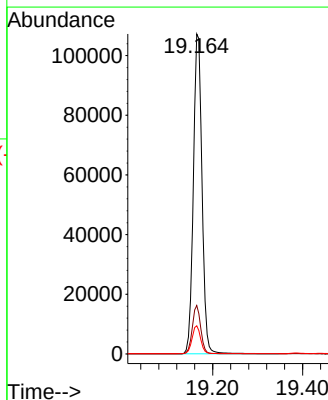
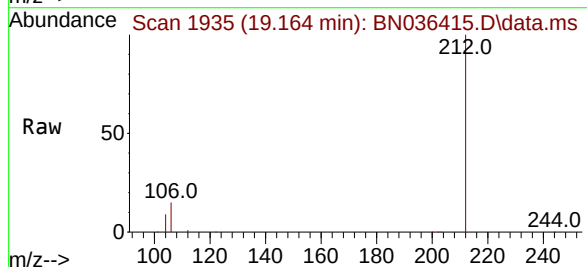
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

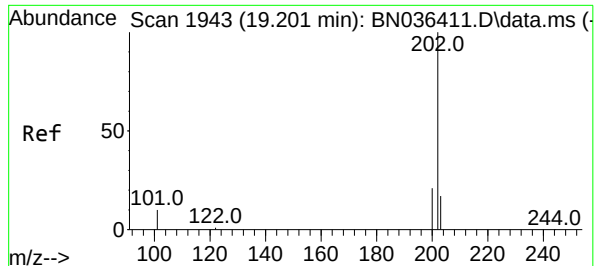
Tgt Ion:178 Resp: 135332
Ion Ratio Lower Upper
178 100
176 18.7 14.9 22.3
179 15.2 12.4 18.6



#27
Fluoranthene-d10
Concen: 5.615 ng
RT: 19.164 min Scan# 1935
Delta R.T. -0.005 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

Tgt Ion:212 Resp: 143795
Ion Ratio Lower Upper
212 100
106 14.7 11.5 17.3
104 8.6 7.1 10.7

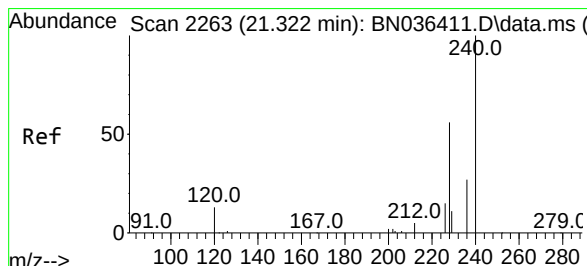
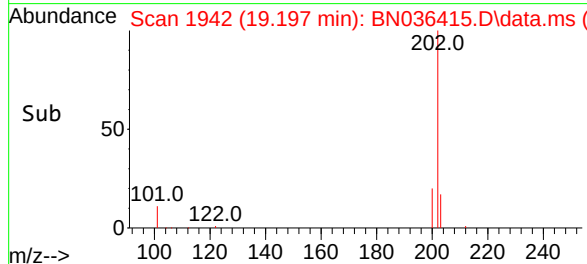
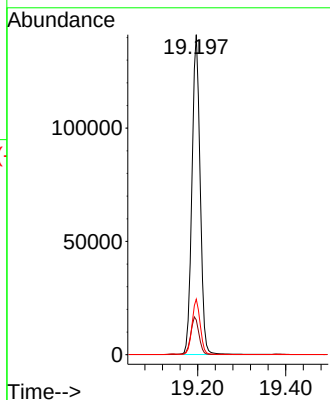
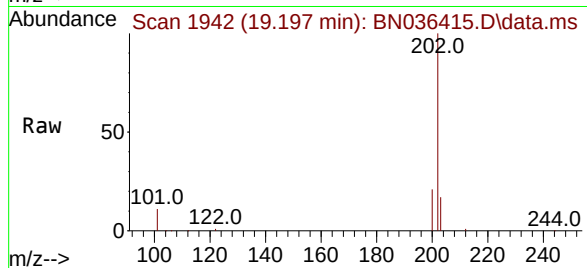




#28
Fluoranthene
Concen: 5.257 ng
RT: 19.197 min Scan# 1943
Delta R.T. -0.005 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

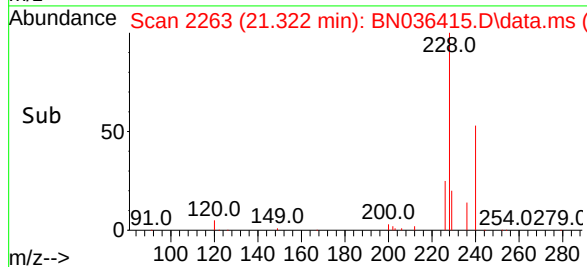
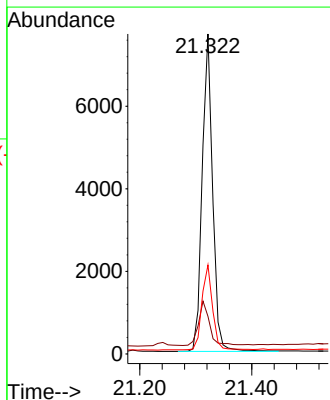
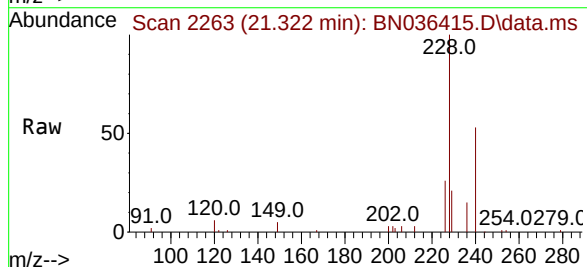
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

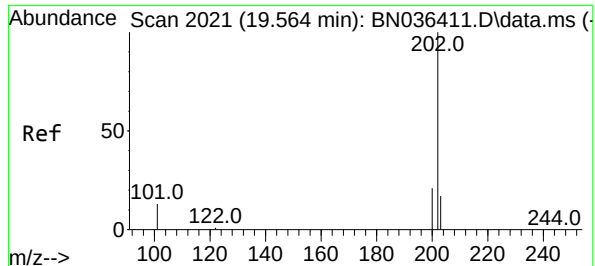
Tgt Ion:202 Resp: 181794
Ion Ratio Lower Upper
202 100
101 12.0 9.2 13.8
203 17.3 13.4 20.0



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.322 min Scan# 2263
Delta R.T. 0.000 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

Tgt Ion:240 Resp: 9960
Ion Ratio Lower Upper
240 100
120 11.8 13.3 19.9#
236 27.8 23.0 34.6





#30

Pyrene

Concen: 4.666 ng

RT: 19.559 min Scan# 20

Delta R.T. -0.005 min

Lab File: BN036415.D

Acq: 10 Feb 2025 16:00

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

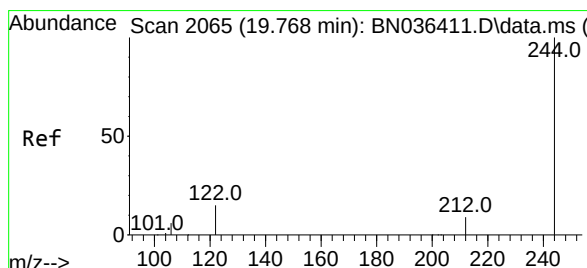
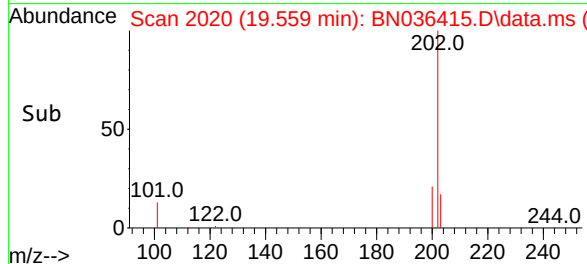
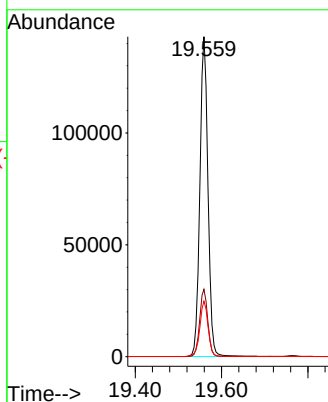
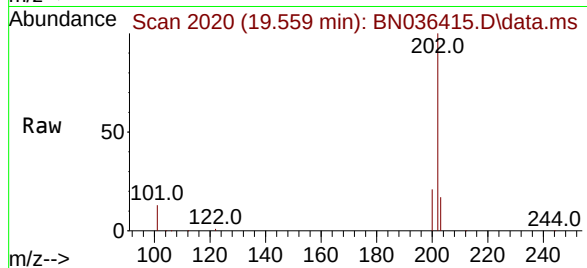
Tgt Ion:202 Resp: 185711

Ion Ratio Lower Upper

202 100

200 21.2 16.9 25.3

203 17.7 13.9 20.9



#31

Terphenyl-d14

Concen: 5.088 ng

RT: 19.764 min Scan# 2064

Delta R.T. -0.005 min

Lab File: BN036415.D

Acq: 10 Feb 2025 16:00

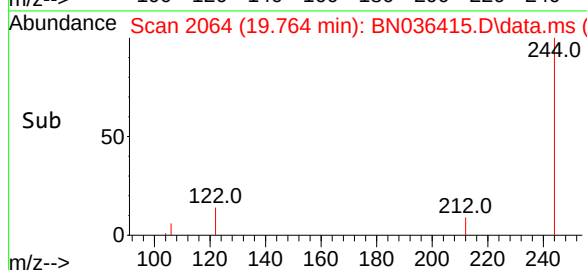
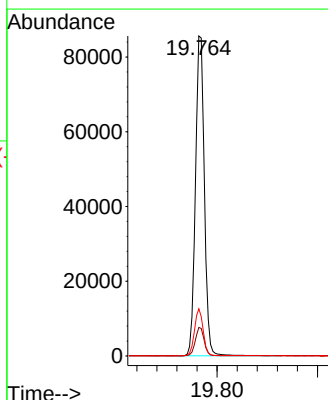
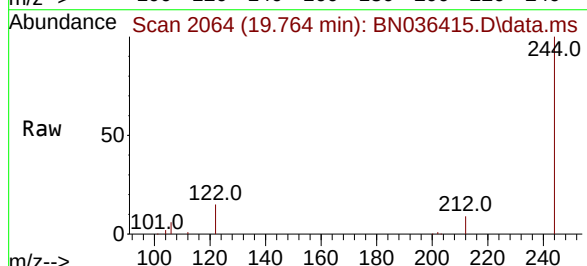
Tgt Ion:244 Resp: 104936

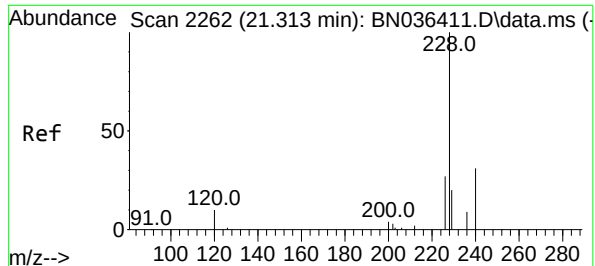
Ion Ratio Lower Upper

244 100

212 8.9 8.1 12.1

122 14.8 12.8 19.2





#32

Benzo(a)anthracene

Concen: 4.790 ng

RT: 21.304 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN036415.D

Acq: 10 Feb 2025 16:00

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

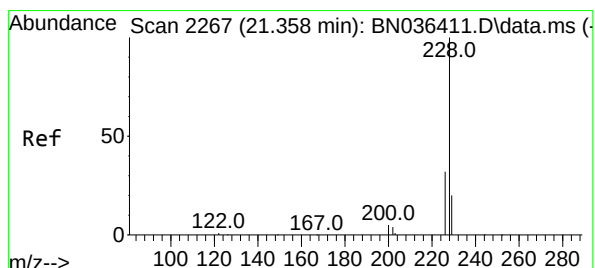
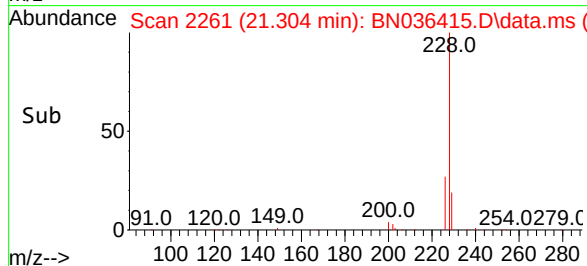
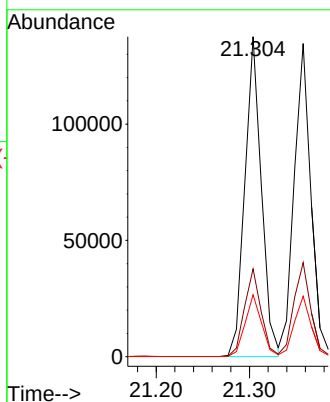
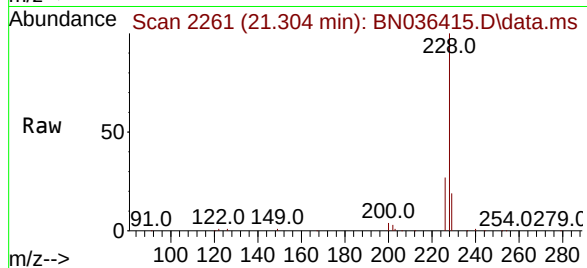
Tgt Ion:228 Resp: 169514

Ion Ratio Lower Upper

228 100

226 27.5 22.2 33.2

229 19.4 16.5 24.7



#33

Chrysene

Concen: 4.687 ng

RT: 21.358 min Scan# 2267

Delta R.T. 0.000 min

Lab File: BN036415.D

Acq: 10 Feb 2025 16:00

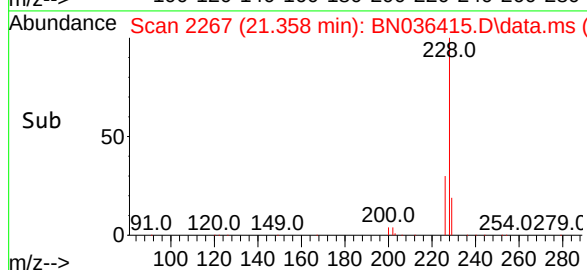
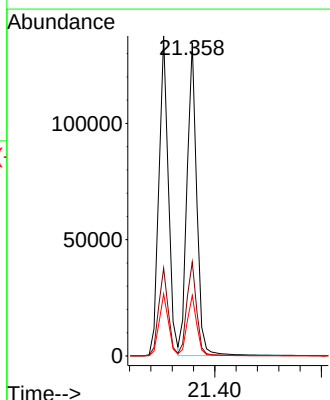
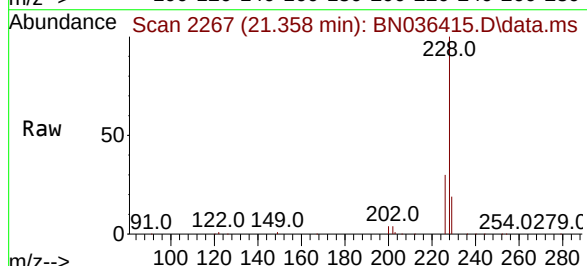
Tgt Ion:228 Resp: 170028

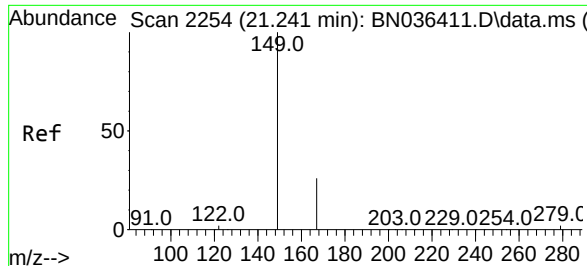
Ion Ratio Lower Upper

228 100

226 30.0 25.5 38.3

229 19.3 16.4 24.6

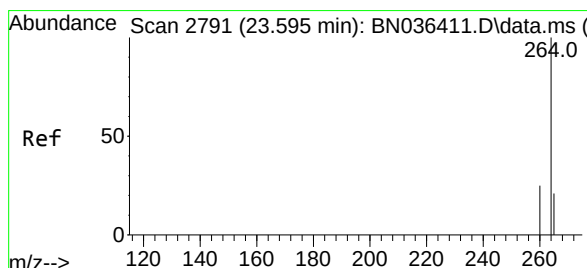
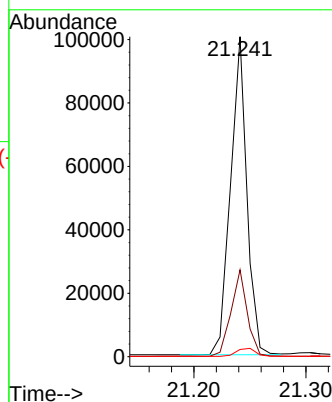
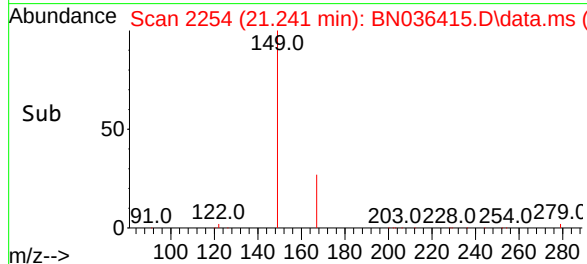
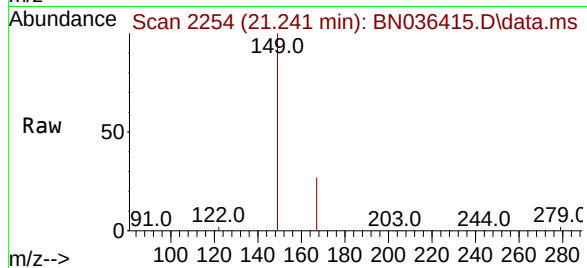




#34
Bis(2-ethylhexyl)phthalate
Concen: 5.168 ng
RT: 21.241 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

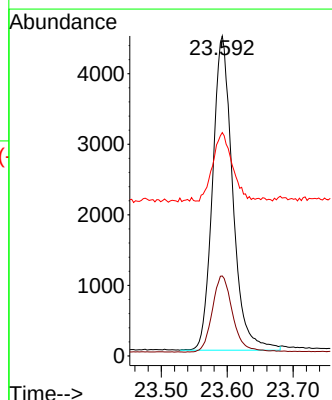
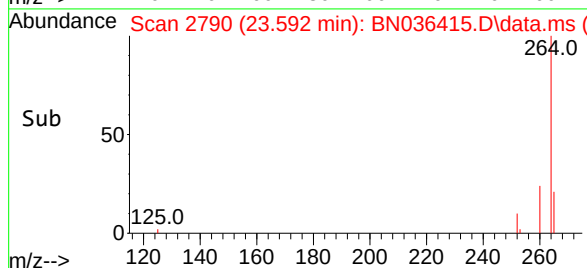
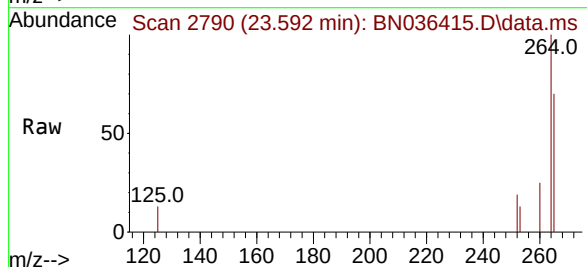
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

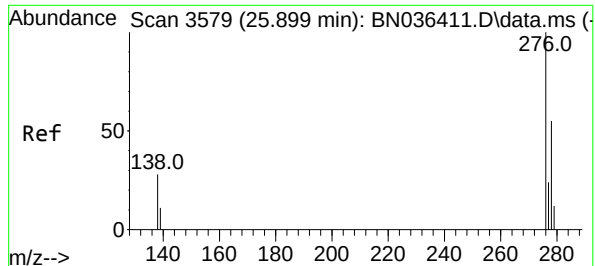
Tgt Ion:149 Resp: 101929
Ion Ratio Lower Upper
149 100
167 26.9 21.2 31.8
279 2.9 2.7 4.1



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.592 min Scan# 2790
Delta R.T. -0.003 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

Tgt Ion:264 Resp: 9411
Ion Ratio Lower Upper
264 100
260 25.0 20.9 31.3
265 69.8 60.7 91.1





#36

Indeno(1,2,3-cd)pyrene

Concen: 4.679 ng

RT: 25.890 min Scan# 3579

Delta R.T. -0.009 min

Lab File: BN036415.D

Acq: 10 Feb 2025 16:00

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

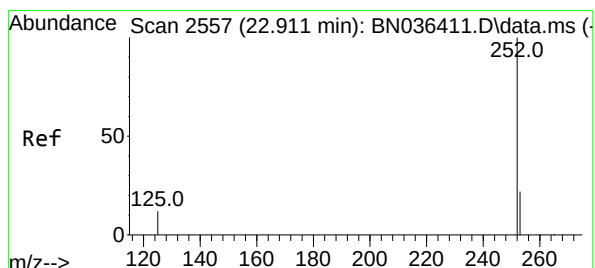
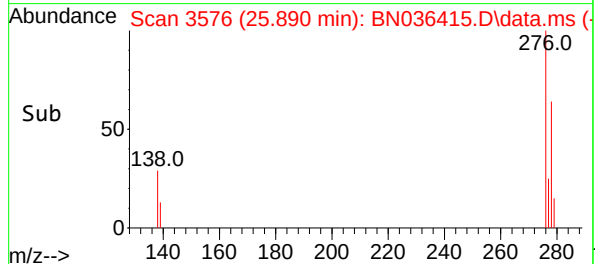
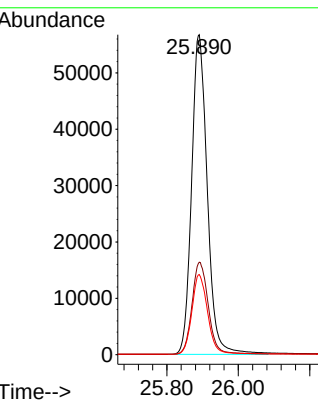
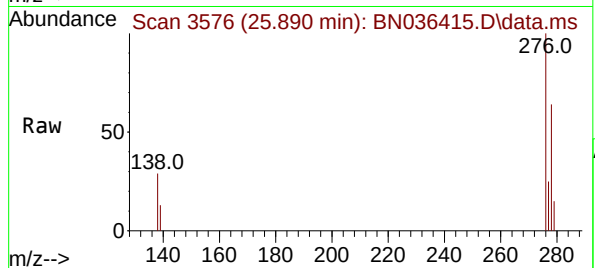
Tgt Ion:276 Resp: 172989

Ion Ratio Lower Upper

276 100

138 30.0 22.2 33.2

277 25.2 19.8 29.6



#37

Benzo(b)fluoranthene

Concen: 4.986 ng

RT: 22.905 min Scan# 2555

Delta R.T. -0.006 min

Lab File: BN036415.D

Acq: 10 Feb 2025 16:00

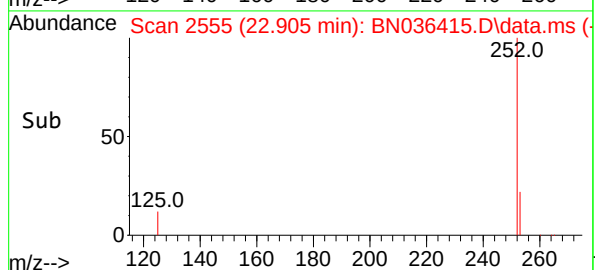
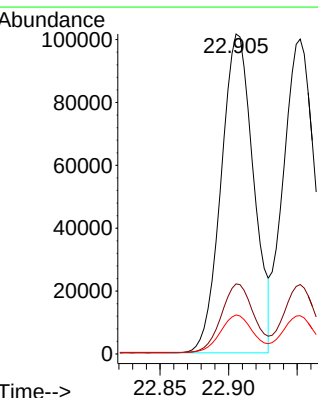
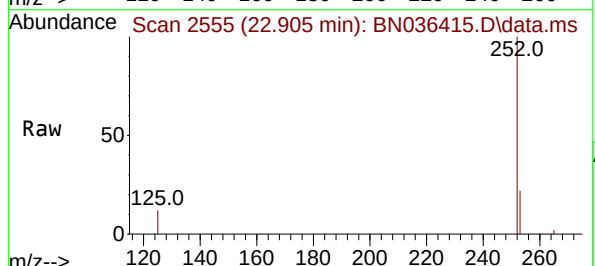
Tgt Ion:252 Resp: 166596

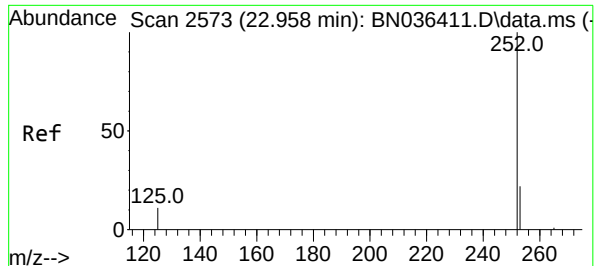
Ion Ratio Lower Upper

252 100

253 21.9 21.9 32.9#

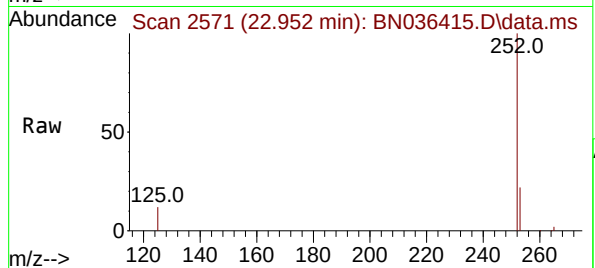
125 12.2 15.0 22.6#



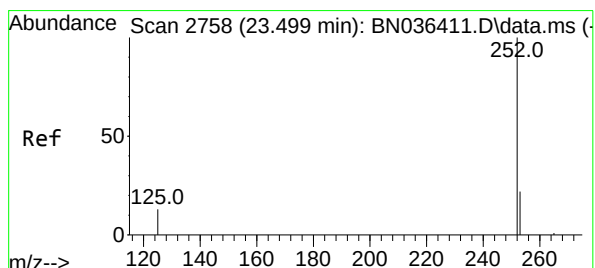
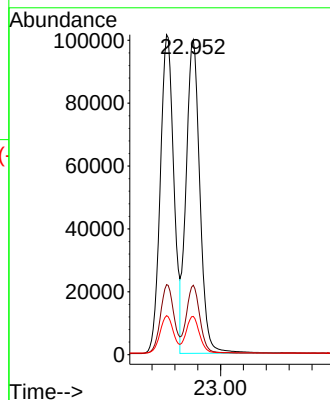
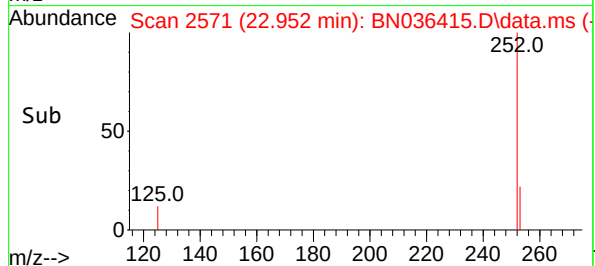


#38
Benzo(k)fluoranthene
Concen: 4.879 ng
RT: 22.952 min Scan# 21
Delta R.T. -0.006 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

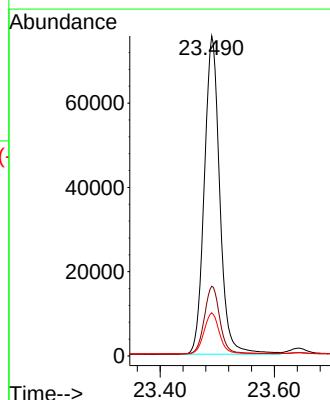
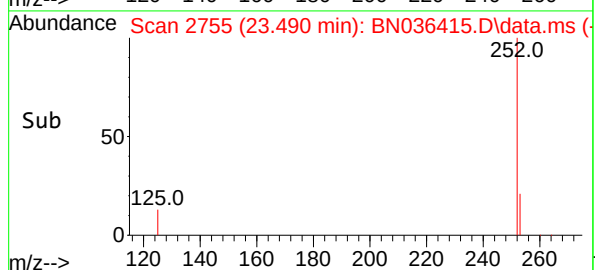
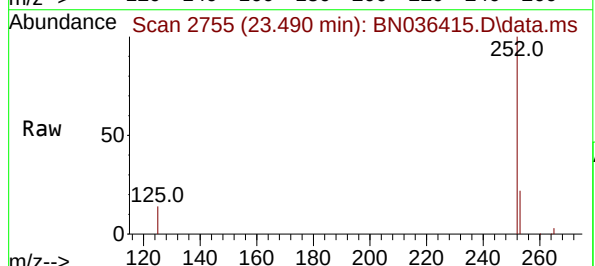


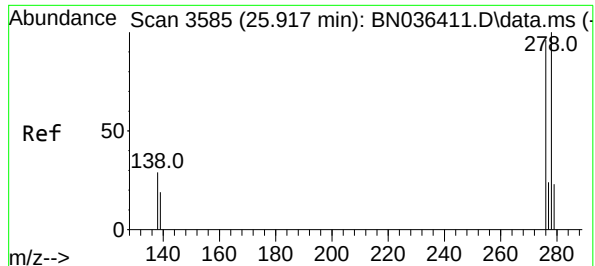
Tgt Ion:252 Resp: 166186
Ion Ratio Lower Upper
252 100
253 22.0 22.2 33.4#
125 12.1 15.0 22.4#



#39
Benzo(a)pyrene
Concen: 4.947 ng
RT: 23.490 min Scan# 2755
Delta R.T. -0.009 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

Tgt Ion:252 Resp: 141837
Ion Ratio Lower Upper
252 100
253 21.8 24.4 36.6#
125 13.5 18.2 27.2#





#40

Dibenzo(a,h)anthracene

Concen: 4.709 ng

RT: 25.905 min Scan# 31

Delta R.T. -0.012 min

Lab File: BN036415.D

Acq: 10 Feb 2025 16:00

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

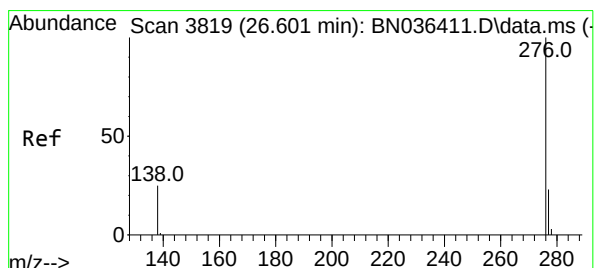
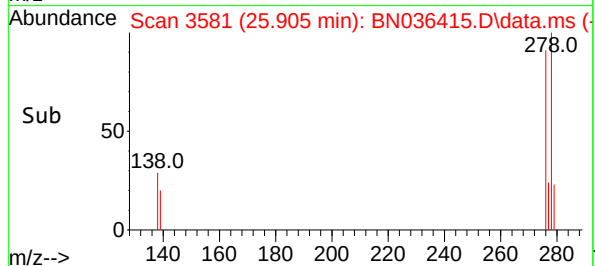
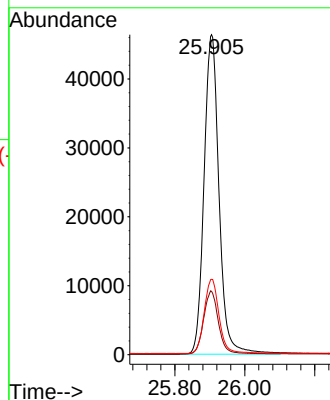
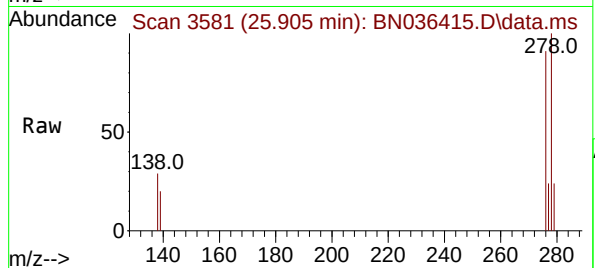
Tgt Ion:278 Resp: 138330

Ion Ratio Lower Upper

278 100

139 19.8 18.5 27.7

279 23.5 24.8 37.2#



#41

Benzo(g,h,i)perylene

Concen: 4.557 ng

RT: 26.595 min Scan# 3817

Delta R.T. -0.006 min

Lab File: BN036415.D

Acq: 10 Feb 2025 16:00

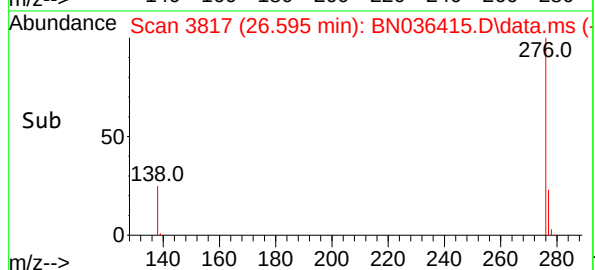
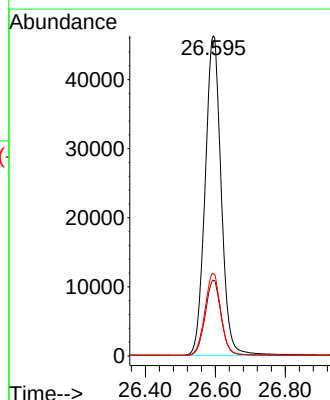
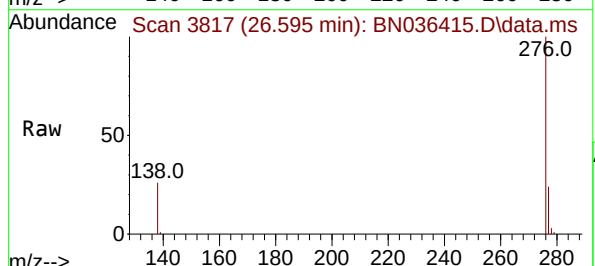
Tgt Ion:276 Resp: 146932

Ion Ratio Lower Upper

276 100

277 23.6 20.7 31.1

138 25.5 21.8 32.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
 Data File : BN036416.D
 Acq On : 10 Feb 2025 16:36
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN021025

Quant Time: Feb 11 01:25:46 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 01:17:14 2025
 Response via : Initial Calibration

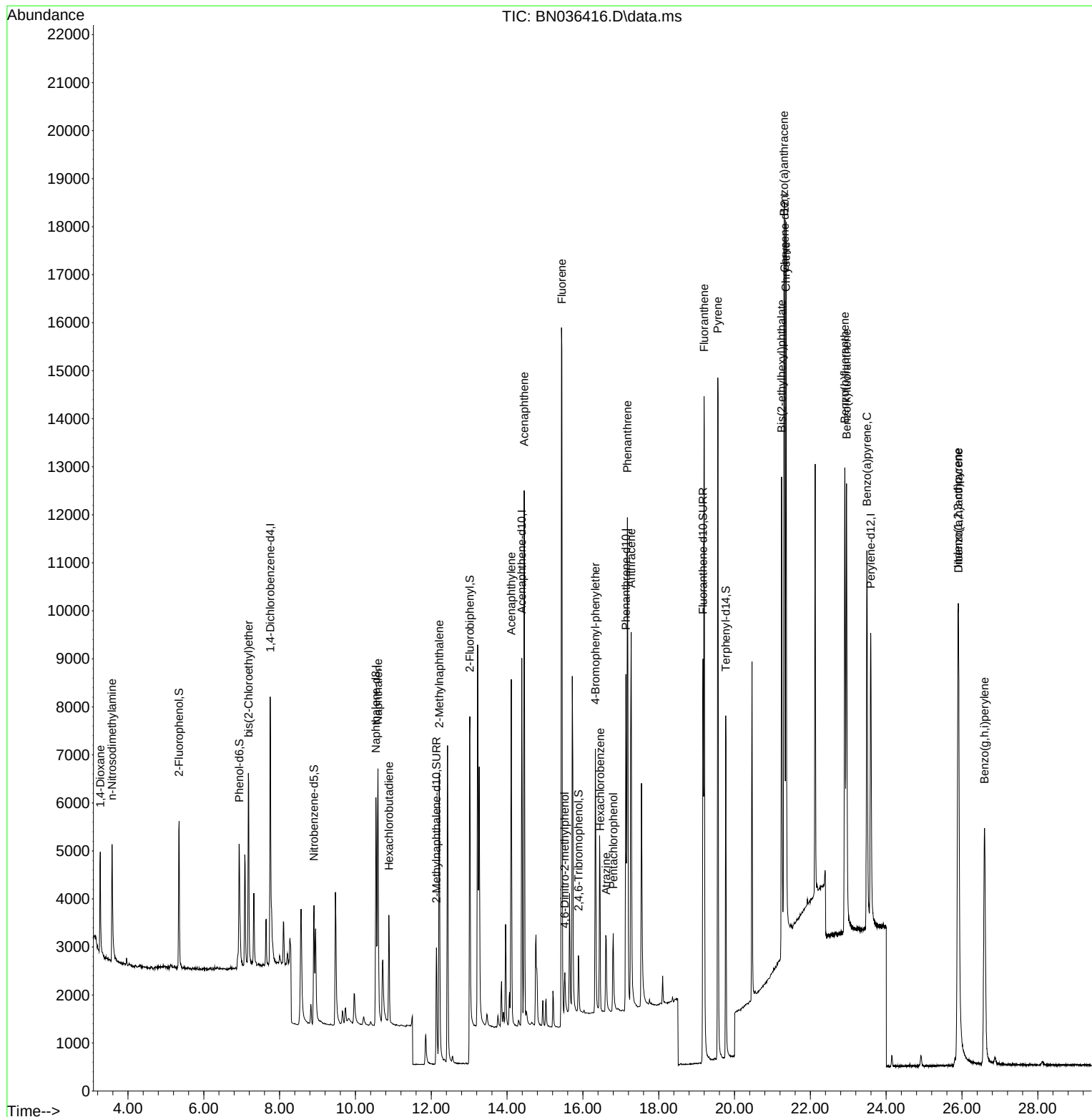
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.753	152	2722	0.400	ng	0.00
7) Naphthalene-d8	10.541	136	6737	0.400	ng	0.00
13) Acenaphthene-d10	14.388	164	4328	0.400	ng	0.00
19) Phenanthrene-d10	17.136	188	9717	0.400	ng	0.00
29) Chrysene-d12	21.322	240	8903	0.400	ng	0.00
35) Perylene-d12	23.592	264	8977	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.348	112	2386	0.371	ng	0.00
5) Phenol-d6	6.937	99	2616	0.347	ng	0.00
8) Nitrobenzene-d5	8.907	82	2386	0.359	ng	0.00
11) 2-Methylnaphthalene-d10	12.136	152	4026	0.389	ng	0.00
14) 2,4,6-Tribromophenol	15.882	330	713	0.332	ng	0.00
15) 2-Fluorobiphenyl	13.019	172	6616	0.407	ng	0.00
27) Fluoranthene-d10	19.169	212	10243	0.379	ng	0.00
31) Terphenyl-d14	19.768	244	7744	0.407	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.268	88	1221	0.410	ng	98
3) n-Nitrosodimethylamine	3.579	42	1993	0.385	ng	96
6) bis(2-Chloroethyl)ether	7.183	93	3230	0.409	ng	96
9) Naphthalene	10.594	128	7554	0.389	ng	99
10) Hexachlorobutadiene	10.882	225	1910	0.404	ng	# 99
12) 2-Methylnaphthalene	12.212	142	5146	0.404	ng	98
16) Acenaphthylene	14.110	152	8061	0.422	ng	100
17) Acenaphthene	14.452	154	5199	0.407	ng	99
18) Fluorene	15.446	166	7222	0.397	ng	98
20) 4,6-Dinitro-2-methylph...	15.522	198	664	0.348	ng	92
21) 4-Bromophenyl-phenylether	16.329	248	2290	0.395	ng	96
22) Hexachlorobenzene	16.453	284	2904	0.406	ng	97
23) Atrazine	16.615	200	1916	0.396	ng	98
24) Pentachlorophenol	16.801	266	1075	0.316	ng	99
25) Phenanthrene	17.173	178	11446	0.408	ng	100
26) Anthracene	17.273	178	10171	0.411	ng	99
28) Fluoranthene	19.197	202	13415	0.389	ng	100
30) Pyrene	19.559	202	13881	0.405	ng	100
32) Benzo(a)anthracene	21.304	228	11819	0.403	ng	99
33) Chrysene	21.357	228	13425	0.423	ng	98
34) Bis(2-ethylhexyl)phtha...	21.241	149	6985	0.383	ng	98
36) Indeno(1,2,3-cd)pyrene	25.896	276	13738	0.438	ng	100
37) Benzo(b)fluoranthene	22.908	252	12283	0.415	ng	97
38) Benzo(k)fluoranthene	22.955	252	13099	0.430	ng	97
39) Benzo(a)pyrene	23.493	252	11703	0.454	ng	95
40) Dibenzo(a,h)anthracene	25.908	278	10585	0.427	ng	96
41) Benzo(g,h,i)perylene	26.595	276	10921	0.389	ng	98

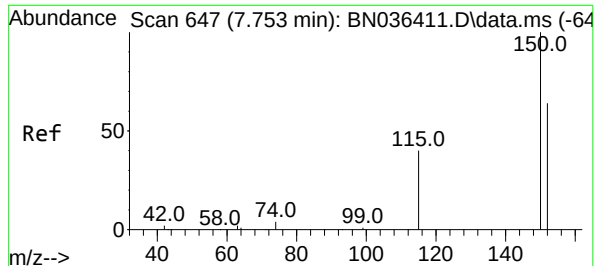
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
Data File : BN036416.D
Acq On : 10 Feb 2025 16:36
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN021025

Quant Time: Feb 11 01:25:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 11 01:17:14 2025
Response via : Initial Calibration

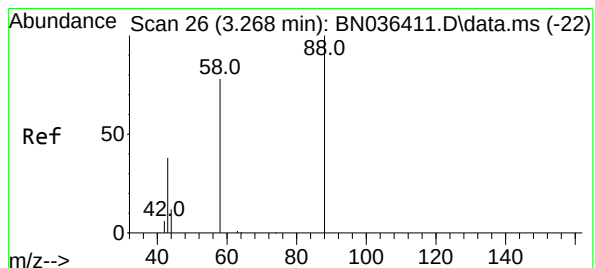
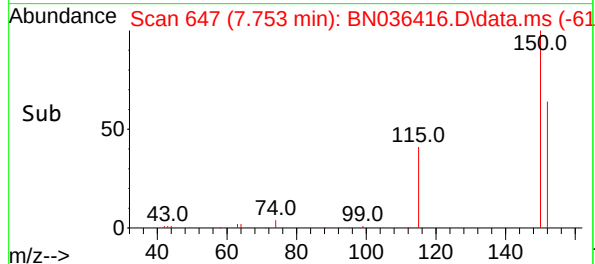
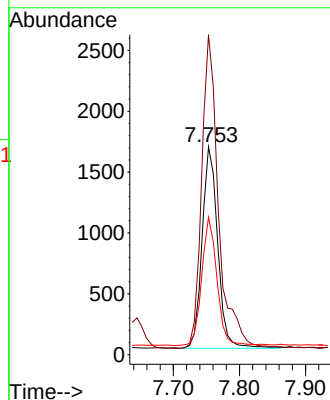
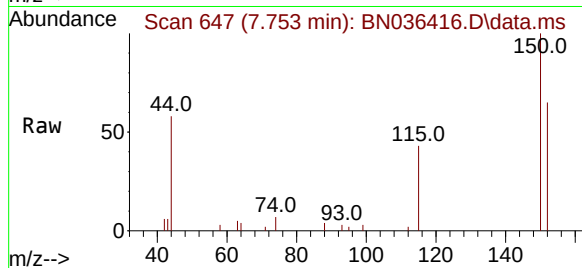




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.753 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036416.D
Acq: 10 Feb 2025 16:36

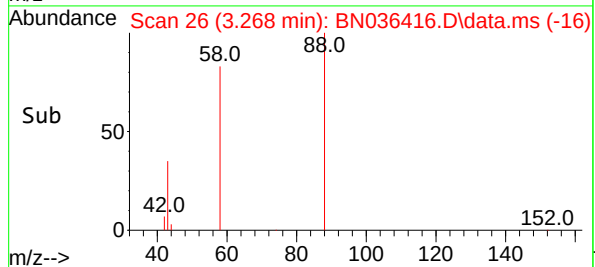
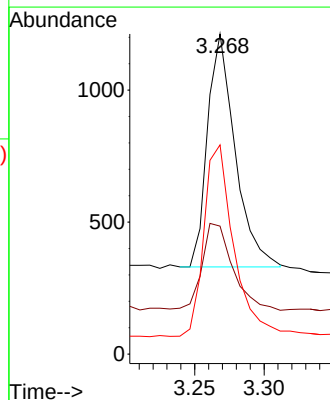
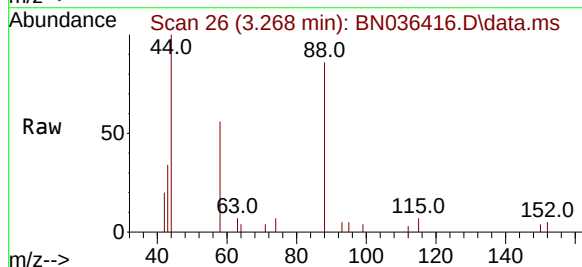
Instrument :
BNA_N
ClientSampleId :
ICVBN021025

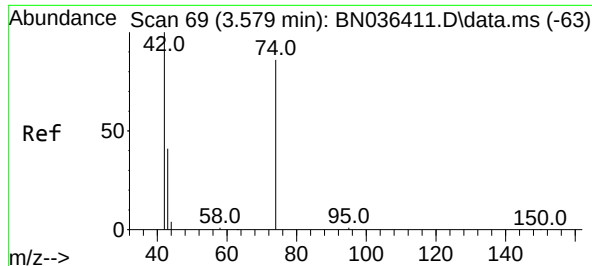
Tgt Ion:152 Resp: 2722
Ion Ratio Lower Upper
152 100
150 154.0 123.7 185.5
115 66.1 52.5 78.7



#2
1,4-Dioxane
Concen: 0.410 ng
RT: 3.268 min Scan# 26
Delta R.T. -0.000 min
Lab File: BN036416.D
Acq: 10 Feb 2025 16:36

Tgt Ion: 88 Resp: 1221
Ion Ratio Lower Upper
88 100
43 41.8 33.7 50.5
58 89.2 68.9 103.3

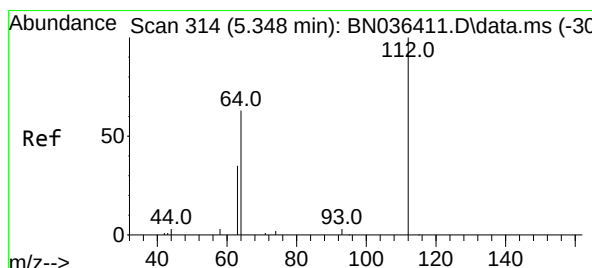
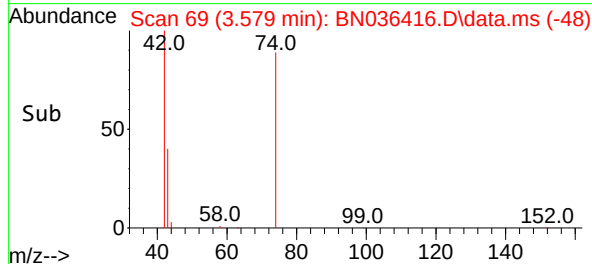
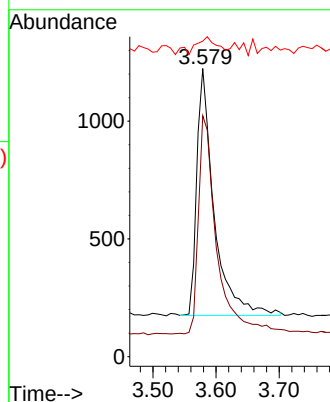
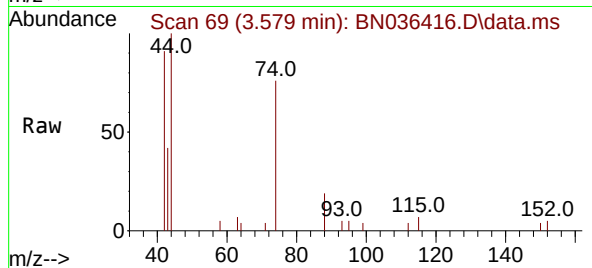




#3
n-Nitrosodimethylamine
Concen: 0.385 ng
RT: 3.579 min Scan# 69
Delta R.T. -0.000 min
Lab File: BN036416.D
Acq: 10 Feb 2025 16:36

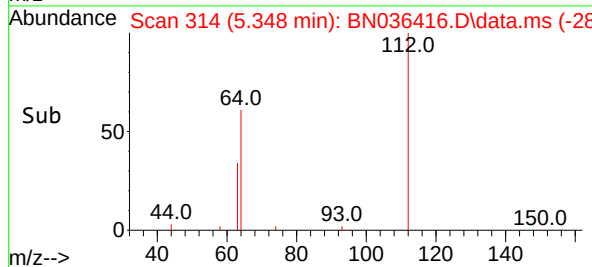
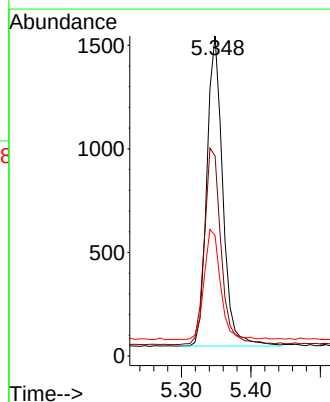
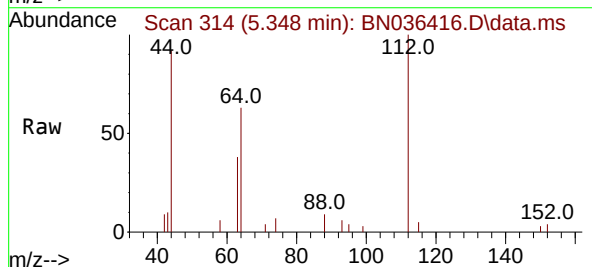
Instrument :
BNA_N
ClientSampleId :
ICVBN021025

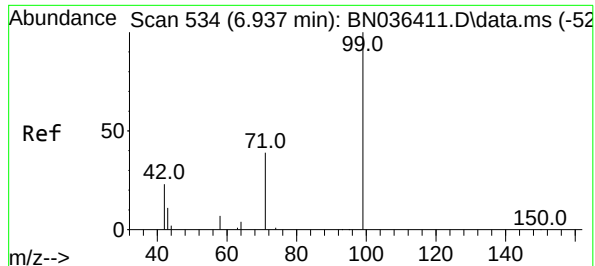
Tgt Ion: 42 Resp: 1993
Ion Ratio Lower Upper
42 100
74 93.5 71.8 107.6
44 7.9 7.8 11.6



#4
2-Fluorophenol
Concen: 0.371 ng
RT: 5.348 min Scan# 314
Delta R.T. -0.000 min
Lab File: BN036416.D
Acq: 10 Feb 2025 16:36

Tgt Ion: 112 Resp: 2386
Ion Ratio Lower Upper
112 100
64 66.4 53.4 80.0
63 36.3 30.3 45.5

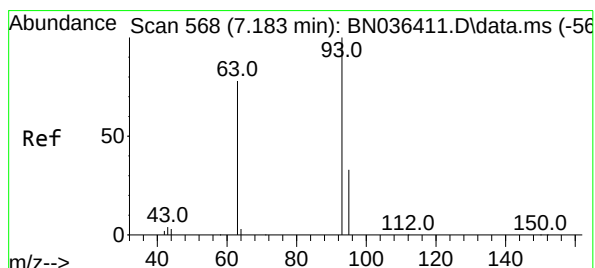
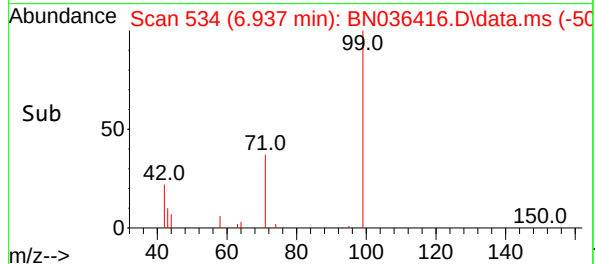
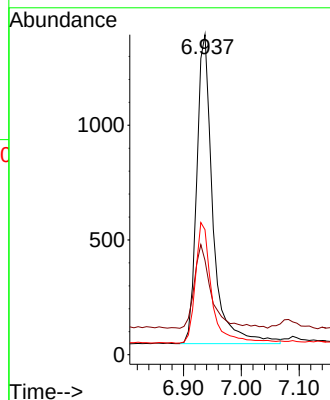
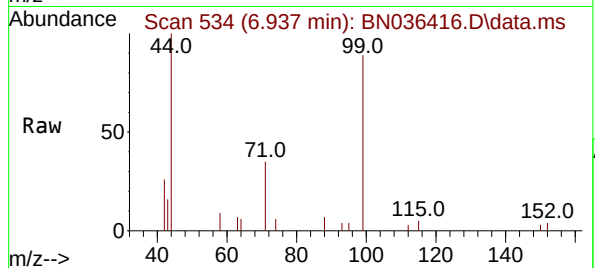




#5
Phenol-d6
Concen: 0.347 ng
RT: 6.937 min Scan# 511
Delta R.T. -0.000 min
Lab File: BN036416.D
Acq: 10 Feb 2025 16:36

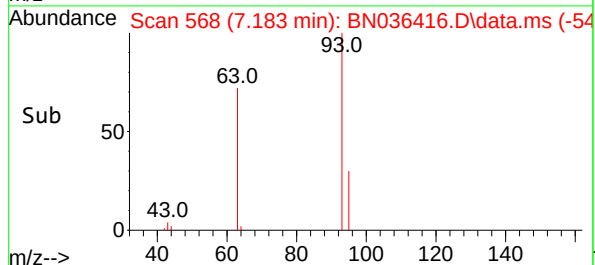
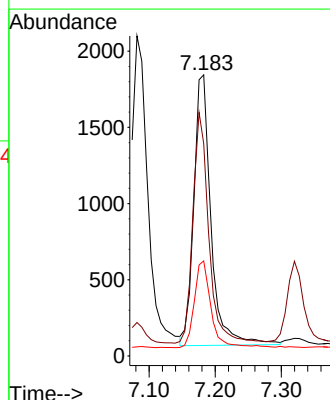
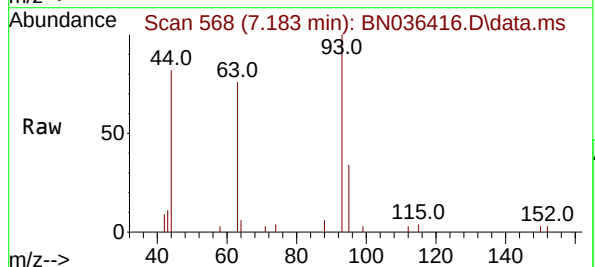
Instrument :
BNA_N
ClientSampleId :
ICVBN021025

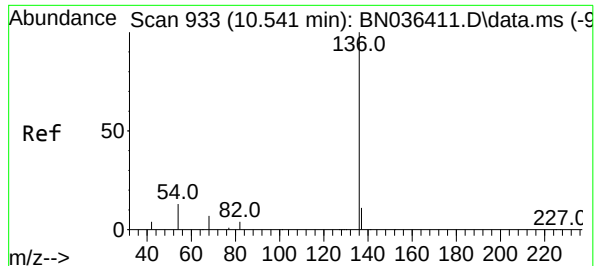
Tgt Ion:	99	Resp:	2616
Ion	Ratio	Lower	Upper
99	100		
42	28.4	21.7	32.5
71	39.6	32.6	49.0



#6
bis(2-Chloroethyl)ether
Concen: 0.409 ng
RT: 7.183 min Scan# 568
Delta R.T. -0.000 min
Lab File: BN036416.D
Acq: 10 Feb 2025 16:36

Tgt Ion:	93	Resp:	3230
Ion	Ratio	Lower	Upper
93	100		
63	78.7	66.3	99.5
95	31.0	26.2	39.4

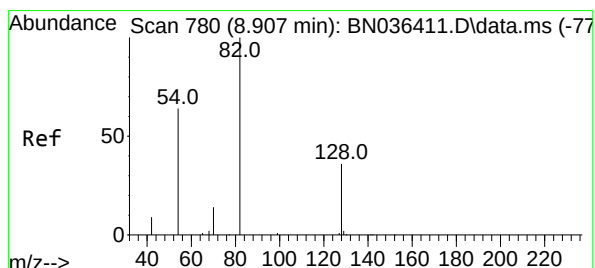
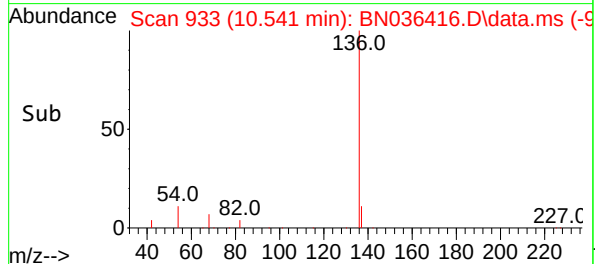
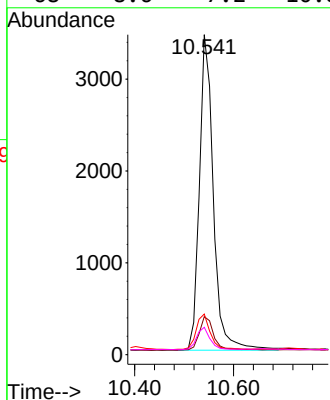
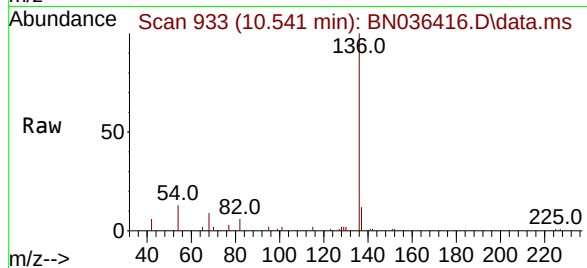




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.541 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN036416.D
Acq: 10 Feb 2025 16:36

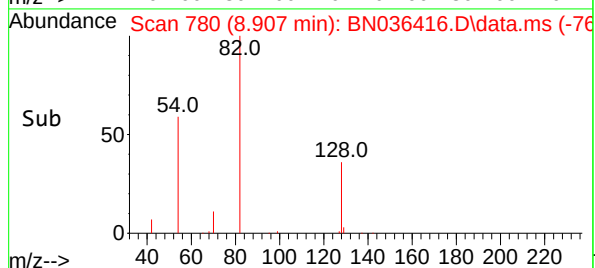
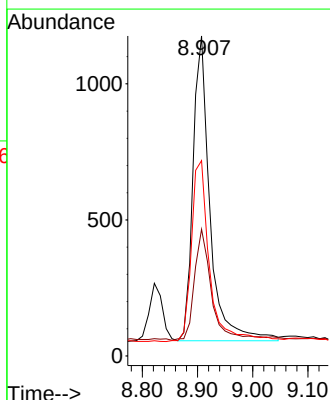
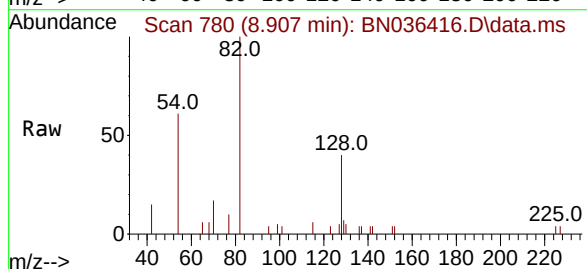
Instrument :
BNA_N
ClientSampleId :
ICVBN021025

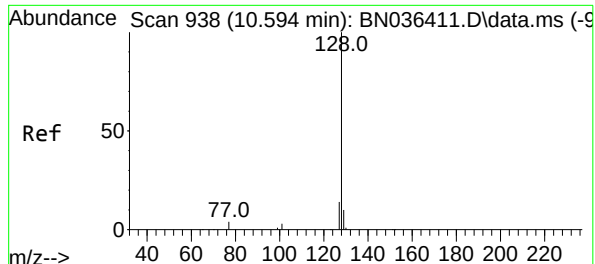
Tgt Ion:	136	Resp:	6737
Ion	Ratio	Lower	Upper
136	100		
137	11.9	10.1	15.1
54	12.7	11.8	17.6
68	8.6	7.2	10.8



#8
Nitrobenzene-d5
Concen: 0.359 ng
RT: 8.907 min Scan# 780
Delta R.T. -0.000 min
Lab File: BN036416.D
Acq: 10 Feb 2025 16:36

Tgt Ion:	82	Resp:	2386
Ion	Ratio	Lower	Upper
82	100		
128	39.6	31.9	47.9
54	61.1	53.1	79.7



#9
Naphthalene

Concen: 0.389 ng

RT: 10.594 min Scan# 91

Delta R.T. -0.000 min

Lab File: BN036416.D

Acq: 10 Feb 2025 16:36

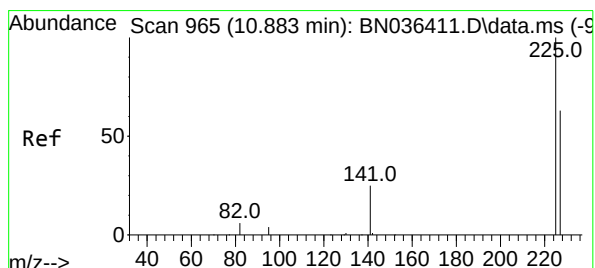
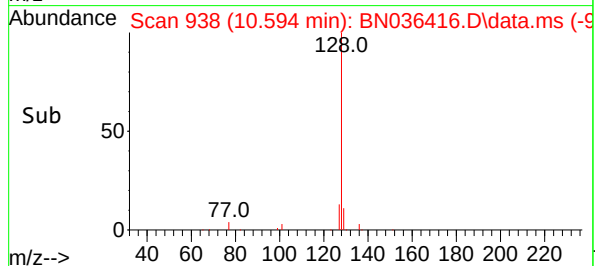
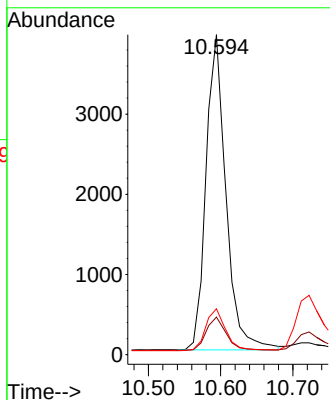
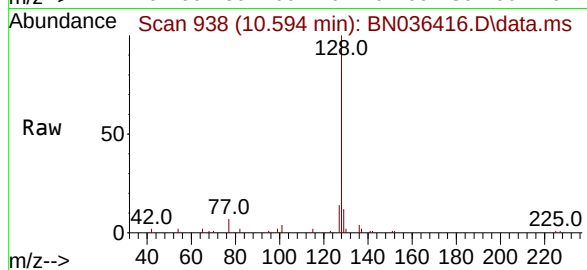
Instrument :

BNA_N

ClientSampleId :

ICVBN021025

Tgt Ion:	128	Resp:	7554
Ion	Ratio	Lower	Upper
128	100		
129	11.8	9.6	14.4
127	14.3	12.0	18.0



#10

Hexachlorobutadiene

Concen: 0.404 ng

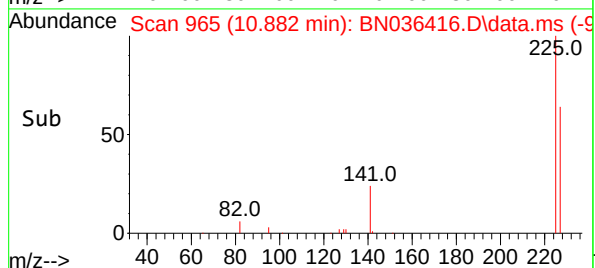
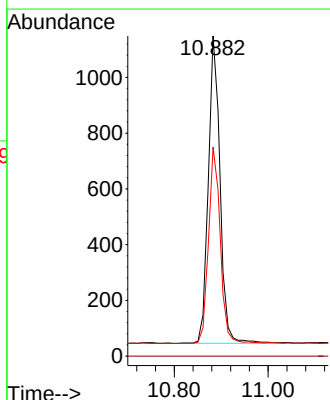
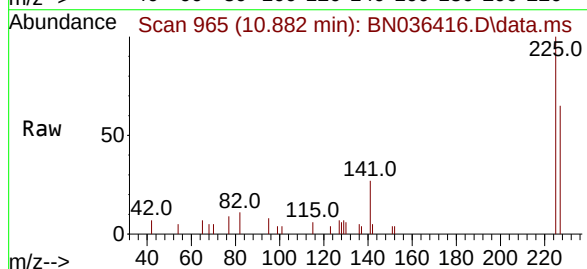
RT: 10.882 min Scan# 965

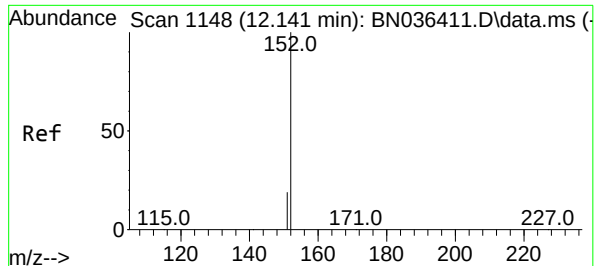
Delta R.T. -0.000 min

Lab File: BN036416.D

Acq: 10 Feb 2025 16:36

Tgt Ion:	225	Resp:	1910
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.6	50.9	76.3

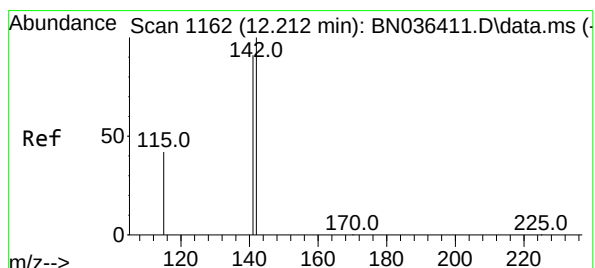
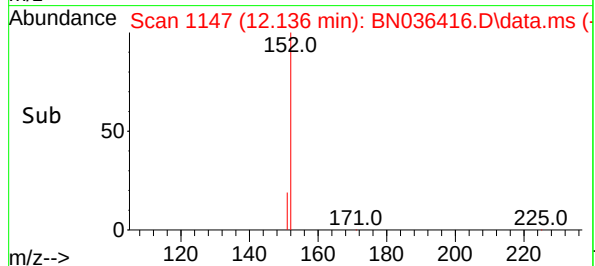
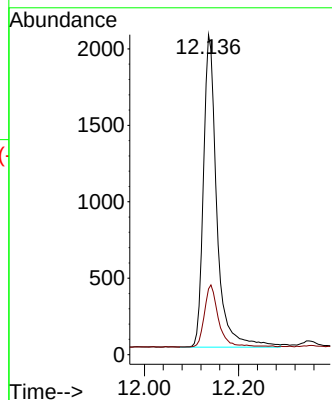
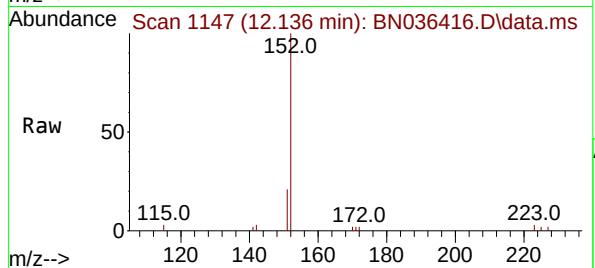




#11
2-Methylnaphthalene-d10
Concen: 0.389 ng
RT: 12.136 min Scan# 1147
Delta R.T. -0.005 min
Lab File: BN036416.D
Acq: 10 Feb 2025 16:36

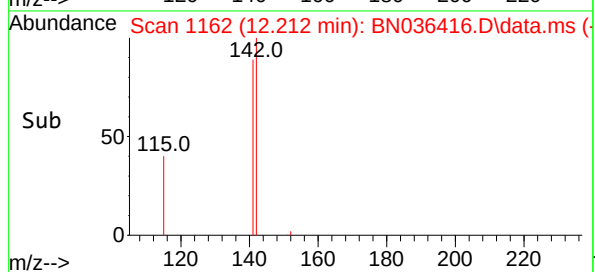
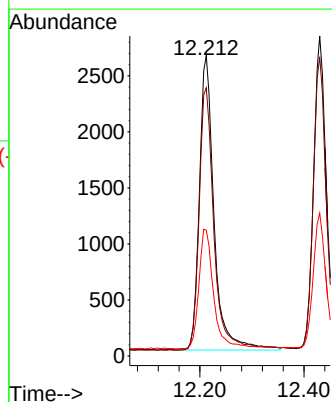
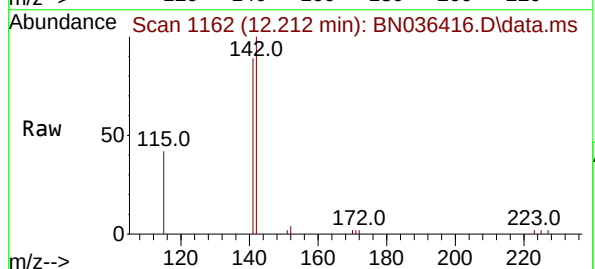
Instrument :
BNA_N
ClientSampleId :
ICVBN021025

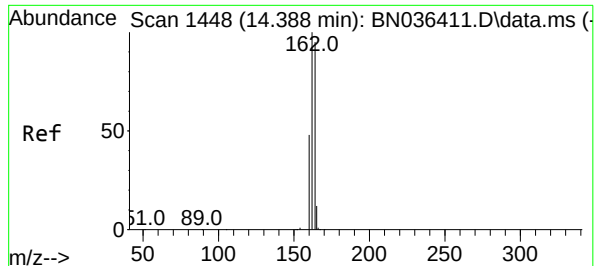
Tgt Ion:152 Resp: 4026
Ion Ratio Lower Upper
152 100
151 20.9 16.6 25.0



#12
2-Methylnaphthalene
Concen: 0.404 ng
RT: 12.212 min Scan# 1162
Delta R.T. -0.000 min
Lab File: BN036416.D
Acq: 10 Feb 2025 16:36

Tgt Ion:142 Resp: 5146
Ion Ratio Lower Upper
142 100
141 89.3 72.8 109.2
115 41.9 35.5 53.3

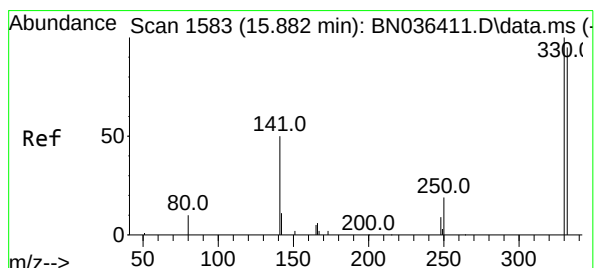
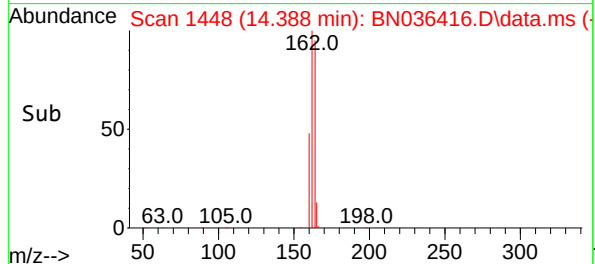
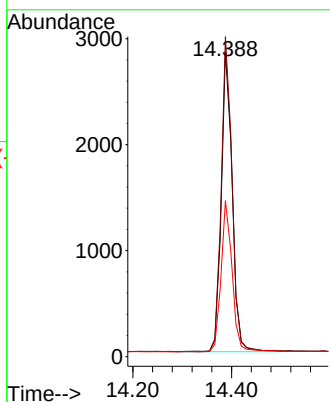
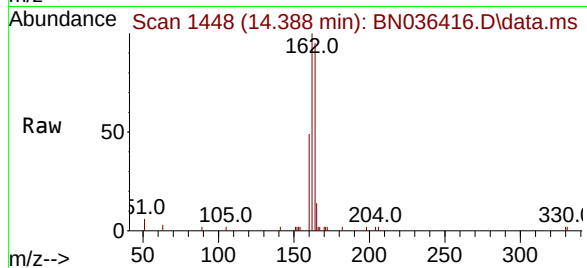




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.388 min Scan# 1448
Delta R.T. -0.000 min
Lab File: BN036416.D
Acq: 10 Feb 2025 16:36

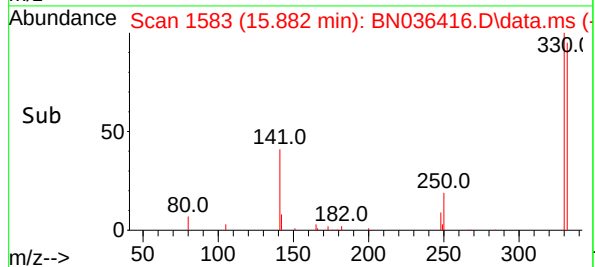
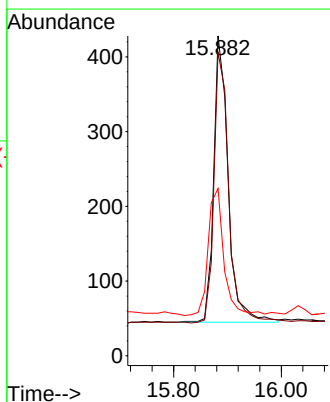
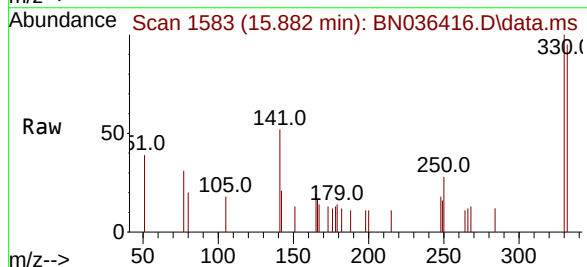
Instrument :
BNA_N
ClientSampleId :
ICVBN021025

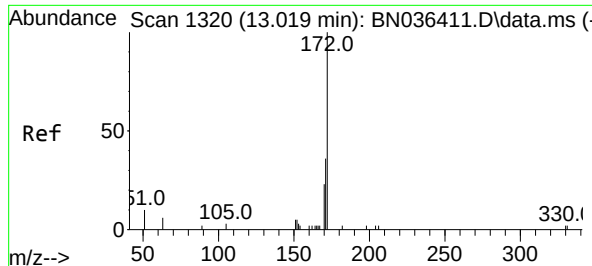
Tgt Ion:164 Resp: 4328
Ion Ratio Lower Upper
164 100
162 104.9 84.1 126.1
160 51.1 41.4 62.0



#14
2,4,6-Tribromophenol
Concen: 0.332 ng
RT: 15.882 min Scan# 1583
Delta R.T. -0.000 min
Lab File: BN036416.D
Acq: 10 Feb 2025 16:36

Tgt Ion:330 Resp: 713
Ion Ratio Lower Upper
330 100
332 97.6 76.6 114.8
141 48.9 37.8 56.8





#15

2-Fluorobiphenyl

Concen: 0.407 ng

RT: 13.019 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN036416.D

Acq: 10 Feb 2025 16:36

Instrument :

BNA_N

ClientSampleId :

ICVBN021025

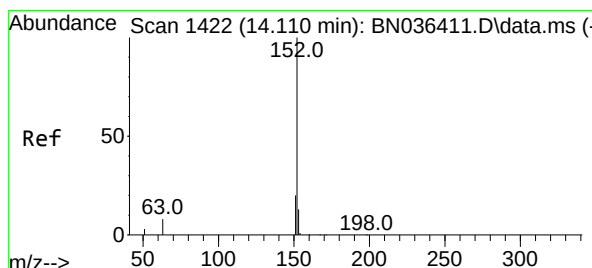
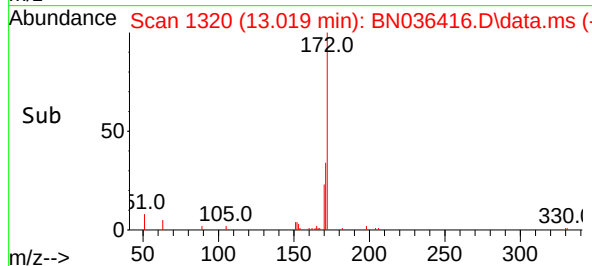
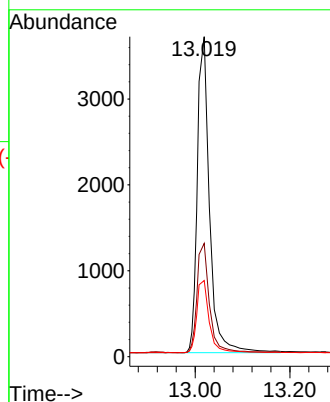
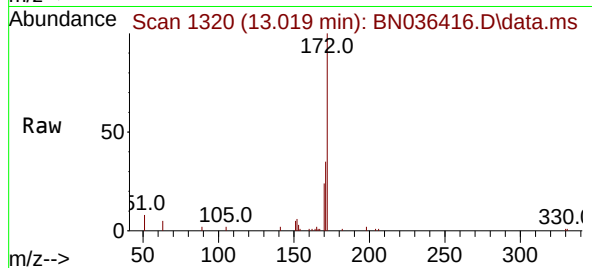
Tgt Ion:172 Resp: 6616

Ion Ratio Lower Upper

172 100

171 35.4 29.6 44.4

170 23.8 19.8 29.6



#16

Acenaphthylene

Concen: 0.422 ng

RT: 14.110 min Scan# 1422

Delta R.T. -0.000 min

Lab File: BN036416.D

Acq: 10 Feb 2025 16:36

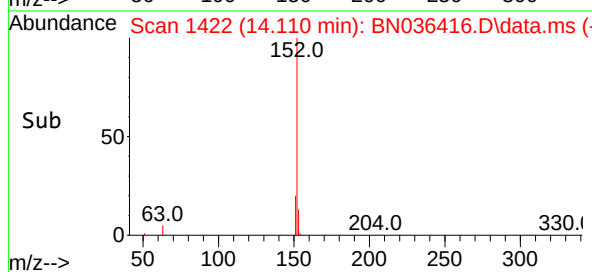
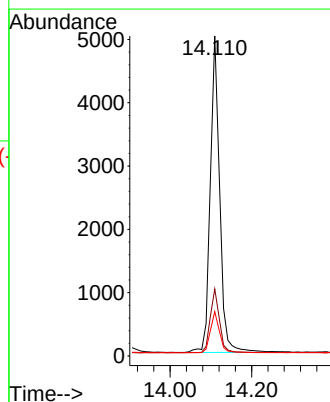
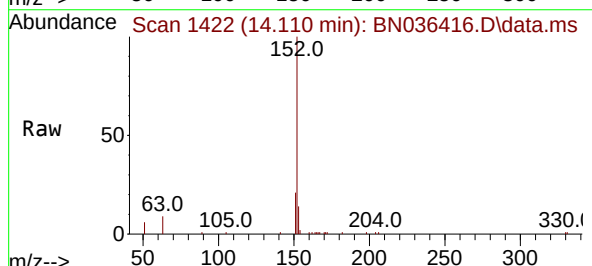
Tgt Ion:152 Resp: 8061

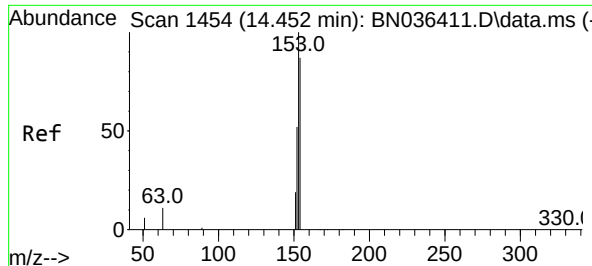
Ion Ratio Lower Upper

152 100

151 19.8 15.8 23.8

153 12.9 10.2 15.2

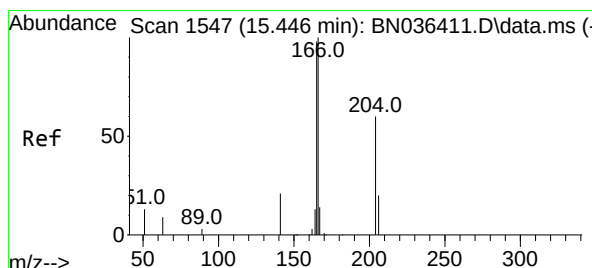
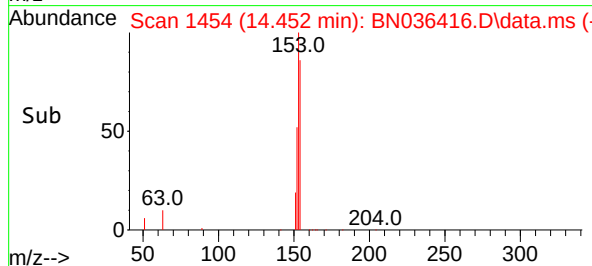
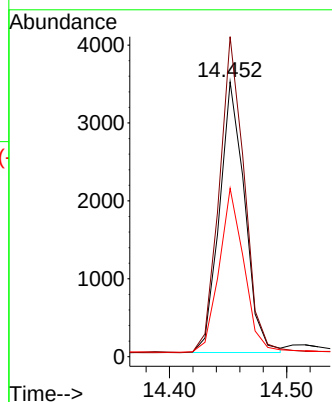
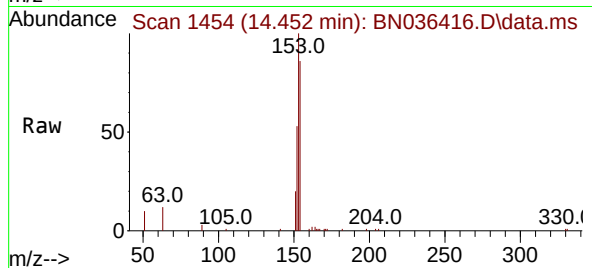




#17
Acenaphthene
Concen: 0.407 ng
RT: 14.452 min Scan# 1454
Delta R.T. -0.000 min
Lab File: BN036416.D
Acq: 10 Feb 2025 16:36

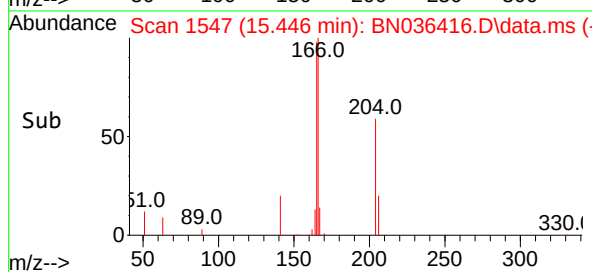
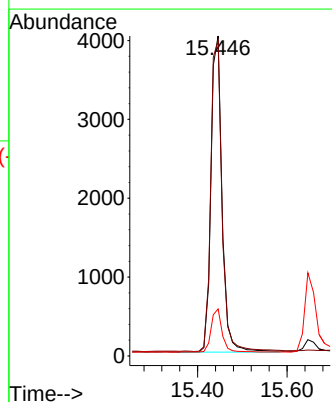
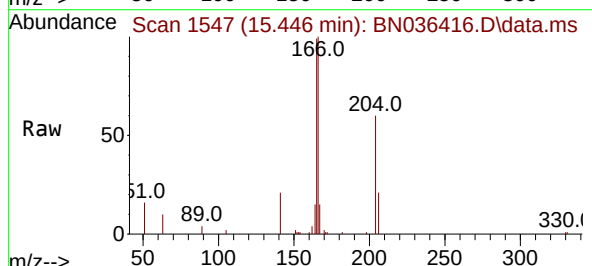
Instrument :
BNA_N
ClientSampleId :
ICVBN021025

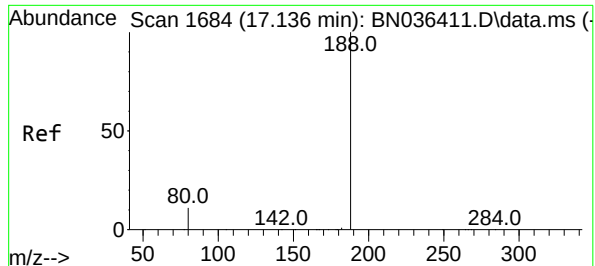
Tgt Ion	Ratio	Lower	Upper
154	100		
153	117.1	93.3	139.9
152	60.5	48.8	73.2



#18
Fluorene
Concen: 0.397 ng
RT: 15.446 min Scan# 1547
Delta R.T. -0.000 min
Lab File: BN036416.D
Acq: 10 Feb 2025 16:36

Tgt Ion	Ratio	Lower	Upper
166	100		
165	101.4	79.5	119.3
167	13.7	10.4	15.6





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.136 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN036416.D

Acq: 10 Feb 2025 16:36

Instrument :

BNA_N

ClientSampleId :

ICVBN021025

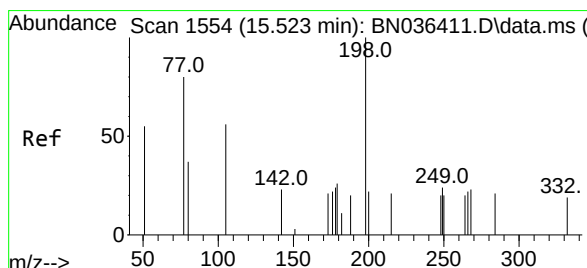
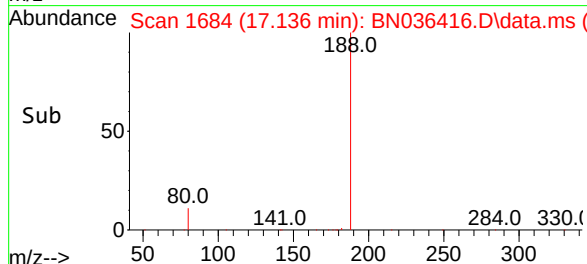
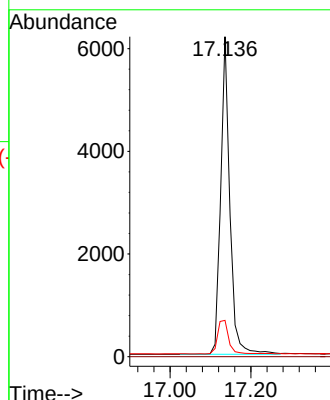
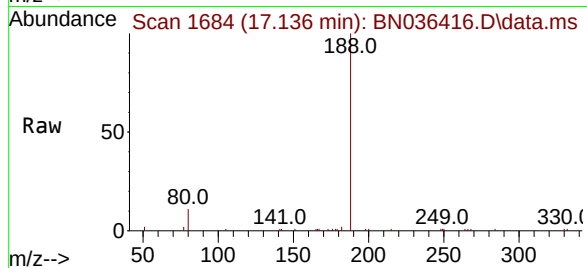
Tgt Ion:188 Resp: 9717

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.3 9.8 14.6



#20

4,6-Dinitro-2-methylphenol

Concen: 0.348 ng

RT: 15.522 min Scan# 1554

Delta R.T. -0.001 min

Lab File: BN036416.D

Acq: 10 Feb 2025 16:36

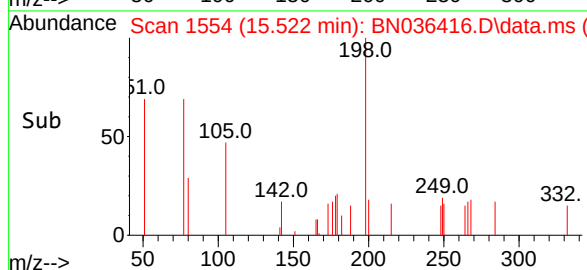
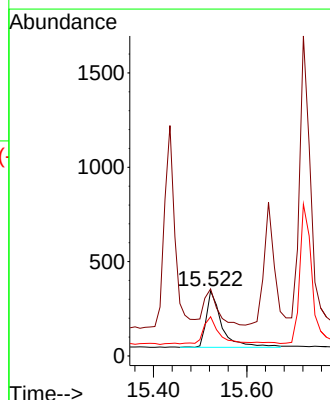
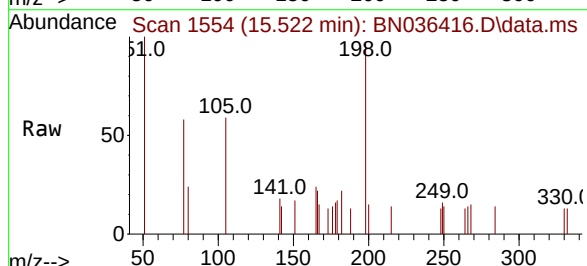
Tgt Ion:198 Resp: 664

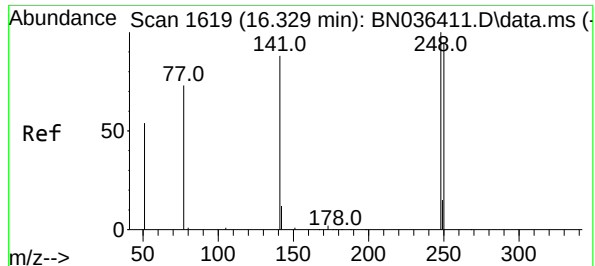
Ion Ratio Lower Upper

198 100

51 103.2 86.6 129.8

105 60.5 57.5 86.3

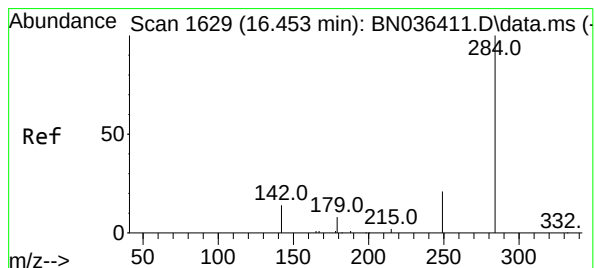
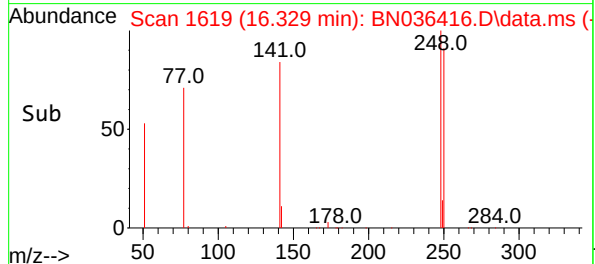
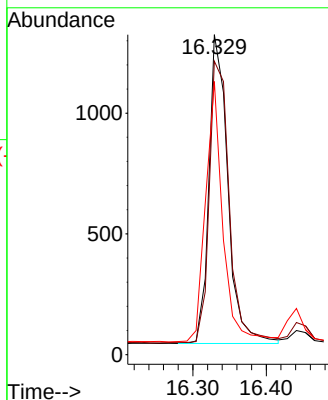
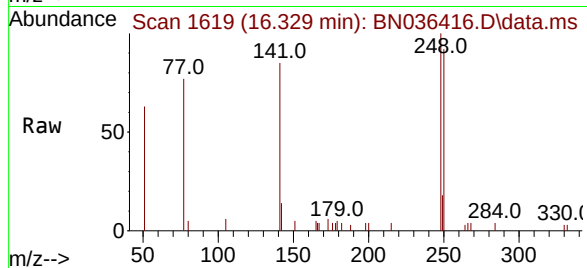




#21
4-Bromophenyl-phenylether
Concen: 0.395 ng
RT: 16.329 min Scan# 1619
Delta R.T. -0.000 min
Lab File: BN036416.D
Acq: 10 Feb 2025 16:36

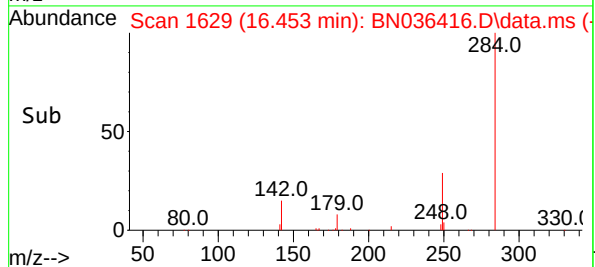
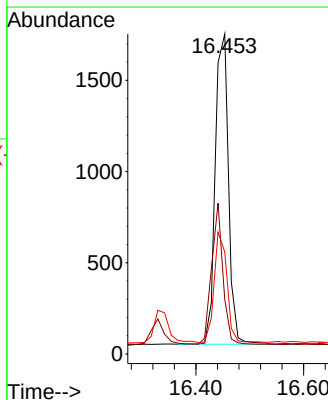
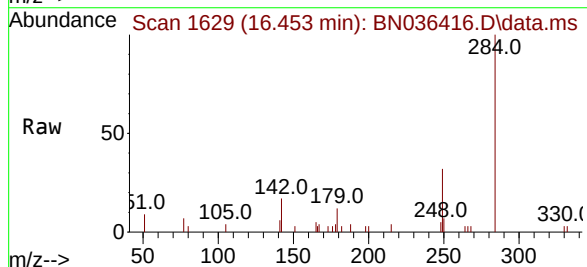
Instrument :
BNA_N
ClientSampleId :
ICVBN021025

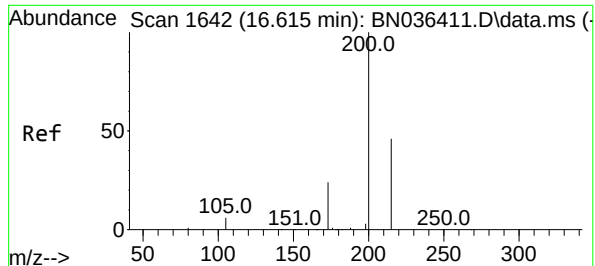
Tgt Ion	Ratio	Lower	Upper
248	100		
250	91.7	76.1	114.1
141	85.4	71.7	107.5



#22
Hexachlorobenzene
Concen: 0.406 ng
RT: 16.453 min Scan# 1629
Delta R.T. -0.000 min
Lab File: BN036416.D
Acq: 10 Feb 2025 16:36

Tgt Ion	Ratio	Lower	Upper
284	100		
142	39.4	33.4	50.0
249	34.2	28.6	43.0

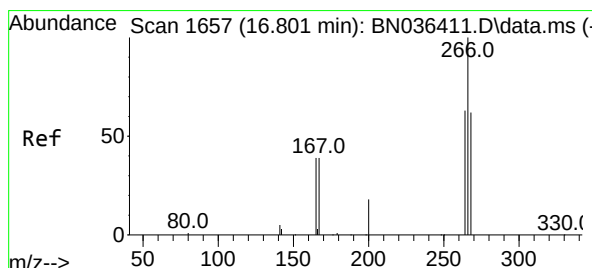
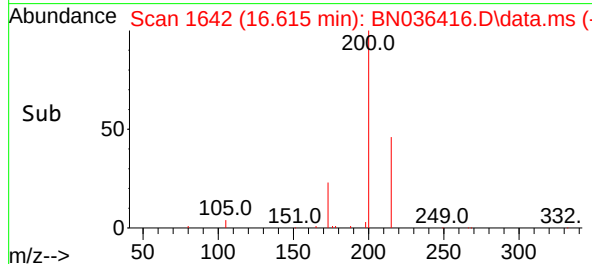
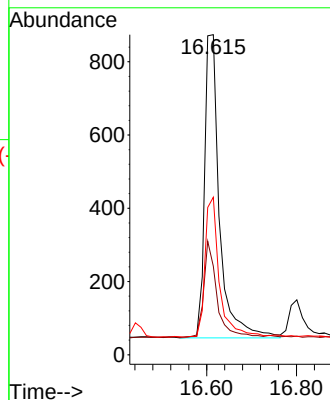
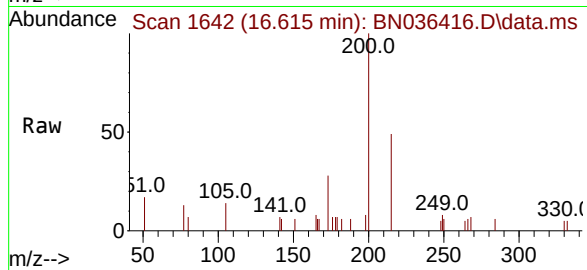




#23
Atrazine
Concen: 0.396 ng
RT: 16.615 min Scan# 1642
Delta R.T. -0.000 min
Lab File: BN036416.D
Acq: 10 Feb 2025 16:36

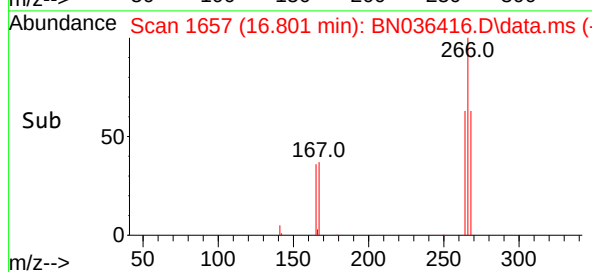
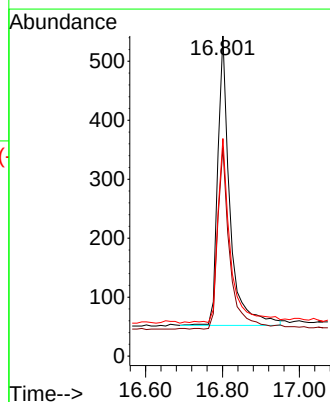
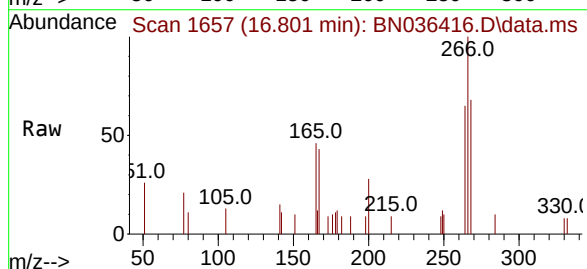
Instrument :
BNA_N
ClientSampleId :
ICVBN021025

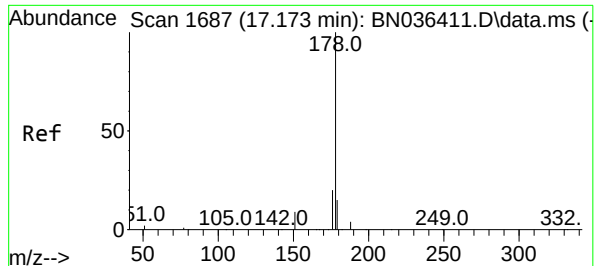
Tgt Ion	Ratio	Lower	Upper
200	100		
173	27.7	23.2	34.8
215	49.2	40.0	60.0



#24
Pentachlorophenol
Concen: 0.316 ng
RT: 16.801 min Scan# 1657
Delta R.T. -0.000 min
Lab File: BN036416.D
Acq: 10 Feb 2025 16:36

Tgt Ion	Ratio	Lower	Upper
266	100		
264	62.2	50.6	76.0
268	63.9	51.9	77.9

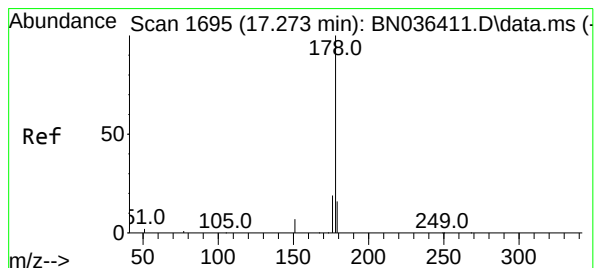
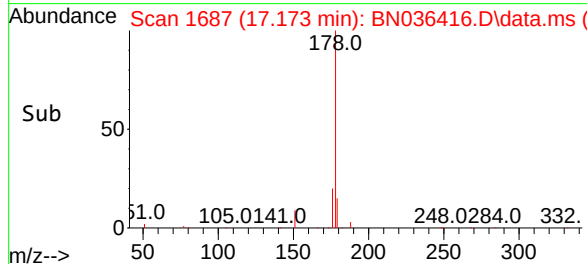
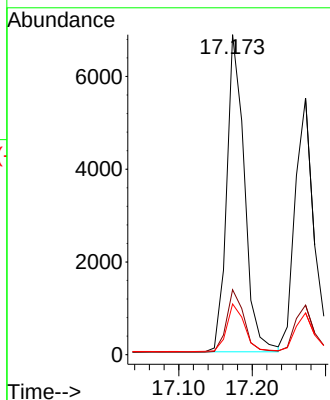
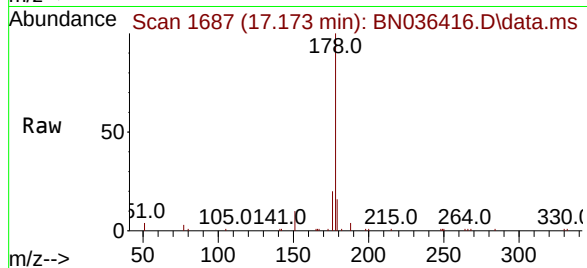




#25
Phenanthrene
Concen: 0.408 ng
RT: 17.173 min Scan# 1687
Delta R.T. -0.000 min
Lab File: BN036416.D
Acq: 10 Feb 2025 16:36

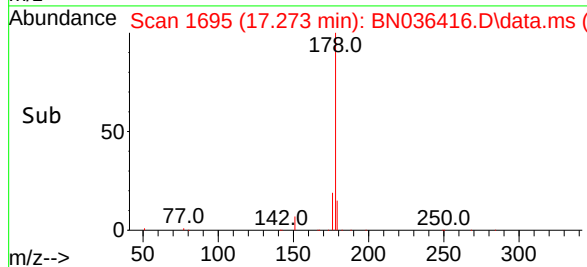
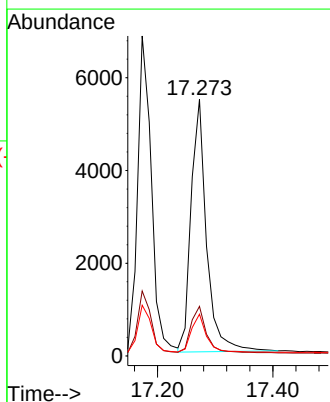
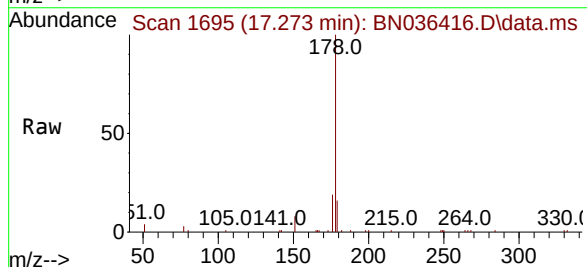
Instrument :
BNA_N
ClientSampleId :
ICVBN021025

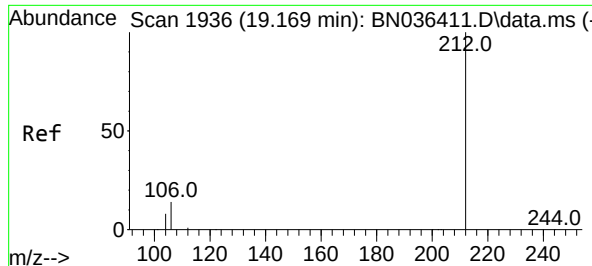
Tgt Ion:178 Resp: 11446
Ion Ratio Lower Upper
178 100
176 19.5 15.7 23.5
179 15.3 12.4 18.6



#26
Anthracene
Concen: 0.411 ng
RT: 17.273 min Scan# 1695
Delta R.T. -0.000 min
Lab File: BN036416.D
Acq: 10 Feb 2025 16:36

Tgt Ion:178 Resp: 10171
Ion Ratio Lower Upper
178 100
176 18.8 14.9 22.3
179 15.2 12.4 18.6





#27

Fluoranthene-d10

Concen: 0.379 ng

RT: 19.169 min Scan# 1936

Delta R.T. -0.000 min

Lab File: BN036416.D

Acq: 10 Feb 2025 16:36

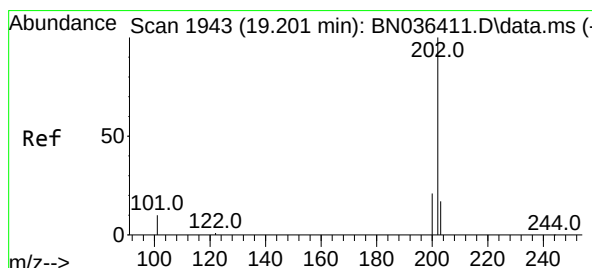
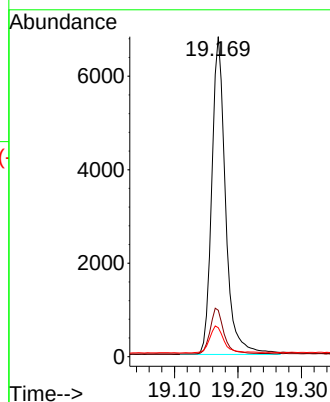
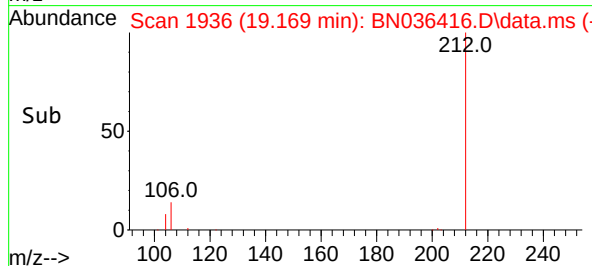
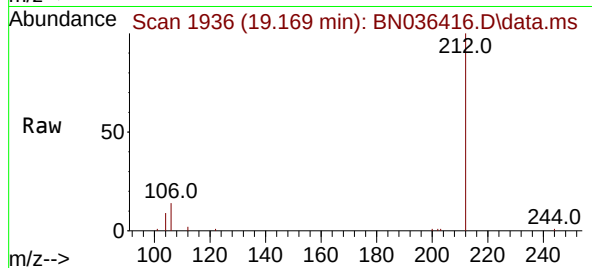
Instrument :

BNA_N

ClientSampleId :

ICVBN021025

Tgt Ion:	212	Resp:	10243
Ion	Ratio	Lower	Upper
212	100		
106	14.6	11.5	17.3
104	8.6	7.1	10.7



#28

Fluoranthene

Concen: 0.389 ng

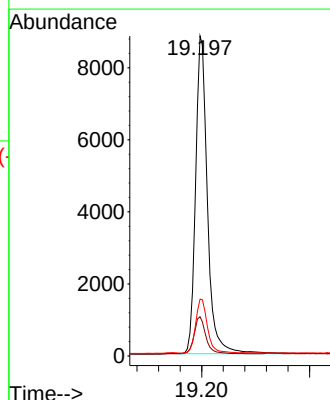
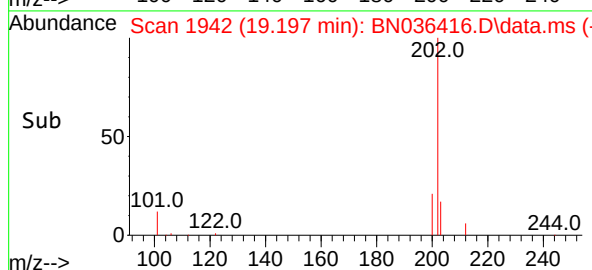
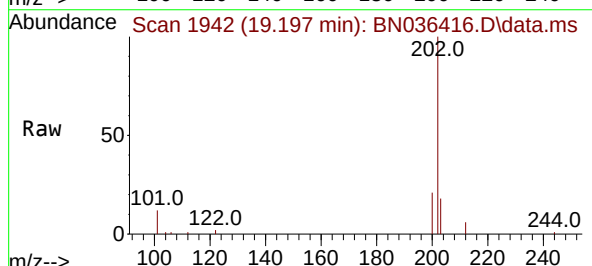
RT: 19.197 min Scan# 1942

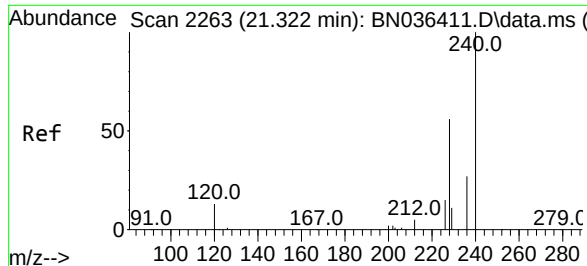
Delta R.T. -0.005 min

Lab File: BN036416.D

Acq: 10 Feb 2025 16:36

Tgt Ion:	202	Resp:	13415
Ion	Ratio	Lower	Upper
202	100		
101	11.4	9.2	13.8
203	16.9	13.4	20.0





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.322 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036416.D

Acq: 10 Feb 2025 16:36

Instrument :

BNA_N

ClientSampleId :

ICVBN021025

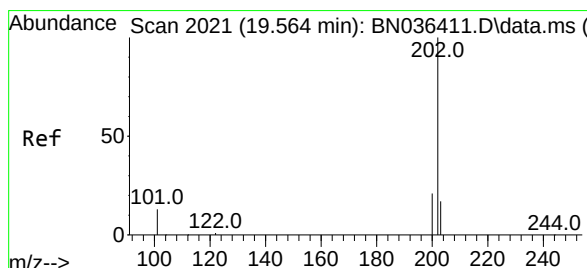
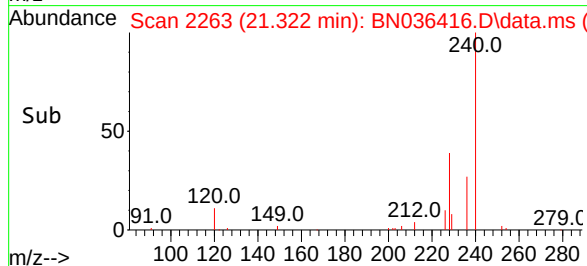
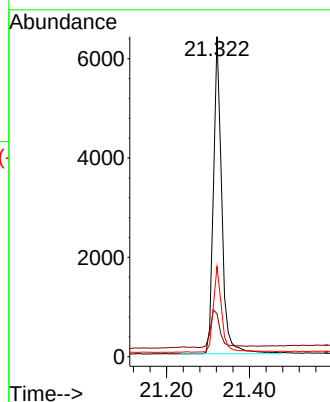
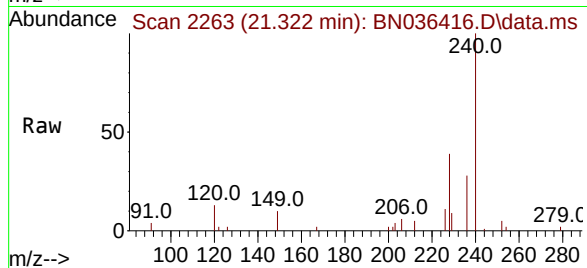
Tgt Ion:240 Resp: 8903

Ion Ratio Lower Upper

240 100

120 13.4 13.3 19.9

236 28.2 23.0 34.6



#30

Pyrene

Concen: 0.405 ng

RT: 19.559 min Scan# 2020

Delta R.T. -0.005 min

Lab File: BN036416.D

Acq: 10 Feb 2025 16:36

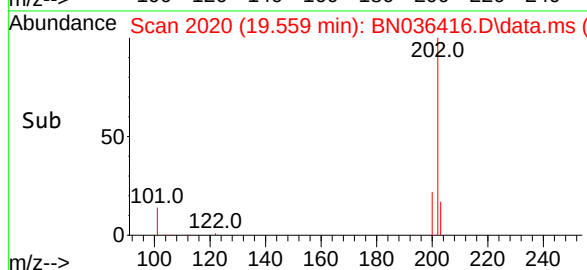
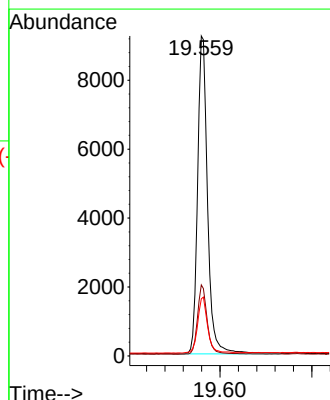
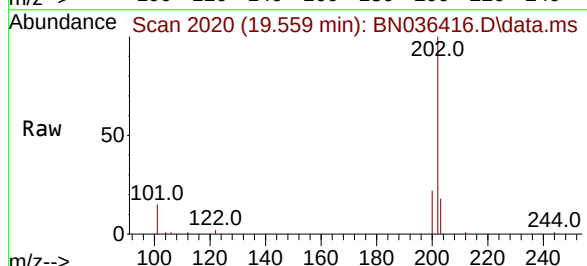
Tgt Ion:202 Resp: 13881

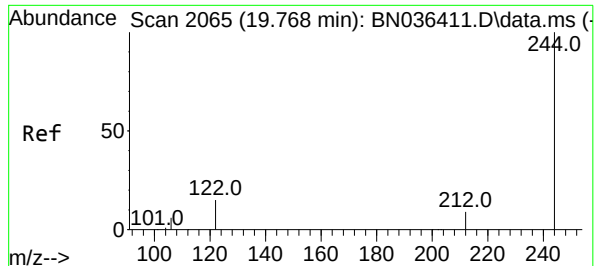
Ion Ratio Lower Upper

202 100

200 21.2 16.9 25.3

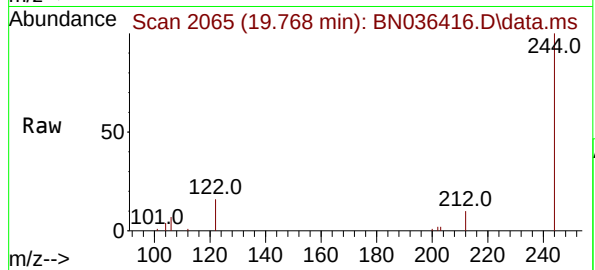
203 17.4 13.9 20.9



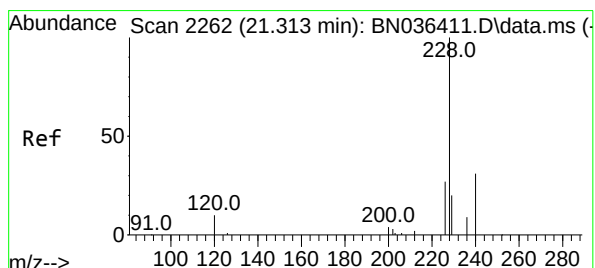
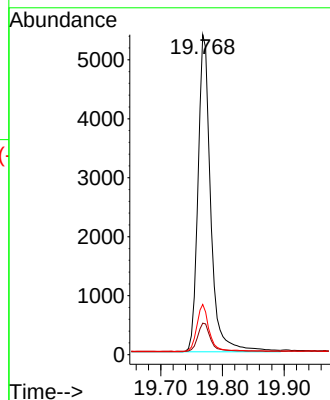
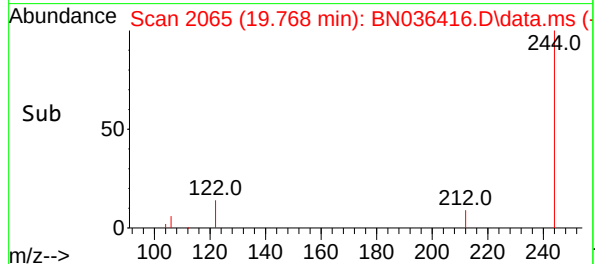


#31
Terphenyl-d14
Concen: 0.407 ng
RT: 19.768 min Scan# 2065
Delta R.T. -0.000 min
Lab File: BN036416.D
Acq: 10 Feb 2025 16:36

Instrument :
BNA_N
ClientSampleId :
ICVBN021025

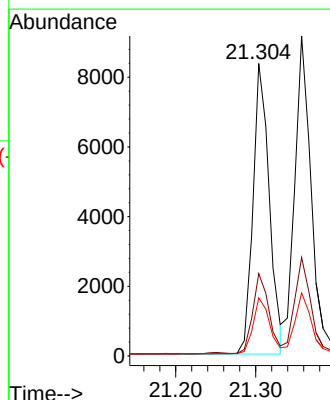
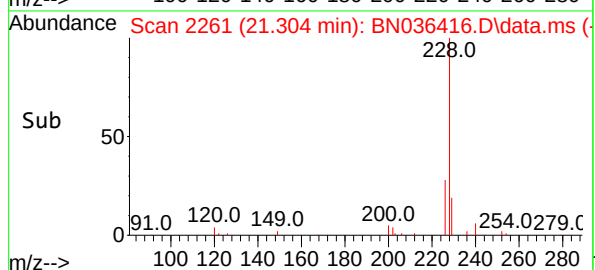
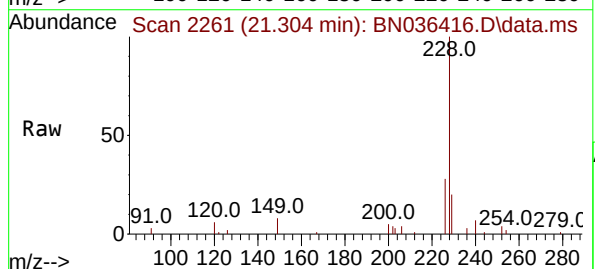


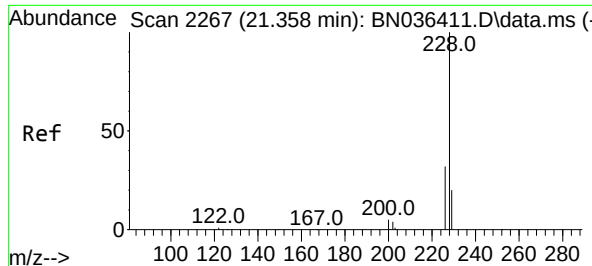
Tgt Ion:244 Resp: 7744
Ion Ratio Lower Upper
244 100
212 9.8 8.1 12.1
122 15.7 12.8 19.2



#32
Benzo(a)anthracene
Concen: 0.403 ng
RT: 21.304 min Scan# 2261
Delta R.T. -0.009 min
Lab File: BN036416.D
Acq: 10 Feb 2025 16:36

Tgt Ion:228 Resp: 11819
Ion Ratio Lower Upper
228 100
226 28.2 22.2 33.2
229 19.9 16.5 24.7





#33

Chrysene

Concen: 0.423 ng

RT: 21.357 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036416.D

Acq: 10 Feb 2025 16:36

Instrument :

BNA_N

ClientSampleId :

ICVBN021025

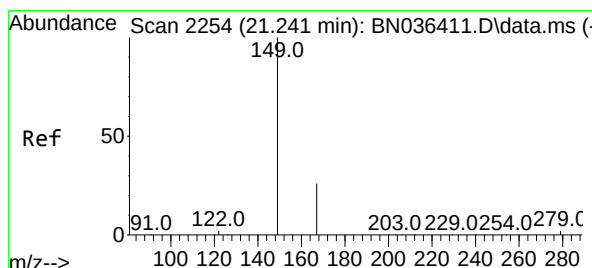
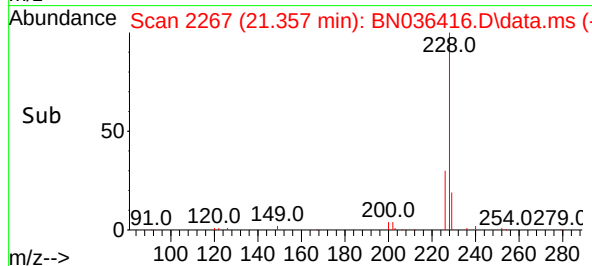
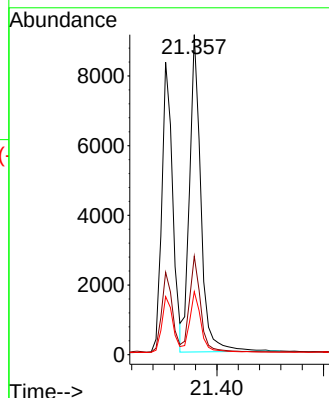
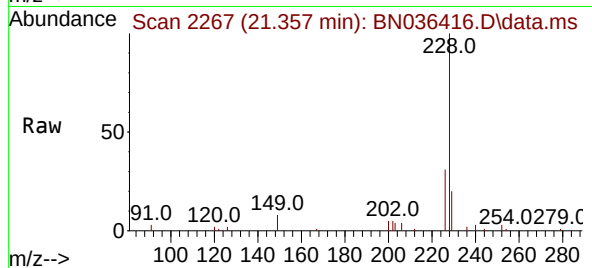
Tgt Ion:228 Resp: 13425

Ion Ratio Lower Upper

228 100

226 30.7 25.5 38.3

229 19.7 16.4 24.6



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.383 ng

RT: 21.241 min Scan# 2254

Delta R.T. -0.000 min

Lab File: BN036416.D

Acq: 10 Feb 2025 16:36

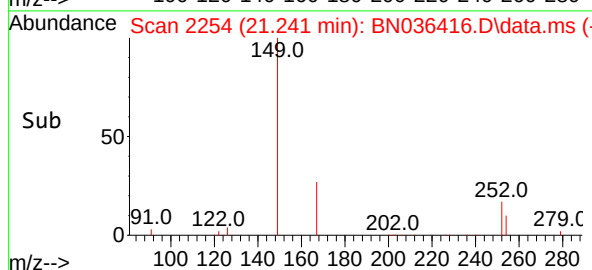
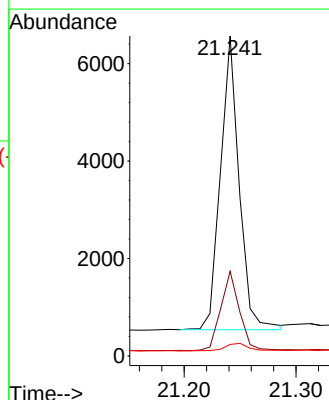
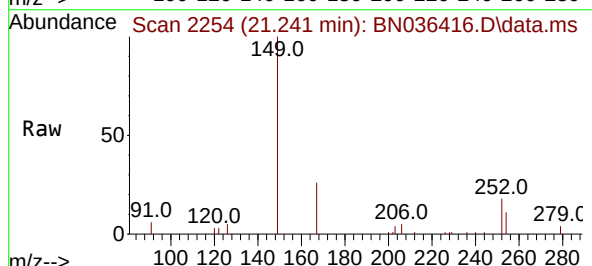
Tgt Ion:149 Resp: 6985

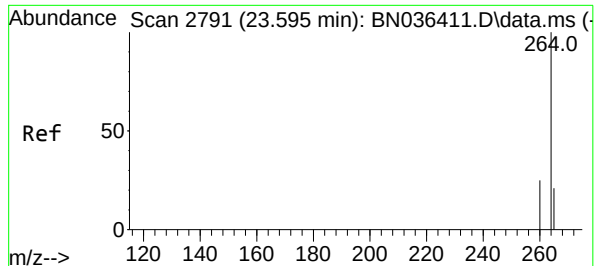
Ion Ratio Lower Upper

149 100

167 27.5 21.2 31.8

279 3.5 2.7 4.1





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.592 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036416.D

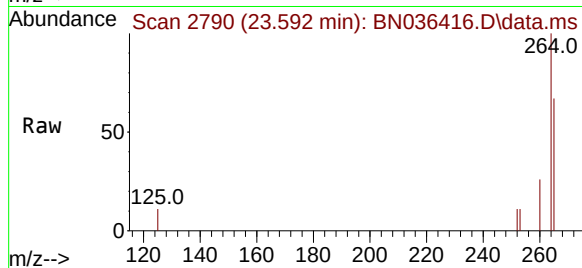
Acq: 10 Feb 2025 16:36

Instrument :

BNA_N

ClientSampleId :

ICVBN021025



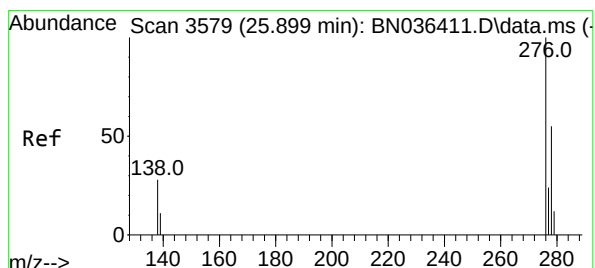
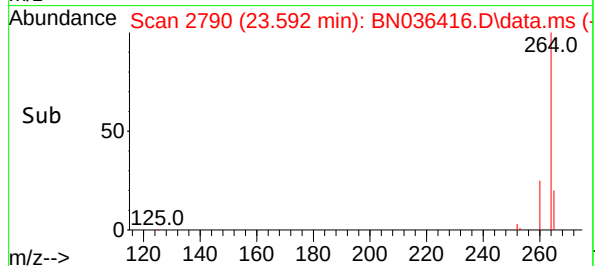
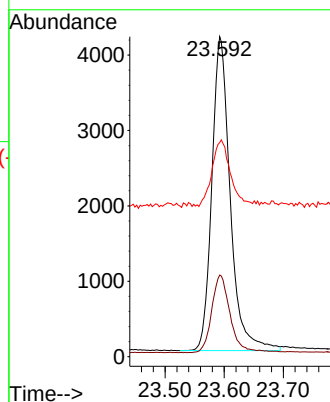
Tgt Ion:264 Resp: 8977

Ion Ratio Lower Upper

264 100

260 25.5 20.9 31.3

265 66.9 60.7 91.1



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.438 ng

RT: 25.896 min Scan# 3578

Delta R.T. -0.003 min

Lab File: BN036416.D

Acq: 10 Feb 2025 16:36

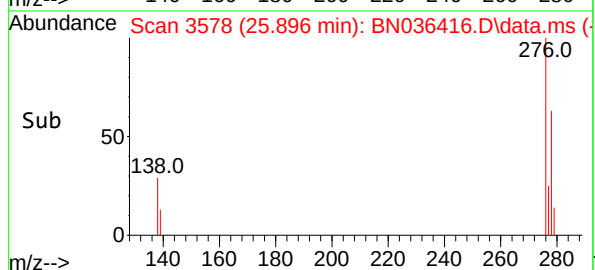
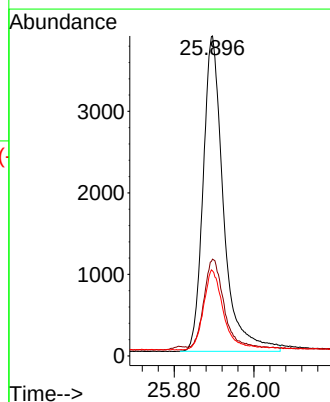
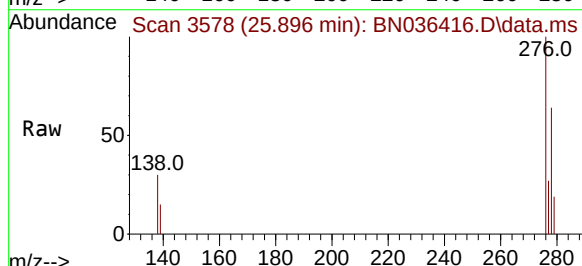
Tgt Ion:276 Resp: 13738

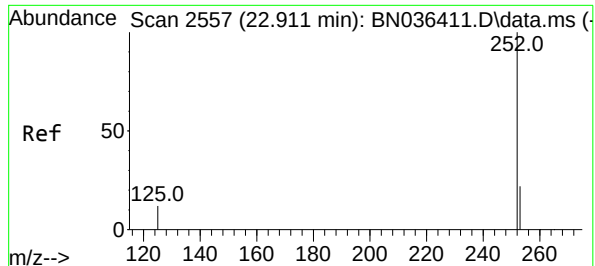
Ion Ratio Lower Upper

276 100

138 27.6 22.2 33.2

277 24.3 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.415 ng

RT: 22.908 min Scan# 2556

Delta R.T. -0.003 min

Lab File: BN036416.D

Acq: 10 Feb 2025 16:36

Instrument :

BNA_N

ClientSampleId :

ICVBN021025

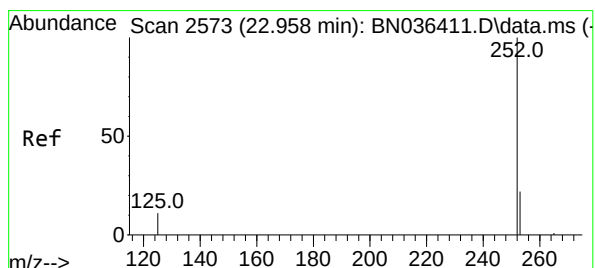
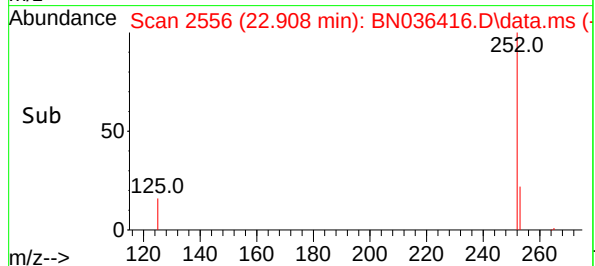
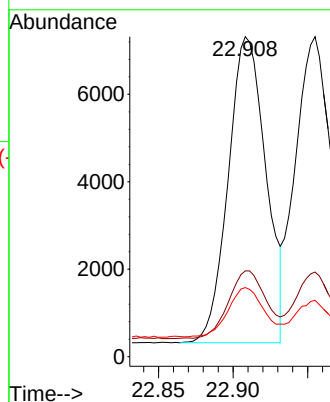
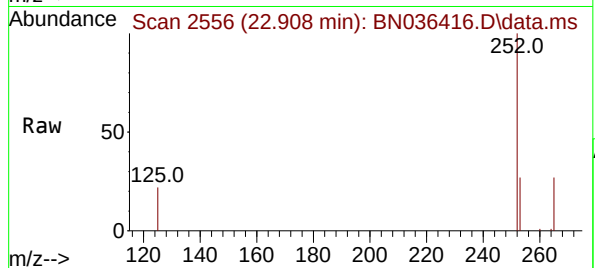
Tgt Ion:252 Resp: 12283

Ion Ratio Lower Upper

252 100

253 26.8 21.9 32.9

125 21.6 15.0 22.6



#38

Benzo(k)fluoranthene

Concen: 0.430 ng

RT: 22.955 min Scan# 2572

Delta R.T. -0.003 min

Lab File: BN036416.D

Acq: 10 Feb 2025 16:36

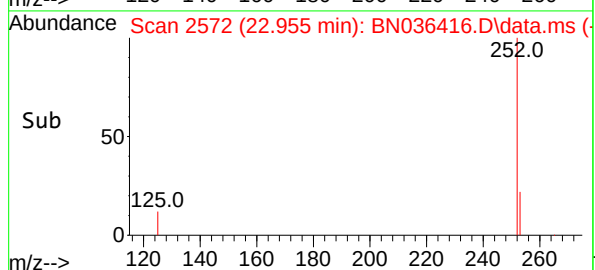
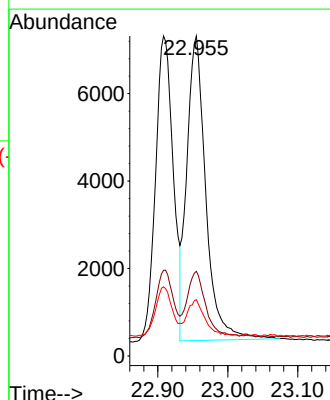
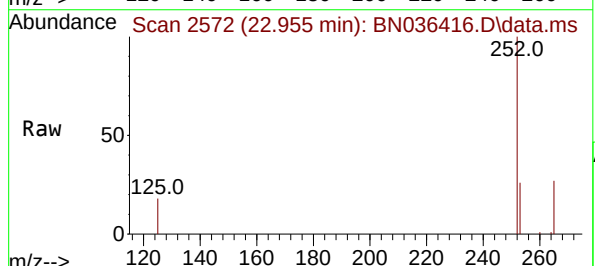
Tgt Ion:252 Resp: 13099

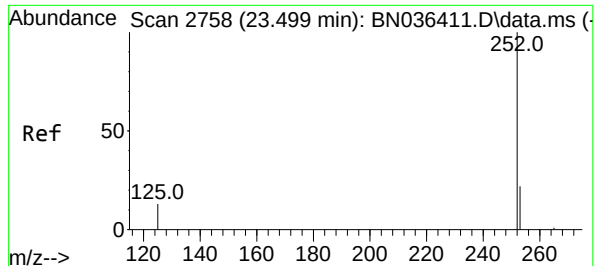
Ion Ratio Lower Upper

252 100

253 26.5 22.2 33.4

125 17.6 15.0 22.4





#39

Benzo(a)pyrene

Concen: 0.454 ng

RT: 23.493 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN036416.D

Acq: 10 Feb 2025 16:36

Instrument :

BNA_N

ClientSampleId :

ICVBN021025

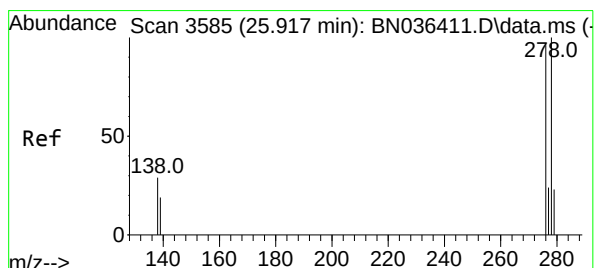
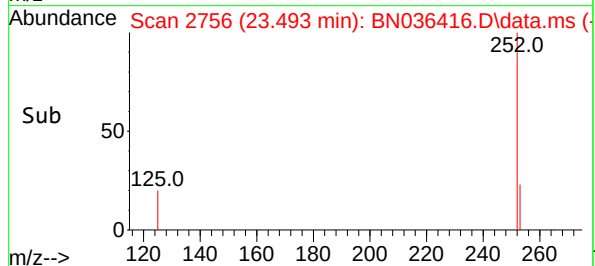
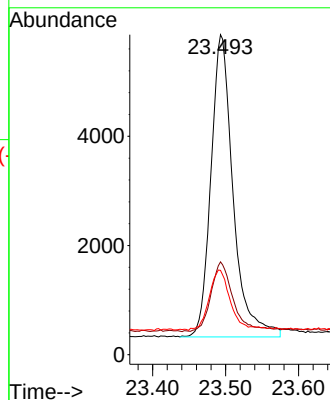
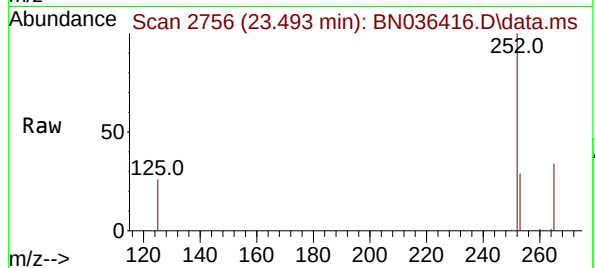
Tgt Ion:252 Resp: 11703

Ion Ratio Lower Upper

252 100

253 29.0 24.4 36.6

125 26.4 18.2 27.2



#40

Dibenzo(a,h)anthracene

Concen: 0.427 ng

RT: 25.908 min Scan# 3582

Delta R.T. -0.009 min

Lab File: BN036416.D

Acq: 10 Feb 2025 16:36

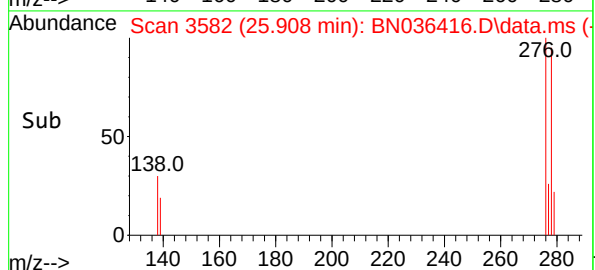
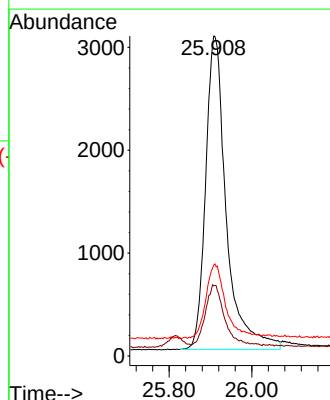
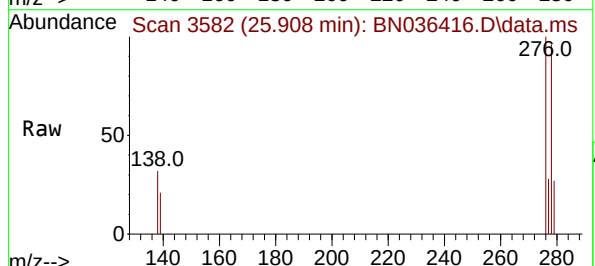
Tgt Ion:278 Resp: 10585

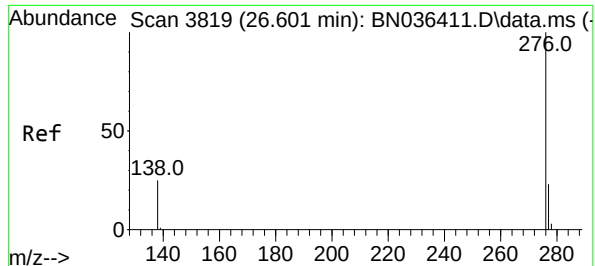
Ion Ratio Lower Upper

278 100

139 21.9 18.5 27.7

279 28.4 24.8 37.2





#41

Benzo(g,h,i)perylene

Concen: 0.389 ng

RT: 26.595 min Scan# 3817

Delta R.T. -0.006 min

Lab File: BN036416.D

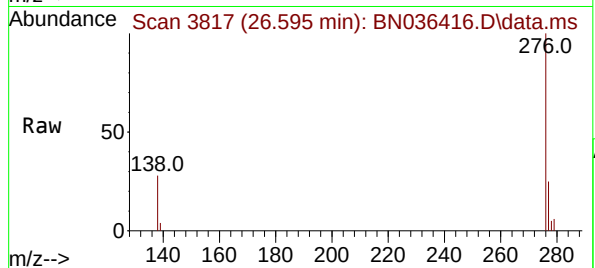
Acq: 10 Feb 2025 16:36

Instrument :

BNA_N

ClientSampleId :

ICVBN021025



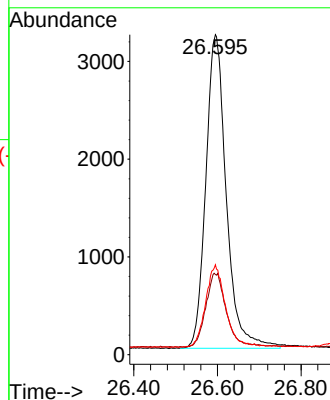
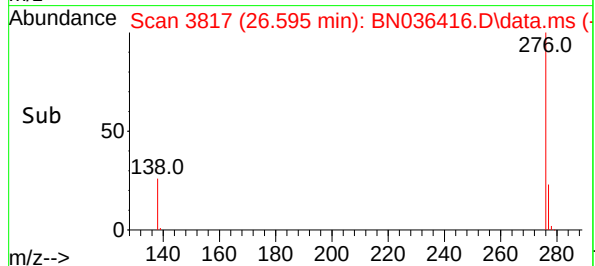
Tgt Ion:276 Resp: 10921

Ion Ratio Lower Upper

276 100

277 25.1 20.7 31.1

138 28.1 21.8 32.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
Data File : BN036416.D
Acq On : 10 Feb 2025 16:36
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN021025

Quant Time: Feb 11 01:25:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 11 01:17:14 2025
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	123	0.00
2	1,4-Dioxane	0.438	0.449	-2.5	127	0.00
3	n-Nitrosodimethylamine	0.760	0.732	3.7	118	0.00
4 S	2-Fluorophenol	0.945	0.877	7.2	115	0.00
5 S	Phenol-d6	1.109	0.961	13.3	114	0.00
6	bis(2-Chloroethyl)ether	1.160	1.187	-2.3	134	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	122	0.00
8 S	Nitrobenzene-d5	0.395	0.354	10.4	118	0.00
9	Naphthalene	1.154	1.121	2.9	122	0.00
10	Hexachlorobutadiene	0.281	0.284	-1.1	122	0.00
11 SURR	2-Methylnaphthalene-d10	0.615	0.598	2.8	121	0.00
12	2-Methylnaphthalene	0.757	0.764	-0.9	126	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	120	0.00
14 S	2,4,6-Tribromophenol	0.198	0.165	16.7	106	0.00
15 S	2-Fluorobiphenyl	1.504	1.529	-1.7	133	0.00
16	Acenaphthylene	1.767	1.863	-5.4	132	0.00
17	Acenaphthene	1.180	1.201	-1.8	126	0.00
18	Fluorene	1.680	1.669	0.7	121	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	117	0.00
20	4,6-Dinitro-2-methylphenol	0.078	0.068	12.8	116	0.00
21	4-Bromophenyl-phenylether	0.239	0.236	1.3	119	0.00
22	Hexachlorobenzene	0.295	0.299	-1.4	123	0.00
23	Atrazine	0.199	0.197	1.0	123	0.00
24	Pentachlorophenol	0.140	0.111	20.7	106	0.00
25	Phenanthrene	1.156	1.178	-1.9	126	0.00
26	Anthracene	1.020	1.047	-2.6	126	0.00
27 SURR	Fluoranthene-d10	1.112	1.054	5.2	116	0.00
28	Fluoranthene	1.421	1.381	2.8	119	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	119	0.00
30	Pyrene	1.541	1.559	-1.2	121	0.00
31 S	Terphenyl-d14	0.854	0.870	-1.9	121	0.00
32	Benzo(a)anthracene	1.316	1.328	-0.9	122	0.00
33	Chrysene	1.425	1.508	-5.8	132	0.00
34	Bis(2-ethylhexyl)phthalate	0.820	0.785	4.3	120	0.00
35 I	Perylene-d12	1.000	1.000	0.0	116	0.00
36	Indeno(1,2,3-cd)pyrene	1.398	1.530	-9.4	129	0.00
37	Benzo(b)fluoranthene	1.317	1.368	-3.9	126	0.00
38	Benzo(k)fluoranthene	1.356	1.459	-7.6	124	0.00
39 C	Benzo(a)pyrene	1.150	1.304	-13.4	137	0.00
40	Dibenzo(a,h)anthracene	1.103	1.179	-6.9	127	0.00
41	Benzo(g,h,i)perylene	1.250	1.217	2.6	113	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
 Data File : BN036416.D
 Acq On : 10 Feb 2025 16:36
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN021025

Quant Time: Feb 11 01:25:46 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 01:17:14 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	123	0.00
2	1,4-Dioxane	0.400	0.410	-2.5	127	0.00
3	n-Nitrosodimethylamine	0.400	0.385	3.8	118	0.00
4 S	2-Fluorophenol	0.400	0.371	7.3	115	0.00
5 S	Phenol-d6	0.400	0.347	13.3	114	0.00
6	bis(2-Chloroethyl)ether	0.400	0.409	-2.2	134	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	122	0.00
8 S	Nitrobenzene-d5	0.400	0.359	10.3	118	0.00
9	Naphthalene	0.400	0.389	2.8	122	0.00
10	Hexachlorobutadiene	0.400	0.404	-1.0	122	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.389	2.8	121	0.00
12	2-Methylnaphthalene	0.400	0.404	-1.0	126	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	120	0.00
14 S	2,4,6-Tribromophenol	0.400	0.332	17.0	106	0.00
15 S	2-Fluorobiphenyl	0.400	0.407	-1.7	133	0.00
16	Acenaphthylene	0.400	0.422	-5.5	132	0.00
17	Acenaphthene	0.400	0.407	-1.7	126	0.00
18	Fluorene	0.400	0.397	0.8	121	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	117	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.348	13.0	116	0.00
21	4-Bromophenyl-phenylether	0.400	0.395	1.3	119	0.00
22	Hexachlorobenzene	0.400	0.406	-1.5	123	0.00
23	Atrazine	0.400	0.396	1.0	123	0.00
24	Pentachlorophenol	0.400	0.316	21.0	106	0.00
25	Phenanthrene	0.400	0.408	-2.0	126	0.00
26	Anthracene	0.400	0.411	-2.7	126	0.00
27 SURR	Fluoranthene-d10	0.400	0.379	5.3	116	0.00
28	Fluoranthene	0.400	0.389	2.8	119	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	119	0.00
30	Pyrene	0.400	0.405	-1.3	121	0.00
31 S	Terphenyl-d14	0.400	0.407	-1.7	121	0.00
32	Benzo(a)anthracene	0.400	0.403	-0.8	122	0.00
33	Chrysene	0.400	0.423	-5.7	132	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.383	4.3	120	0.00
35 I	Perylene-d12	0.400	0.400	0.0	116	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.438	-9.5	129	0.00
37	Benzo(b)fluoranthene	0.400	0.415	-3.7	126	0.00
38	Benzo(k)fluoranthene	0.400	0.430	-7.5	124	0.00
39 C	Benzo(a)pyrene	0.400	0.454	-13.5	137	0.00
40	Dibenzo(a,h)anthracene	0.400	0.427	-6.7	127	0.00
41	Benzo(g,h,i)perylene	0.400	0.389	2.8	113	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.: Q1501 SAS No.: Q1501 SDG No.: Q1501

Instrument ID: BNA_N Calibration Date/Time: 03/06/2025 14:05

Lab File ID: BN036534.D Init. Calib. Date(s): 02/10/2025 02/10/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 12:25 16:00

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.615	0.519		-15.6	20.0
Fluoranthene-d10	1.112	0.976		-12.2	20.0
2-Fluorophenol	0.945	0.817		-13.5	20.0
Phenol-d6	1.109	0.971		-12.4	20.0
Nitrobenzene-d5	0.395	0.357		-9.6	20.0
2-Fluorobiphenyl	1.504	1.765		17.4	20.0
2,4,6-Tribromophenol	0.198	0.142		-28.3	20.0
Terphenyl-d14	0.854	0.780		-8.7	20.0
1,4-Dioxane	0.438	0.407		-7.1	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN030625\
 Data File : BN036534.D
 Acq On : 06 Mar 2025 14:05
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Manual Integrations**APPROVED**

Reviewed By :Anahy Claudio 03/07/2025

Supervised By :Jagrut Upadhyay 03/07/2025

Quant Time: Mar 06 15:34:31 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Mar 05 16:08:57 2025

Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.732	152	2140	0.400	ng	0.00
7) Naphthalene-d8	10.519	136	5254	0.400	ng	# 0.01
13) Acenaphthene-d10	14.366	164	3388	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	6841	0.400	ng	0.00
29) Chrysene-d12	21.295	240	5806	0.400	ng	# 0.00
35) Perylene-d12	23.557	264	5637	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.319	112	1749	0.346	ng	0.00
5) Phenol-d6	6.901	99	2079	0.350	ng	0.00
8) Nitrobenzene-d5	8.875	82	1874	0.361	ng	0.00
11) 2-Methylnaphthalene-d10	12.111	152	2727	0.338	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	482	0.287	ng	0.00
15) 2-Fluorobiphenyl	12.993	172	5980	0.469	ng	0.00
27) Fluoranthene-d10	19.146	212	6680	0.351	ng	0.00
31) Terphenyl-d14	19.745	244	4527	0.365	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.247	88	871	0.372	ng	98
3) n-Nitrosodimethylamine	3.557	42	1671	0.411	ng	91
6) bis(2-Chloroethyl)ether	7.154	93	2269	0.366	ng	99
9) Naphthalene	10.562	128	5328	0.351	ng	99
10) Hexachlorobutadiene	10.861	225	1304	0.353	ng	# 100
12) 2-Methylnaphthalene	12.187	142	3235	0.325	ng	97
16) Acenaphthylene	14.088	152	5109	0.341	ng	99
17) Acenaphthene	14.430	154	3420	0.342	ng	99
18) Fluorene	15.414	166	4649	0.327	ng	99
20) 4,6-Dinitro-2-methylph...	15.510	198	351	0.261	ng	# 75
21) 4-Bromophenyl-phenylether	16.317	248	1408	0.345	ng	# 76
22) Hexachlorobenzene	16.429	284	1769	0.351	ng	96
23) Atrazine	16.577	200	1167	0.342	ng	# 91
24) Pentachlorophenol	16.776	266	811	0.339	ng	99
25) Phenanthrene	17.148	178	7023	0.355	ng	100
26) Anthracene	17.248	178	6384	0.366	ng	99
28) Fluoranthene	19.173	202	8662	0.356	ng	99
30) Pyrene	19.536	202	8963	0.401	ng	100
32) Benzo(a)anthracene	21.286	228	7051	0.369	ng	99
33) Chrysene	21.331	228	8095	0.391	ng	99
34) Bis(2-ethylhexyl)phtha...	21.214	149	4839	0.407	ng	98
36) Indeno(1,2,3-cd)pyrene	25.841	276	7469	0.379	ng	98
37) Benzo(b)fluoranthene	22.876	252	7561m	0.407	ng	
38) Benzo(k)fluoranthene	22.920	252	7496	0.392	ng	97
39) Benzo(a)pyrene	23.458	252	6413	0.396	ng	# 78
40) Dibenzo(a,h)anthracene	25.861	278	5768	0.371	ng	94
41) Benzo(g,h,i)perylene	26.536	276	6588	0.374	ng	98

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN036534\
Data File : BN036534.D
Acq On : 06 Mar 2025 14:05
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

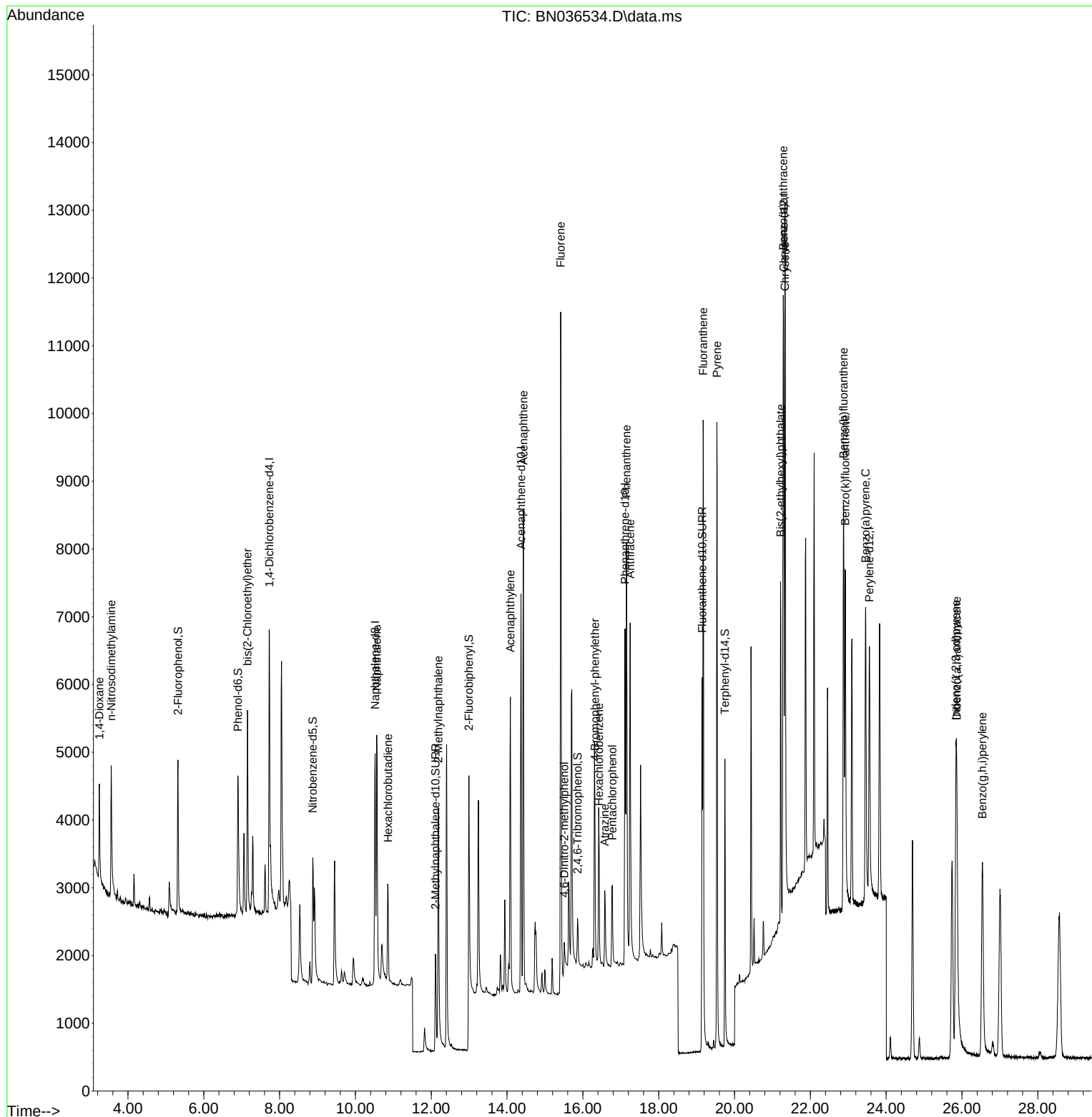
Manual Integrations

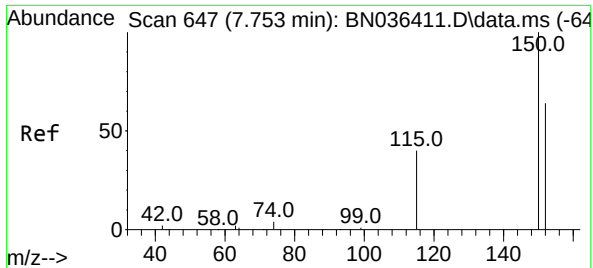
APPROVED

Reviewed By :Anahy Claudio 03/07/2025

Supervised By :Jagrut Upadhyay 03/07/2025

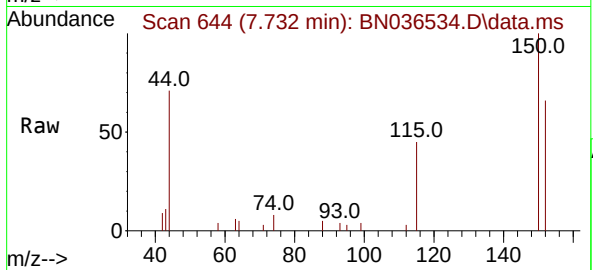
Quant Time: Mar 06 15:34:31 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 16:08:57 2025
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.732 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN036534.D
Acq: 06 Mar 2025 14:05

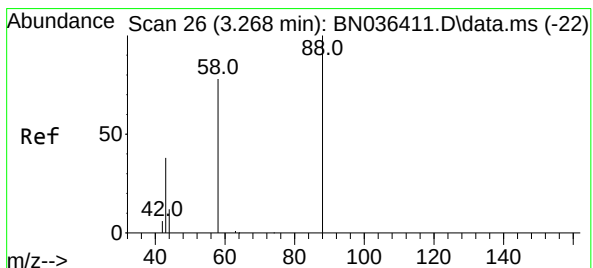
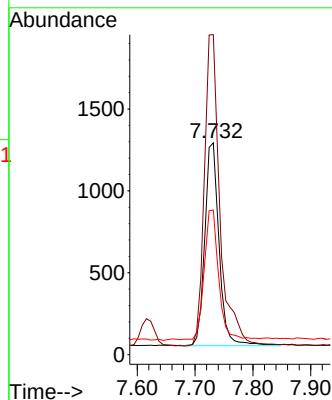
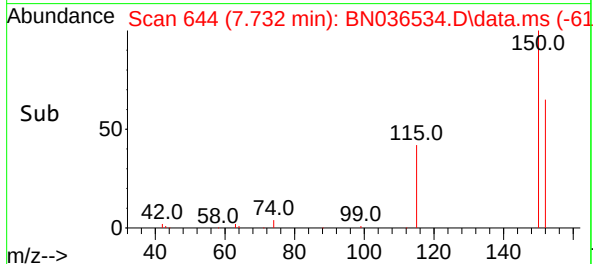
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion: 152 Resp: 2140
Ion Ratio Lower Upper
152 100
150 151.1 123.7 185.5
115 68.3 52.5 78.7

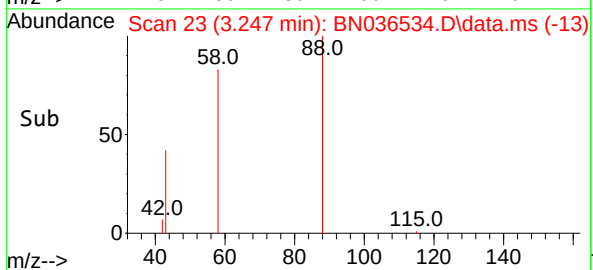
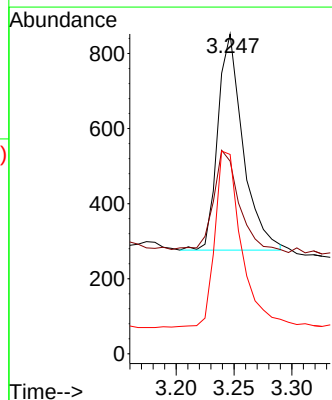
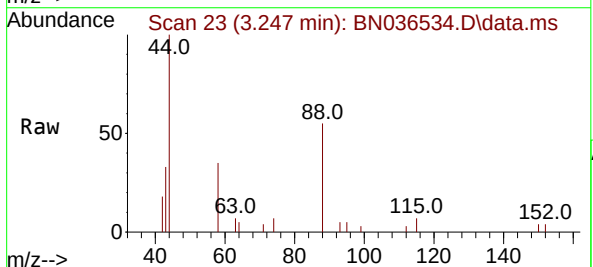
Manual Integrations
APPROVED

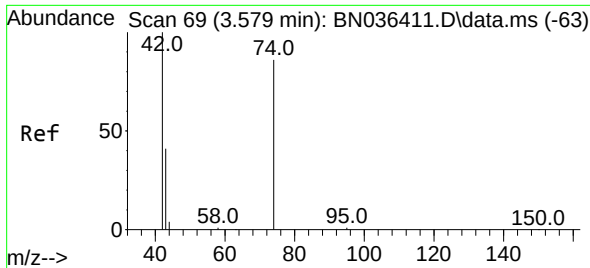
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025



#2
1,4-Dioxane
Concen: 0.372 ng
RT: 3.247 min Scan# 23
Delta R.T. -0.000 min
Lab File: BN036534.D
Acq: 06 Mar 2025 14:05

Tgt Ion: 88 Resp: 871
Ion Ratio Lower Upper
88 100
43 44.8 33.7 50.5
58 85.2 68.9 103.3





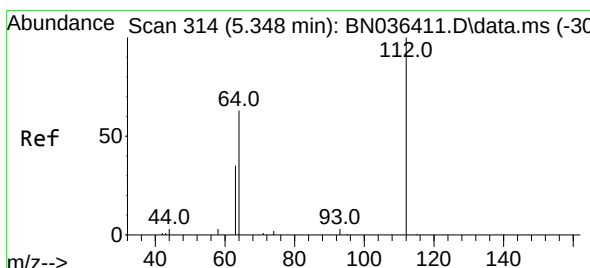
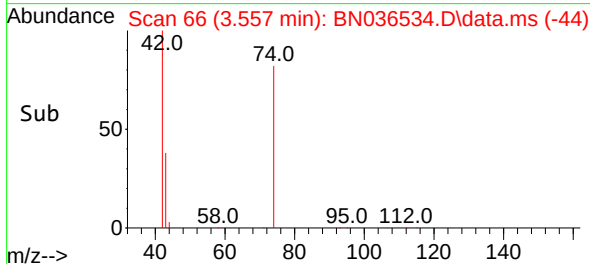
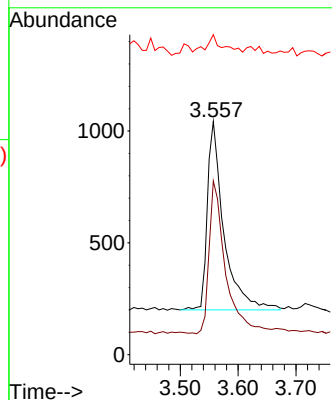
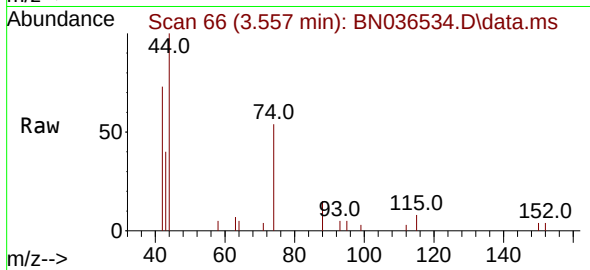
#3
n-Nitrosodimethylamine
Concen: 0.411 ng
RT: 3.557 min Scan# 60
Delta R.T. 0.007 min
Lab File: BN036534.D
Acq: 06 Mar 2025 14:05

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 42 Resp: 167
Ion Ratio Lower Upper
42 100
74 80.0 71.8 107.6
44 9.6 7.8 11.6

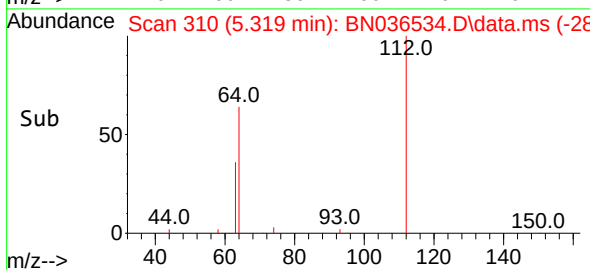
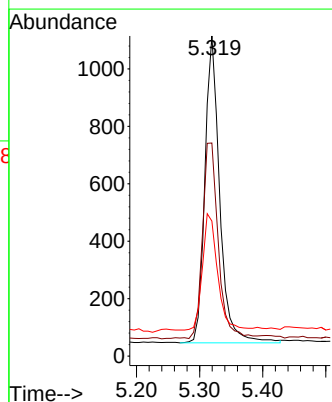
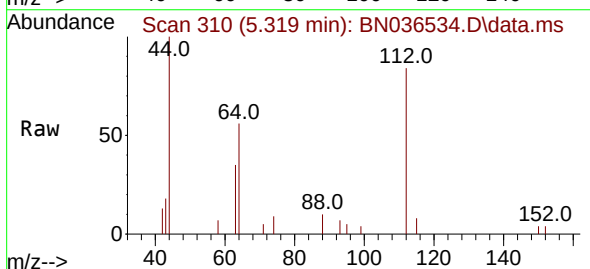
Manual Integrations
APPROVED

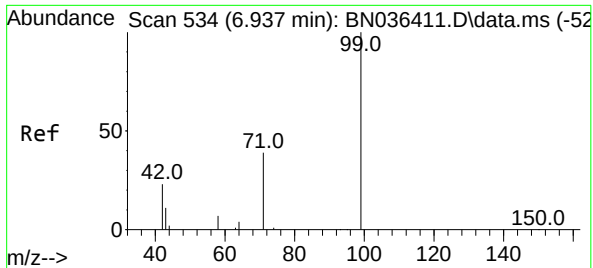
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025



#4
2-Fluorophenol
Concen: 0.346 ng
RT: 5.319 min Scan# 310
Delta R.T. -0.000 min
Lab File: BN036534.D
Acq: 06 Mar 2025 14:05

Tgt Ion:112 Resp: 1749
Ion Ratio Lower Upper
112 100
64 66.7 53.4 80.0
63 38.7 30.3 45.5





#5
Phenol-d6
Concen: 0.350 ng
RT: 6.901 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN036534.D
Acq: 06 Mar 2025 14:05

Instrument :

BNA_N

ClientSampleId :

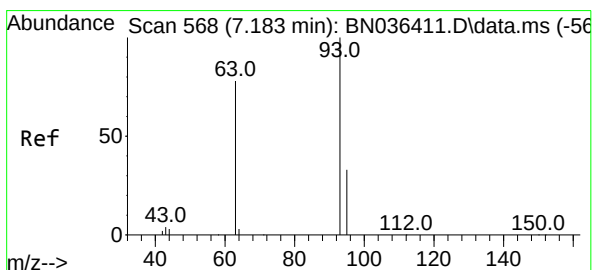
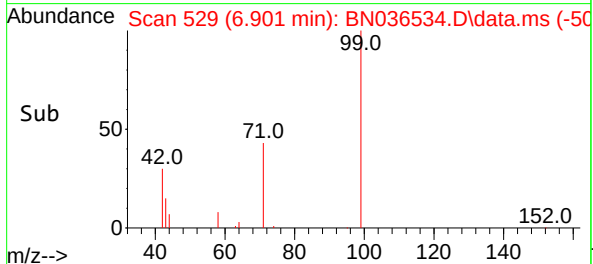
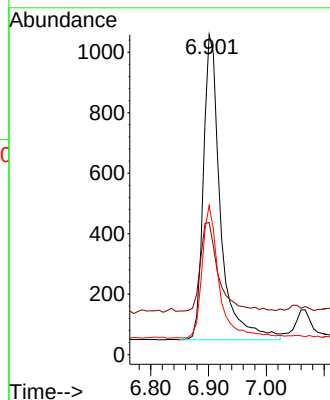
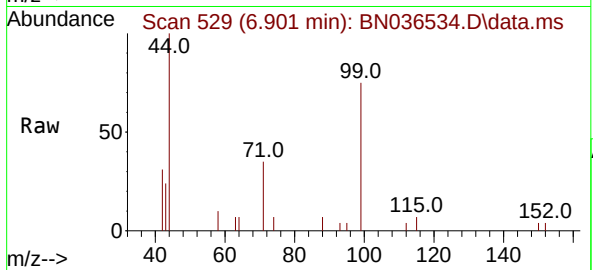
SSTDCCC0.4

Tgt Ion	Ratio	Lower	Upper
99	100		
42	30.5	21.7	32.5
71	43.2	32.6	49.0

Manual Integrations

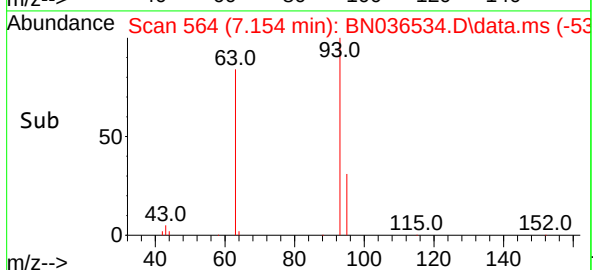
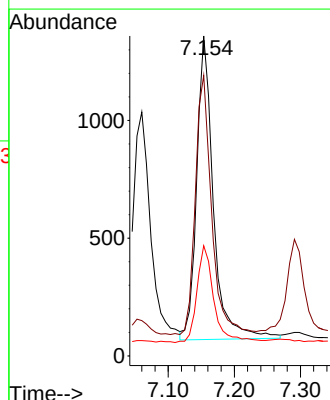
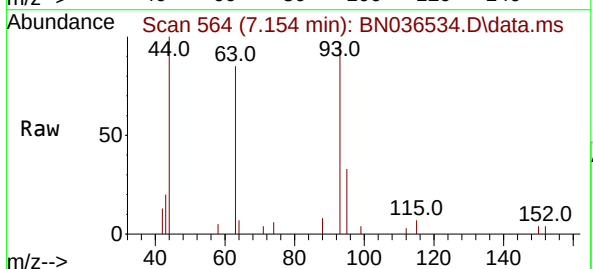
APPROVED

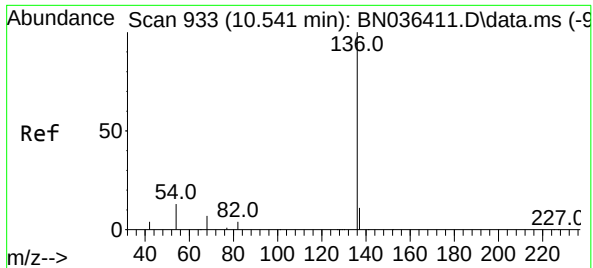
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025



#6
bis(2-Chloroethyl)ether
Concen: 0.366 ng
RT: 7.154 min Scan# 564
Delta R.T. -0.000 min
Lab File: BN036534.D
Acq: 06 Mar 2025 14:05

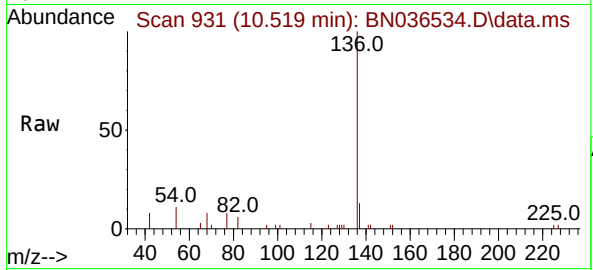
Tgt Ion	Ratio	Lower	Upper
93	100		
63	83.3	66.3	99.5
95	32.3	26.2	39.4





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.519 min Scan# 911
Delta R.T. 0.011 min
Lab File: BN036534.D
Acq: 06 Mar 2025 14:05

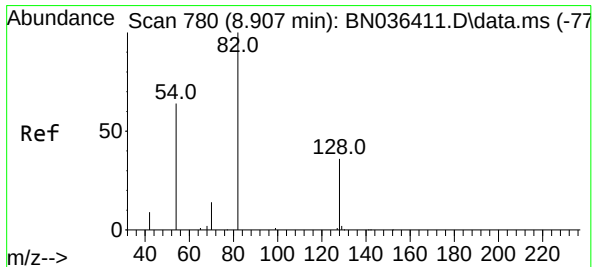
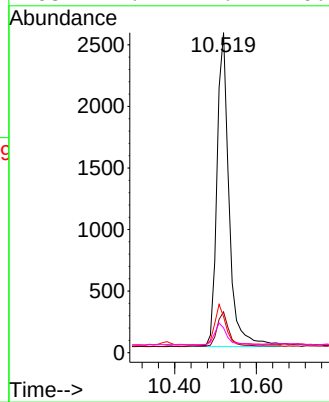
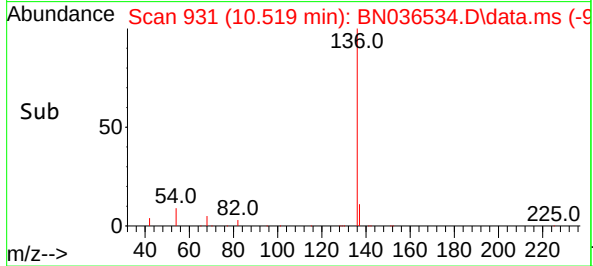
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:136 Resp: 5254
Ion Ratio Lower Upper
136 100
137 12.7 10.1 15.1
54 11.2 11.8 17.6
68 7.7 7.2 10.8

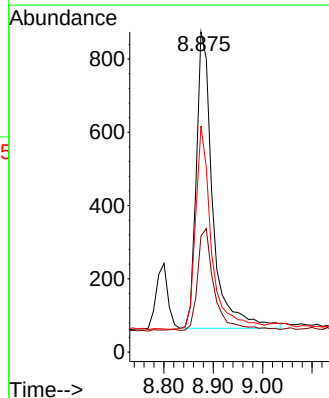
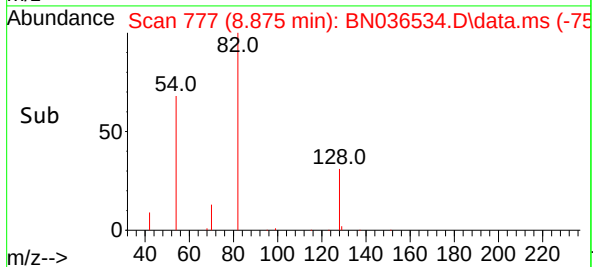
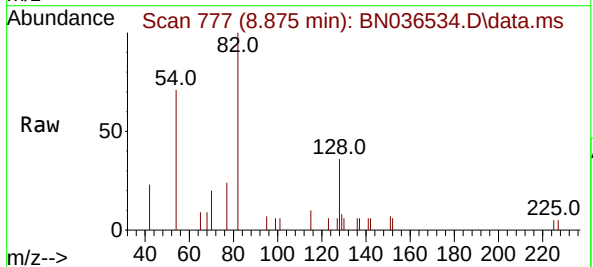
Manual Integrations
APPROVED

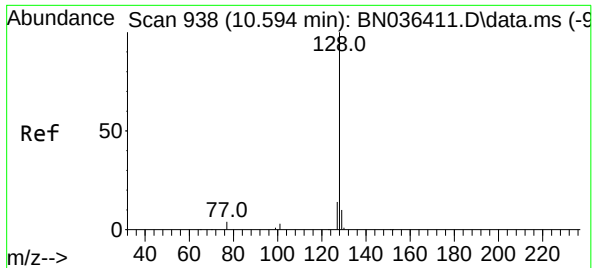
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025



#8
Nitrobenzene-d5
Concen: 0.361 ng
RT: 8.875 min Scan# 777
Delta R.T. -0.000 min
Lab File: BN036534.D
Acq: 06 Mar 2025 14:05

Tgt Ion: 82 Resp: 1874
Ion Ratio Lower Upper
82 100
128 36.3 31.9 47.9
54 70.6 53.1 79.7





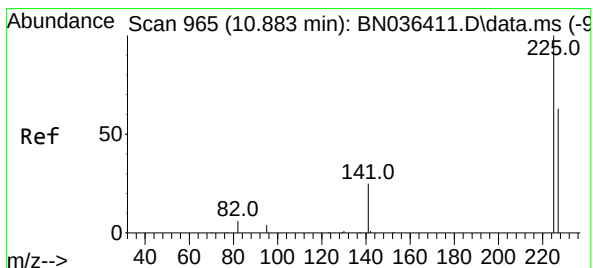
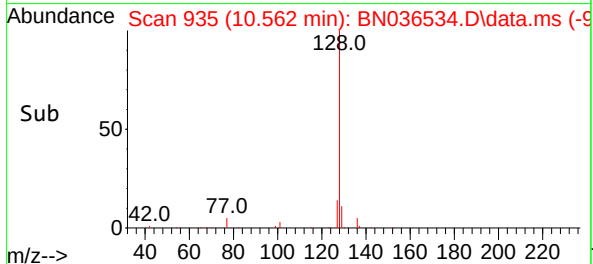
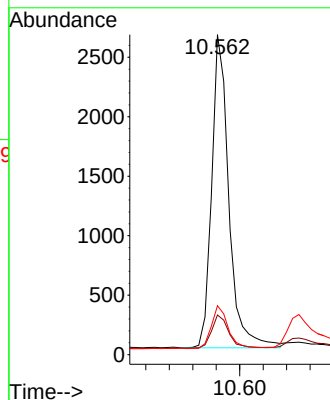
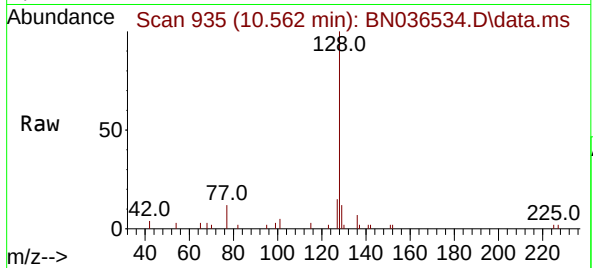
#9
Naphthalene
Concen: 0.351 ng
RT: 10.562 min Scan# 911
Delta R.T. -0.000 min
Lab File: BN036534.D
Acq: 06 Mar 2025 14:05

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 5328
Ion Ratio Lower Upper
128 100
129 12.4 9.6 14.4
127 15.3 12.0 18.0

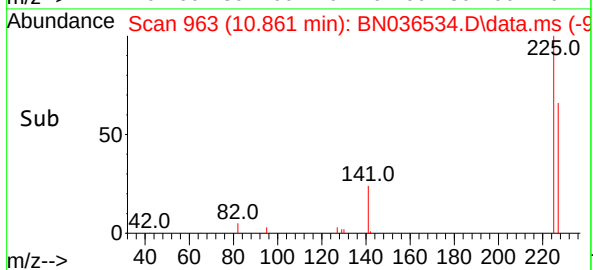
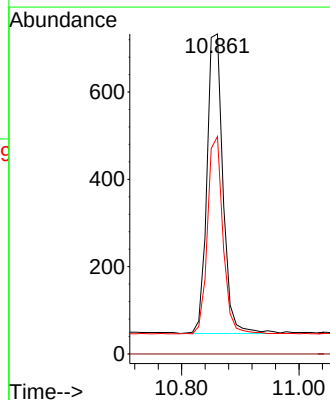
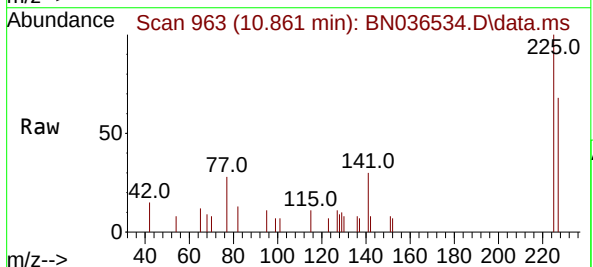
Manual Integrations
APPROVED

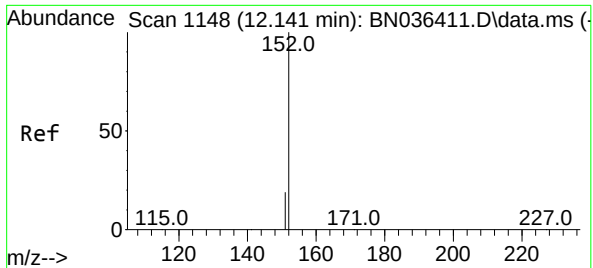
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025



#10
Hexachlorobutadiene
Concen: 0.353 ng
RT: 10.861 min Scan# 963
Delta R.T. 0.011 min
Lab File: BN036534.D
Acq: 06 Mar 2025 14:05

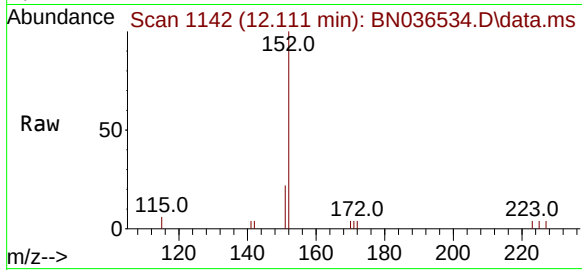
Tgt Ion:225 Resp: 1304
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.4 50.9 76.3





#11
2-Methylnaphthalene-d10
Concen: 0.338 ng
RT: 12.111 min Scan# 1142
Delta R.T. 0.005 min
Lab File: BN036534.D
Acq: 06 Mar 2025 14:05

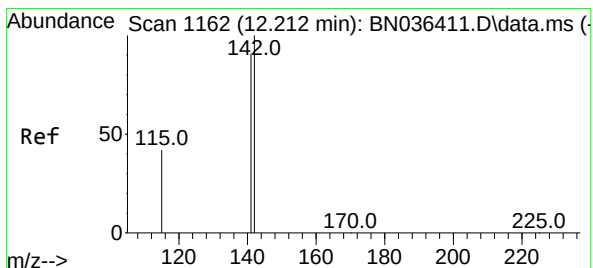
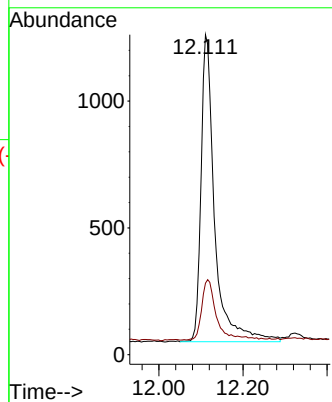
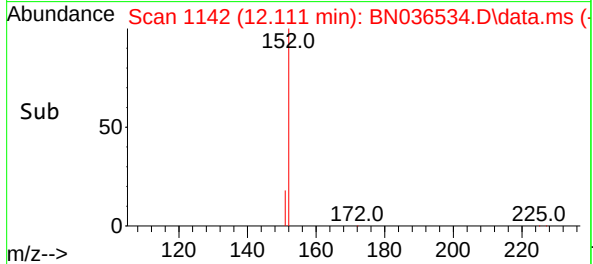
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:152 Resp: 272
Ion Ratio Lower Upper
152 100
151 21.7 16.6 25.0

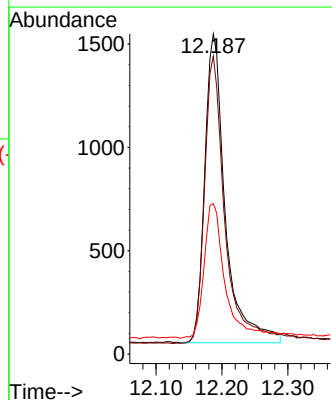
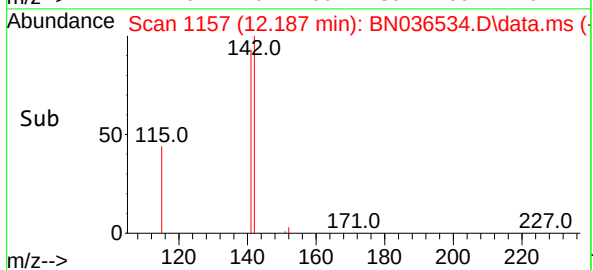
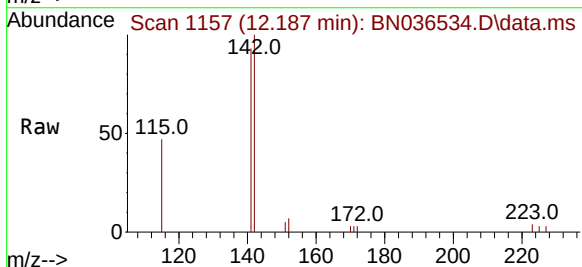
Manual Integrations
APPROVED

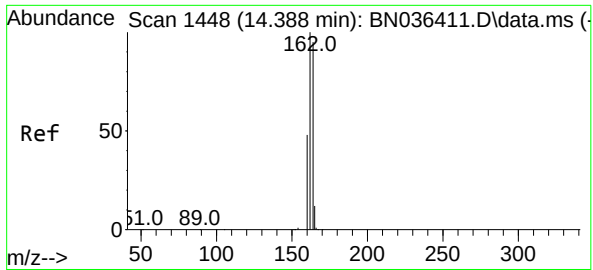
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025



#12
2-Methylnaphthalene
Concen: 0.325 ng
RT: 12.187 min Scan# 1157
Delta R.T. 0.005 min
Lab File: BN036534.D
Acq: 06 Mar 2025 14:05

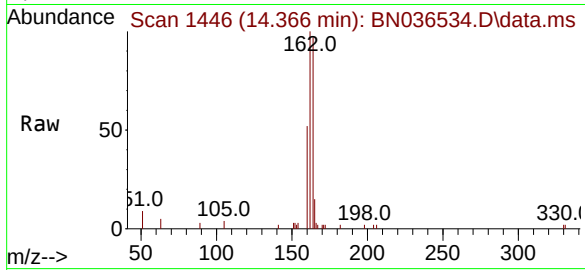
Tgt Ion:142 Resp: 3235
Ion Ratio Lower Upper
142 100
141 93.1 72.8 109.2
115 47.0 35.5 53.3





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. -0.000 min
Lab File: BN036534.D
Acq: 06 Mar 2025 14:05

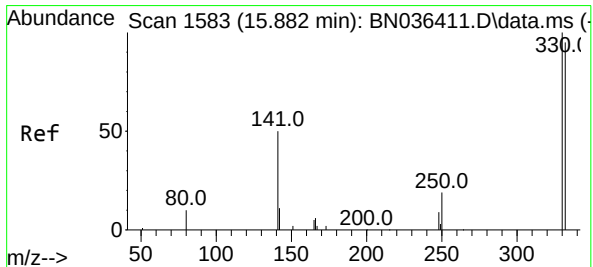
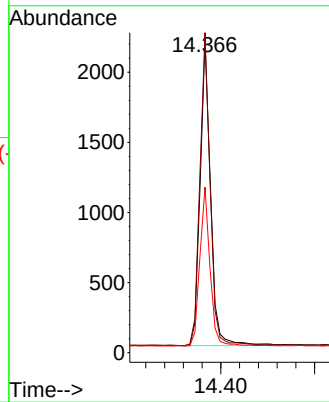
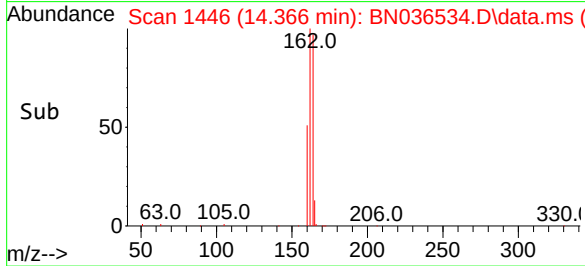
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



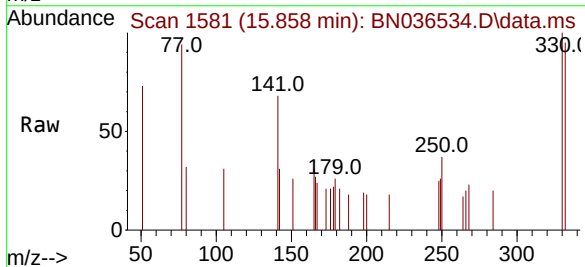
Tgt Ion:164 Resp: 338
Ion Ratio Lower Upper
164 100
162 102.7 84.1 126.1
160 53.1 41.4 62.0

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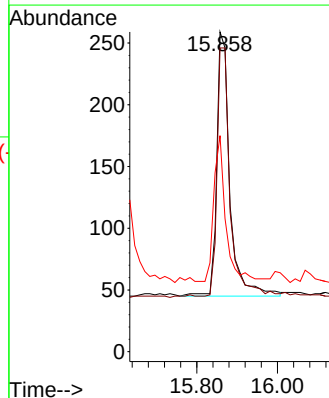
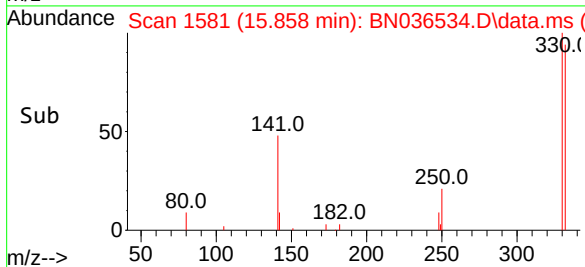
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

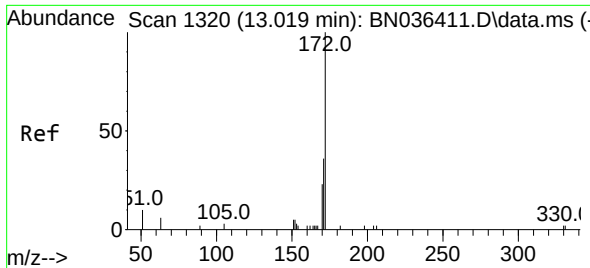


#14
2,4,6-Tribromophenol
Concen: 0.287 ng
RT: 15.858 min Scan# 1581
Delta R.T. -0.000 min
Lab File: BN036534.D
Acq: 06 Mar 2025 14:05



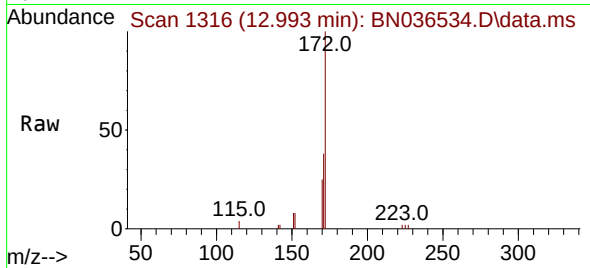
Tgt Ion:330 Resp: 482
Ion Ratio Lower Upper
330 100
332 92.3 76.6 114.8
141 49.8 37.8 56.8





#15
2-Fluorobiphenyl
Concen: 0.469 ng
RT: 12.993 min Scan# 11
Delta R.T. 0.005 min
Lab File: BN036534.D
Acq: 06 Mar 2025 14:05

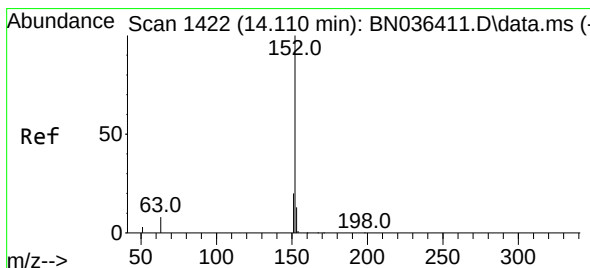
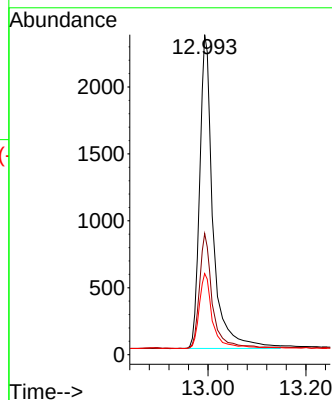
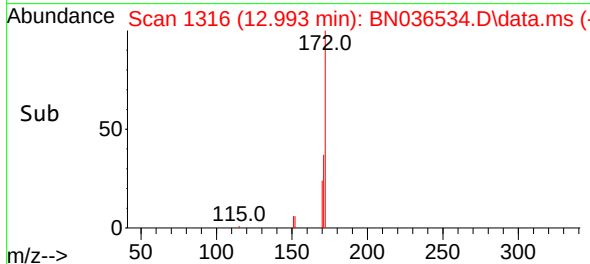
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:172 Resp: 5980
Ion Ratio Lower Upper
172 100
171 37.9 29.6 44.4
170 25.3 19.8 29.6

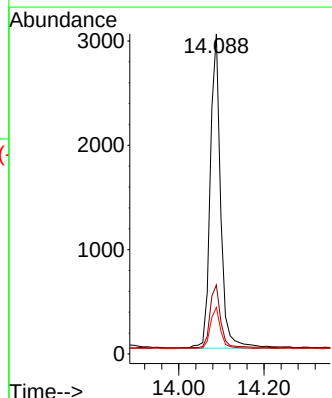
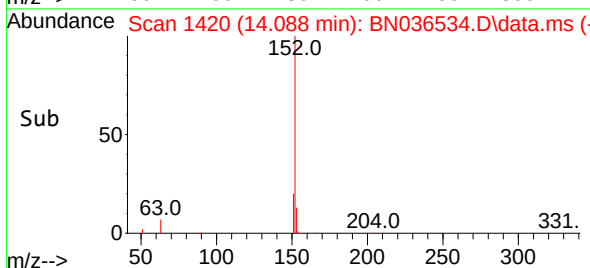
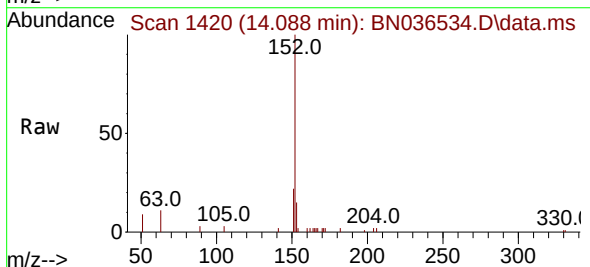
Manual Integrations
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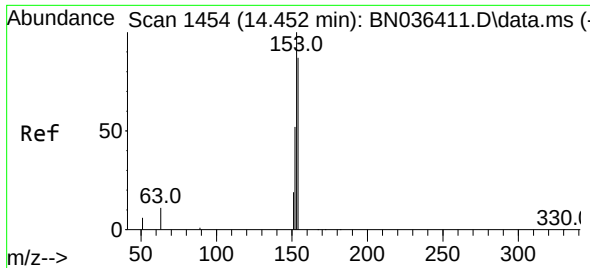
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025



#16
Acenaphthylene
Concen: 0.341 ng
RT: 14.088 min Scan# 1420
Delta R.T. 0.011 min
Lab File: BN036534.D
Acq: 06 Mar 2025 14:05

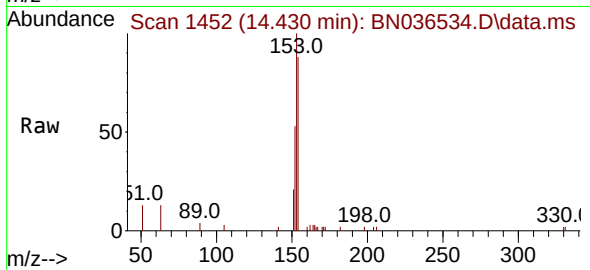
Tgt Ion:152 Resp: 5109
Ion Ratio Lower Upper
152 100
151 20.3 15.8 23.8
153 13.2 10.2 15.2





#17
Acenaphthene
Concen: 0.342 ng
RT: 14.430 min Scan# 1452
Delta R.T. -0.000 min
Lab File: BN036534.D
Acq: 06 Mar 2025 14:05

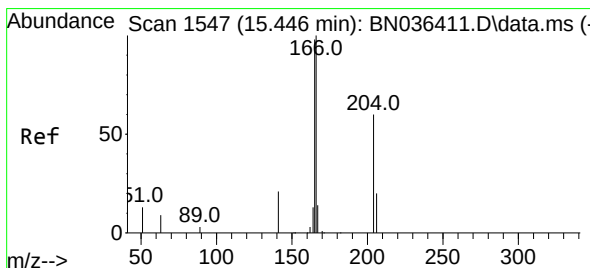
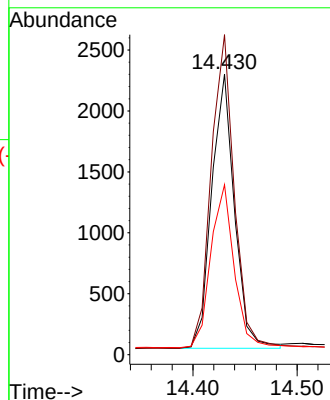
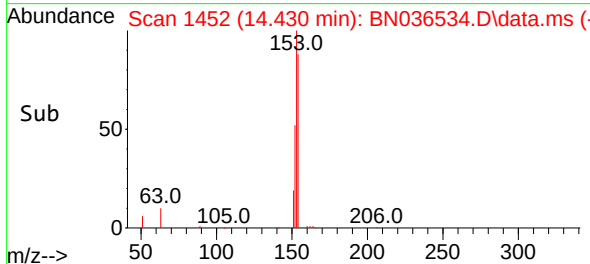
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:154 Resp: 3420
Ion Ratio Lower Upper
154 100
153 117.3 93.3 139.9
152 61.6 48.8 73.2

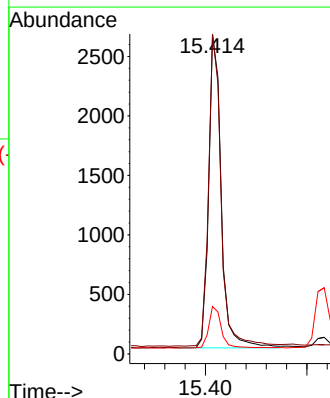
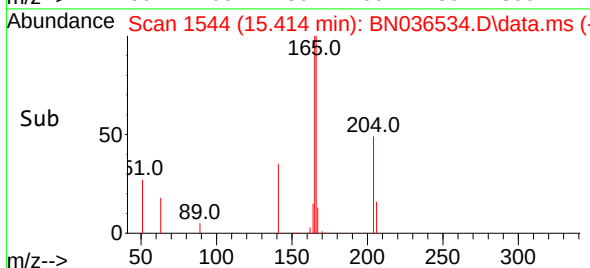
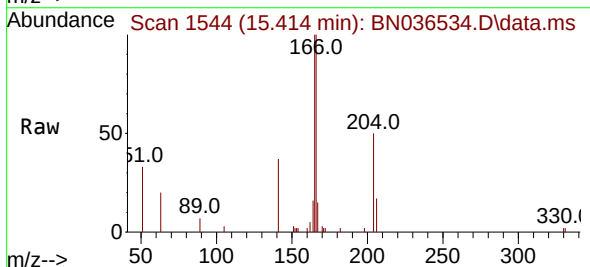
Manual Integrations
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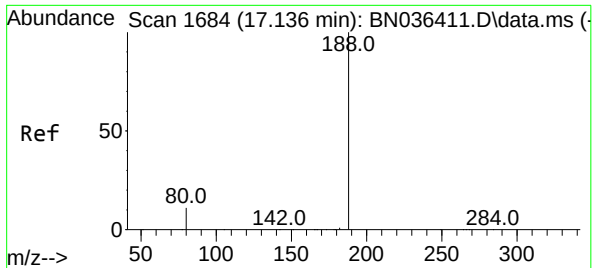
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025



#18
Fluorene
Concen: 0.327 ng
RT: 15.414 min Scan# 1544
Delta R.T. -0.000 min
Lab File: BN036534.D
Acq: 06 Mar 2025 14:05

Tgt Ion:166 Resp: 4649
Ion Ratio Lower Upper
166 100
165 99.0 79.5 119.3
167 13.6 10.4 15.6





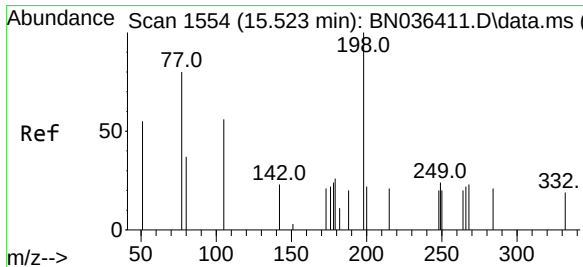
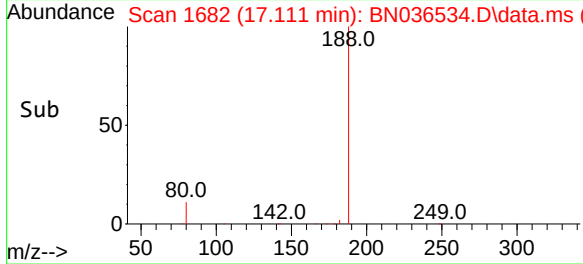
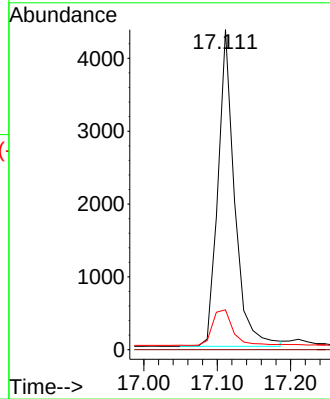
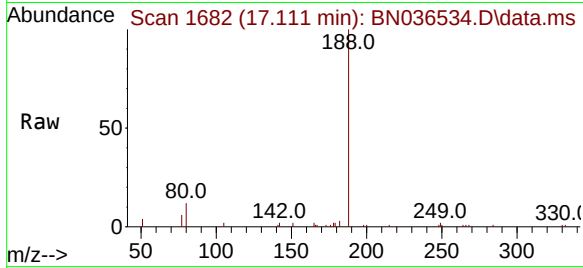
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1682
Delta R.T. -0.000 min
Lab File: BN036534.D
Acq: 06 Mar 2025 14:05

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:188 Resp: 684
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 12.4 9.8 14.6

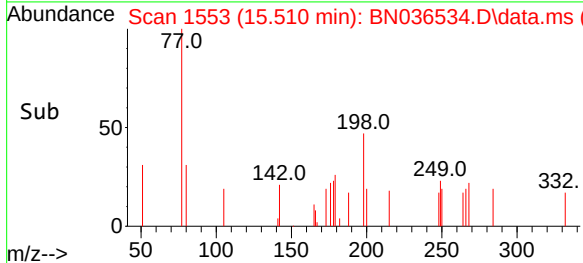
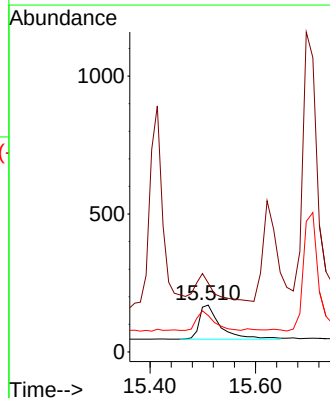
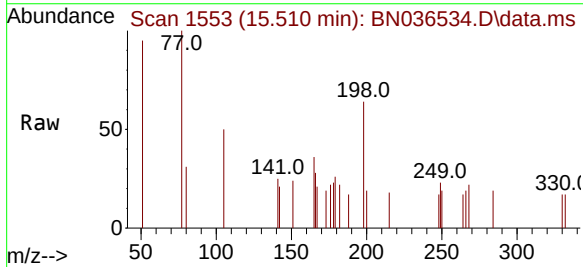
Manual Integrations
APPROVED

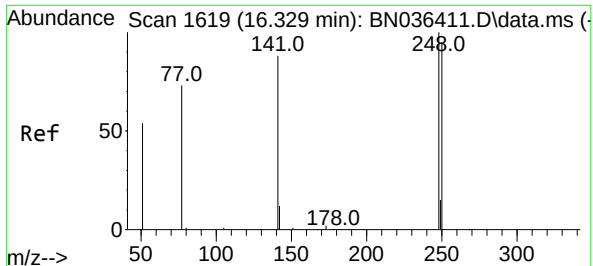
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025



#20
4,6-Dinitro-2-methylphenol
Concen: 0.261 ng
RT: 15.510 min Scan# 1553
Delta R.T. 0.011 min
Lab File: BN036534.D
Acq: 06 Mar 2025 14:05

Tgt Ion:198 Resp: 351
Ion Ratio Lower Upper
198 100
51 147.1 86.6 129.8#
105 77.6 57.5 86.3





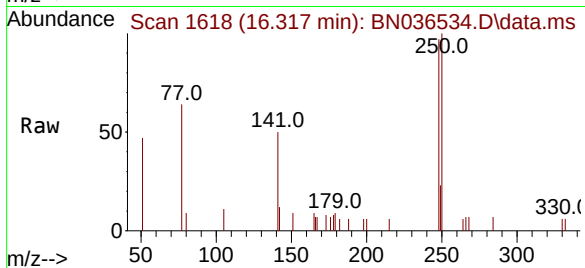
#21
4-Bromophenyl-phenylether
Concen: 0.345 ng
RT: 16.317 min Scan# 1618
Delta R.T. 0.012 min
Lab File: BN036534.D
Acq: 06 Mar 2025 14:05

Instrument :

BNA_N

ClientSampleId :

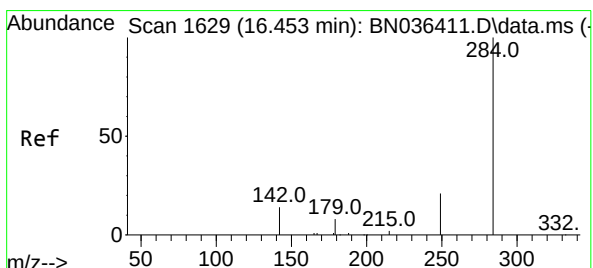
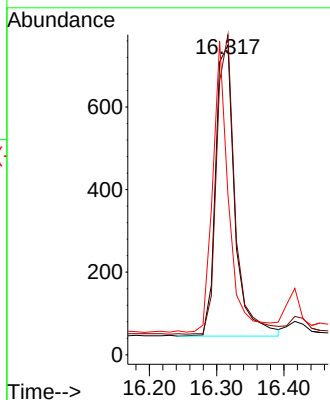
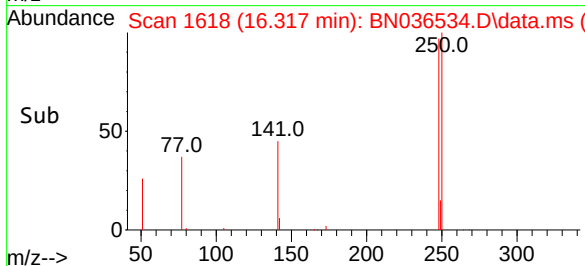
SSTDC0.4



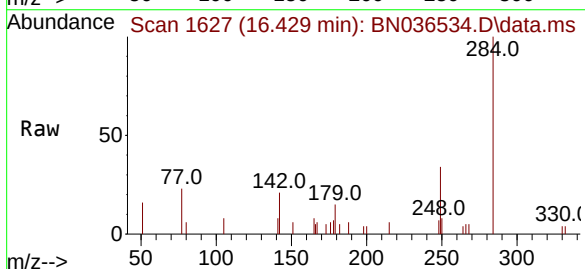
Tgt Ion:248 Resp: 1408
Ion Ratio Lower Upper
248 100
250 103.3 76.1 114.1
141 51.6 71.7 107.5

Manual Integrations
APPROVED

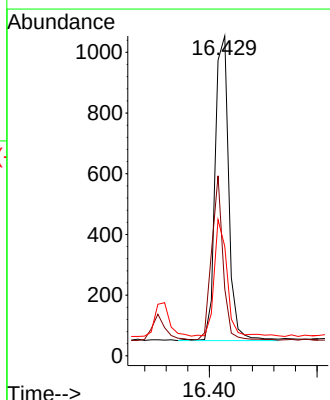
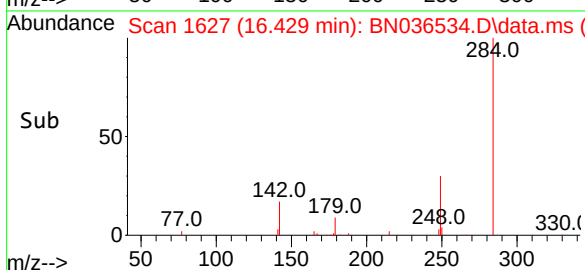
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

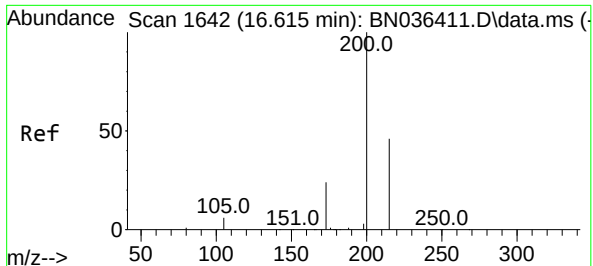


#22
Hexachlorobenzene
Concen: 0.351 ng
RT: 16.429 min Scan# 1627
Delta R.T. 0.012 min
Lab File: BN036534.D
Acq: 06 Mar 2025 14:05



Tgt Ion:284 Resp: 1769
Ion Ratio Lower Upper
284 100
142 45.3 33.4 50.0
249 36.3 28.6 43.0





#23

Atrazine

Concen: 0.342 ng

RT: 16.577 min Scan# 1639

Delta R.T. -0.000 min

Lab File: BN036534.D

Acq: 06 Mar 2025 14:05

Instrument :

BNA_N

ClientSampleId :

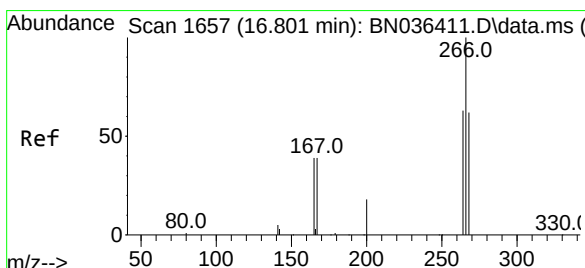
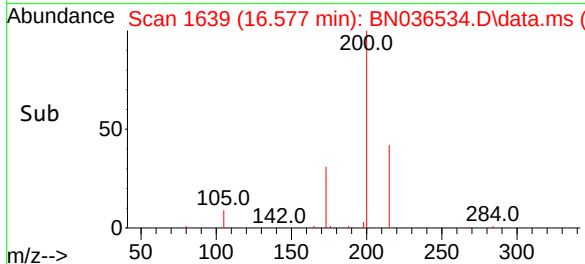
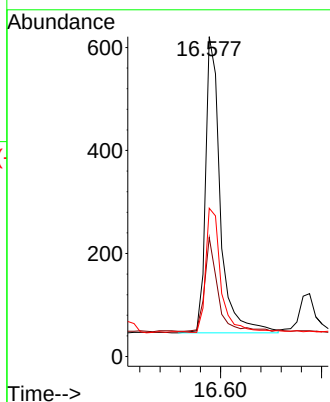
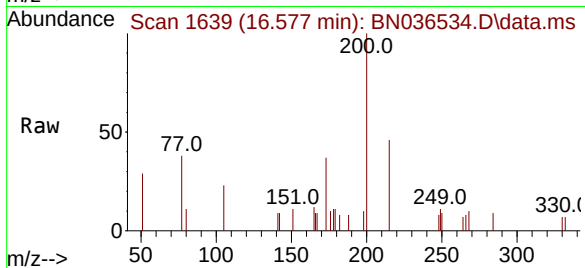
SSTDCCC0.4

Tgt Ion:	200	Resp:	116
Ion Ratio	Lower	Upper	
200	100		
173	37.2	23.2	34.8
215	46.4	40.0	60.0

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025



#24

Pentachlorophenol

Concen: 0.339 ng

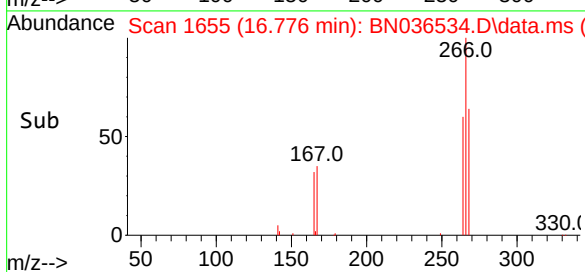
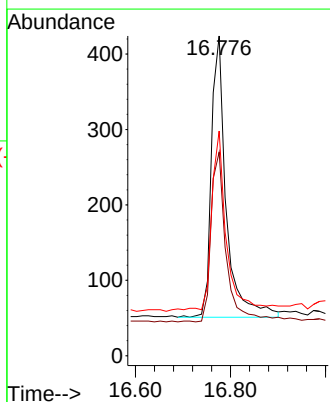
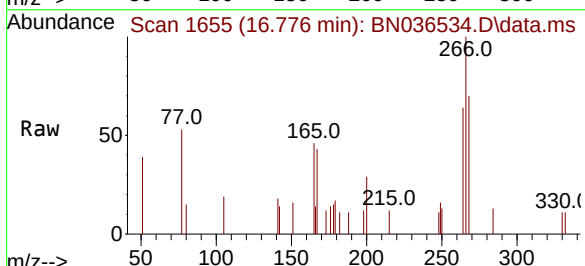
RT: 16.776 min Scan# 1655

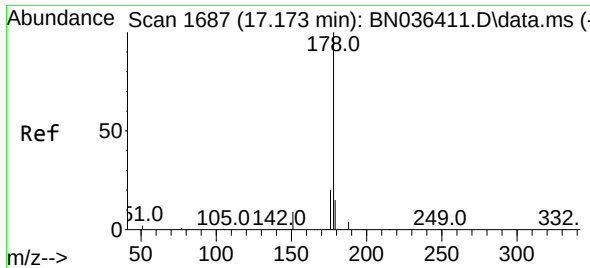
Delta R.T. 0.012 min

Lab File: BN036534.D

Acq: 06 Mar 2025 14:05

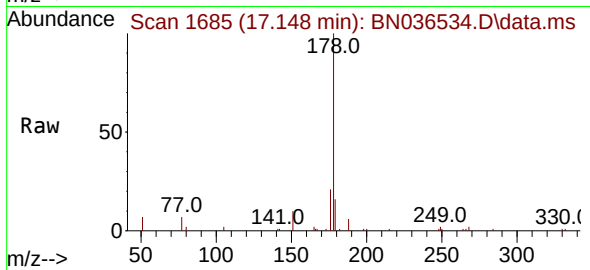
Tgt Ion:	266	Resp:	811
Ion Ratio	Lower	Upper	
266	100		
264	62.0	50.6	76.0
268	65.0	51.9	77.9





#25
Phenanthrene
Concen: 0.355 ng
RT: 17.148 min Scan# 1685
Delta R.T. -0.000 min
Lab File: BN036534.D
Acq: 06 Mar 2025 14:05

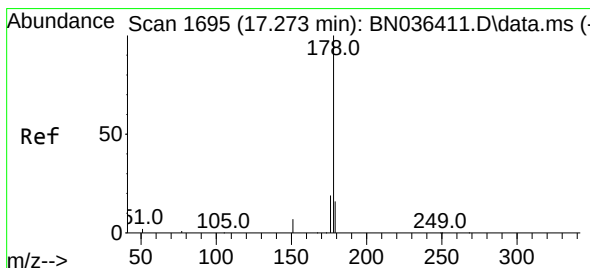
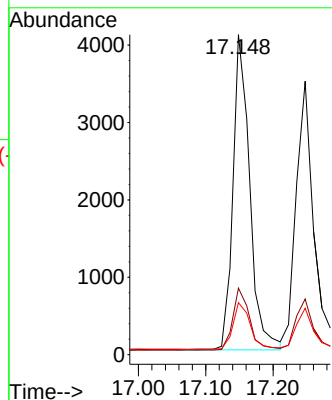
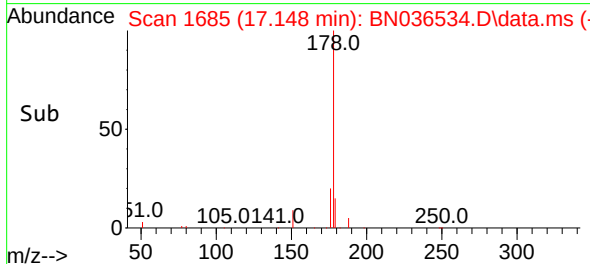
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:178 Resp: 702
Ion Ratio Lower Upper
178 100
176 19.7 15.7 23.5
179 15.5 12.4 18.6

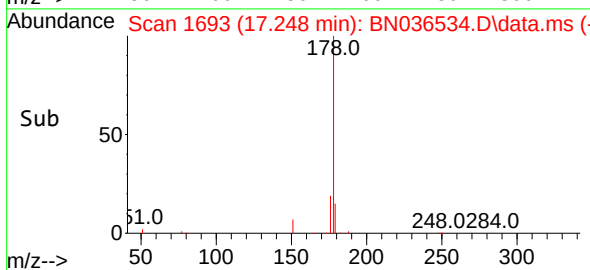
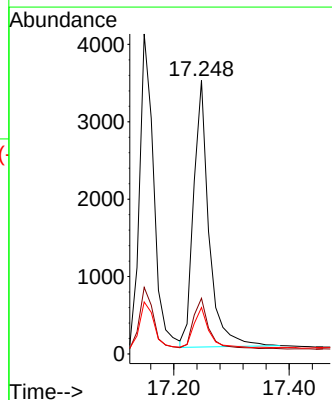
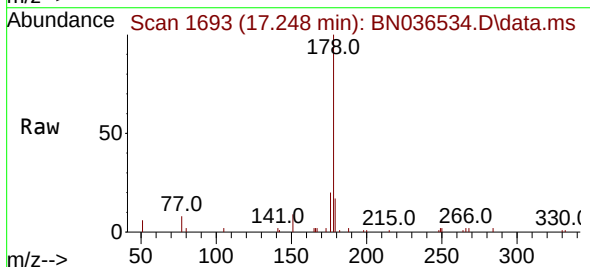
Manual Integrations
APPROVED

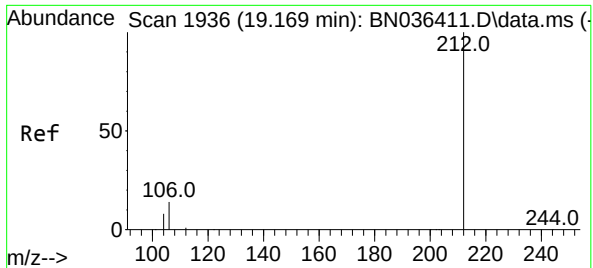
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025



#26
Anthracene
Concen: 0.366 ng
RT: 17.248 min Scan# 1693
Delta R.T. 0.012 min
Lab File: BN036534.D
Acq: 06 Mar 2025 14:05

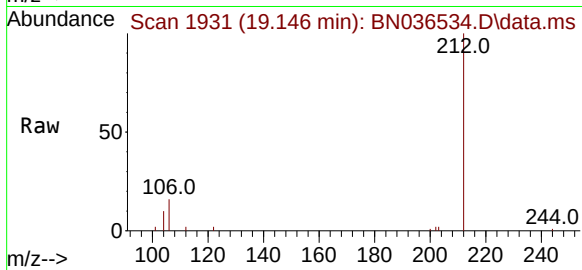
Tgt Ion:178 Resp: 6384
Ion Ratio Lower Upper
178 100
176 19.3 14.9 22.3
179 15.1 12.4 18.6





#27
Fluoranthene-d10
Concen: 0.351 ng
RT: 19.146 min Scan# 1931
Delta R.T. 0.005 min
Lab File: BN036534.D
Acq: 06 Mar 2025 14:05

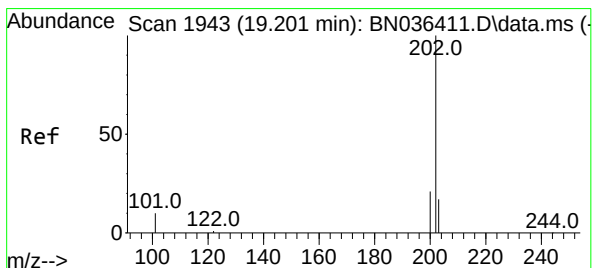
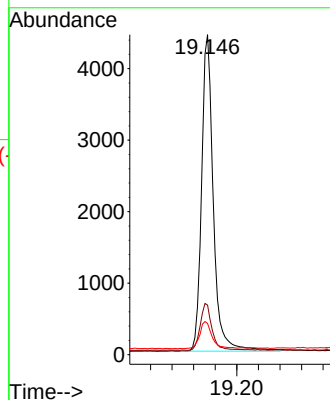
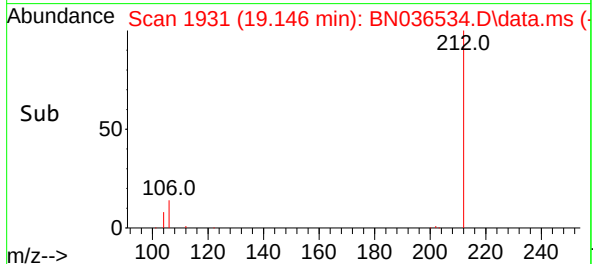
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



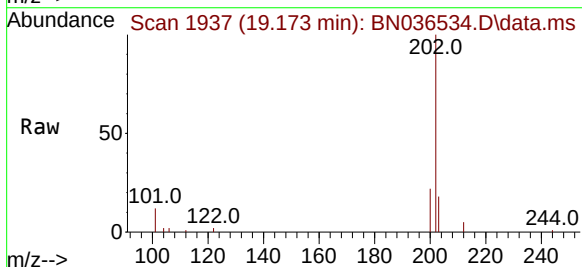
Tgt Ion:212 Resp: 6680
Ion Ratio Lower Upper
212 100
106 14.9 11.5 17.3
104 9.0 7.1 10.7

Manual Integrations
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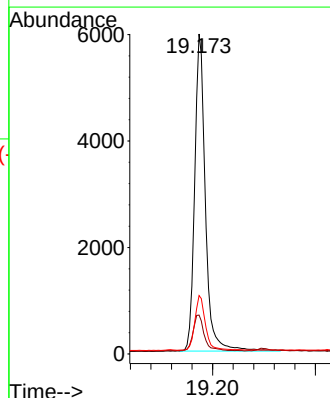
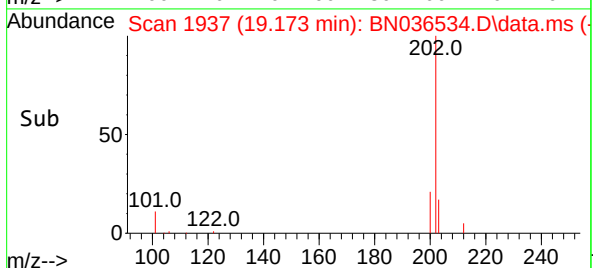
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

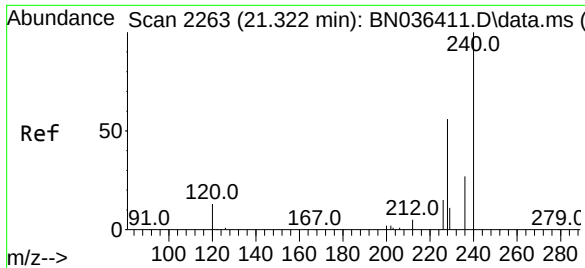


#28
Fluoranthene
Concen: 0.356 ng
RT: 19.173 min Scan# 1937
Delta R.T. -0.000 min
Lab File: BN036534.D
Acq: 06 Mar 2025 14:05



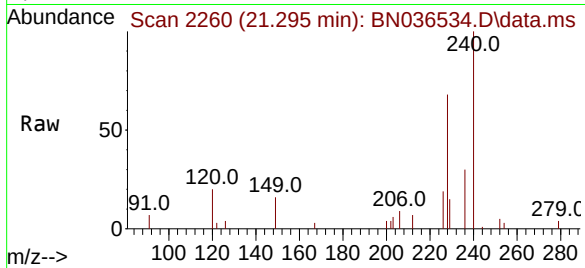
Tgt Ion:202 Resp: 8662
Ion Ratio Lower Upper
202 100
101 11.9 9.2 13.8
203 16.8 13.4 20.0





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN036534.D
Acq: 06 Mar 2025 14:05

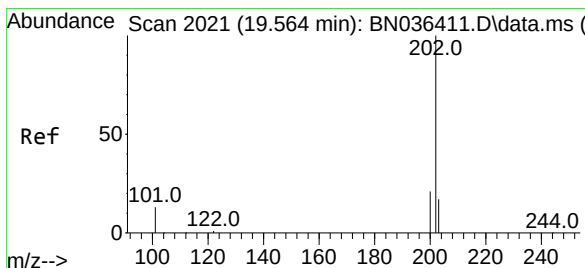
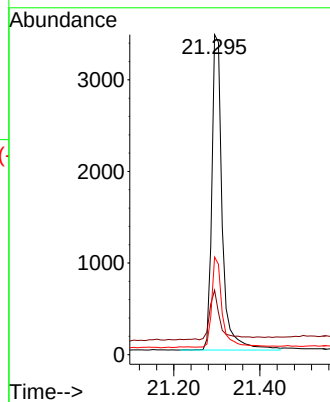
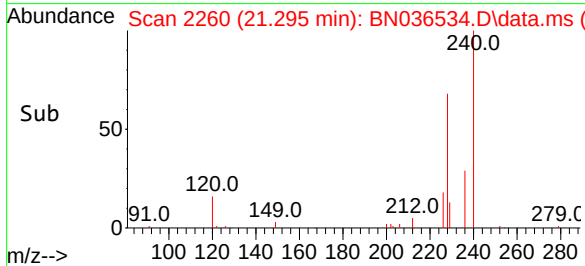
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:240 Resp: 5800
Ion Ratio Lower Upper
240 100
120 20.1 13.3 19.9
236 30.5 23.0 34.6

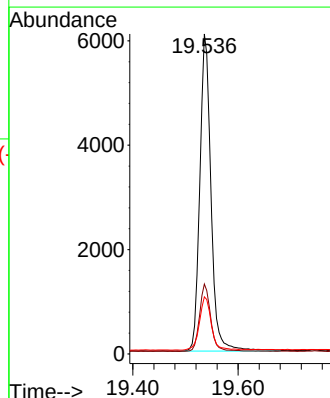
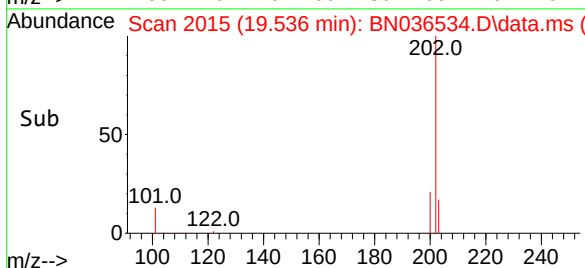
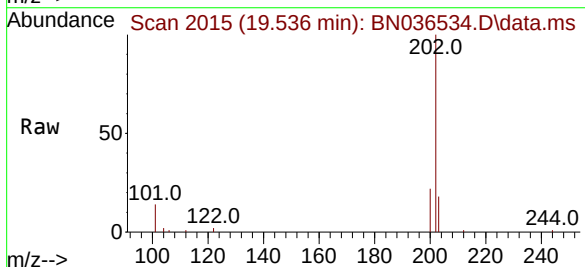
Manual Integrations
APPROVED

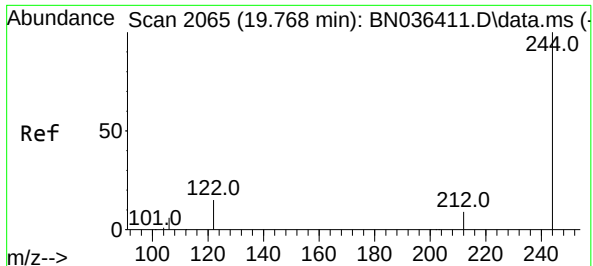
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025



#30
Pyrene
Concen: 0.401 ng
RT: 19.536 min Scan# 2015
Delta R.T. -0.000 min
Lab File: BN036534.D
Acq: 06 Mar 2025 14:05

Tgt Ion:202 Resp: 8963
Ion Ratio Lower Upper
202 100
200 21.1 16.9 25.3
203 17.6 13.9 20.9





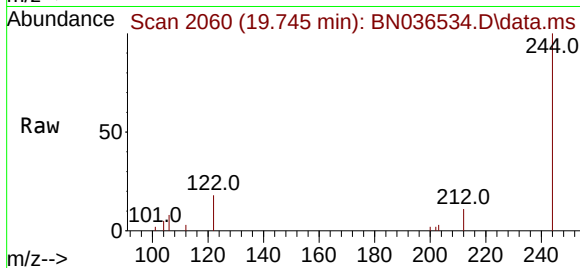
#31
Terphenyl-d14
Concen: 0.365 ng
RT: 19.745 min Scan# 2065
Delta R.T. -0.000 min
Lab File: BN036534.D
Acq: 06 Mar 2025 14:05

Instrument :

BNA_N

ClientSampleId :

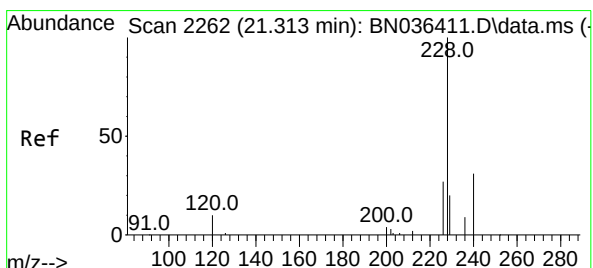
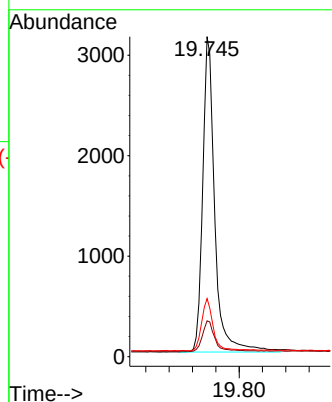
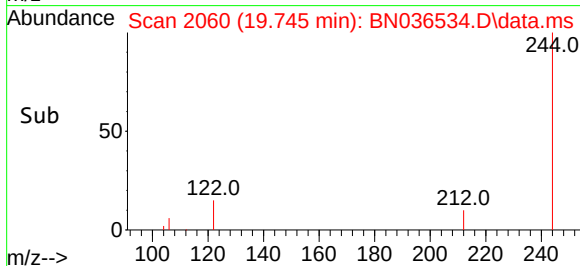
SSTDCCC0.4



Tgt Ion:244 Resp: 452
Ion Ratio Lower Upper
244 100
212 11.2 8.1 12.1
122 18.1 12.8 19.2

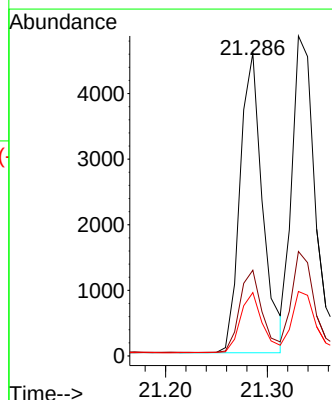
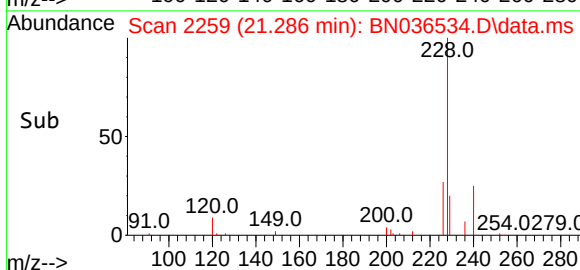
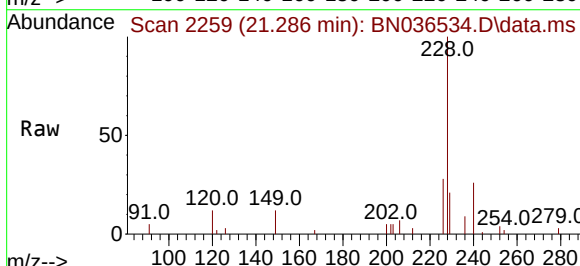
Manual Integrations
APPROVED

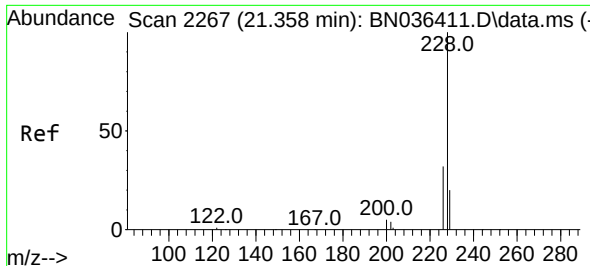
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025



#32
Benzo(a)anthracene
Concen: 0.369 ng
RT: 21.286 min Scan# 2259
Delta R.T. 0.009 min
Lab File: BN036534.D
Acq: 06 Mar 2025 14:05

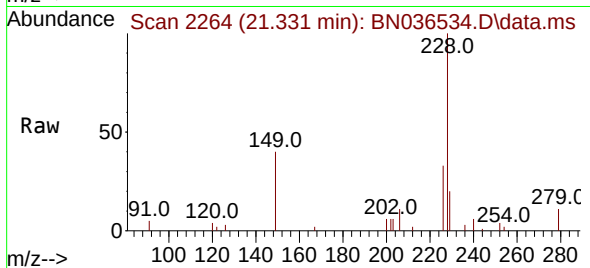
Tgt Ion:228 Resp: 7051
Ion Ratio Lower Upper
228 100
226 28.3 22.2 33.2
229 20.9 16.5 24.7





#33
Chrysene
Concen: 0.391 ng
RT: 21.331 min Scan# 21331
Delta R.T. -0.000 min
Lab File: BN036534.D
Acq: 06 Mar 2025 14:05

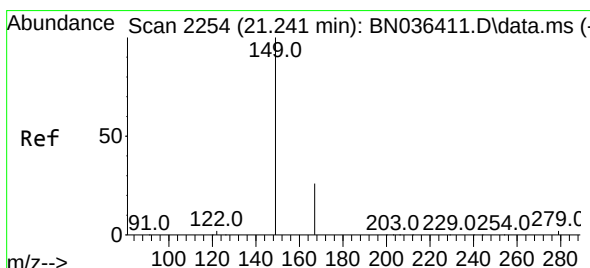
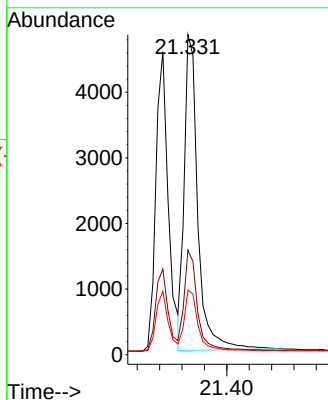
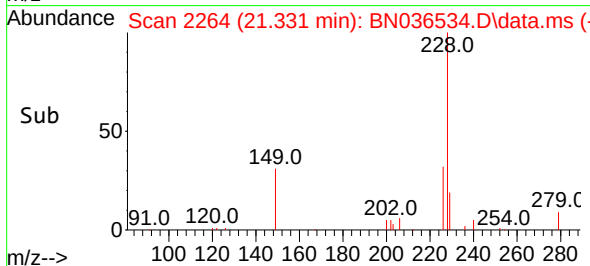
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:228 Resp: 809
Ion Ratio Lower Upper
228 100
226 32.7 25.5 38.3
229 20.2 16.4 24.6

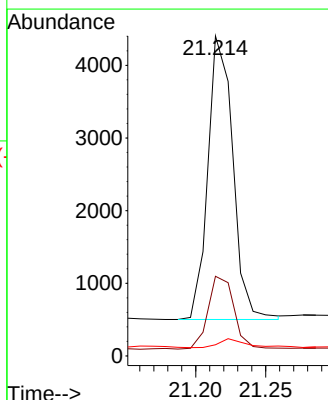
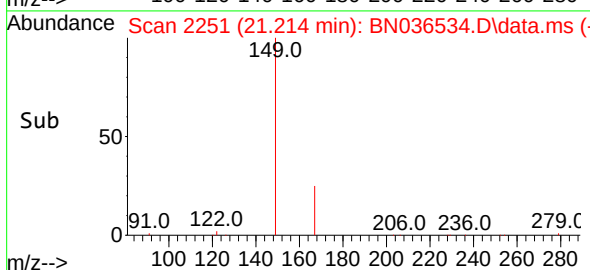
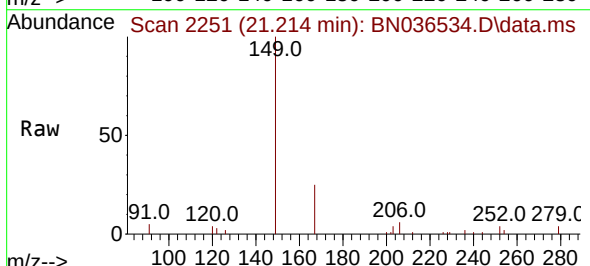
Manual Integrations
APPROVED

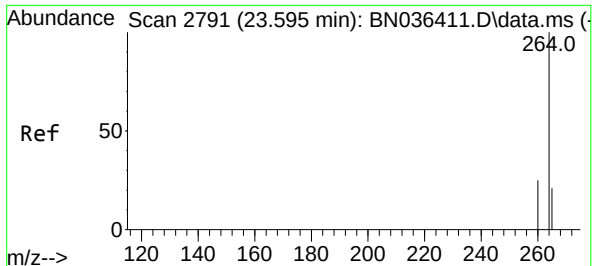
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.407 ng
RT: 21.214 min Scan# 2251
Delta R.T. -0.000 min
Lab File: BN036534.D
Acq: 06 Mar 2025 14:05

Tgt Ion:149 Resp: 4839
Ion Ratio Lower Upper
149 100
167 27.4 21.2 31.8
279 3.6 2.7 4.1





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.557 min Scan# 21

Delta R.T. 0.006 min

Lab File: BN036534.D

Acq: 06 Mar 2025 14:05

Instrument :

BNA_N

ClientSampleId :

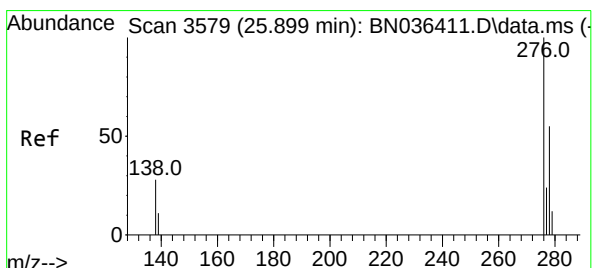
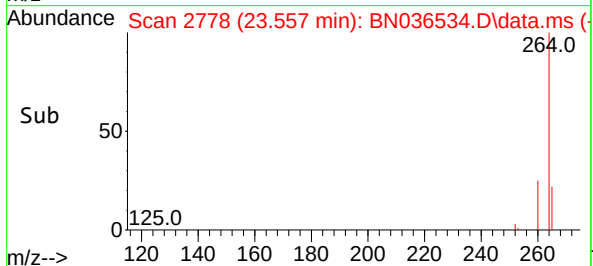
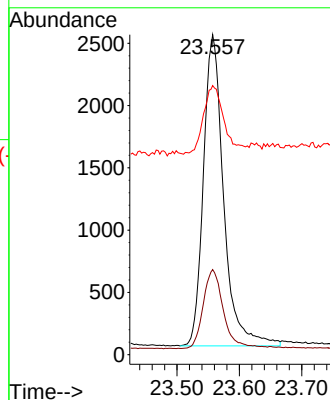
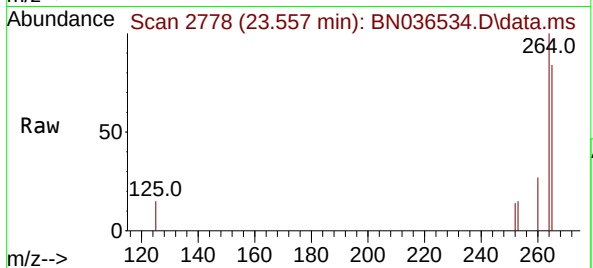
SSTDCCC0.4

Tgt Ion:	264	Resp:	563
Ion Ratio	Lower	Upper	
264	100		
260	26.6	20.9	31.3
265	84.1	60.7	91.1

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.379 ng

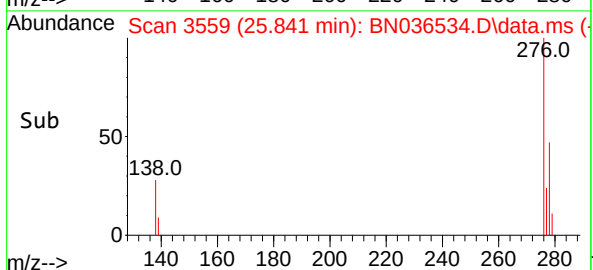
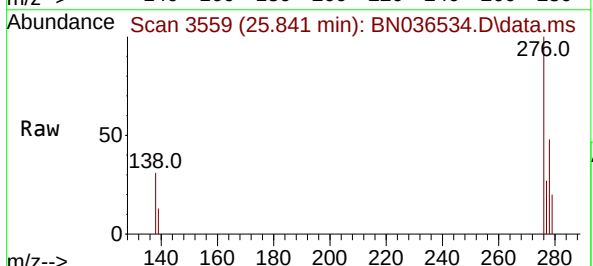
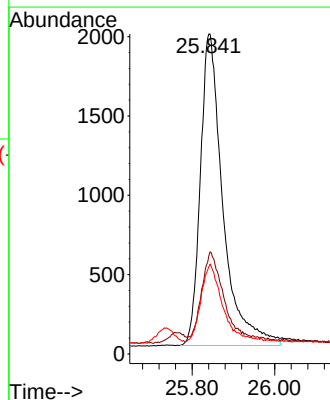
RT: 25.841 min Scan# 3559

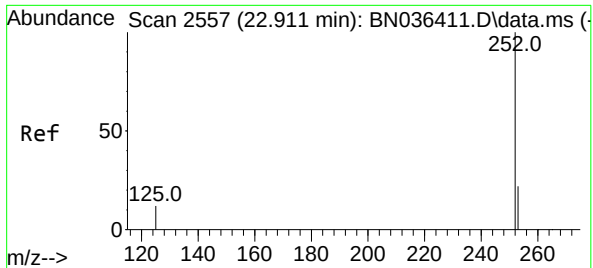
Delta R.T. 0.003 min

Lab File: BN036534.D

Acq: 06 Mar 2025 14:05

Tgt Ion:	276	Resp:	7469
Ion Ratio	Lower	Upper	
276	100		
138	25.9	22.2	33.2
277	24.0	19.8	29.6





#37

Benzo(b)fluoranthene

Concen: 0.407 ng m

RT: 22.876 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN036534.D

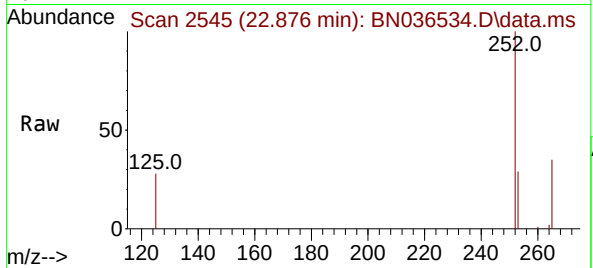
Acq: 06 Mar 2025 14:05

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



Tgt Ion:252 Resp: 756

Ion Ratio Lower Upper

252 100

253 28.7 21.9 32.9

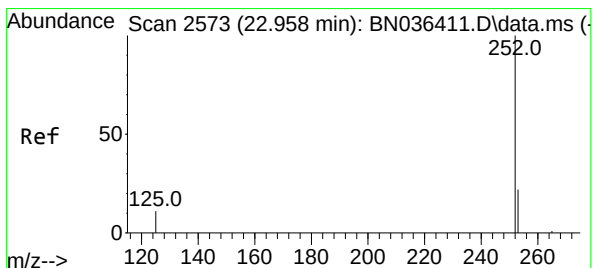
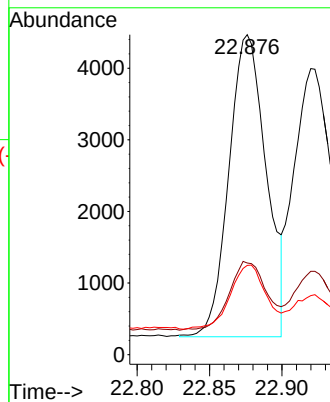
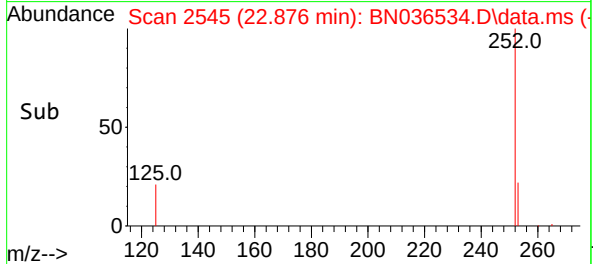
125 27.9 15.0 22.6

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/07/2025

Supervised By :Jagrut Upadhyay 03/07/2025



#38

Benzo(k)fluoranthene

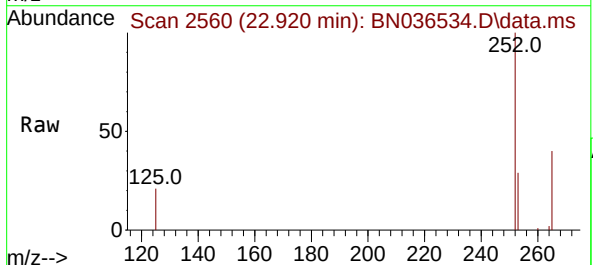
Concen: 0.392 ng

RT: 22.920 min Scan# 2560

Delta R.T. 0.003 min

Lab File: BN036534.D

Acq: 06 Mar 2025 14:05



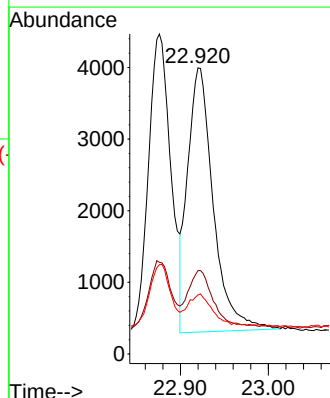
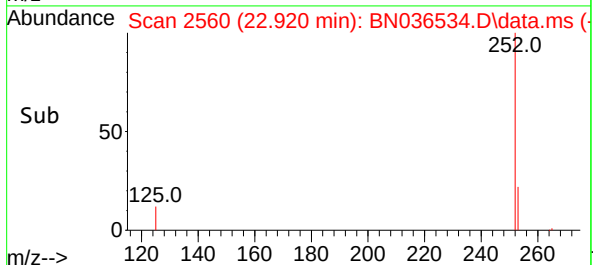
Tgt Ion:252 Resp: 7496

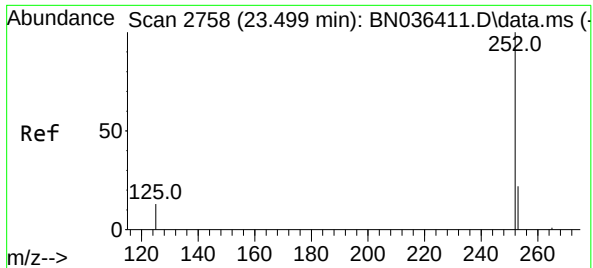
Ion Ratio Lower Upper

252 100

253 29.1 22.2 33.4

125 20.7 15.0 22.4





#39

Benzo(a)pyrene

Concen: 0.396 ng

RT: 23.458 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN036534.D

Acq: 06 Mar 2025 14:05

Instrument :

BNA_N

ClientSampleId :

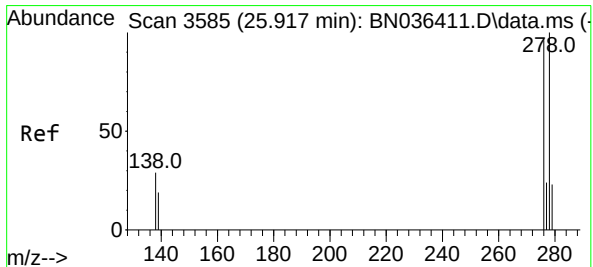
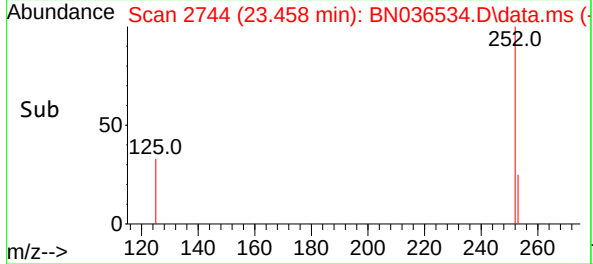
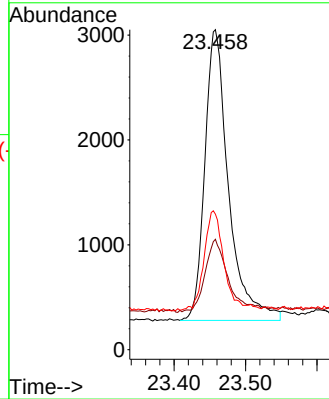
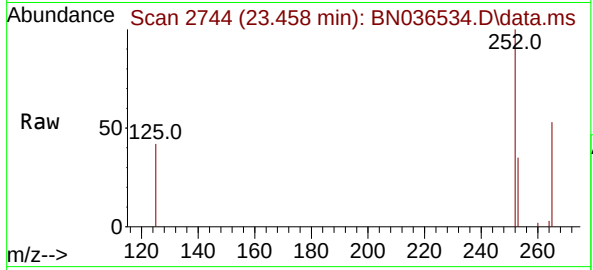
SSTDCCC0.4

Tgt Ion:	252	Resp:	641
Ion Ratio	Lower	Upper	
252	100		
253	34.5	24.4	36.6
125	42.4	18.2	27.2

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025



#40

Dibenzo(a,h)anthracene

Concen: 0.371 ng

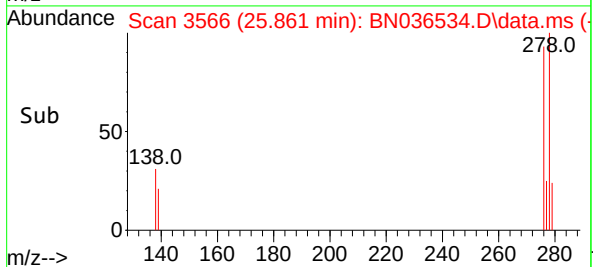
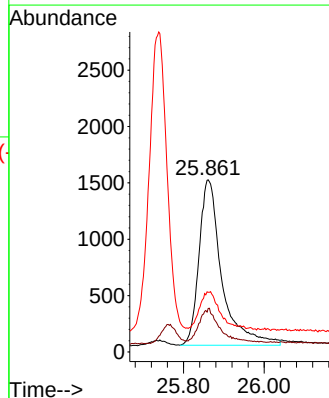
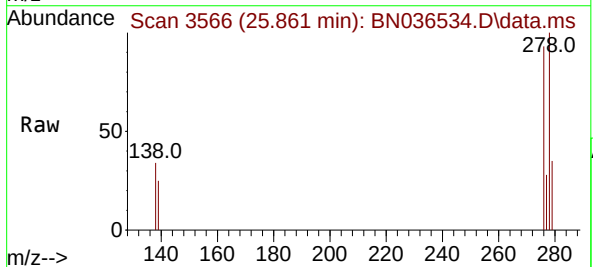
RT: 25.861 min Scan# 3566

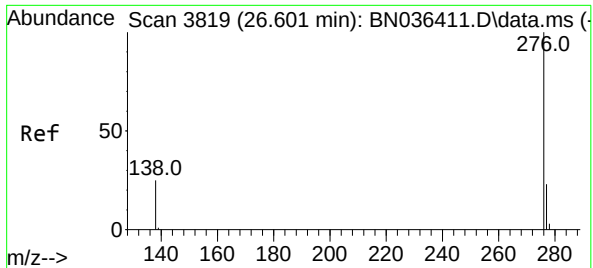
Delta R.T. 0.009 min

Lab File: BN036534.D

Acq: 06 Mar 2025 14:05

Tgt Ion:	278	Resp:	5768
Ion Ratio	Lower	Upper	
278	100		
139	25.3	18.5	27.7
279	34.7	24.8	37.2





#41

Benzo(g,h,i)perylene

Concen: 0.374 ng

RT: 26.536 min Scan# 31

Delta R.T. 0.009 min

Lab File: BN036534.D

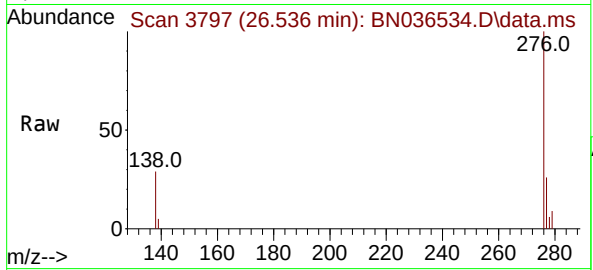
Acq: 06 Mar 2025 14:05

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



Tgt Ion:276 Resp: 658

Ion Ratio Lower Upper

276 100

277 26.2 20.7 31.1

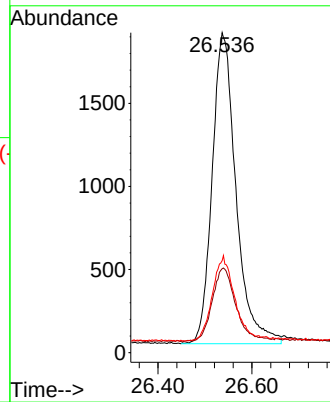
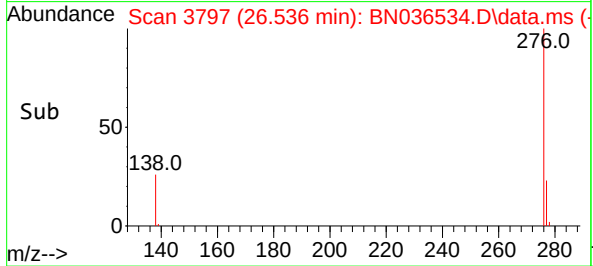
138 28.7 21.8 32.6

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/07/2025

Supervised By :Jagrut Upadhyay 03/07/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN030625\
 Data File : BN036534.D
 Acq On : 06 Mar 2025 14:05
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Mar 06 15:34:31 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 05 16:08:57 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	96	0.00
2	1,4-Dioxane	0.438	0.407	7.1	91	0.00
3	n-Nitrosodimethylamine	0.760	0.781	-2.8	99	0.00
4 S	2-Fluorophenol	0.945	0.817	13.5	84	0.00
5 S	Phenol-d6	1.109	0.971	12.4	91	0.00
6	bis(2-Chloroethyl)ether	1.160	1.060	8.6	94	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	95	0.01
8 S	Nitrobenzene-d5	0.395	0.357	9.6	93	0.00
9	Naphthalene	1.154	1.014	12.1	86	0.00
10	Hexachlorobutadiene	0.281	0.248	11.7	83	0.01
11 SURR	2-Methylnaphthalene-d10	0.615	0.519	15.6	82	0.00
12	2-Methylnaphthalene	0.757	0.616	18.6	79	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	94	0.00
14 S	2,4,6-Tribromophenol	0.198	0.142	28.3#	72	0.00
15 S	2-Fluorobiphenyl	1.504	1.765	-17.4	120	0.00
16	Acenaphthylene	1.767	1.508	14.7	84	0.01
17	Acenaphthene	1.180	1.009	14.5	83	0.00
18	Fluorene	1.680	1.372	18.3	78	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	82	0.00
20	4,6-Dinitro-2-methylphenol	0.078	0.051	34.6#	61	0.01
21	4-Bromophenyl-phenylether	0.239	0.206	13.8	73	0.01
22	Hexachlorobenzene	0.295	0.259	12.2	75	0.01
23	Atrazine	0.199	0.171	14.1	75	0.00
24	Pentachlorophenol	0.140	0.119	15.0	80	0.01
25	Phenanthrene	1.156	1.027	11.2	77	0.00
26	Anthracene	1.020	0.933	8.5	79	0.01
27 SURR	Fluoranthene-d10	1.112	0.976	12.2	75	0.00
28	Fluoranthene	1.421	1.266	10.9	77	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	78	0.00
30	Pyrene	1.541	1.544	-0.2	78	0.00
31 S	Terphenyl-d14	0.854	0.780	8.7	71	0.00
32	Benzo(a)anthracene	1.316	1.214	7.8	73	0.00
33	Chrysene	1.425	1.394	2.2	80	0.00
34	Bis(2-ethylhexyl)phthalate	0.820	0.833	-1.6	83	0.00
35 I	Perylene-d12	1.000	1.000	0.0	73	0.00
36	Indeno(1,2,3-cd)pyrene	1.398	1.325	5.2	70	0.00
37	Benzo(b)fluoranthene	1.317	1.341	-1.8	78	0.00
38	Benzo(k)fluoranthene	1.356	1.330	1.9	71	0.00
39 C	Benzo(a)pyrene	1.150	1.138	1.0	75	0.00
40	Dibenzo(a,h)anthracene	1.103	1.023	7.3	69	0.00
41	Benzo(g,h,i)perylene	1.250	1.169	6.5	68	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN030625\
 Data File : BN036534.D
 Acq On : 06 Mar 2025 14:05
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Mar 06 15:34:31 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 05 16:08:57 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	96	0.00
2	1,4-Dioxane	0.400	0.372	7.0	91	0.00
3	n-Nitrosodimethylamine	0.400	0.411	-2.7	99	0.00
4 S	2-Fluorophenol	0.400	0.346	13.5	84	0.00
5 S	Phenol-d6	0.400	0.350	12.5	91	0.00
6	bis(2-Chloroethyl)ether	0.400	0.366	8.5	94	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	95	0.01
8 S	Nitrobenzene-d5	0.400	0.361	9.8	93	0.00
9	Naphthalene	0.400	0.351	12.3	86	0.00
10	Hexachlorobutadiene	0.400	0.353	11.8	83	0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.338	15.5	82	0.00
12	2-Methylnaphthalene	0.400	0.325	18.8	79	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	94	0.00
14 S	2,4,6-Tribromophenol	0.400	0.287	28.3#	72	0.00
15 S	2-Fluorobiphenyl	0.400	0.469	-17.2	120	0.00
16	Acenaphthylene	0.400	0.341	14.8	84	0.01
17	Acenaphthene	0.400	0.342	14.5	83	0.00
18	Fluorene	0.400	0.327	18.3	78	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	82	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.261	34.8#	61	0.01
21	4-Bromophenyl-phenylether	0.400	0.345	13.8	73	0.01
22	Hexachlorobenzene	0.400	0.351	12.3	75	0.01
23	Atrazine	0.400	0.342	14.5	75	0.00
24	Pentachlorophenol	0.400	0.339	15.3	80	0.01
25	Phenanthrene	0.400	0.355	11.3	77	0.00
26	Anthracene	0.400	0.366	8.5	79	0.01
27 SURR	Fluoranthene-d10	0.400	0.351	12.3	75	0.00
28	Fluoranthene	0.400	0.356	11.0	77	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	78	0.00
30	Pyrene	0.400	0.401	-0.3	78	0.00
31 S	Terphenyl-d14	0.400	0.365	8.8	71	0.00
32	Benzo(a)anthracene	0.400	0.369	7.8	73	0.00
33	Chrysene	0.400	0.391	2.3	80	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.407	-1.7	83	0.00
35 I	Perylene-d12	0.400	0.400	0.0	73	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.379	5.3	70	0.00
37	Benzo(b)fluoranthene	0.400	0.407	-1.7	78	0.00
38	Benzo(k)fluoranthene	0.400	0.392	2.0	71	0.00
39 C	Benzo(a)pyrene	0.400	0.396	1.0	75	0.00
40	Dibenzo(a,h)anthracene	0.400	0.371	7.3	69	0.00
41	Benzo(g,h,i)perylene	0.400	0.374	6.5	68	0.00

(#) = Out of Range

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



QC SAMPLE DATA

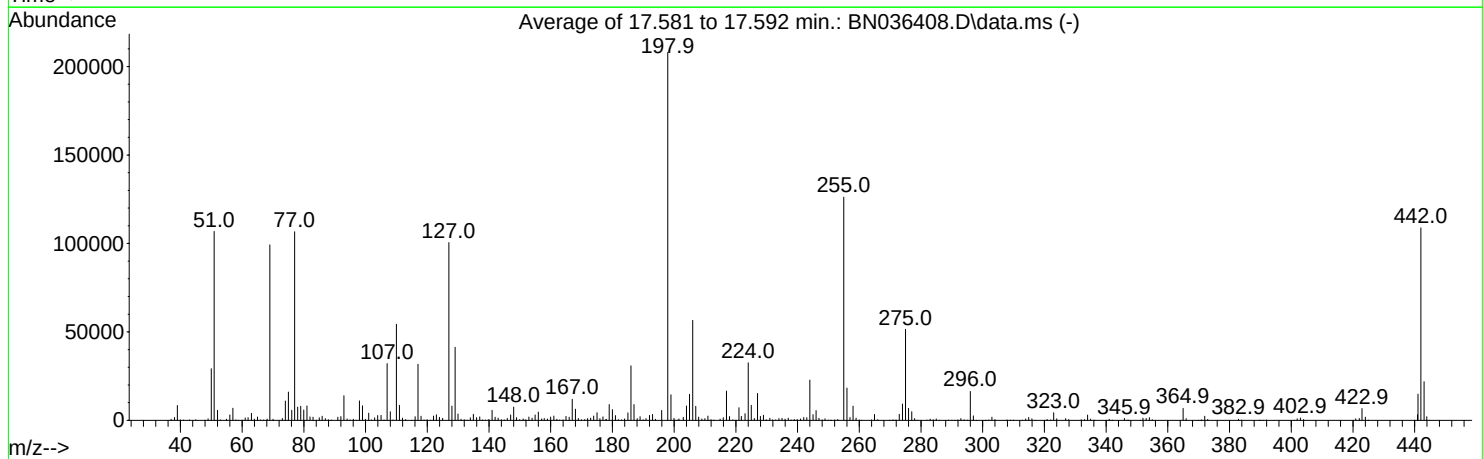
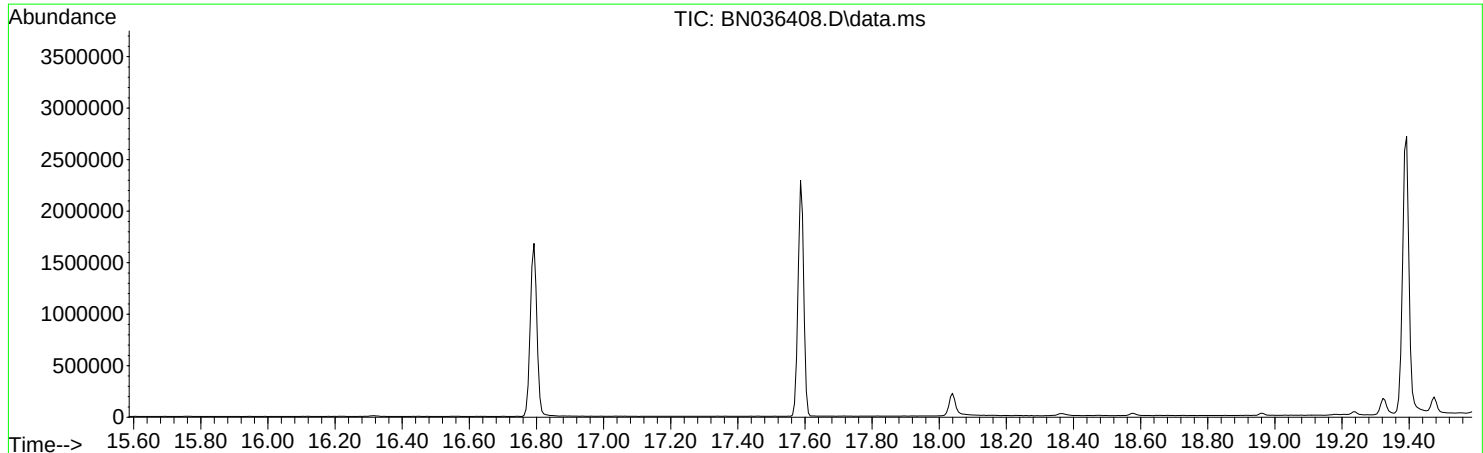
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
Data File : BN036408.D
Acq On : 10 Feb 2025 11:46
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-BN021025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Feb 11 01:17:14 2025



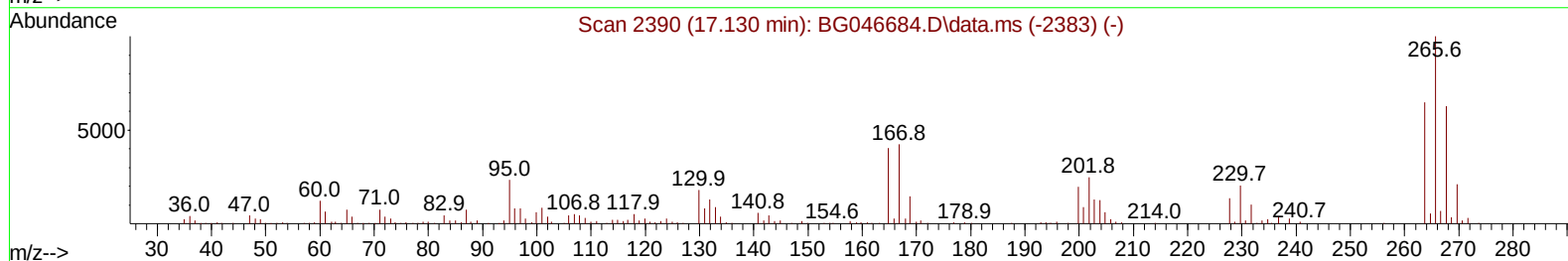
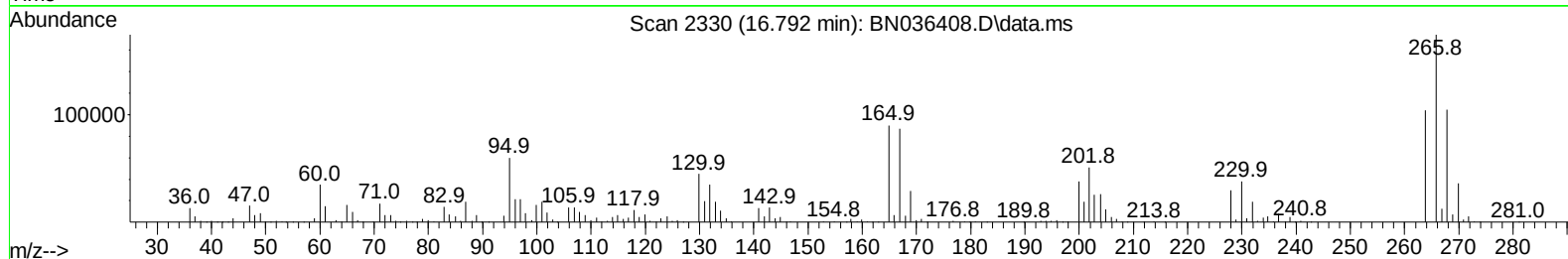
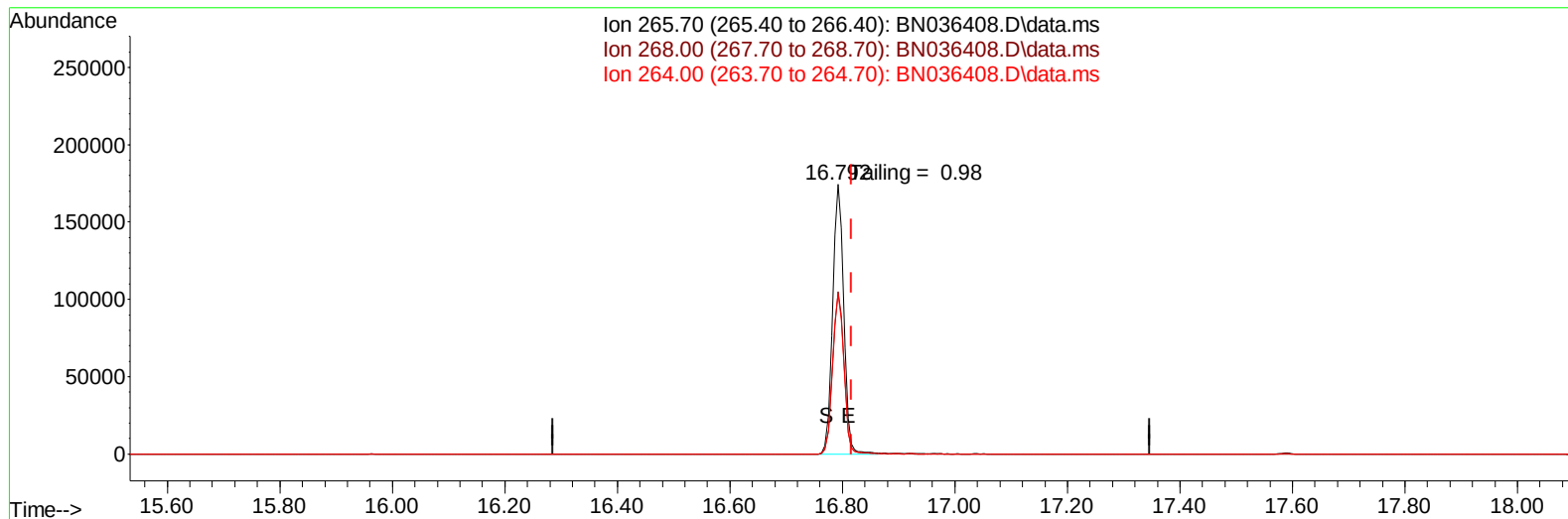
AutoFind: Scans 2464, 2465, 2466; Background Corrected with Scan 2458

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	51.4	106809	PASS
68	69	0.00	2	0.7	724	PASS
69	198	0.00	100	47.7	99211	PASS
70	69	0.00	2	0.6	601	PASS
127	198	10	80	48.3	100501	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	207936	PASS
199	198	5	9	7.0	14493	PASS
275	198	10	60	24.7	51437	PASS
365	198	1	100	3.3	6829	PASS
441	198	0.01	100	7.1	14816	PASS
442	442	50	100	100.0	108824	PASS
443	442	15	24	20.1	21911	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
Data File : BN036408.D
Acq On : 10 Feb 2025 11:46
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Feb 11 01:55:02 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: BN036408.D\data.ms

(70) Pentachlorophenol (C)

16.792min (-0.024) 22697.76 ng

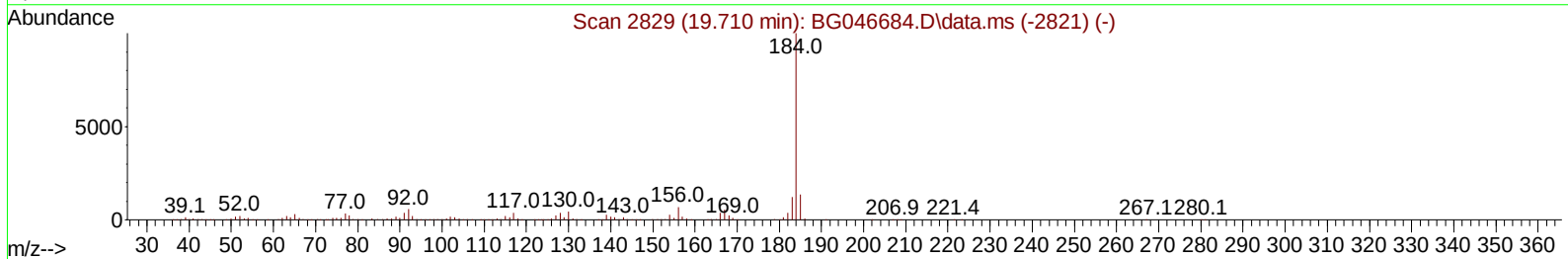
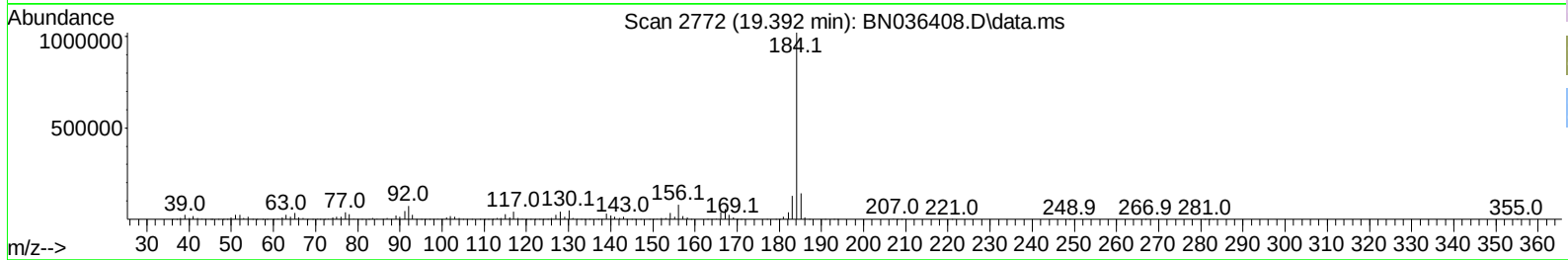
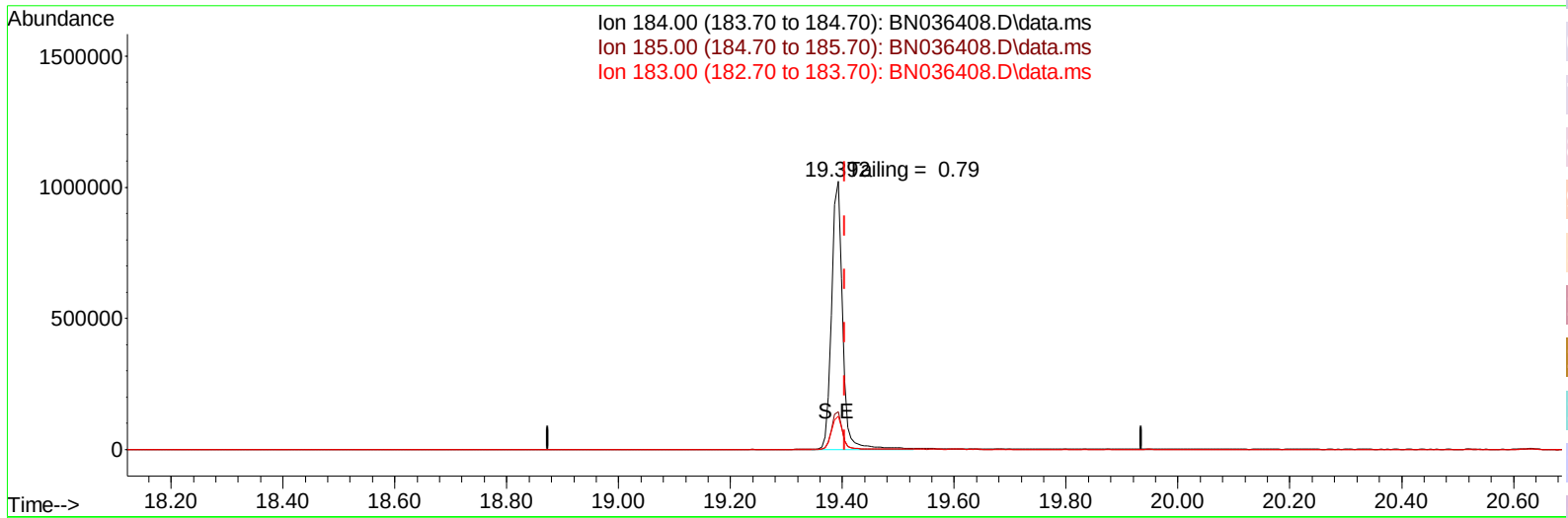
response 239758

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	60.20
264.00	61.60	59.58
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
Data File : BN036408.D
Acq On : 10 Feb 2025 11:46
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Feb 11 01:55:02 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: BN036408.D\data.ms

(77) Benzidine

19.392min (-0.012) 0.00 ng

response 1390167

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.06
183.00	13.20	12.43
0.00	0.00	0.00

DDT Breakdown

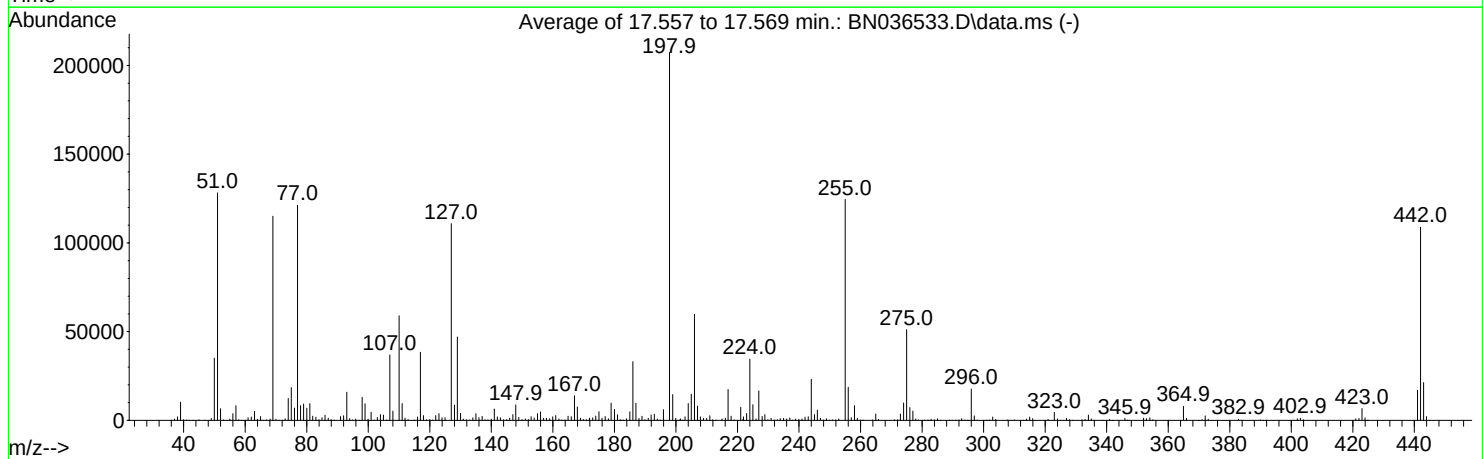
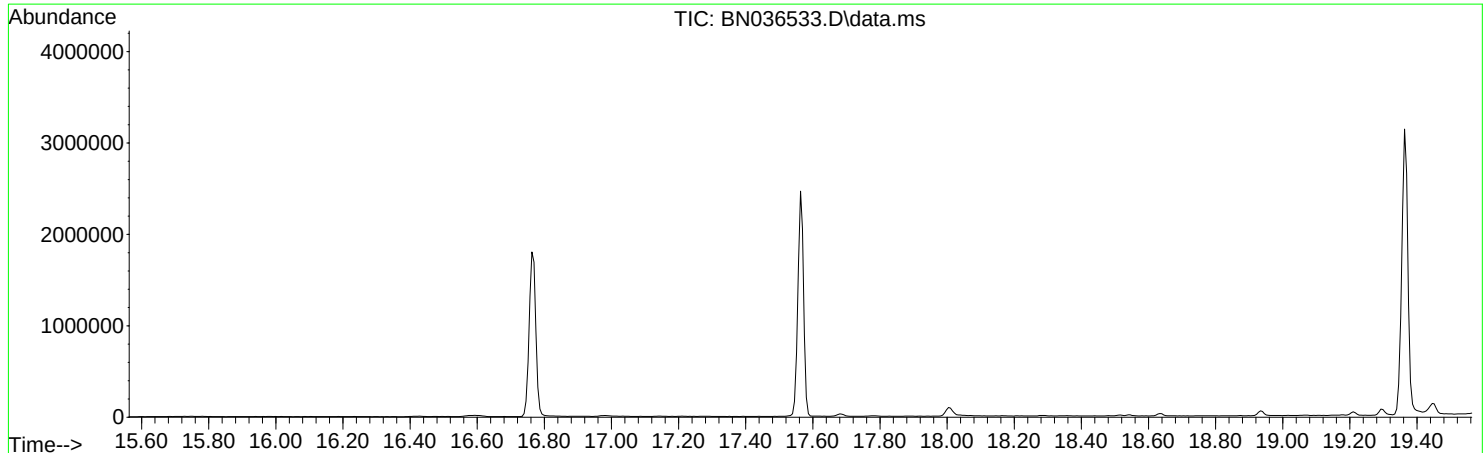
Date	Instrument Name	DFTPP Data File
2/10/2025	BNA_N	<u>BN036408.D</u>
Compound Name	Response	Retention Time
DDT	740190	20.628
DDD	8470	20.239
DDE	0	19.728
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
8470	748660	1.13

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN030625\
Data File : BN036533.D
Acq On : 06 Mar 2025 12:50
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-BN021025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Mar 05 16:08:57 2025



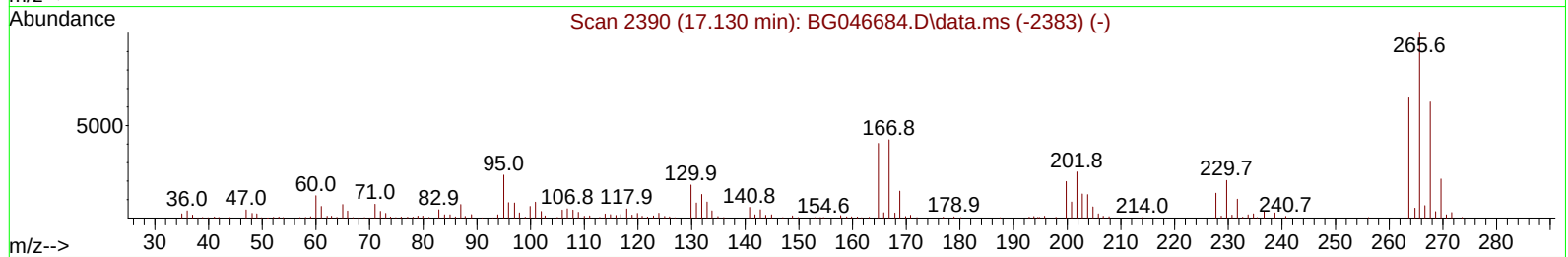
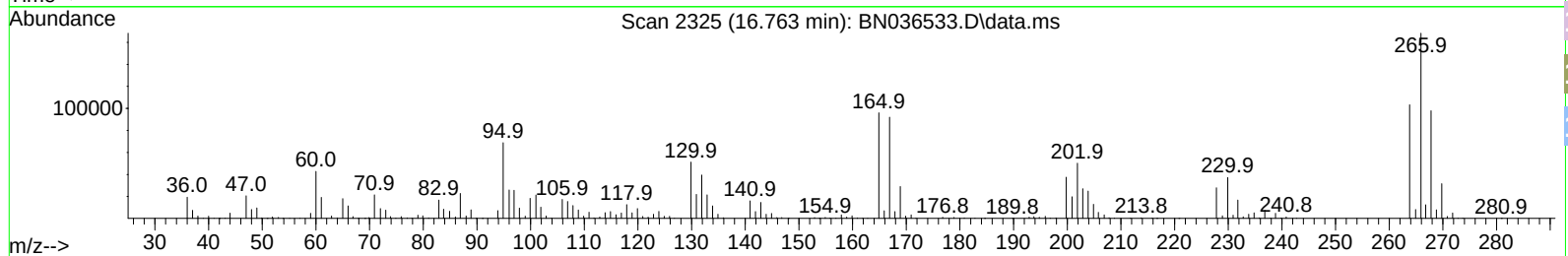
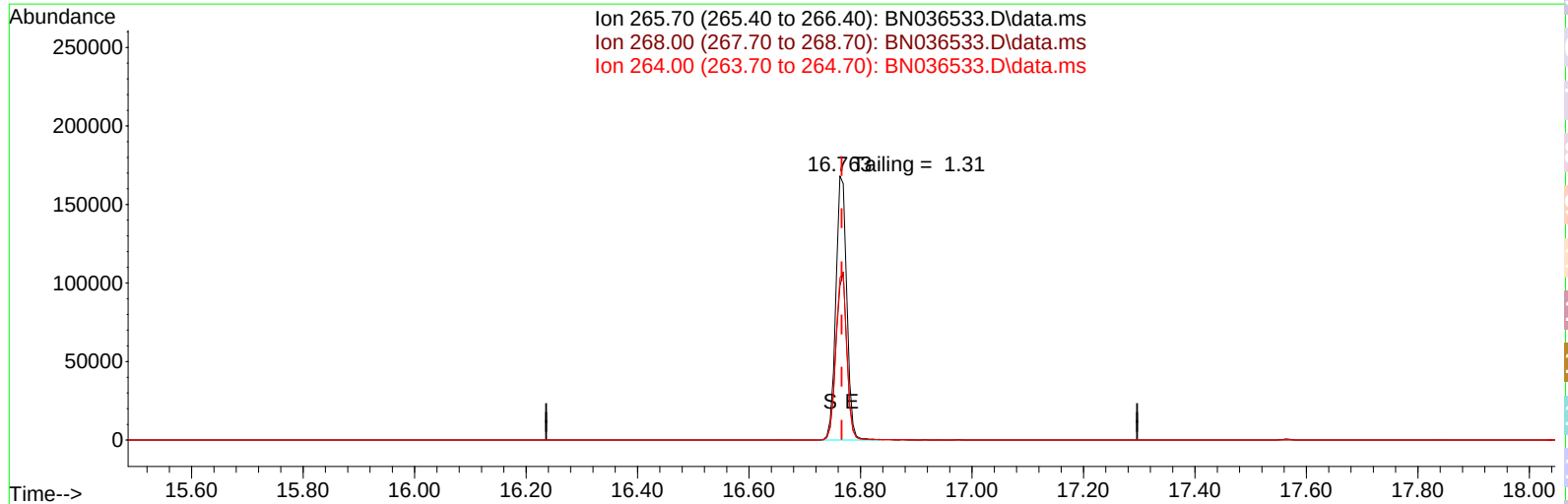
AutoFind: Scans 2460, 2461, 2462; Background Corrected with Scan 2453

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	61.8	128173	PASS
68	69	0.00	2	0.6	732	PASS
69	198	0.00	100	55.5	115029	PASS
70	69	0.00	2	0.5	622	PASS
127	198	10	80	53.5	110859	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	207275	PASS
199	198	5	9	7.0	14559	PASS
275	198	10	60	24.7	51104	PASS
365	198	1	100	3.8	7940	PASS
441	198	0.01	100	8.2	16994	PASS
442	442	50	100	100.0	108805	PASS
443	442	15	24	19.5	21267	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN030625\
Data File : BN036533.D
Acq On : 06 Mar 2025 12:50
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Mar 06 17:29:03 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: BN036533.D\data.ms

(70) Pentachlorophenol (C)

16.763min (-0.003) 20834.00 ng

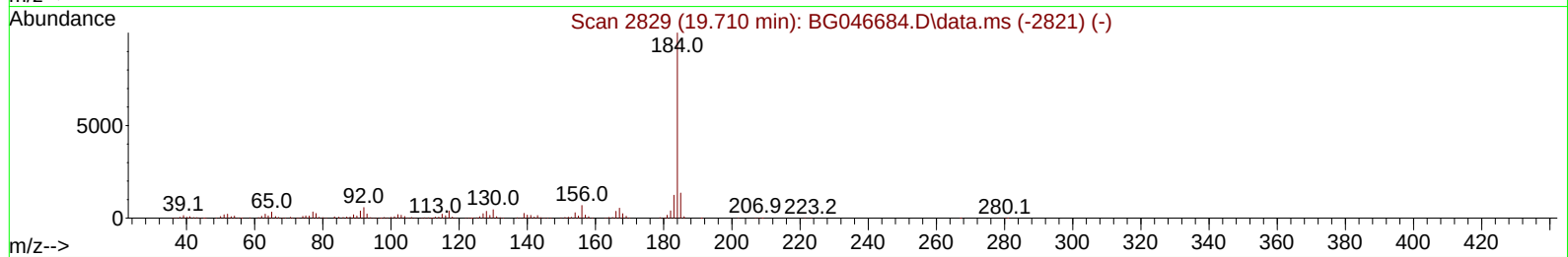
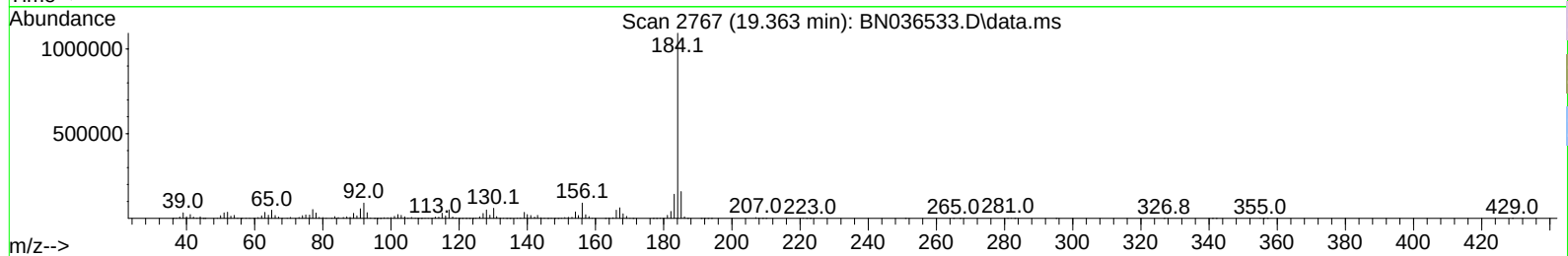
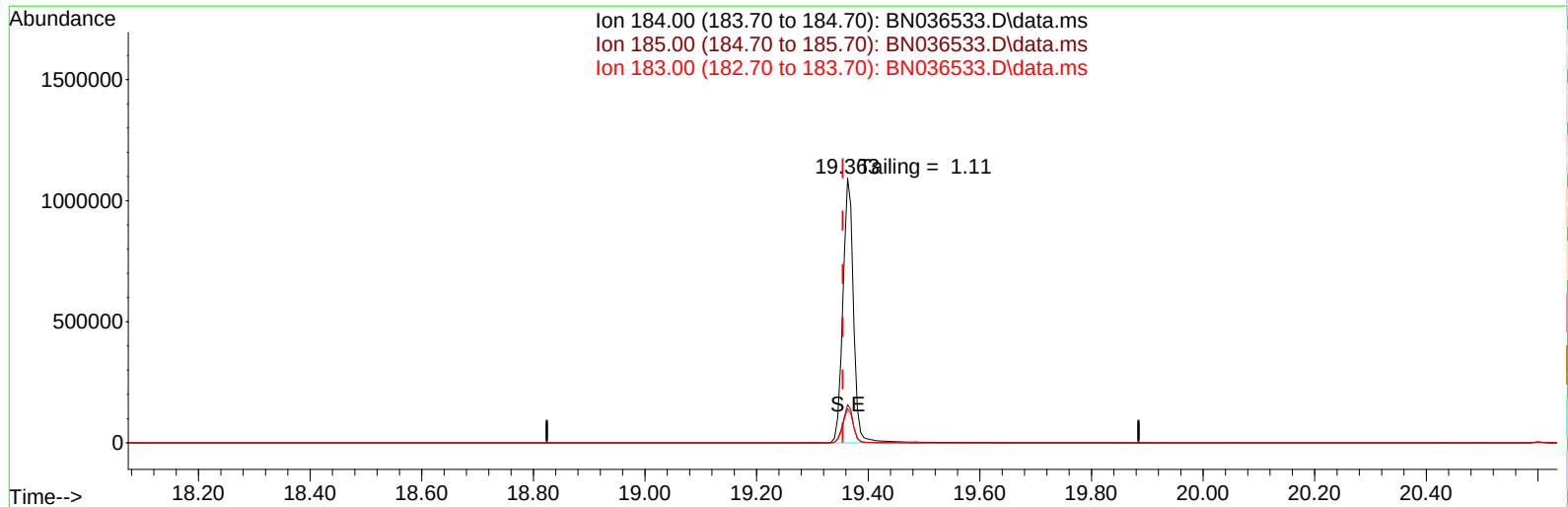
response 229554

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	58.20
264.00	61.60	61.40
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN030625\
Data File : BN036533.D
Acq On : 06 Mar 2025 12:50
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Mar 06 17:29:03 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: BN036533.D\data.ms

(77) Benzidine

19.363min (+ 0.009) 0.00 ng

response 1456970

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.50
183.00	13.20	13.03
0.00	0.00	0.00

DDT Breakdown

Date	Instrument Name	DFTPP Data File
3/6/2025	BNA_N	<u>BN036533.D</u>
Compound Name	Response	Retention Time
DDT	797297	20.604
DDD	10816	20.216
DDE	504	19.651
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
11320	808617	1.40

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger STC PTC Site # D3868221	Date Received:	
Client Sample ID:	PB167006BL	SDG No.:	Q1501
Lab Sample ID:	PB167006BL	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
BN036535.D	1	03/06/25 08:26	03/06/25 14:48	PB167006

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	0.37		30 (20) - 150 (139)	93%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.45		30 (30) - 150 (150)	111%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.41		30 (27) - 130 (154)	102%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.38		30 (25) - 130 (149)	94%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.45		30 (54) - 130 (175)	112%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	1970	7.732			
1146-65-2	Naphthalene-d8	4030	10.53			
15067-26-2	Acenaphthene-d10	2410	14.377			
1517-22-2	Phenanthrene-d10	4680	17.124			
1719-03-5	Chrysene-d12	4160	21.304			
1520-96-3	Perylene-d12	3740	23.569			

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\BN030625\
Data File : BN036535.D
Acq On : 06 Mar 2025 14:48
Operator : RC/JU
Sample : PB167006BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB167006BL

Quant Time: Mar 06 15:34:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 16:08:57 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.732	152	1970	0.400	ng	0.00
7) Naphthalene-d8	10.530	136	4027	0.400	ng	0.02
13) Acenaphthene-d10	14.377	164	2414	0.400	ng	0.01
19) Phenanthrene-d10	17.124	188	4679	0.400	ng	# 0.01
29) Chrysene-d12	21.304	240	4156	0.400	ng	# 0.00
35) Perylene-d12	23.569	264	3735	0.400	ng	# 0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.319	112	1966	0.422	ng	0.00
5) Phenol-d6	6.908	99	1962	0.359	ng	0.00
8) Nitrobenzene-d5	8.886	82	1628	0.410	ng	0.01
11) 2-Methylnaphthalene-d10	12.131	152	2309	0.373	ng	0.03
14) 2,4,6-Tribromophenol	15.882	330	337	0.282	ng	0.02
15) 2-Fluorobiphenyl	13.008	172	3433	0.378	ng	0.02
27) Fluoranthene-d10	19.150	212	5795	0.445	ng	0.00
31) Terphenyl-d14	19.754	244	3979	0.449	ng	0.00

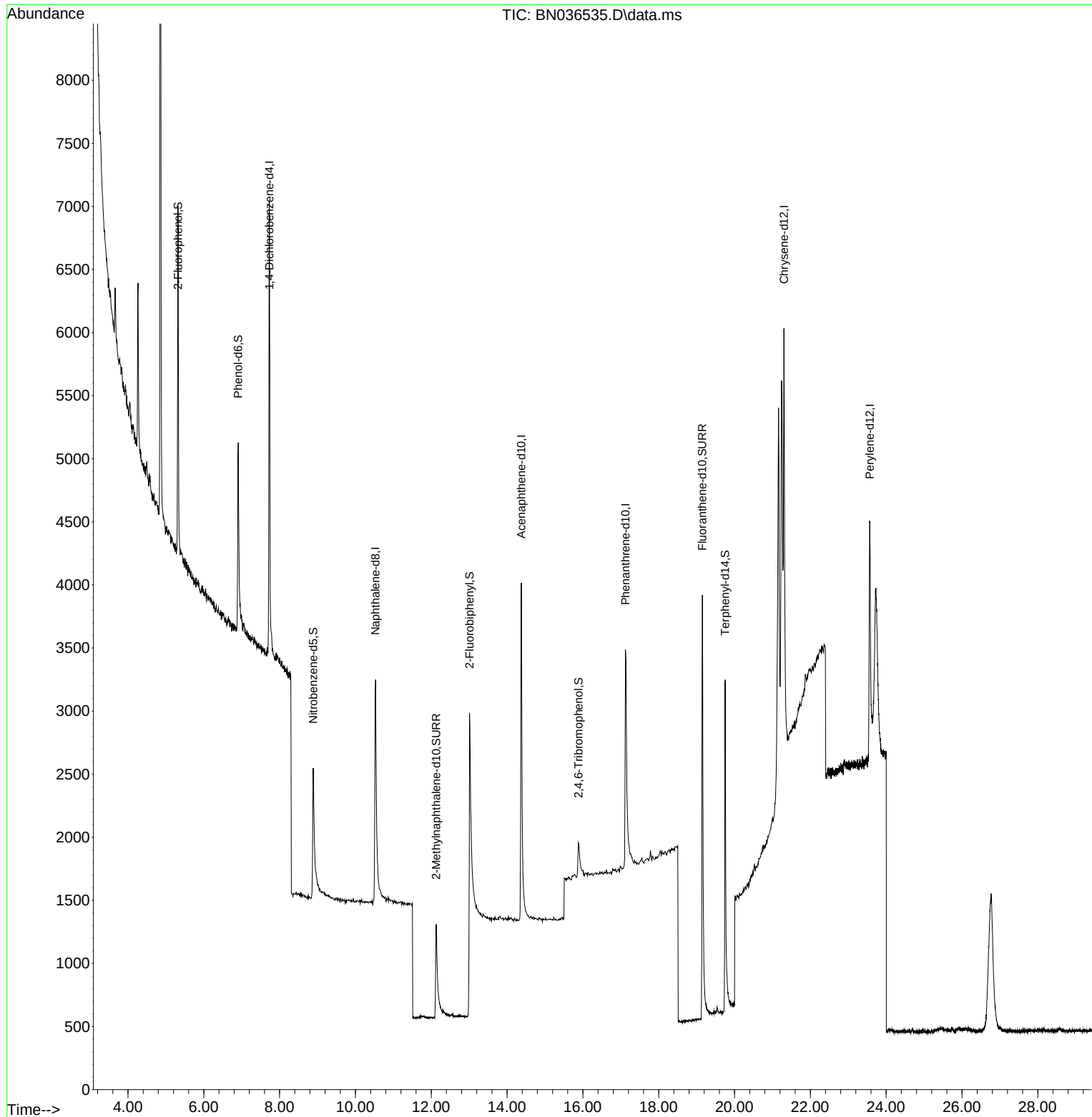
Target Compounds	Qvalue

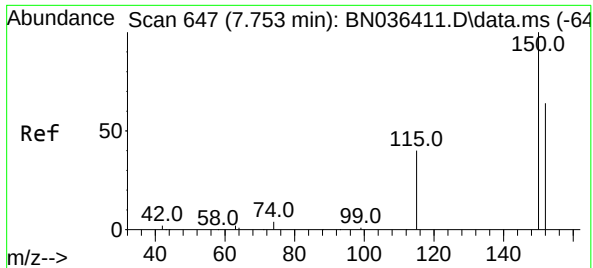
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN030625\
Data File : BN036535.D
Acq On : 06 Mar 2025 14:48
Operator : RC/JU
Sample : PB167006BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB167006BL

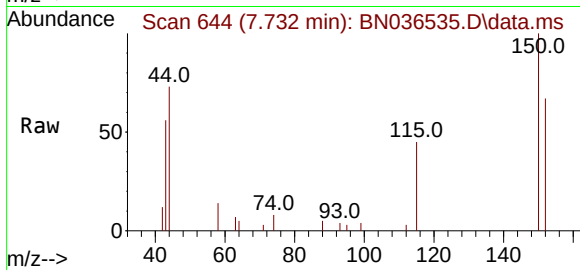
Quant Time: Mar 06 15:34:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 16:08:57 2025
Response via : Initial Calibration



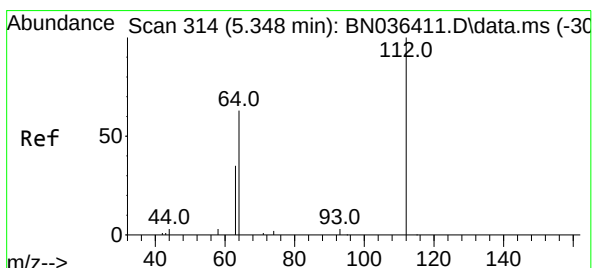
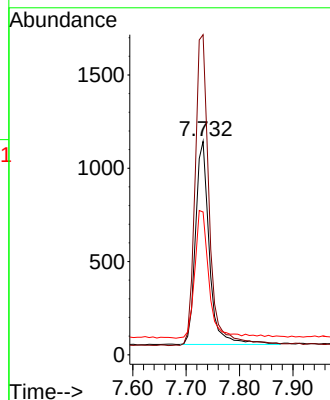
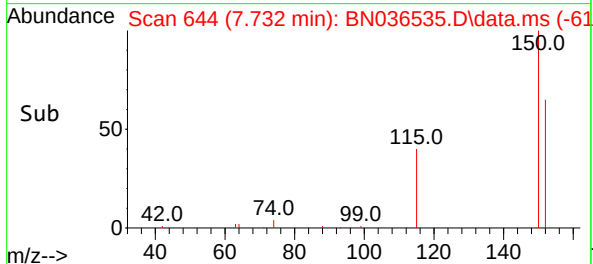


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.732 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN036535.D
Acq: 06 Mar 2025 14:48

Instrument :
BNA_N
ClientSampleId :
PB167006BL

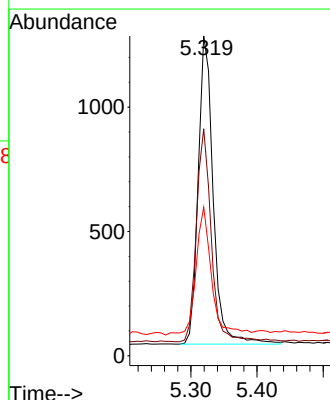
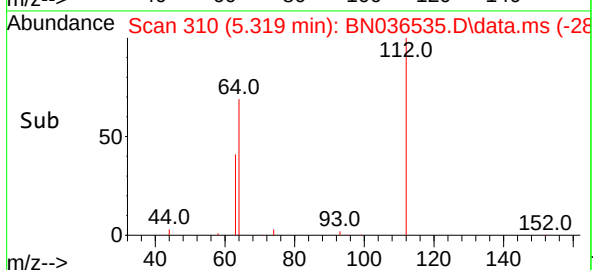
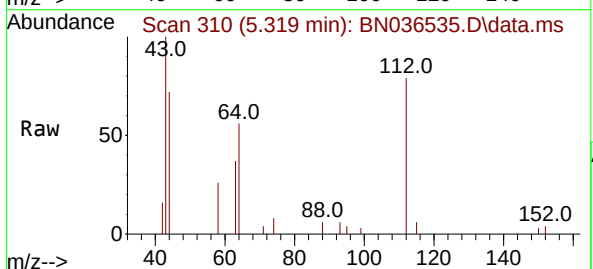


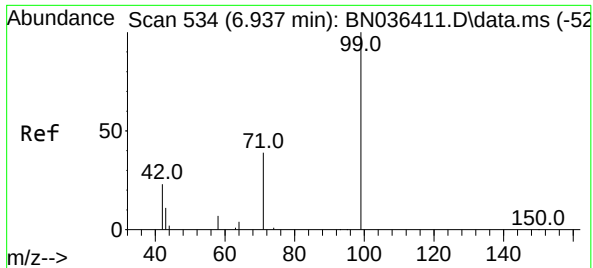
Tgt Ion:152 Resp: 1970
Ion Ratio Lower Upper
152 100
150 150.0 123.7 185.5
115 67.0 52.5 78.7



#4
2-Fluorophenol
Concen: 0.422 ng
RT: 5.319 min Scan# 310
Delta R.T. 0.000 min
Lab File: BN036535.D
Acq: 06 Mar 2025 14:48

Tgt Ion:112 Resp: 1966
Ion Ratio Lower Upper
112 100
64 68.5 53.4 80.0
63 42.7 30.3 45.5

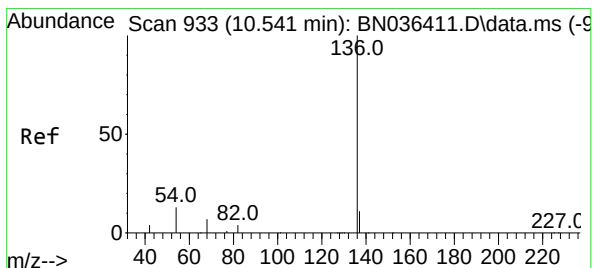
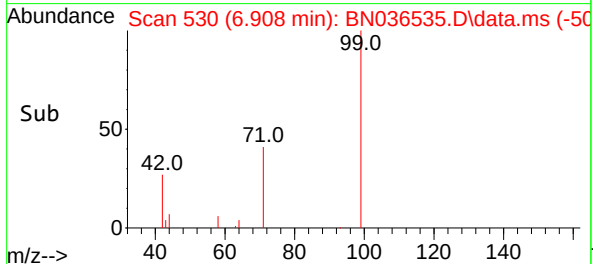
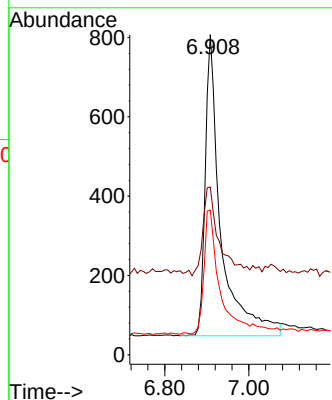
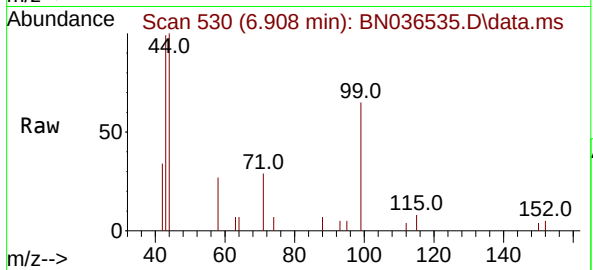




#5
Phenol-d6
Concen: 0.359 ng
RT: 6.908 min Scan# 51
Delta R.T. 0.007 min
Lab File: BN036535.D
Acq: 06 Mar 2025 14:48

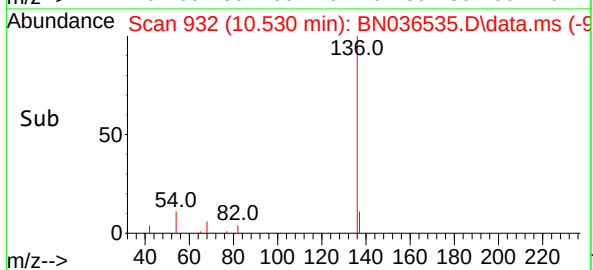
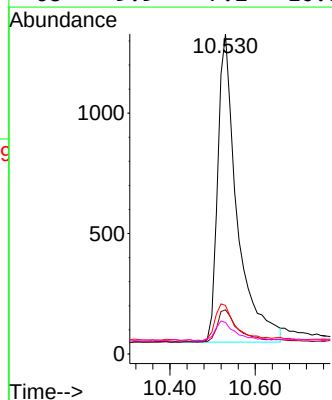
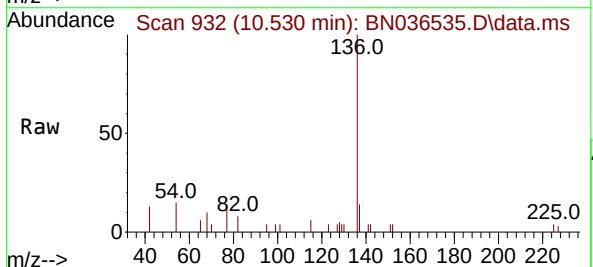
Instrument :
BNA_N
ClientSampleId :
PB167006BL

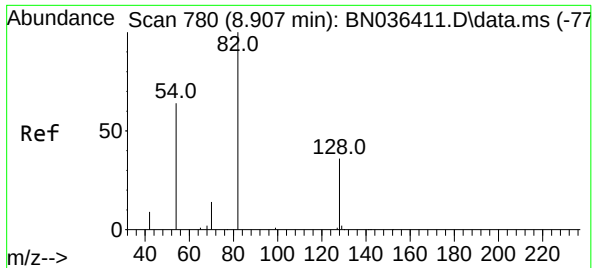
Tgt Ion: 99 Resp: 1962
Ion Ratio Lower Upper
99 100
42 30.9 21.7 32.5
71 43.1 32.6 49.0



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.530 min Scan# 932
Delta R.T. 0.021 min
Lab File: BN036535.D
Acq: 06 Mar 2025 14:48

Tgt Ion: 136 Resp: 4027
Ion Ratio Lower Upper
136 100
137 13.8 10.1 15.1
54 15.1 11.8 17.6
68 9.9 7.2 10.8

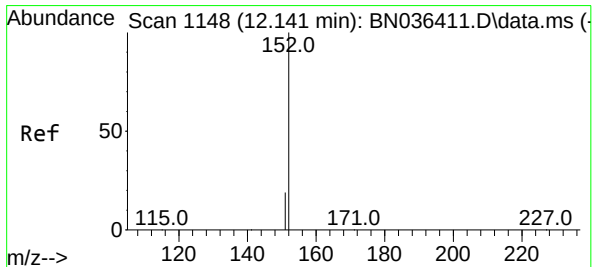
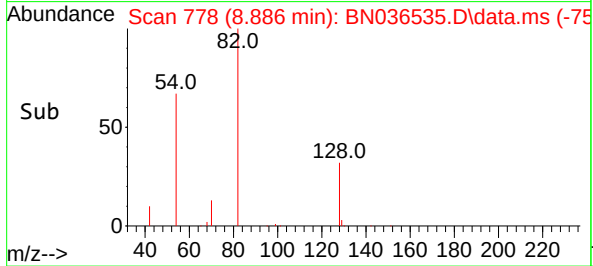
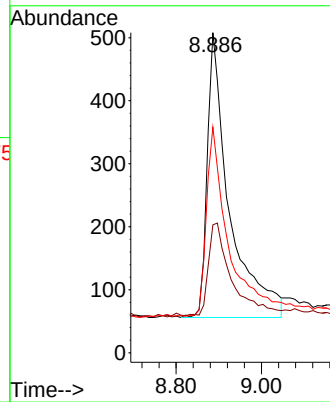
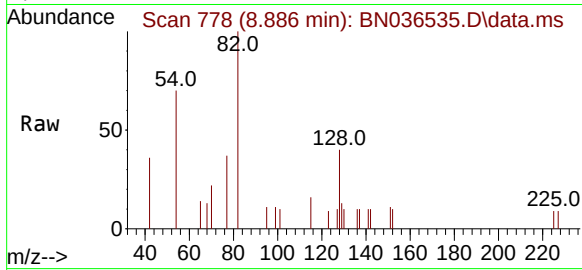




#8
Nitrobenzene-d5
Concen: 0.410 ng
RT: 8.886 min Scan# 71
Delta R.T. 0.011 min
Lab File: BN036535.D
Acq: 06 Mar 2025 14:48

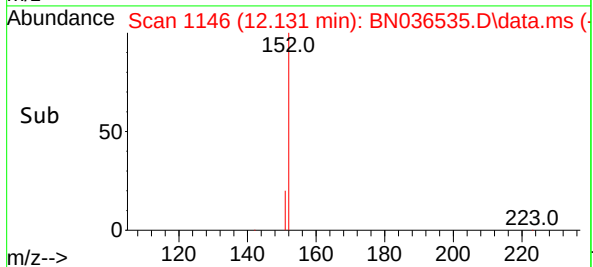
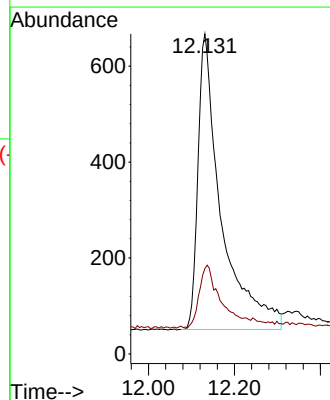
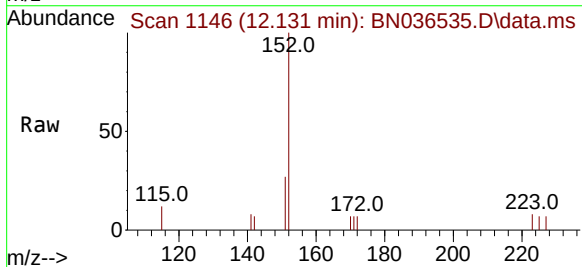
Instrument :
BNA_N
ClientSampleId :
PB167006BL

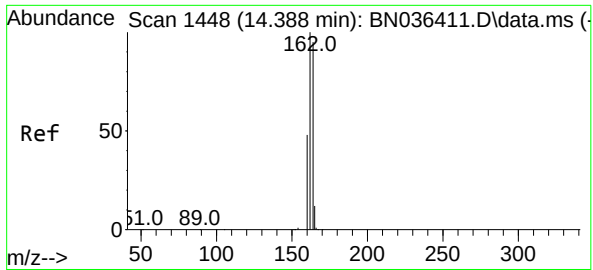
Tgt Ion:	82	Resp:	1628
Ion Ratio	Lower	Upper	
82	100		
128	40.0	31.9	47.9
54	70.5	53.1	79.7



#11
2-Methylnaphthalene-d10
Concen: 0.373 ng
RT: 12.131 min Scan# 1146
Delta R.T. 0.025 min
Lab File: BN036535.D
Acq: 06 Mar 2025 14:48

Tgt Ion:	152	Resp:	2309
Ion Ratio	Lower	Upper	
152	100		
151	20.0	16.6	25.0

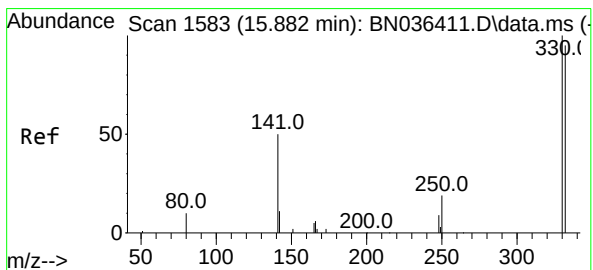
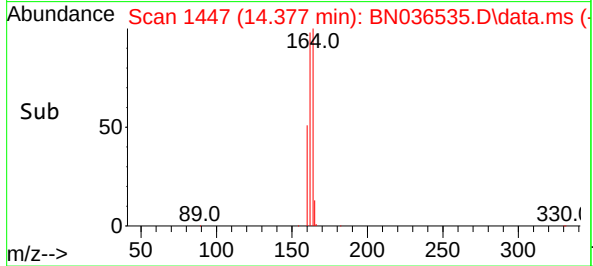
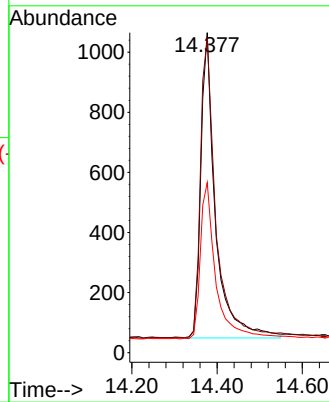
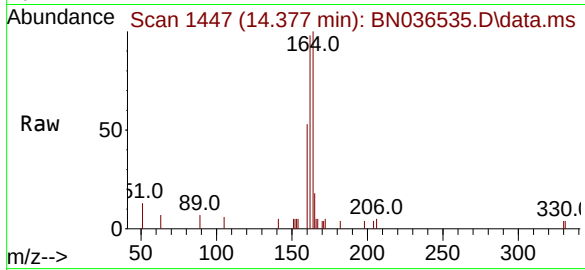




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.377 min Scan# 1447
Delta R.T. 0.011 min
Lab File: BN036535.D
Acq: 06 Mar 2025 14:48

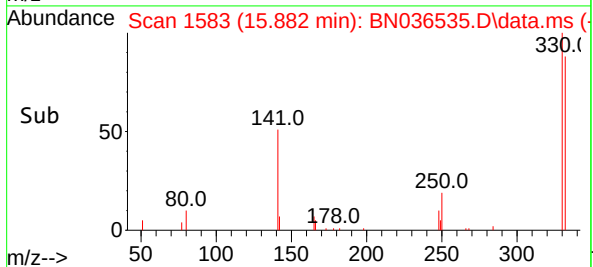
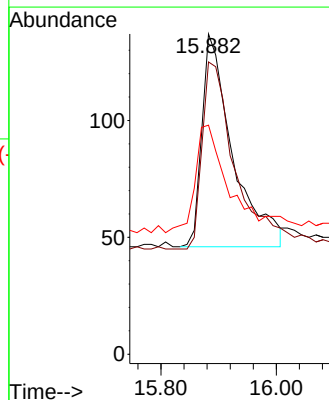
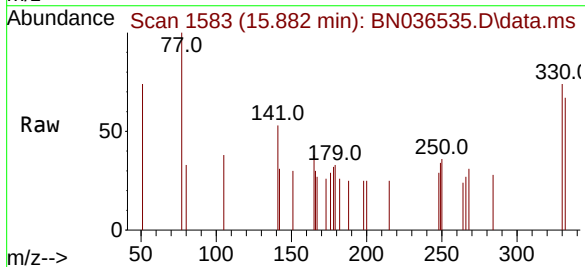
Instrument :
BNA_N
ClientSampleId :
PB167006BL

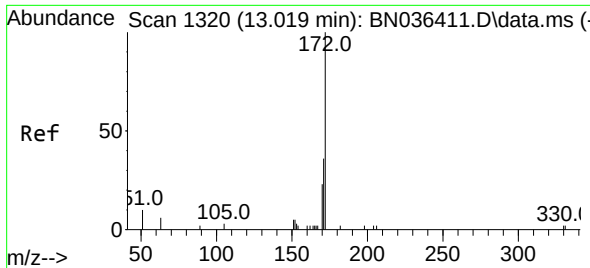
Tgt Ion:164 Resp: 2414
Ion Ratio Lower Upper
164 100
162 98.4 84.1 126.1
160 53.1 41.4 62.0



#14
2,4,6-Tribromophenol
Concen: 0.282 ng
RT: 15.882 min Scan# 1583
Delta R.T. 0.025 min
Lab File: BN036535.D
Acq: 06 Mar 2025 14:48

Tgt Ion:330 Resp: 337
Ion Ratio Lower Upper
330 100
332 95.3 76.6 114.8
141 53.7 37.8 56.8





#15

2-Fluorobiphenyl

Concen: 0.378 ng

RT: 13.008 min Scan# 11

Delta R.T. 0.020 min

Lab File: BN036535.D

Acq: 06 Mar 2025 14:48

Instrument :

BNA_N

ClientSampleId :

PB167006BL

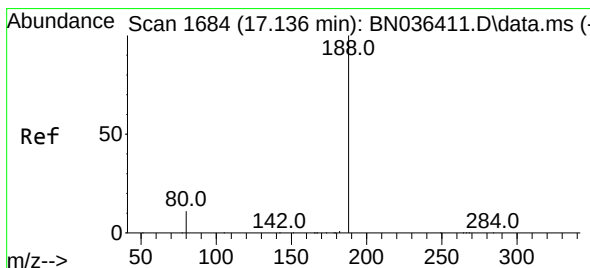
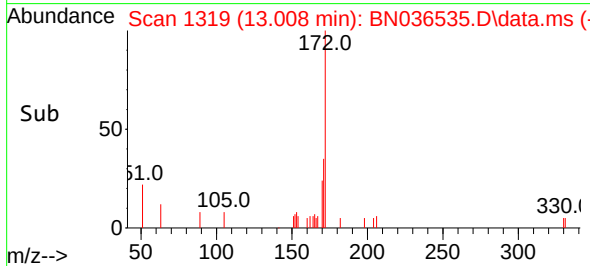
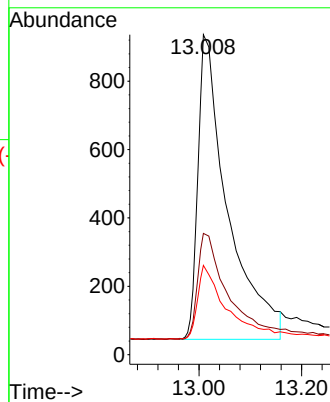
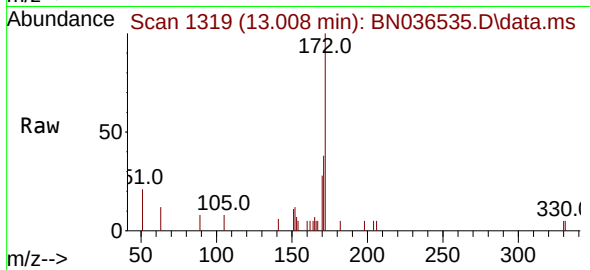
Tgt Ion:172 Resp: 3433

Ion Ratio Lower Upper

172 100

171 37.9 29.6 44.4

170 27.9 19.8 29.6



#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.124 min Scan# 1683

Delta R.T. 0.012 min

Lab File: BN036535.D

Acq: 06 Mar 2025 14:48

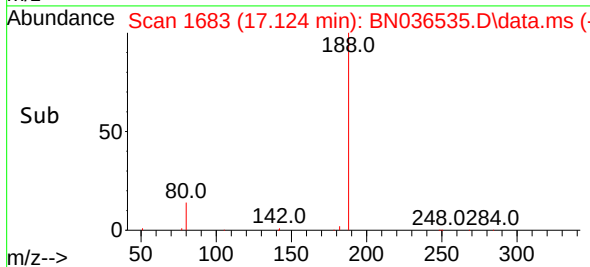
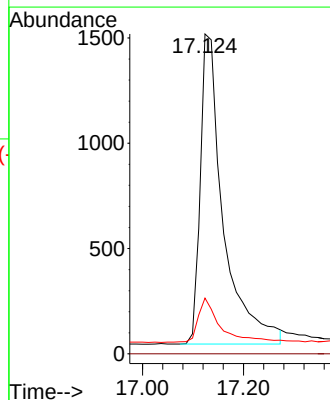
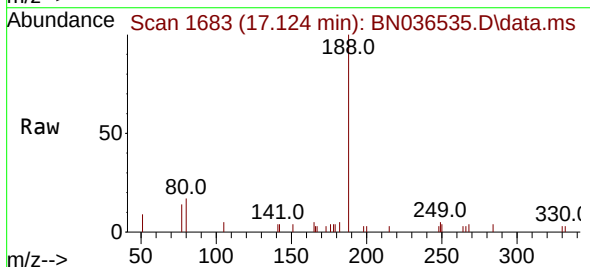
Tgt Ion:188 Resp: 4679

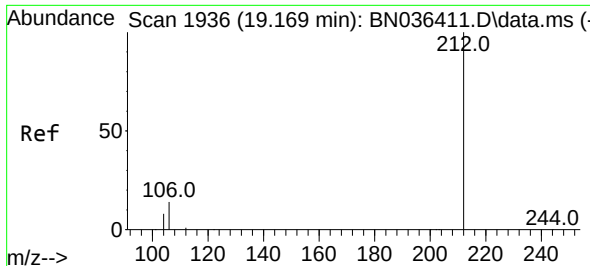
Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 17.4 9.8 14.6#





#27

Fluoranthene-d10

Concen: 0.445 ng

RT: 19.150 min Scan# 1932

Delta R.T. 0.009 min

Lab File: BN036535.D

Acq: 06 Mar 2025 14:48

Instrument :

BNA_N

ClientSampleId :

PB167006BL

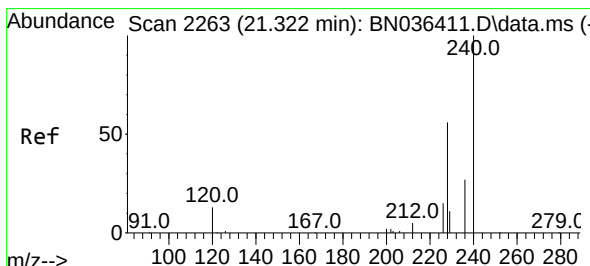
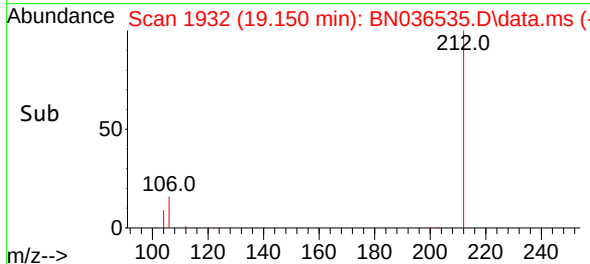
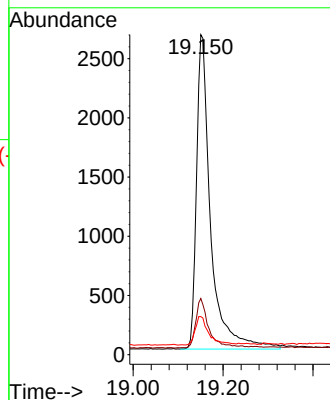
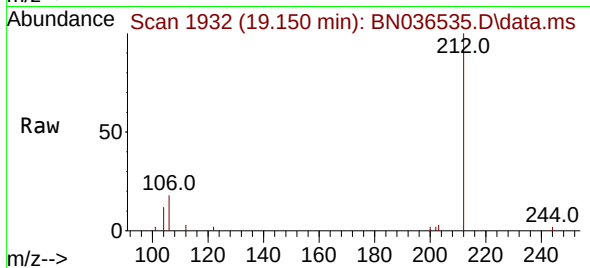
Tgt Ion:212 Resp: 5795

Ion Ratio Lower Upper

212 100

106 14.2 11.5 17.3

104 8.7 7.1 10.7



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.304 min Scan# 2261

Delta R.T. 0.009 min

Lab File: BN036535.D

Acq: 06 Mar 2025 14:48

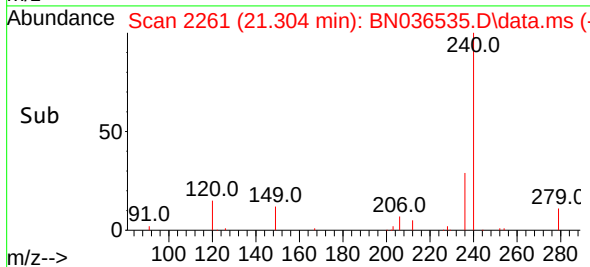
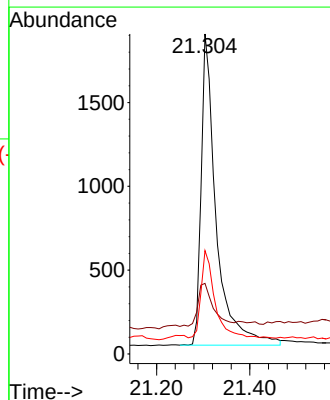
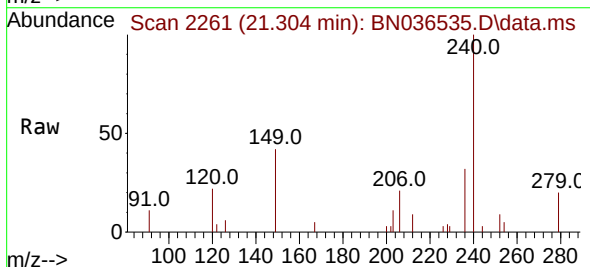
Tgt Ion:240 Resp: 4156

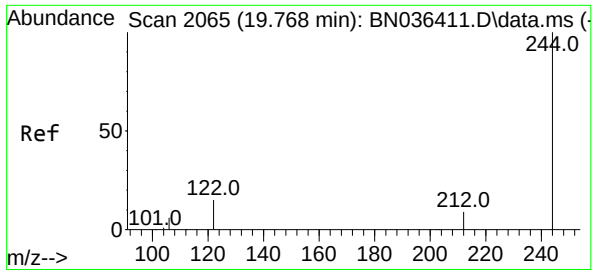
Ion Ratio Lower Upper

240 100

120 22.1 13.3 19.9#

236 32.3 23.0 34.6

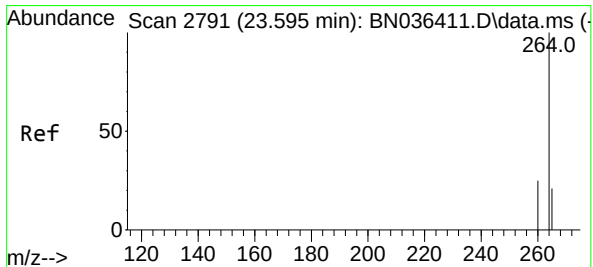
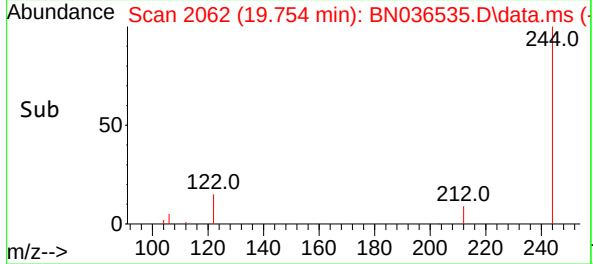
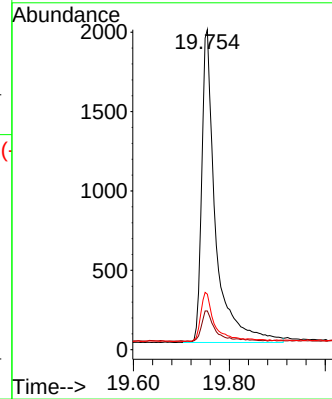
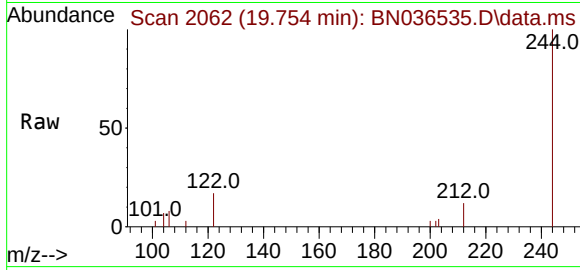




#31
Terphenyl-d14
Concen: 0.449 ng
RT: 19.754 min Scan# 2062
Delta R.T. 0.009 min
Lab File: BN036535.D
Acq: 06 Mar 2025 14:48

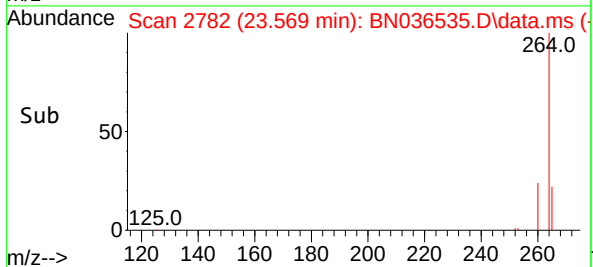
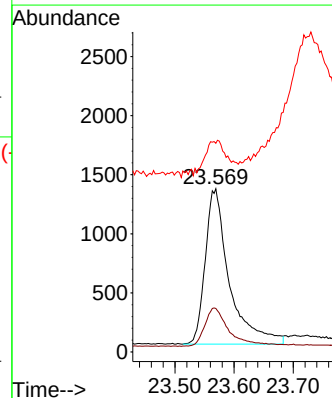
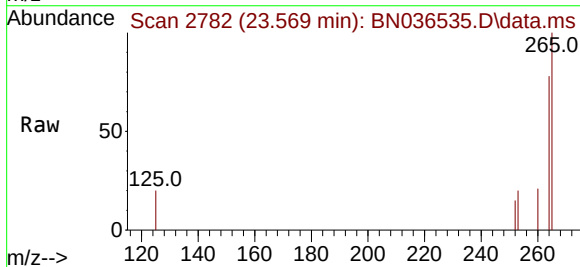
Instrument :
BNA_N
ClientSampleId :
PB167006BL

Tgt Ion:244 Resp: 3979
Ion Ratio Lower Upper
244 100
212 12.1 8.1 12.1
122 17.4 12.8 19.2



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.569 min Scan# 2782
Delta R.T. 0.018 min
Lab File: BN036535.D
Acq: 06 Mar 2025 14:48

Tgt Ion:264 Resp: 3735
Ion Ratio Lower Upper
264 100
260 26.7 20.9 31.3
265 127.9 60.7 91.1#



Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger STC PTC Site # D3868221	Date Received:	
Client Sample ID:	PB167006BS	SDG No.:	Q1501
Lab Sample ID:	PB167006BS	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
BN036542.D	1	03/06/25 08:26	03/06/25 19:37	PB167006

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
123-91-1	1,4-Dioxane	0.38		0.070	0.20	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.48		30 (20) - 150 (139)	120%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.38		30 (30) - 150 (150)	95%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.40		30 (27) - 130 (154)	100%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.63	*	30 (25) - 130 (149)	157%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.46		30 (54) - 130 (175)	115%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	2140	7.732			
1146-65-2	Naphthalene-d8	5010	10.52			
15067-26-2	Acenaphthene-d10	2760	14.366			
1517-22-2	Phenanthrene-d10	5490	17.111			
1719-03-5	Chrysene-d12	4240	21.304			
1520-96-3	Perylene-d12	3810	23.557			

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\BN030625\
 Data File : BN036542.D
 Acq On : 06 Mar 2025 19:37
 Operator : RC/JU
 Sample : PB167006BS
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB167006BS

Manual Integrations
 APPROVED

Reviewed By :Anahy Claudio 03/07/2025
 Supervised By :Jagrut Upadhyay 03/07/2025

Quant Time: Mar 07 00:25:48 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 05 16:08:57 2025
 Response via : Initial Calibration

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

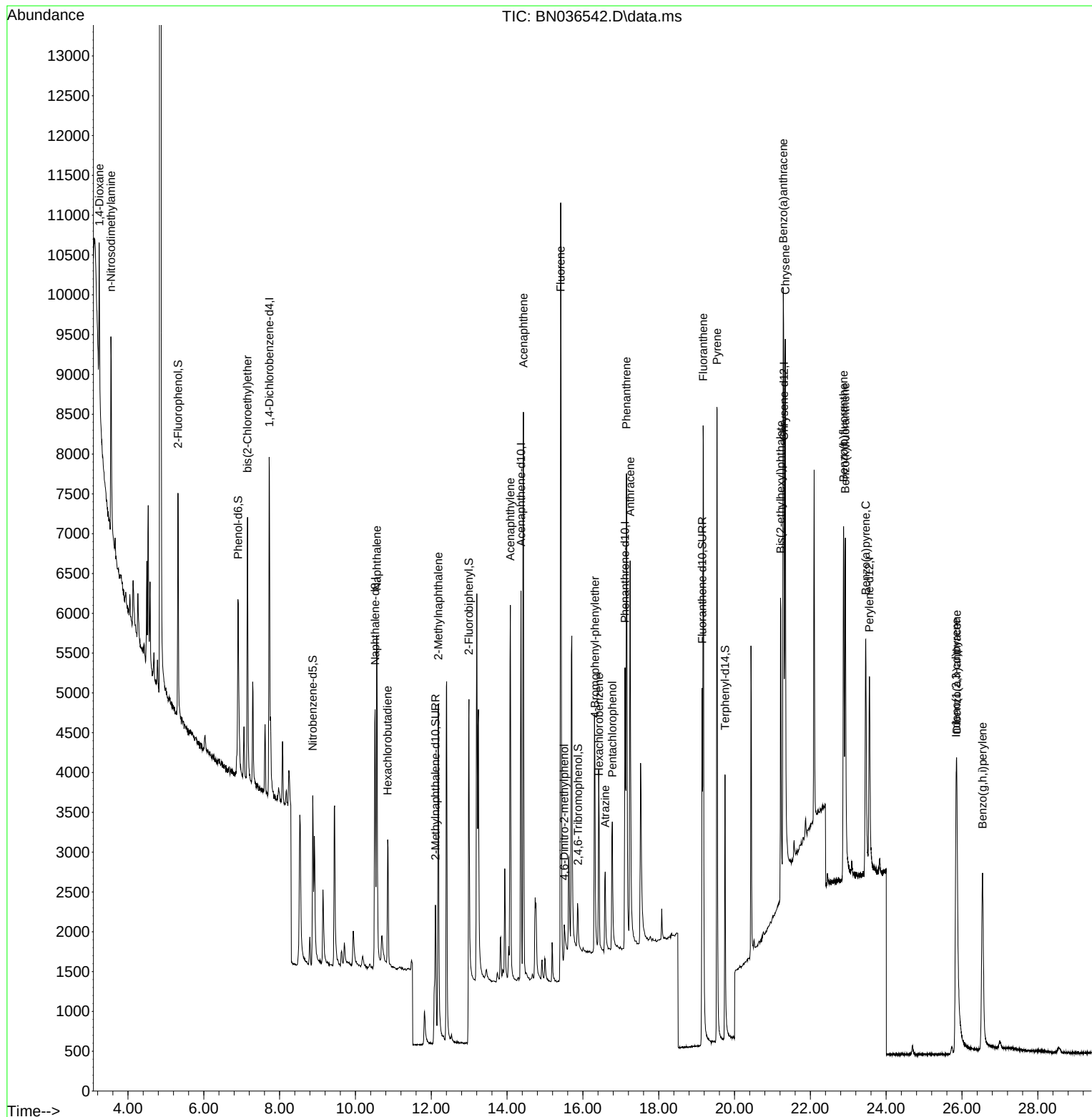
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.732	152	2137	0.400	ng	0.00
7) Naphthalene-d8	10.520	136	5013	0.400	ng	# 0.01
13) Acenaphthene-d10	14.366	164	2760	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	5485	0.400	ng	0.00
29) Chrysene-d12	21.304	240	4244	0.400	ng	0.00
35) Perylene-d12	23.557	264	3808	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.319	112	2032	0.402	ng	0.00
5) Phenol-d6	6.908	99	2282	0.385	ng	0.00
8) Nitrobenzene-d5	8.875	82	1973	0.399	ng	0.00
11) 2-Methylnaphthalene-d10	12.111	152	3715m	0.482	ng	0.00
14) 2,4,6-Tribromophenol	15.870	330	404	0.295	ng	0.01
15) 2-Fluorobiphenyl	12.993	172	6506	0.627	ng	0.00
27) Fluoranthene-d10	19.146	212	5802	0.380	ng	0.00
31) Terphenyl-d14	19.750	244	4159	0.459	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.247	88	878	0.376	ng	# 66
3) n-Nitrosodimethylamine	3.550	42	1953	0.481	ng	# 90
6) bis(2-Chloroethyl)ether	7.154	93	2497	0.403	ng	98
9) Naphthalene	10.562	128	5724	0.396	ng	99
10) Hexachlorobutadiene	10.851	225	1406	0.399	ng	# 99
12) 2-Methylnaphthalene	12.187	142	3621	0.382	ng	98
16) Acenaphthylene	14.088	152	5660	0.464	ng	99
17) Acenaphthene	14.430	154	3525	0.433	ng	99
18) Fluorene	15.414	166	4696	0.405	ng	99
20) 4,6-Dinitro-2-methylph...	15.510	198	321	0.298	ng	# 84
21) 4-Bromophenyl-phenylether	16.317	248	1352	0.413	ng	# 80
22) Hexachlorobenzene	16.429	284	1703	0.421	ng	96
23) Atrazine	16.590	200	1143	0.418	ng	99
24) Pentachlorophenol	16.776	266	1086	0.566	ng	100
25) Phenanthrene	17.149	178	6991	0.441	ng	99
26) Anthracene	17.248	178	6486	0.464	ng	99
28) Fluoranthene	19.174	202	7938	0.407	ng	100
30) Pyrene	19.541	202	8220	0.503	ng	99
32) Benzo(a)anthracene	21.286	228	6100	0.437	ng	99
33) Chrysene	21.340	228	7212	0.477	ng	99
34) Bis(2-ethylhexyl)phtha...	21.214	149	3633	0.418	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.844	276	6400	0.481	ng	# 82
37) Benzo(b)fluoranthene	22.876	252	5836	0.465	ng	95
38) Benzo(k)fluoranthene	22.923	252	6394	0.495	ng	95
39) Benzo(a)pyrene	23.461	252	5521	0.504	ng	94
40) Dibenzo(a,h)anthracene	25.864	278	4852	0.462	ng	96
41) Benzo(g,h,i)perylene	26.542	276	5162	0.434	ng	97

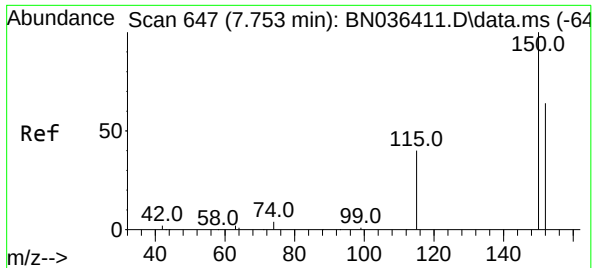
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
BNA_N
ClientSampleId :
PB167006BS

Manual Integrations APPROVED

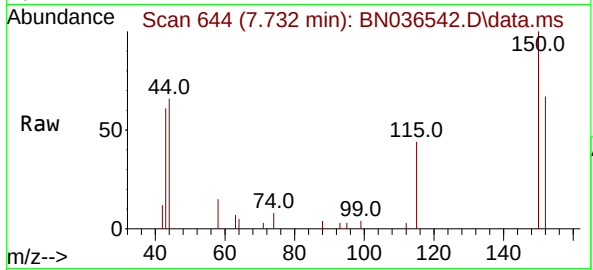
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.732 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN036542.D
Acq: 06 Mar 2025 19:37

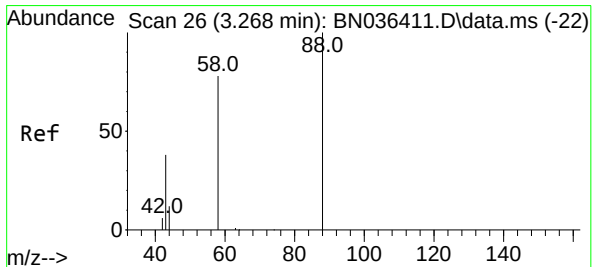
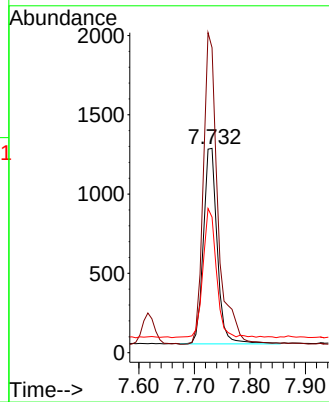
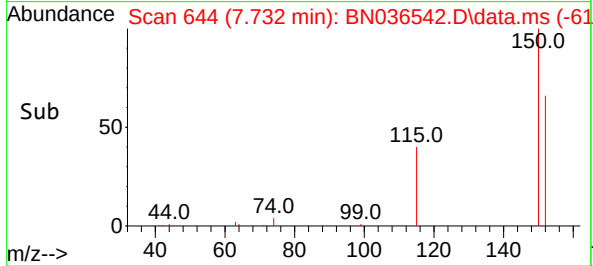
Instrument :
BNA_N
ClientSampleId :
PB167006BS



Tgt Ion: 152 Resp: 213
Ion Ratio Lower Upper
152 100
150 149.3 123.7 185.5
115 66.3 52.5 78.7

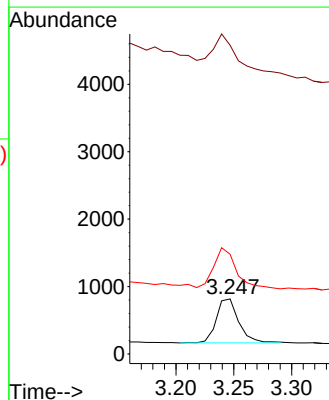
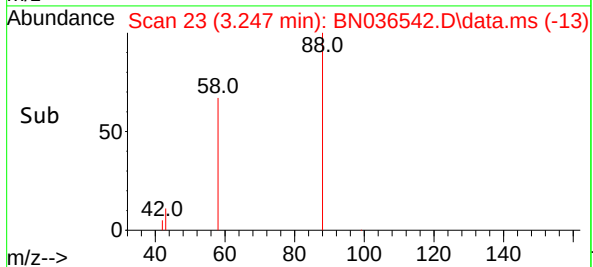
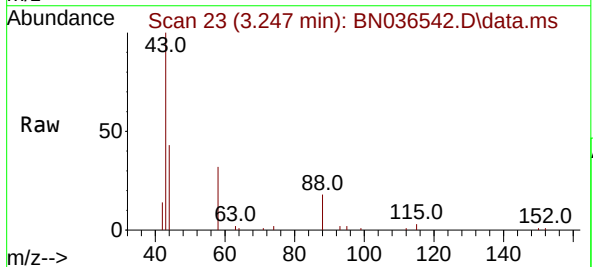
Manual Integrations
APPROVED

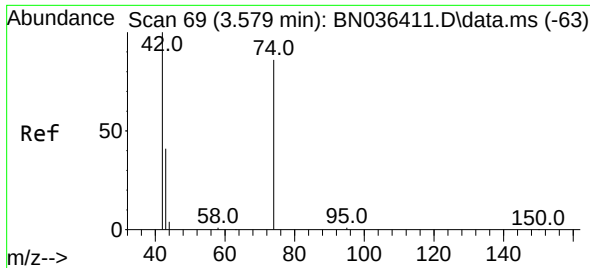
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025



#2
1,4-Dioxane
Concen: 0.376 ng
RT: 3.247 min Scan# 23
Delta R.T. 0.000 min
Lab File: BN036542.D
Acq: 06 Mar 2025 19:37

Tgt Ion: 88 Resp: 878
Ion Ratio Lower Upper
88 100
43 96.8 33.7 50.5
58 94.0 68.9 103.3





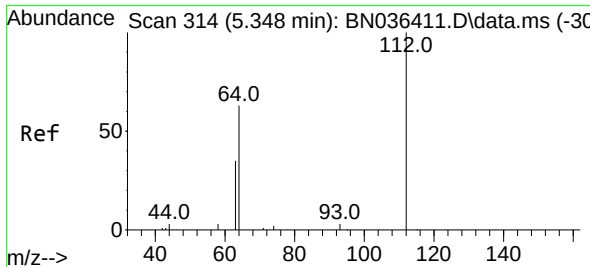
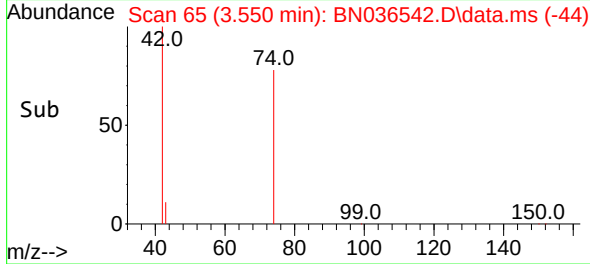
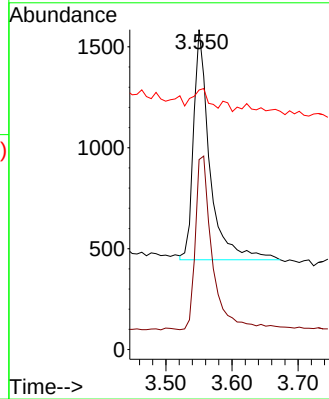
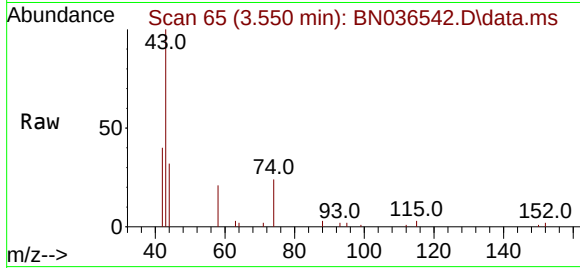
#3
n-Nitrosodimethylamine
Concen: 0.481 ng
RT: 3.550 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN036542.D
Acq: 06 Mar 2025 19:37

Instrument :
BNA_N
ClientSampleId :
PB167006BS

Tgt Ion: 42 Resp: 195
Ion Ratio Lower Upper
42 100
74 79.5 71.8 107.6
44 7.5 7.8 11.6

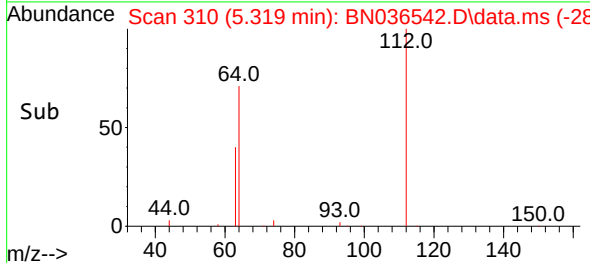
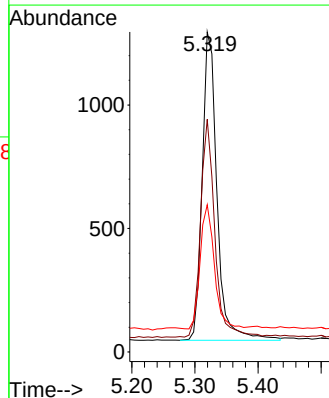
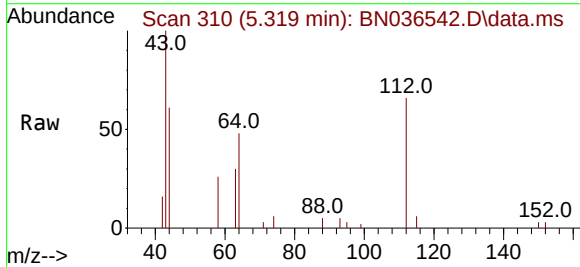
Manual Integrations
APPROVED

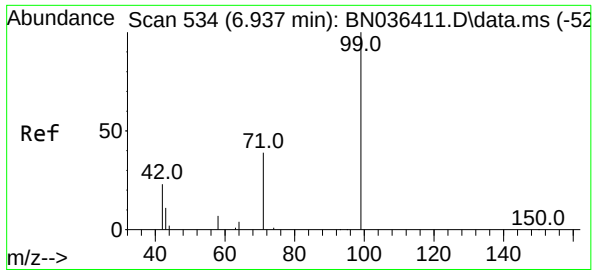
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025



#4
2-Fluorophenol
Concen: 0.402 ng
RT: 5.319 min Scan# 310
Delta R.T. 0.000 min
Lab File: BN036542.D
Acq: 06 Mar 2025 19:37

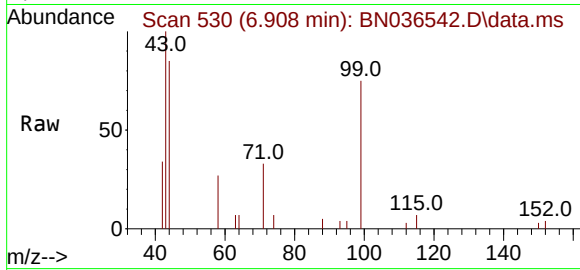
Tgt Ion:112 Resp: 2032
Ion Ratio Lower Upper
112 100
64 68.1 53.4 80.0
63 38.5 30.3 45.5





#5
Phenol-d6
Concen: 0.385 ng
RT: 6.908 min Scan# 51
Delta R.T. 0.007 min
Lab File: BN036542.D
Acq: 06 Mar 2025 19:37

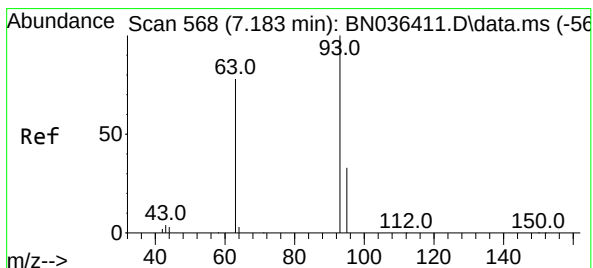
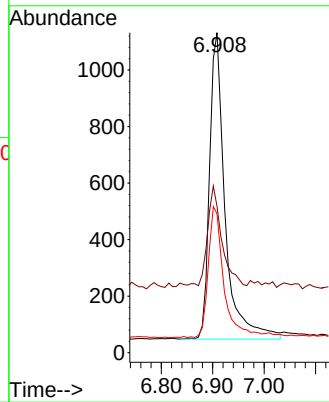
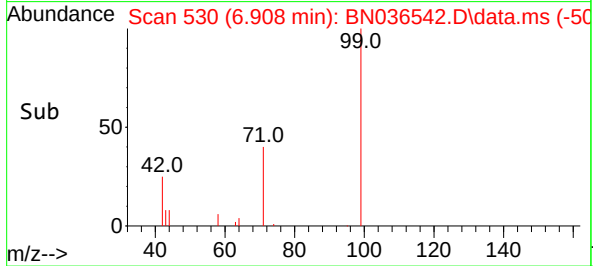
Instrument :
BNA_N
ClientSampleId :
PB167006BS



Tgt Ion: 99 Resp: 228
Ion Ratio Lower Upper
99 100
42 31.9 21.7 32.5
71 43.6 32.6 49.0

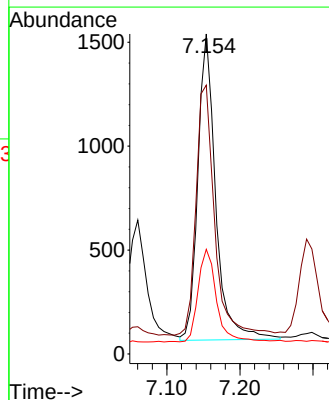
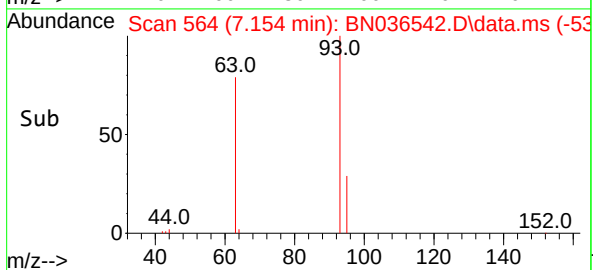
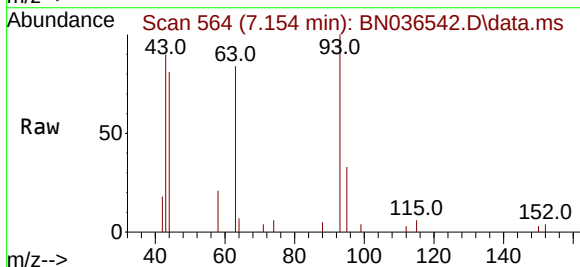
Manual Integrations
APPROVED

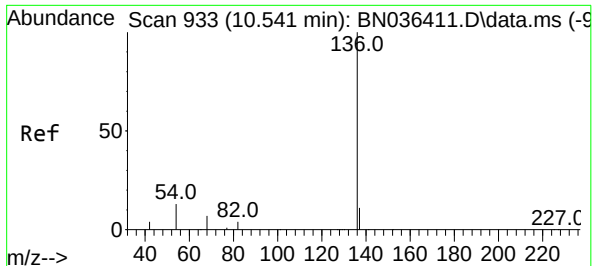
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025



#6
bis(2-Chloroethyl)ether
Concen: 0.403 ng
RT: 7.154 min Scan# 564
Delta R.T. 0.000 min
Lab File: BN036542.D
Acq: 06 Mar 2025 19:37

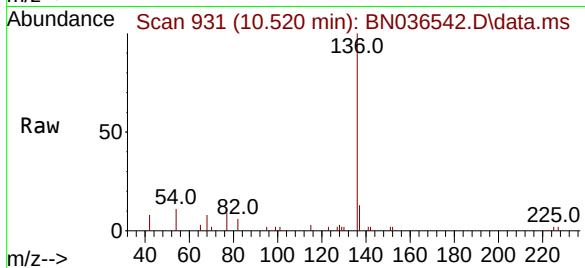
Tgt Ion: 93 Resp: 2497
Ion Ratio Lower Upper
93 100
63 84.5 66.3 99.5
95 31.6 26.2 39.4





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.520 min Scan# 911
Delta R.T. 0.011 min
Lab File: BN036542.D
Acq: 06 Mar 2025 19:37

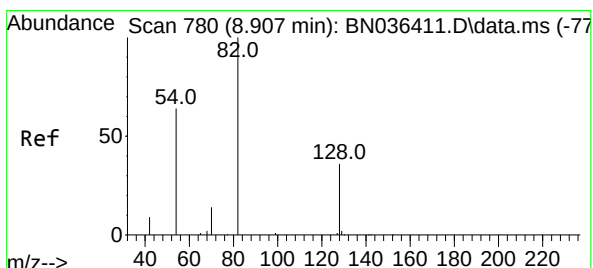
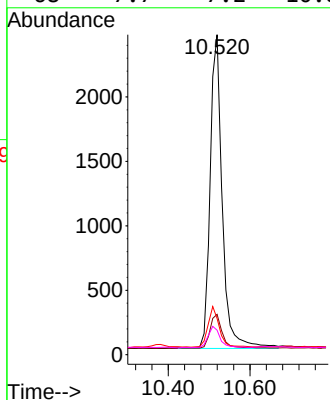
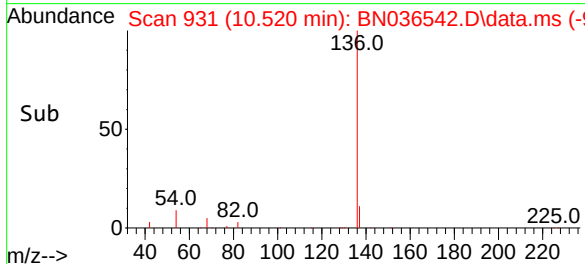
Instrument :
BNA_N
ClientSampleId :
PB167006BS



Tgt Ion: 136 Resp: 501
Ion Ratio Lower Upper
136 100
137 12.6 10.1 15.1
54 11.3 11.8 17.6
68 7.7 7.2 10.8

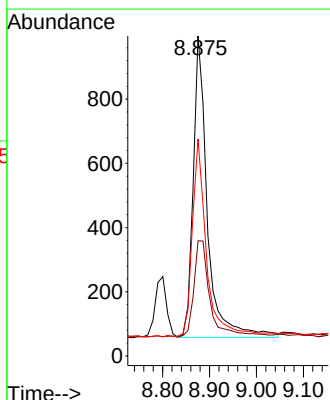
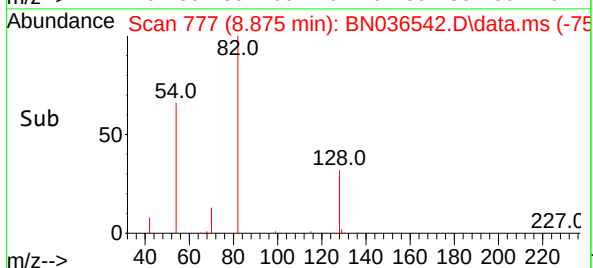
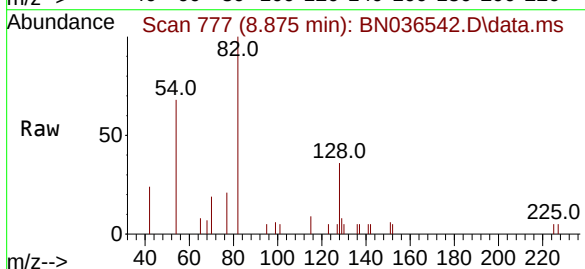
Manual Integrations
APPROVED

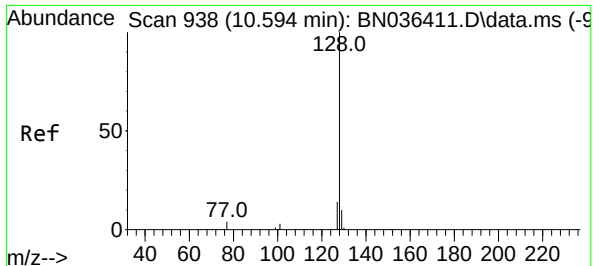
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025



#8
Nitrobenzene-d5
Concen: 0.399 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036542.D
Acq: 06 Mar 2025 19:37

Tgt Ion: 82 Resp: 1973
Ion Ratio Lower Upper
82 100
128 36.0 31.9 47.9
54 67.8 53.1 79.7





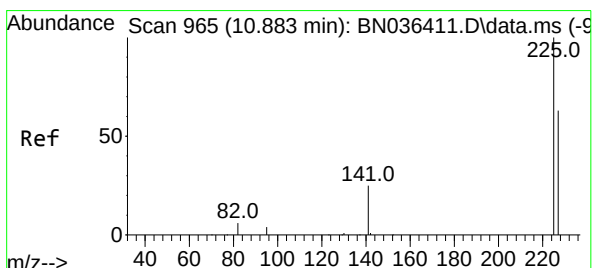
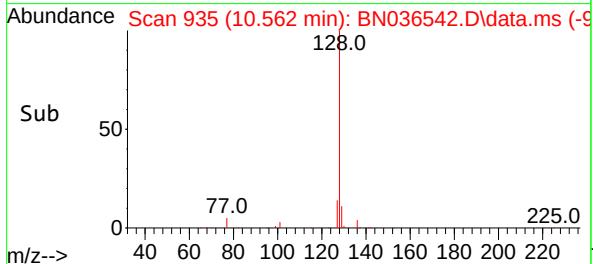
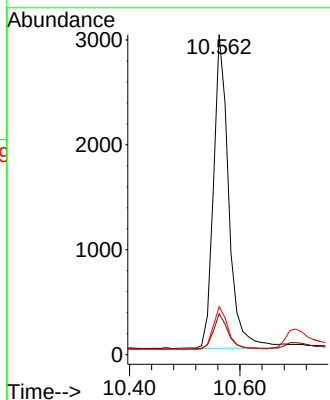
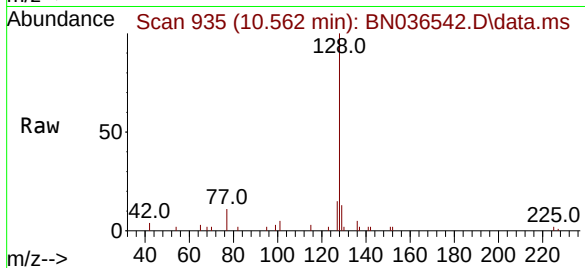
#9
Naphthalene
Concen: 0.396 ng
RT: 10.562 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036542.D
Acq: 06 Mar 2025 19:37

Instrument :
BNA_N
ClientSampleId :
PB167006BS

Tgt Ion	Ratio	Lower	Upper
128	100		
129	12.8	9.6	14.4
127	15.0	12.0	18.0

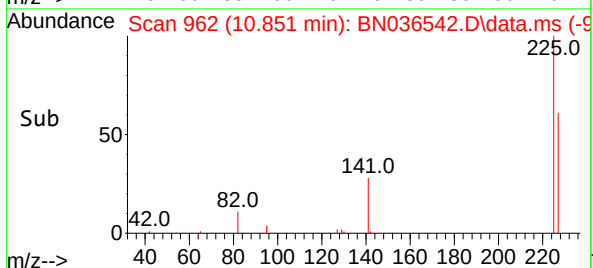
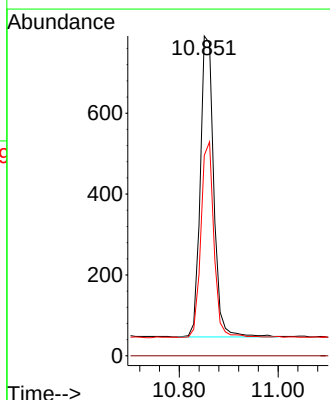
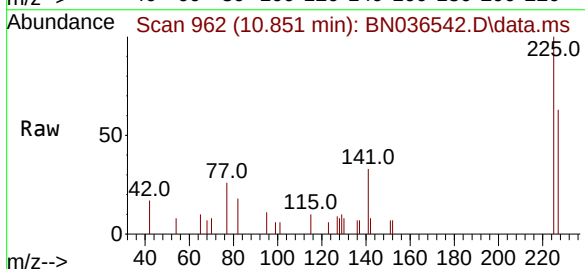
Manual Integrations
APPROVED

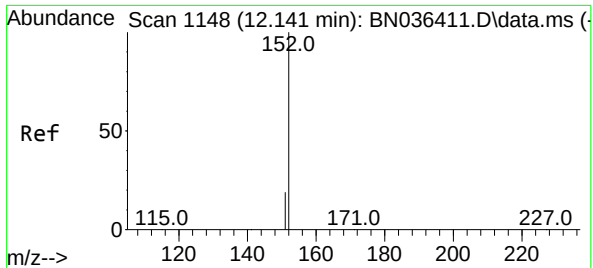
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025



#10
Hexachlorobutadiene
Concen: 0.399 ng
RT: 10.851 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036542.D
Acq: 06 Mar 2025 19:37

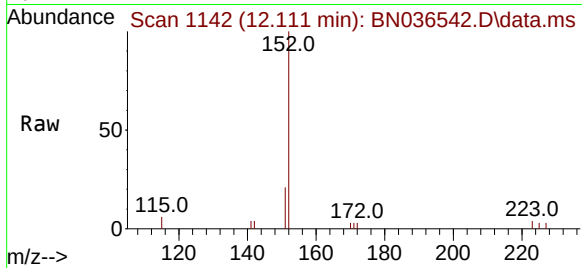
Tgt Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	62.6	50.9	76.3





#11
2-Methylnaphthalene-d10
Concen: 0.482 ng m
RT: 12.111 min Scan# 1148
Delta R.T. 0.005 min
Lab File: BN036542.D
Acq: 06 Mar 2025 19:37

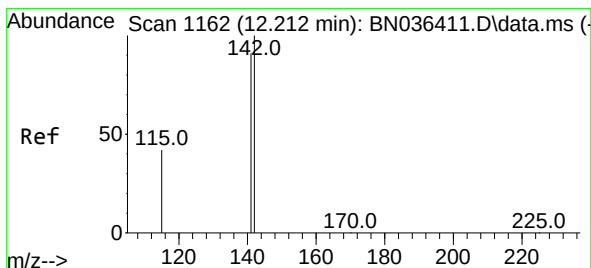
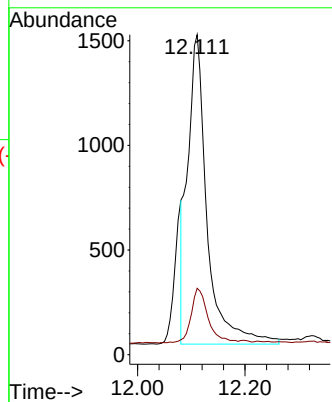
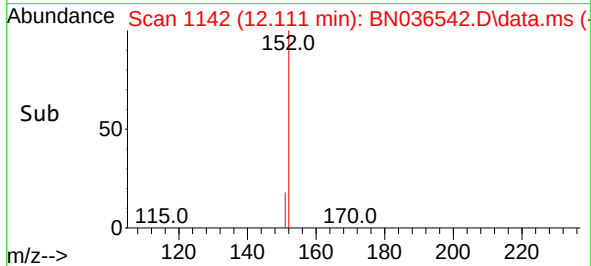
Instrument :
BNA_N
ClientSampleId :
PB167006BS



Tgt Ion:152 Resp: 3715
Ion Ratio Lower Upper
152 100
151 15.5 16.6 25.0

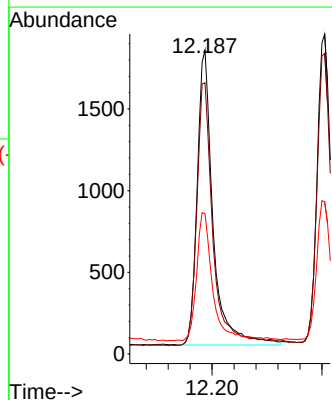
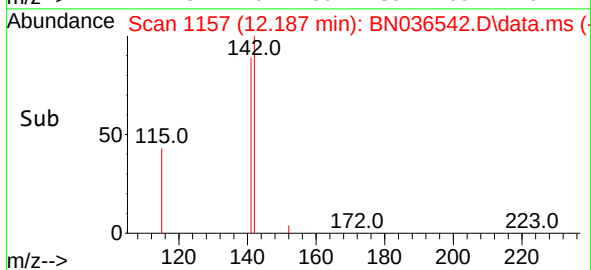
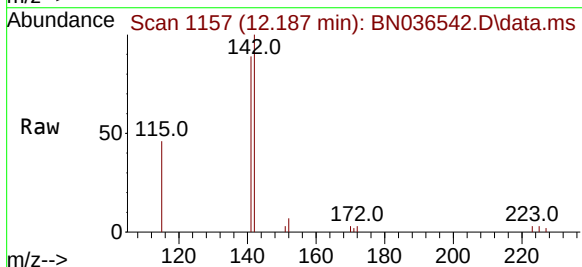
Manual Integrations
APPROVED

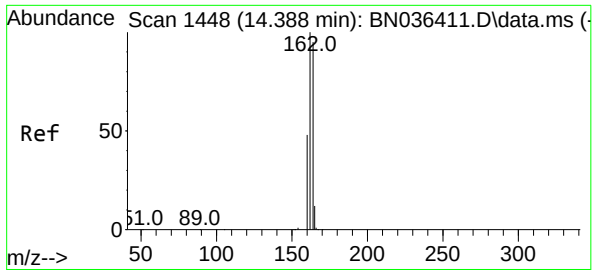
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025



#12
2-Methylnaphthalene
Concen: 0.382 ng
RT: 12.187 min Scan# 1157
Delta R.T. 0.005 min
Lab File: BN036542.D
Acq: 06 Mar 2025 19:37

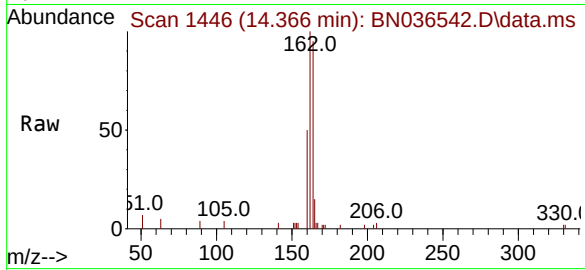
Tgt Ion:142 Resp: 3621
Ion Ratio Lower Upper
142 100
141 89.3 72.8 109.2
115 46.2 35.5 53.3





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. 0.000 min
Lab File: BN036542.D
Acq: 06 Mar 2025 19:37

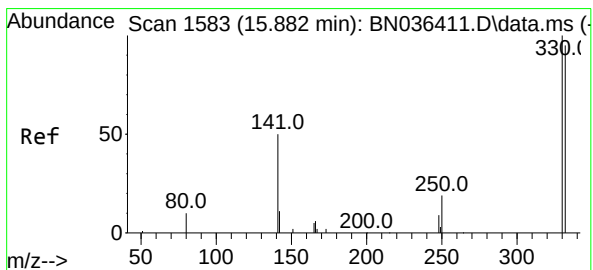
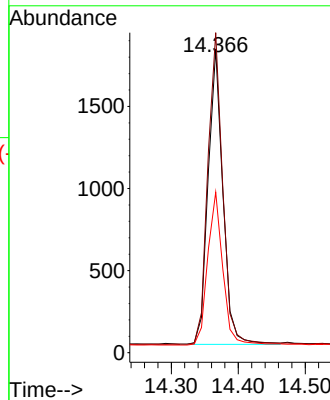
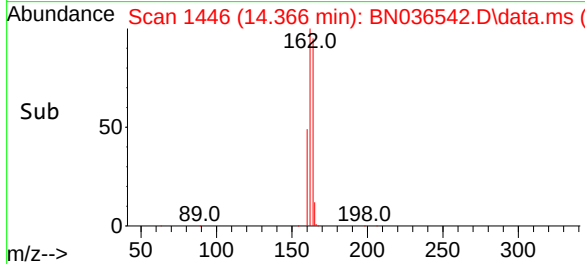
Instrument :
BNA_N
ClientSampleId :
PB167006BS



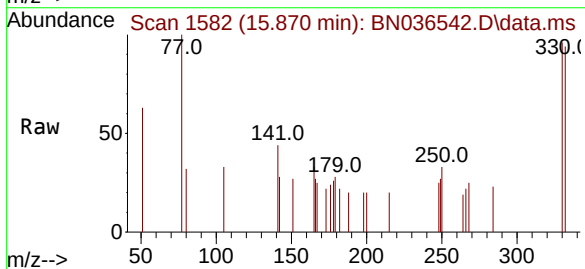
Tgt Ion:164 Resp: 2760
Ion Ratio Lower Upper
164 100
162 105.4 84.1 126.1
160 52.9 41.4 62.0

Manual Integrations
APPROVED

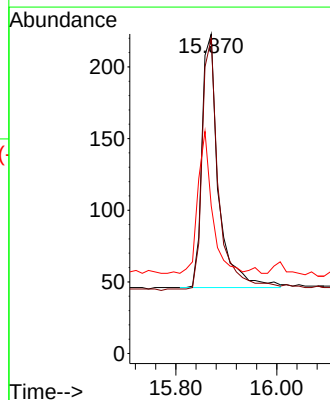
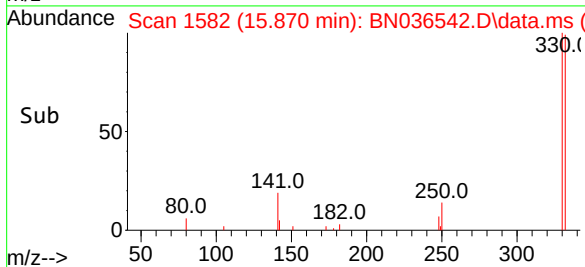
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

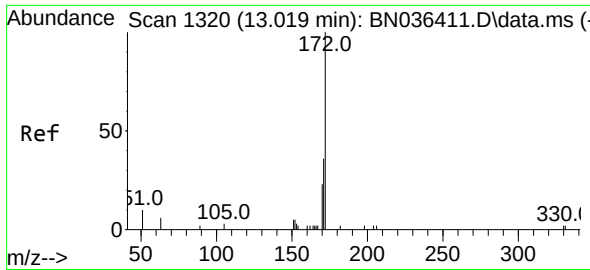


#14
2,4,6-Tribromophenol
Concen: 0.295 ng
RT: 15.870 min Scan# 1582
Delta R.T. 0.013 min
Lab File: BN036542.D
Acq: 06 Mar 2025 19:37



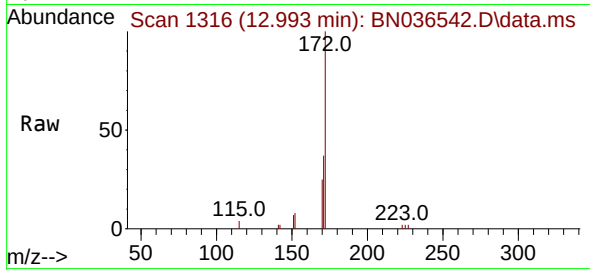
Tgt Ion:330 Resp: 404
Ion Ratio Lower Upper
330 100
332 101.5 76.6 114.8
141 49.3 37.8 56.8





#15
2-Fluorobiphenyl
Concen: 0.627 ng
RT: 12.993 min Scan# 11
Delta R.T. 0.005 min
Lab File: BN036542.D
Acq: 06 Mar 2025 19:37

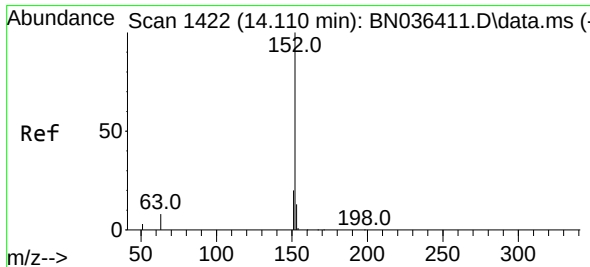
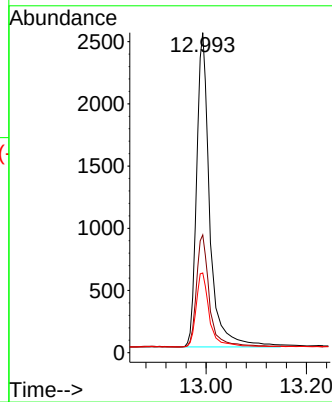
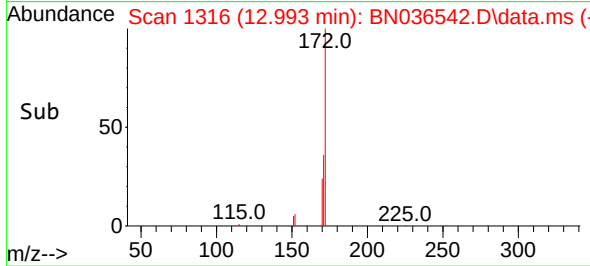
Instrument :
BNA_N
ClientSampleId :
PB167006BS



Tgt Ion:172 Resp: 6500
Ion Ratio Lower Upper
172 100
171 36.8 29.6 44.4
170 24.9 19.8 29.6

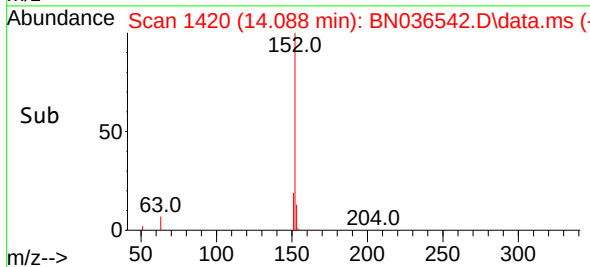
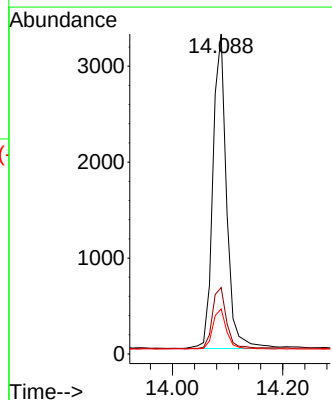
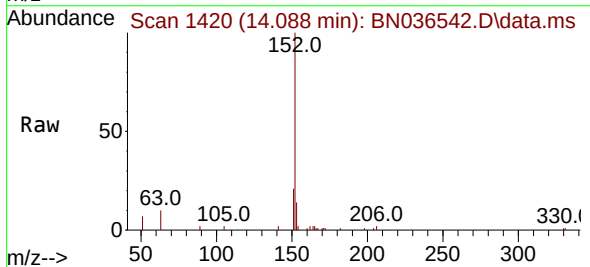
Manual Integrations
APPROVED

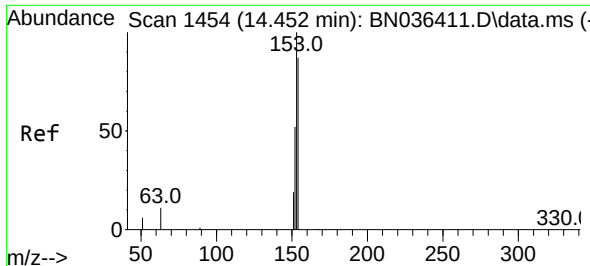
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025



#16
Acenaphthylene
Concen: 0.464 ng
RT: 14.088 min Scan# 1420
Delta R.T. 0.011 min
Lab File: BN036542.D
Acq: 06 Mar 2025 19:37

Tgt Ion:152 Resp: 5660
Ion Ratio Lower Upper
152 100
151 20.4 15.8 23.8
153 12.7 10.2 15.2





#17

Acenaphthene

Concen: 0.433 ng

RT: 14.430 min Scan# 1452

Delta R.T. 0.000 min

Lab File: BN036542.D

Acq: 06 Mar 2025 19:37

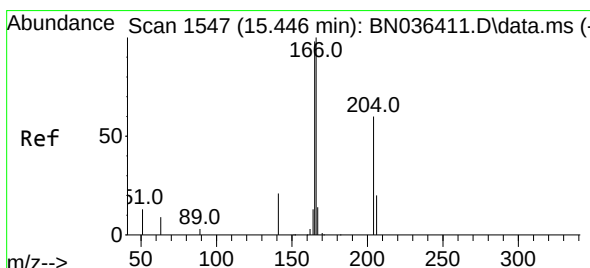
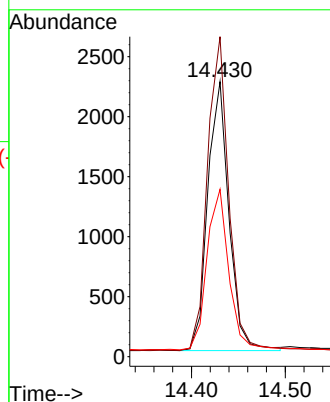
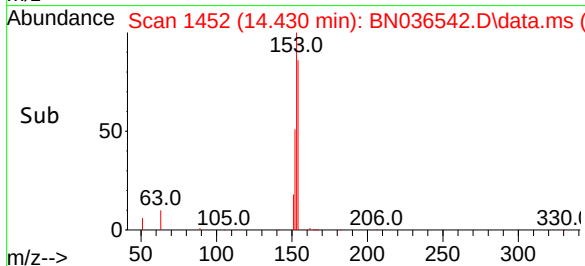
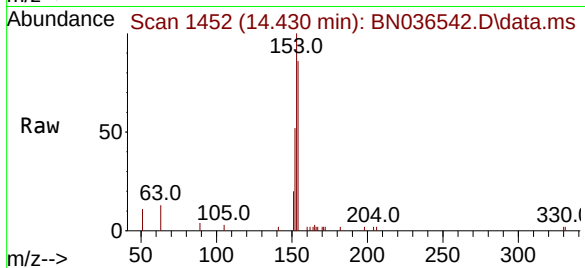
Instrument :

BNA_N

ClientSampleId :

PB167006BS

Tgt Ion:	154	Resp:	352
Ion Ratio	Lower	Upper	
154	100		
153	117.9	93.3	139.9
152	61.7	48.8	73.2

Manual Integrations
APPROVEDReviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

#18

Fluorene

Concen: 0.405 ng

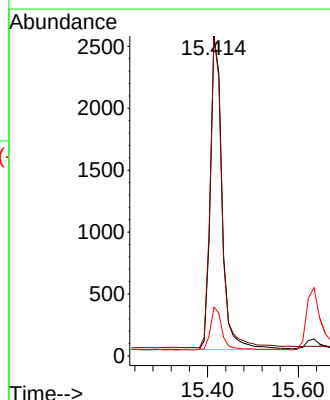
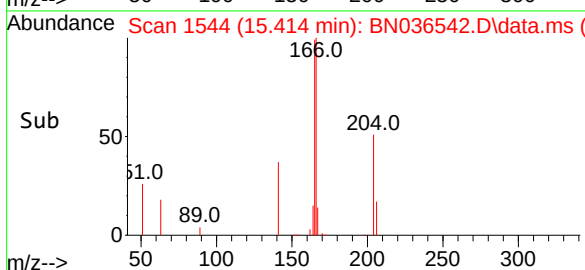
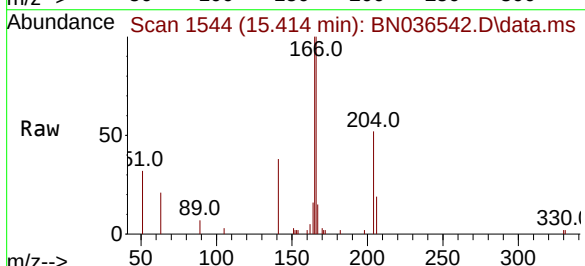
RT: 15.414 min Scan# 1544

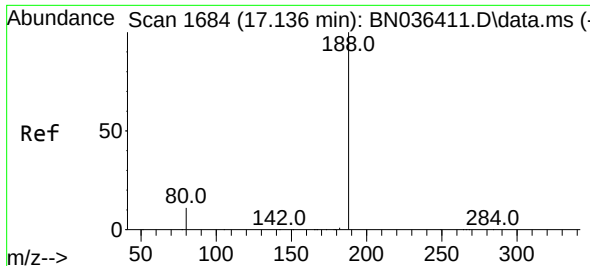
Delta R.T. 0.000 min

Lab File: BN036542.D

Acq: 06 Mar 2025 19:37

Tgt Ion:	166	Resp:	4696
Ion Ratio	Lower	Upper	
166	100		
165	99.1	79.5	119.3
167	13.8	10.4	15.6





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.111 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036542.D

Acq: 06 Mar 2025 19:37

Instrument :

BNA_N

ClientSampleId :

PB167006BS

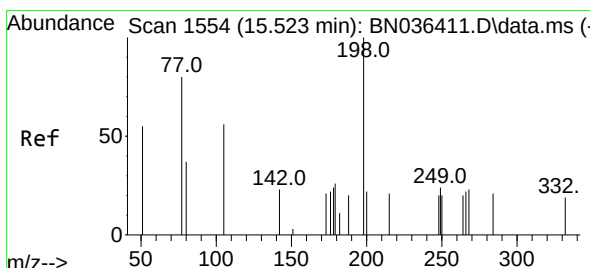
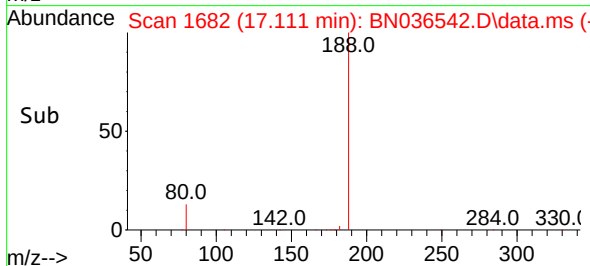
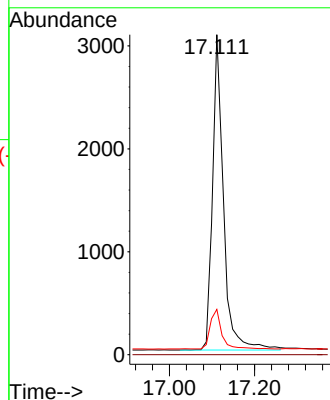
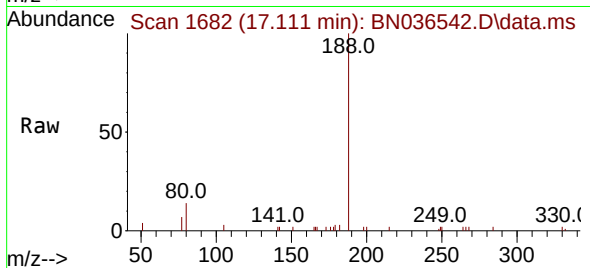
Tgt Ion:	188	Resp:	548
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	14.2	9.8	14.6

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/07/2025

Supervised By :Jagrut Upadhyay 03/07/2025



#20

4,6-Dinitro-2-methylphenol

Concen: 0.298 ng

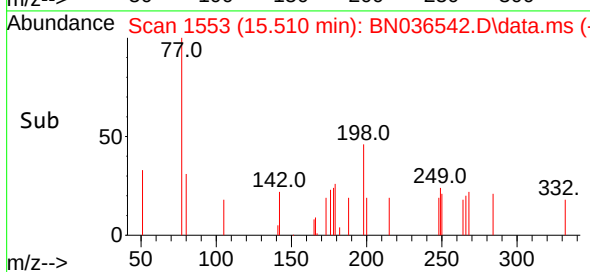
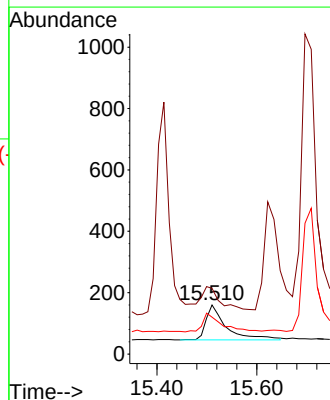
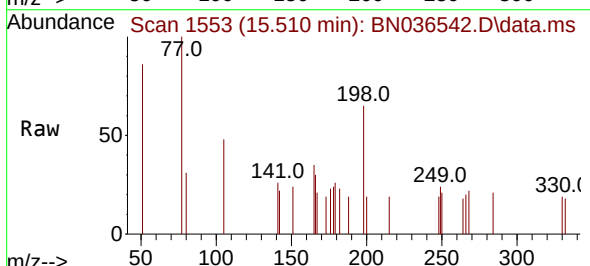
RT: 15.510 min Scan# 1553

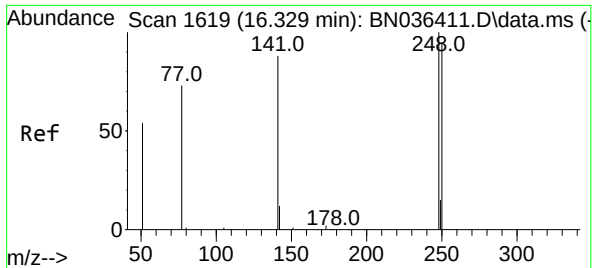
Delta R.T. 0.011 min

Lab File: BN036542.D

Acq: 06 Mar 2025 19:37

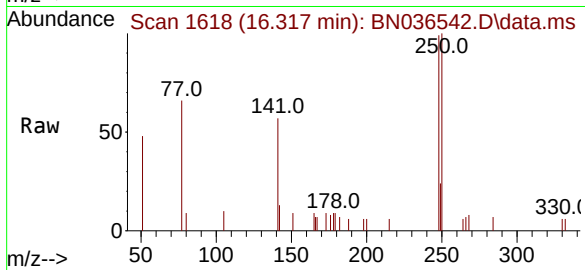
Tgt Ion:	198	Resp:	321
Ion Ratio	Lower	Upper	
198	100		
51	133.8	86.6	129.8
105	75.0	57.5	86.3





#21
4-Bromophenyl-phenylether
Concen: 0.413 ng
RT: 16.317 min Scan# 1618
Delta R.T. 0.012 min
Lab File: BN036542.D
Acq: 06 Mar 2025 19:37

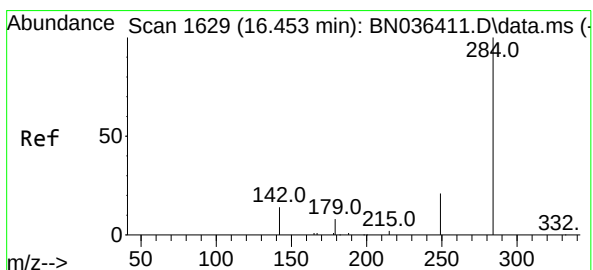
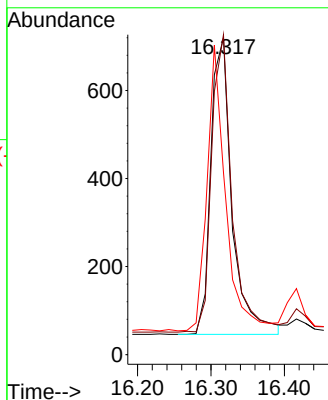
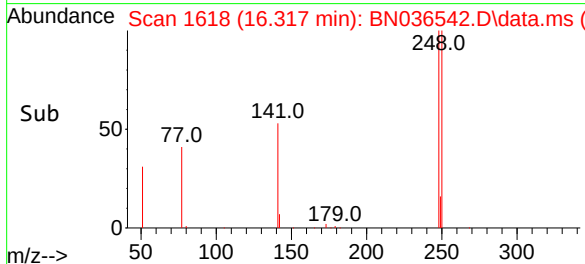
Instrument :
BNA_N
ClientSampleId :
PB167006BS



Tgt Ion:248 Resp: 135
Ion Ratio Lower Upper
248 100
250 101.0 76.1 114.1
141 57.5 71.7 107.5

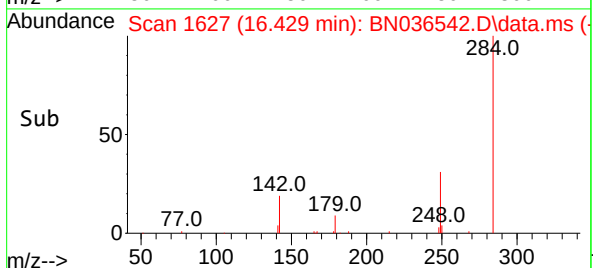
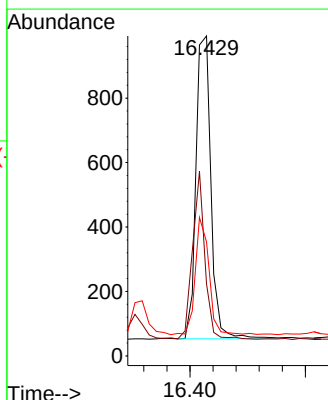
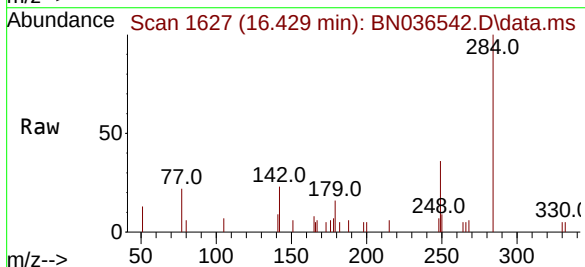
Manual Integrations
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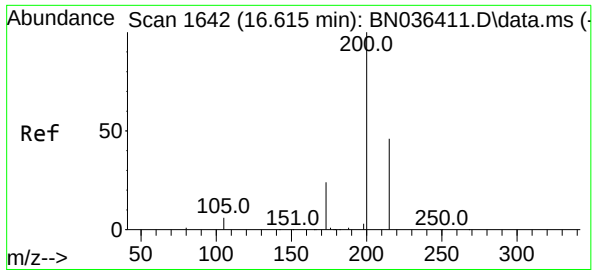
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025



#22
Hexachlorobenzene
Concen: 0.421 ng
RT: 16.429 min Scan# 1627
Delta R.T. 0.012 min
Lab File: BN036542.D
Acq: 06 Mar 2025 19:37

Tgt Ion:284 Resp: 1703
Ion Ratio Lower Upper
284 100
142 45.7 33.4 50.0
249 36.1 28.6 43.0





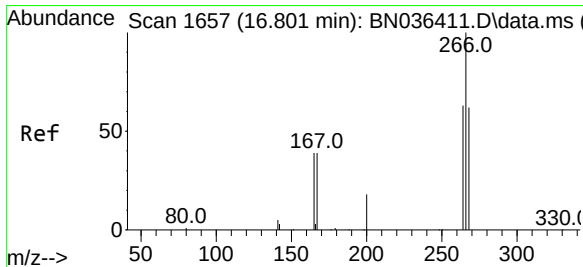
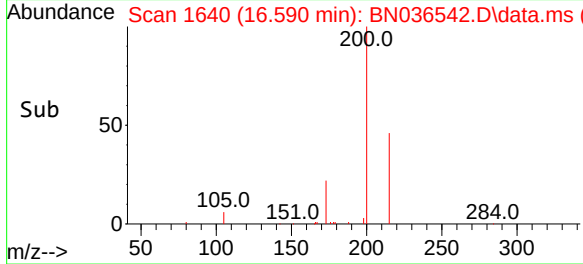
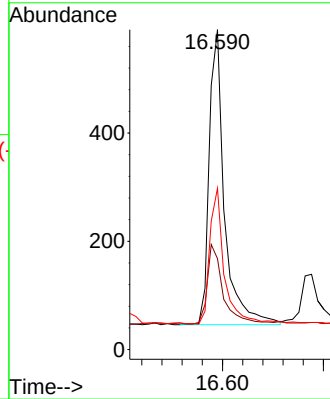
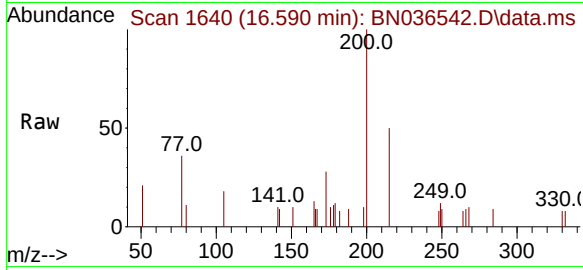
#23
Atrazine
Concen: 0.418 ng
RT: 16.590 min Scan# 1640
Delta R.T. 0.012 min
Lab File: BN036542.D
Acq: 06 Mar 2025 19:37

Instrument :
BNA_N
ClientSampleId :
PB167006BS

Tgt Ion:200 Resp: 114
Ion Ratio Lower Upper
200 100
173 28.4 23.2 34.8
215 50.4 40.0 60.0

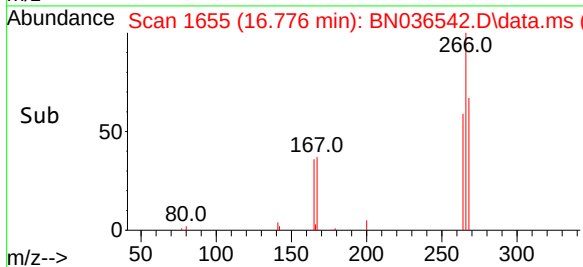
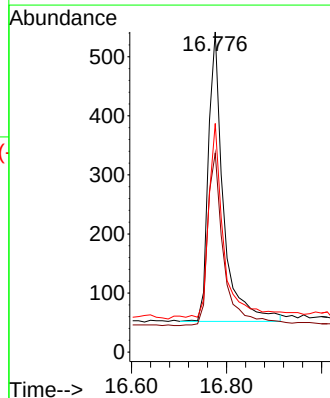
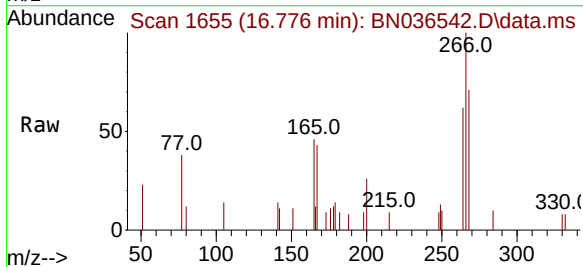
Manual Integrations
APPROVED

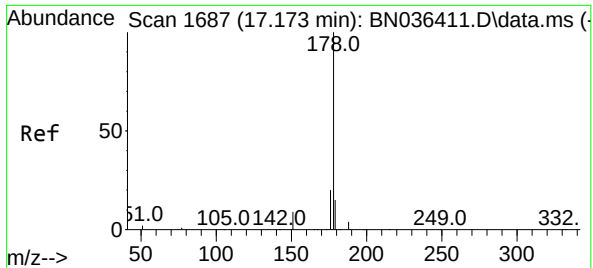
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025



#24
Pentachlorophenol
Concen: 0.566 ng
RT: 16.776 min Scan# 1655
Delta R.T. 0.012 min
Lab File: BN036542.D
Acq: 06 Mar 2025 19:37

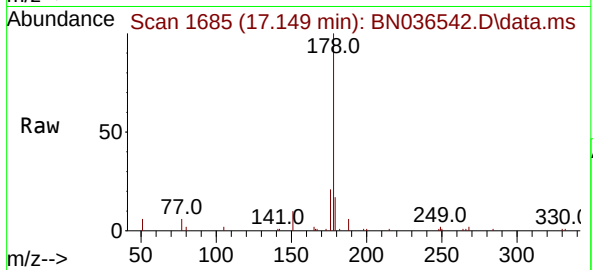
Tgt Ion:266 Resp: 1086
Ion Ratio Lower Upper
266 100
264 63.4 50.6 76.0
268 64.6 51.9 77.9





#25
Phenanthrene
Concen: 0.441 ng
RT: 17.149 min Scan# 1685
Delta R.T. 0.000 min
Lab File: BN036542.D
Acq: 06 Mar 2025 19:37

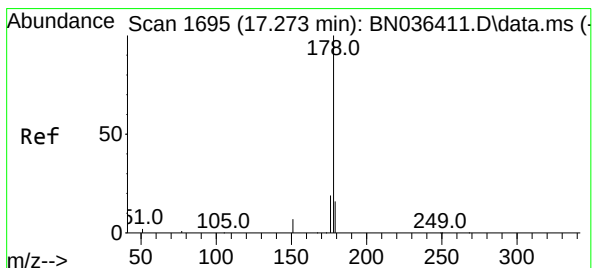
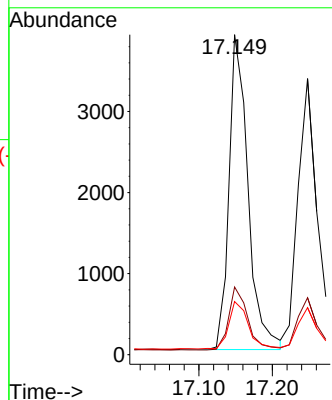
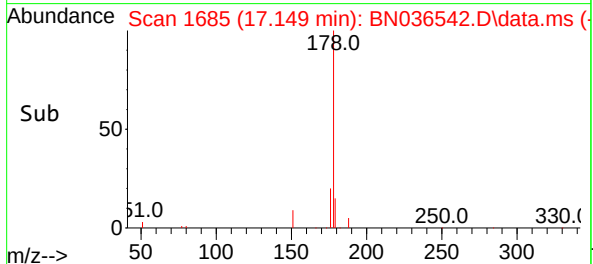
Instrument :
BNA_N
ClientSampleId :
PB167006BS



Tgt Ion:178 Resp: 699
Ion Ratio Lower Upper
178 100
176 20.1 15.7 23.5
179 15.7 12.4 18.6

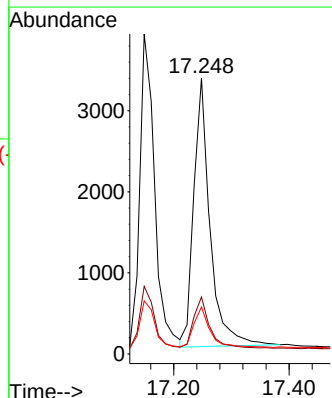
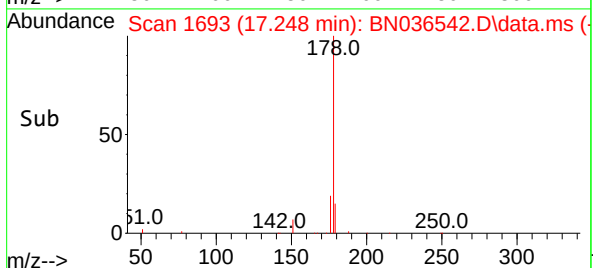
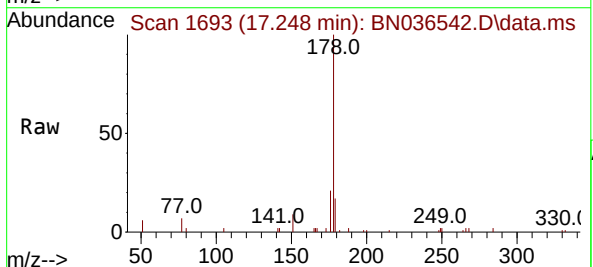
Manual Integrations
APPROVED

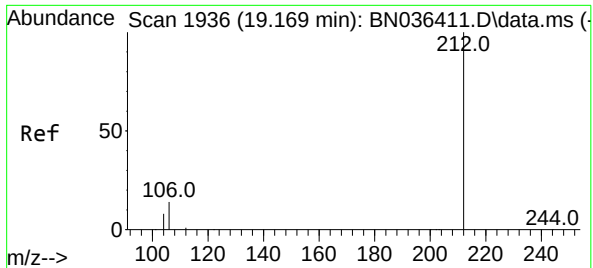
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025



#26
Anthracene
Concen: 0.464 ng
RT: 17.248 min Scan# 1693
Delta R.T. 0.012 min
Lab File: BN036542.D
Acq: 06 Mar 2025 19:37

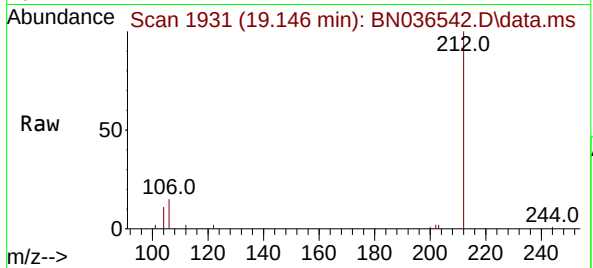
Tgt Ion:178 Resp: 6486
Ion Ratio Lower Upper
178 100
176 19.3 14.9 22.3
179 15.3 12.4 18.6





#27
Fluoranthene-d10
Concen: 0.380 ng
RT: 19.146 min Scan# 1931
Delta R.T. 0.005 min
Lab File: BN036542.D
Acq: 06 Mar 2025 19:37

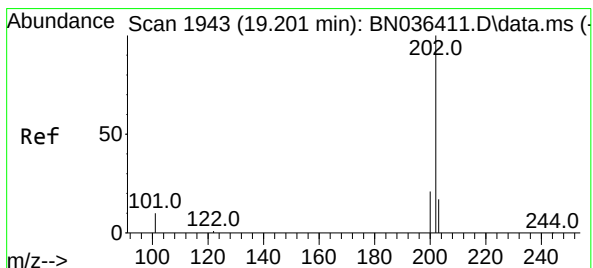
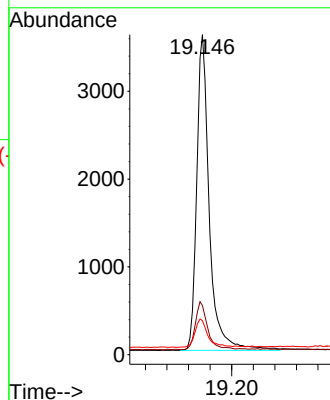
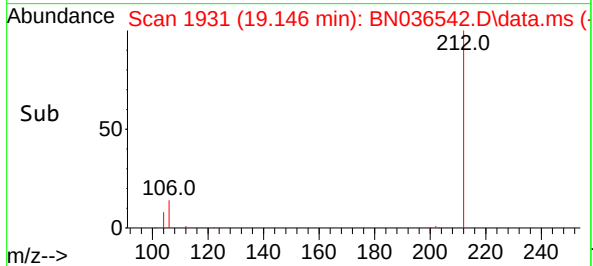
Instrument :
BNA_N
ClientSampleId :
PB167006BS



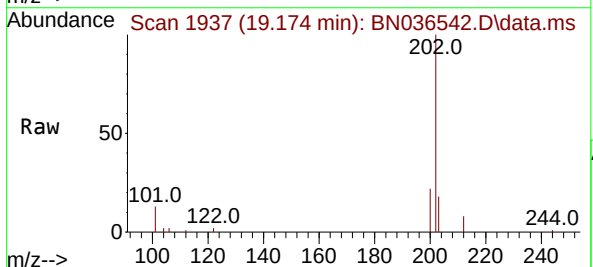
Tgt Ion:212 Resp: 580
Ion Ratio Lower Upper
212 100
106 14.7 11.5 17.3
104 9.0 7.1 10.7

Manual Integrations
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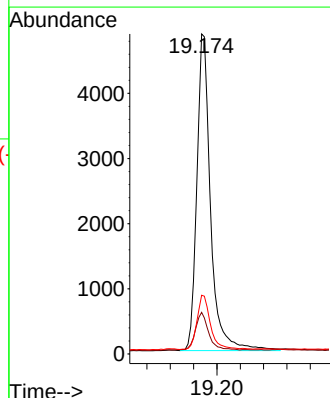
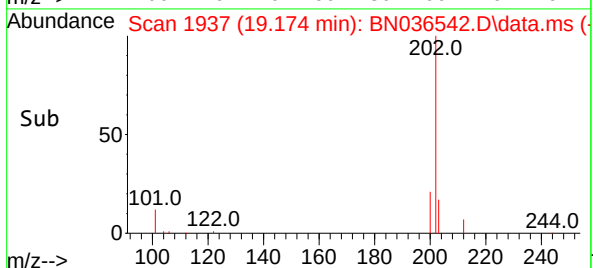
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

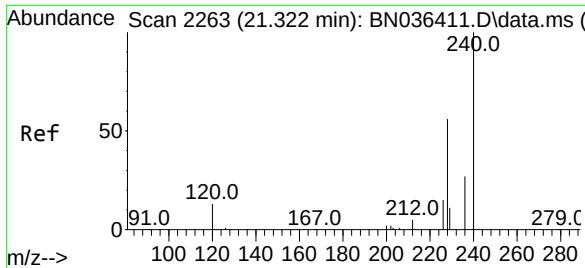


#28
Fluoranthene
Concen: 0.407 ng
RT: 19.174 min Scan# 1937
Delta R.T. 0.000 min
Lab File: BN036542.D
Acq: 06 Mar 2025 19:37



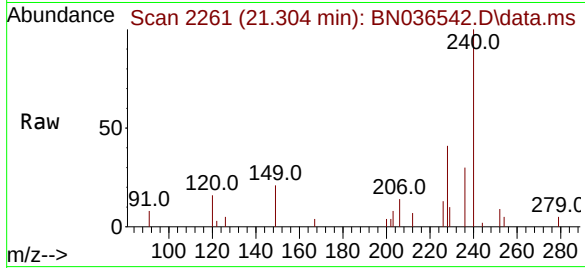
Tgt Ion:202 Resp: 7938
Ion Ratio Lower Upper
202 100
101 11.3 9.2 13.8
203 16.6 13.4 20.0





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.304 min Scan# 21
Delta R.T. 0.009 min
Lab File: BN036542.D
Acq: 06 Mar 2025 19:37

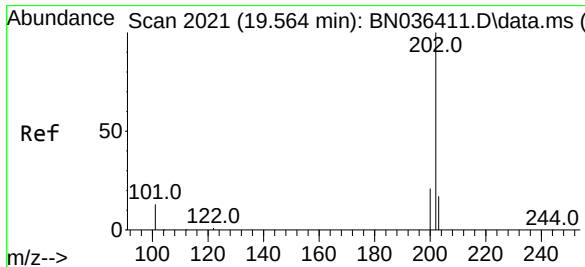
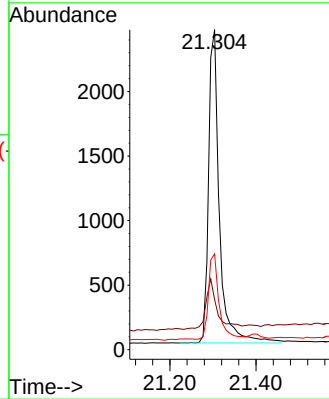
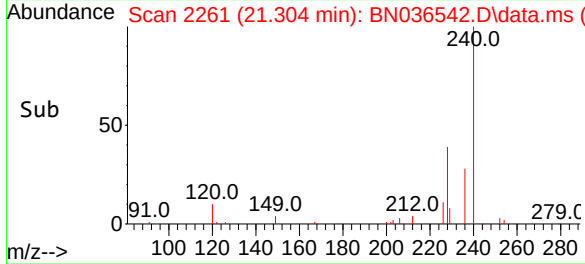
Instrument :
BNA_N
ClientSampleId :
PB167006BS



Tgt Ion:240 Resp: 4244
Ion Ratio Lower Upper
240 100
120 15.7 13.3 19.9
236 30.0 23.0 34.6

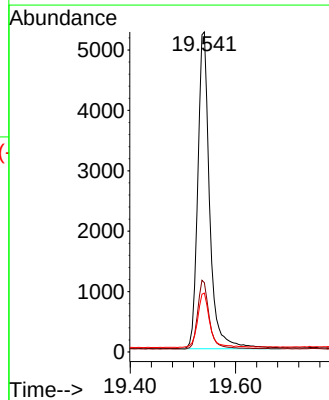
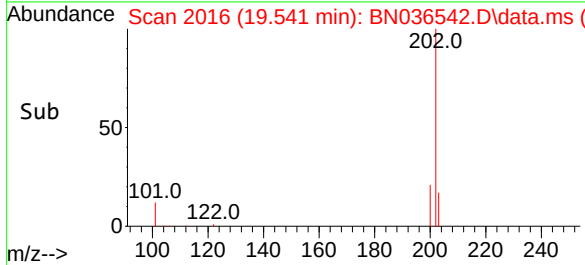
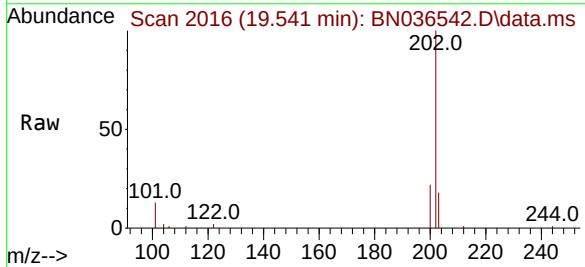
Manual Integrations
APPROVED

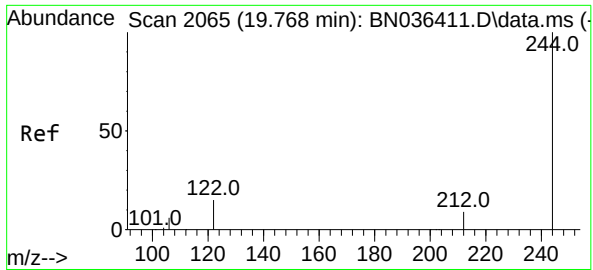
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025



#30
Pyrene
Concen: 0.503 ng
RT: 19.541 min Scan# 2016
Delta R.T. 0.005 min
Lab File: BN036542.D
Acq: 06 Mar 2025 19:37

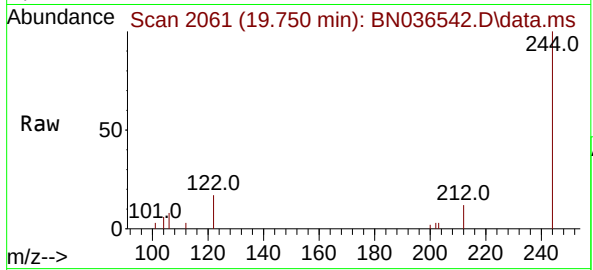
Tgt Ion:202 Resp: 8220
Ion Ratio Lower Upper
202 100
200 21.5 16.9 25.3
203 17.6 13.9 20.9





#31
Terphenyl-d14
Concen: 0.459 ng
RT: 19.750 min Scan# 2065
Delta R.T. 0.005 min
Lab File: BN036542.D
Acq: 06 Mar 2025 19:37

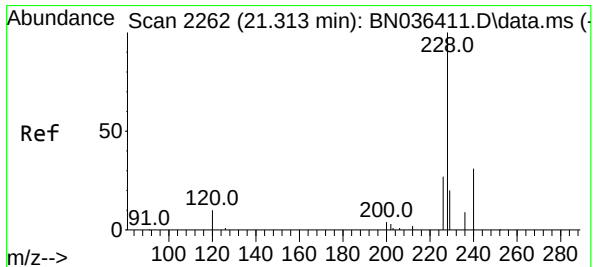
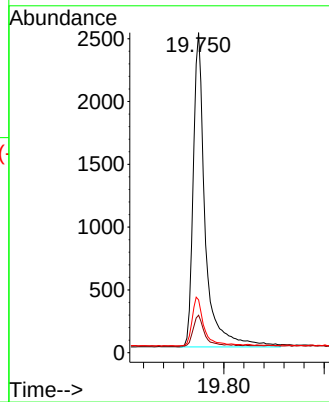
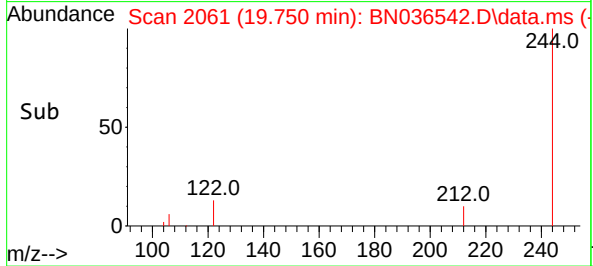
Instrument :
BNA_N
ClientSampleId :
PB167006BS



Tgt Ion:244 Resp: 4159
Ion Ratio Lower Upper
244 100
212 11.7 8.1 12.1
122 16.5 12.8 19.2

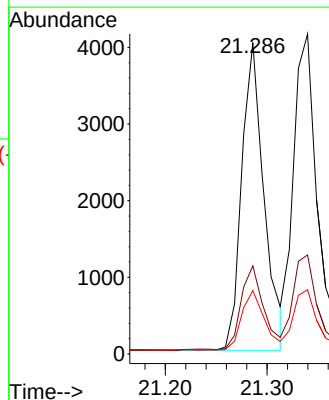
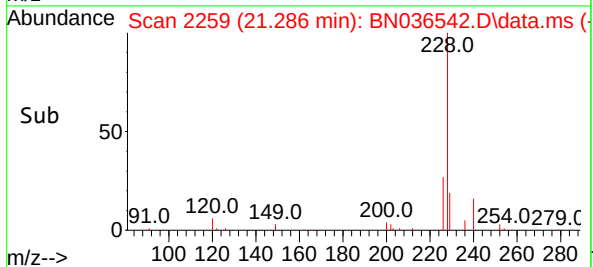
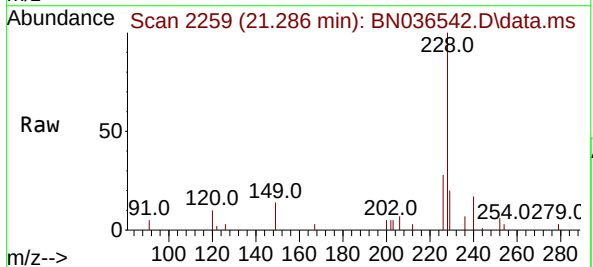
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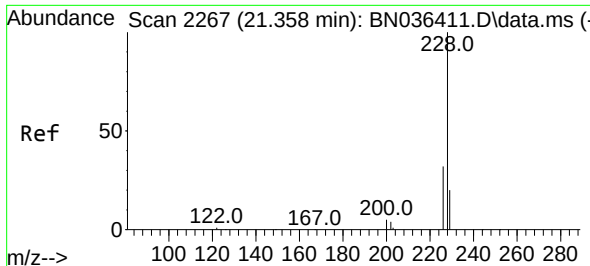
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025



#32
Benzo(a)anthracene
Concen: 0.437 ng
RT: 21.286 min Scan# 2259
Delta R.T. 0.009 min
Lab File: BN036542.D
Acq: 06 Mar 2025 19:37

Tgt Ion:228 Resp: 6100
Ion Ratio Lower Upper
228 100
226 28.3 22.2 33.2
229 20.3 16.5 24.7





#33

Chrysene

Concen: 0.477 ng

RT: 21.340 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN036542.D

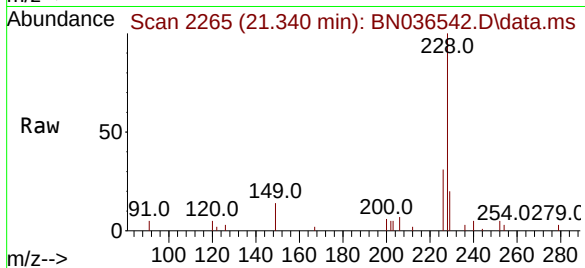
Acq: 06 Mar 2025 19:37

Instrument :

BNA_N

ClientSampleId :

PB167006BS



Tgt Ion:228 Resp: 721

Ion Ratio Lower Upper

228 100

226 31.0 25.5 38.3

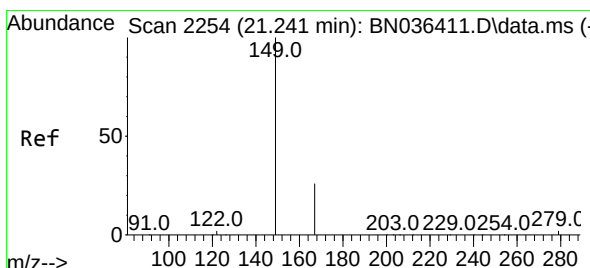
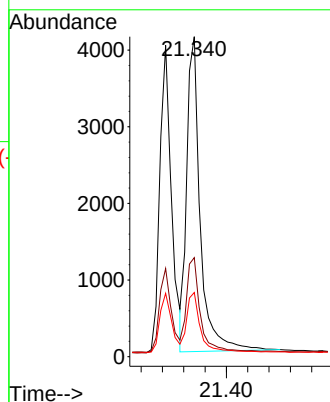
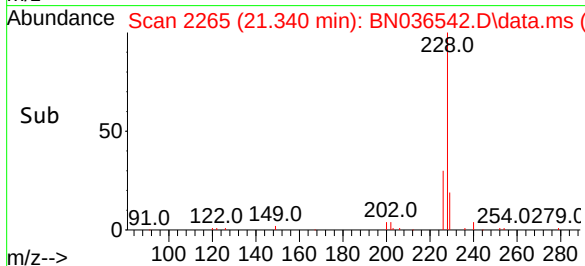
229 20.0 16.4 24.6

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/07/2025

Supervised By :Jagrut Upadhyay 03/07/2025



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.418 ng

RT: 21.214 min Scan# 2251

Delta R.T. 0.000 min

Lab File: BN036542.D

Acq: 06 Mar 2025 19:37

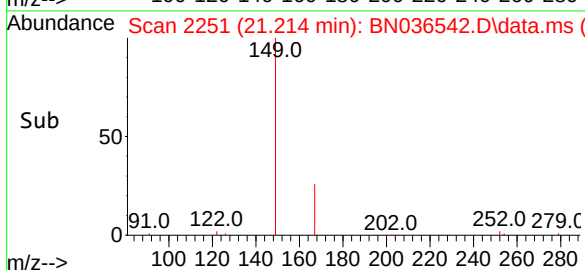
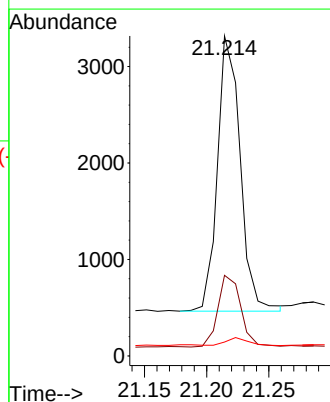
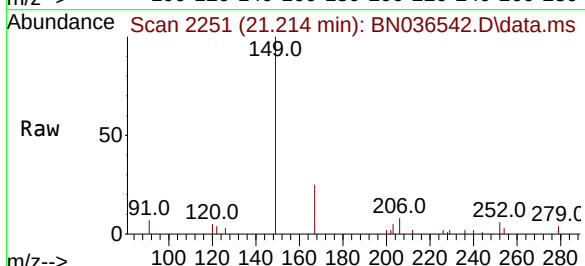
Tgt Ion:149 Resp: 3633

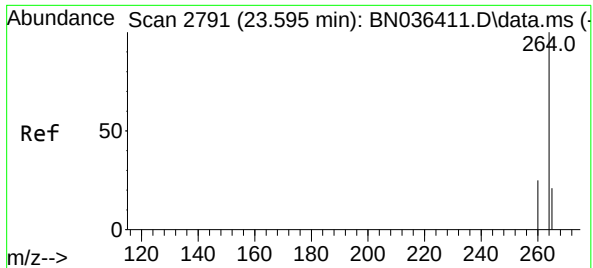
Ion Ratio Lower Upper

149 100

167 26.7 21.2 31.8

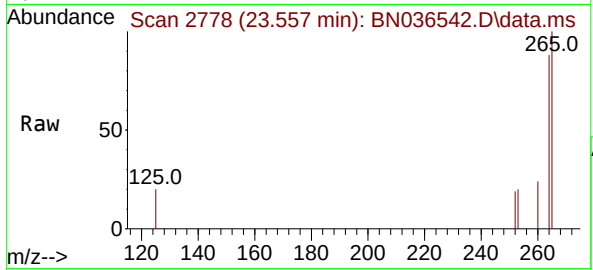
279 2.7 2.7 4.1#





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.557 min Scan# 21
Delta R.T. 0.006 min
Lab File: BN036542.D
Acq: 06 Mar 2025 19:37

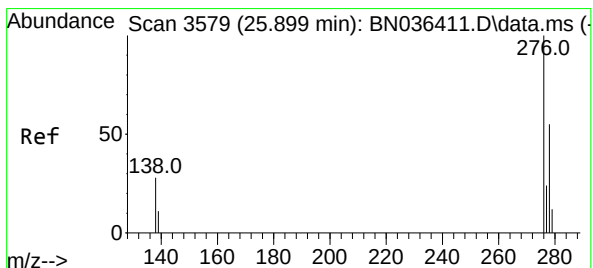
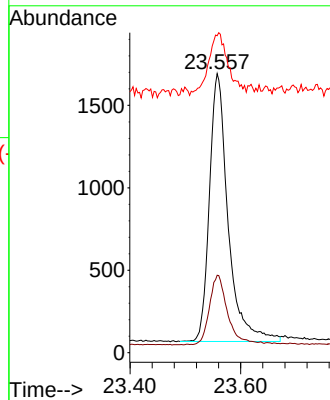
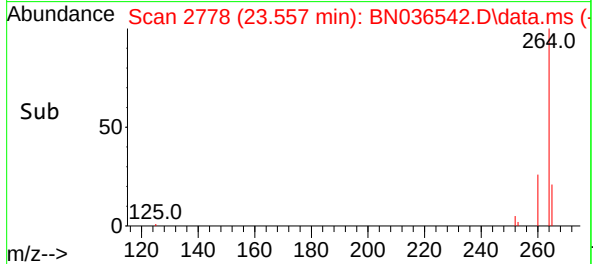
Instrument :
BNA_N
ClientSampleId :
PB167006BS



Tgt Ion:264 Resp: 3800
Ion Ratio Lower Upper
264 100
260 27.8 20.9 31.3
265 113.6 60.7 91.1

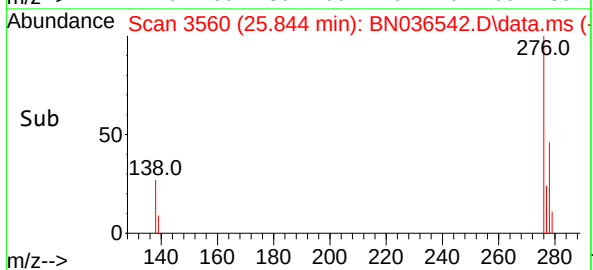
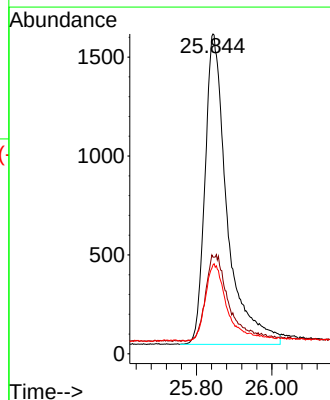
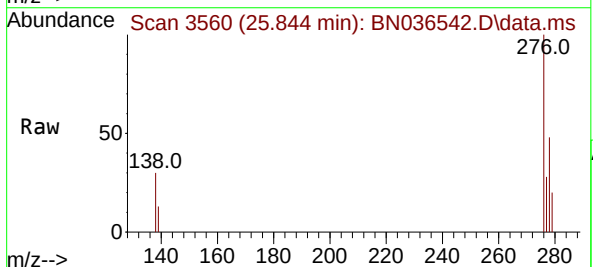
Manual Integrations
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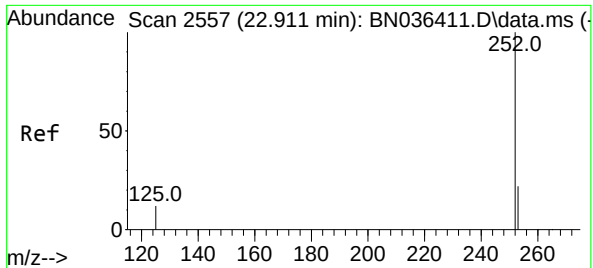
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.481 ng
RT: 25.844 min Scan# 3560
Delta R.T. 0.006 min
Lab File: BN036542.D
Acq: 06 Mar 2025 19:37

Tgt Ion:276 Resp: 6400
Ion Ratio Lower Upper
276 100
138 11.3 22.2 33.2#
277 23.4 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.465 ng

RT: 22.876 min Scan# 2545

Delta R.T. 0.003 min

Lab File: BN036542.D

Acq: 06 Mar 2025 19:37

Instrument :

BNA_N

ClientSampleId :

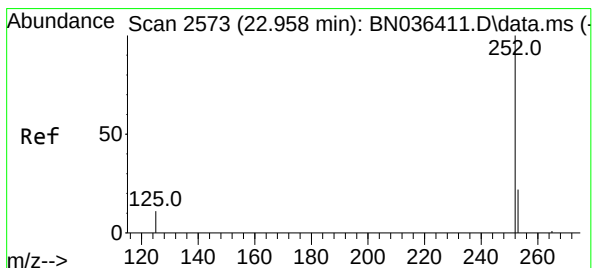
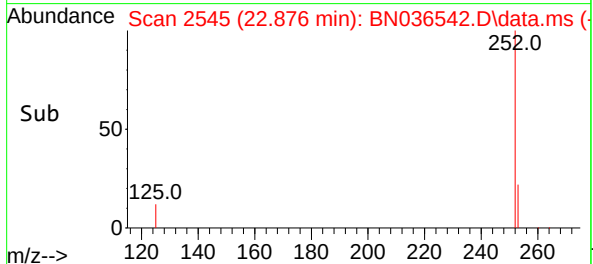
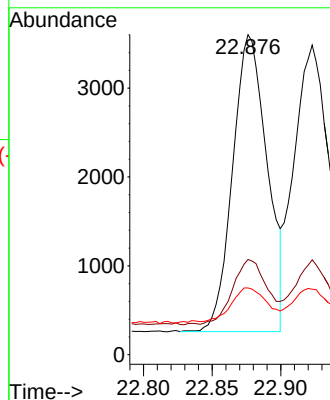
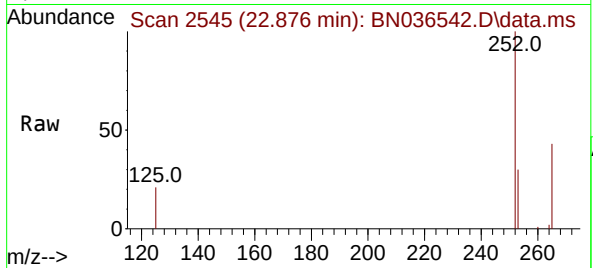
PB167006BS

Tgt Ion:	252	Resp:	5830
Ion Ratio	Lower	Upper	
252	100		
253	29.7	21.9	32.9
125	20.9	15.0	22.6

Manual Integrations

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Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025



#38

Benzo(k)fluoranthene

Concen: 0.495 ng

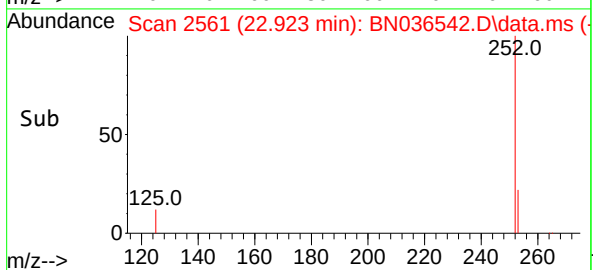
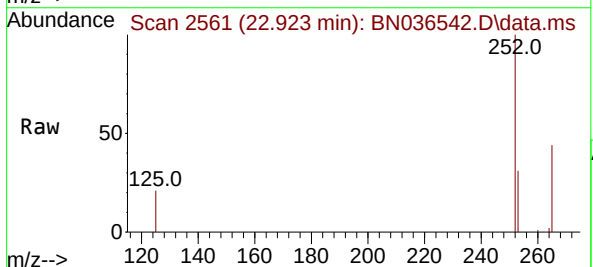
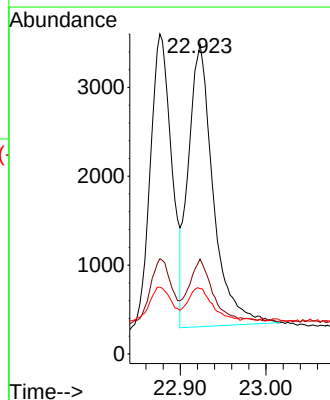
RT: 22.923 min Scan# 2561

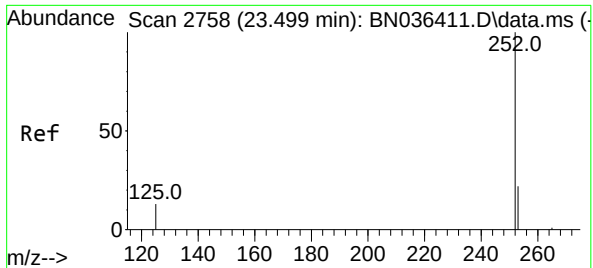
Delta R.T. 0.006 min

Lab File: BN036542.D

Acq: 06 Mar 2025 19:37

Tgt Ion:	252	Resp:	6394
Ion Ratio	Lower	Upper	
252	100		
253	30.6	22.2	33.4
125	21.2	15.0	22.4





#39

Benzo(a)pyrene

Concen: 0.504 ng

RT: 23.461 min Scan# 21

Delta R.T. 0.006 min

Lab File: BN036542.D

Acq: 06 Mar 2025 19:37

Instrument :

BNA_N

ClientSampleId :

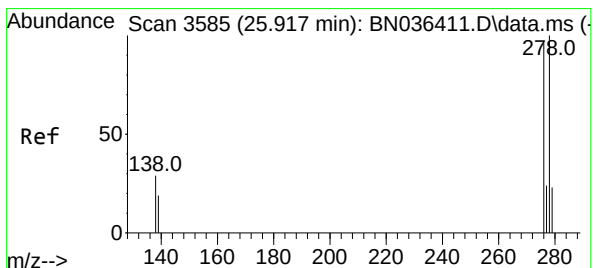
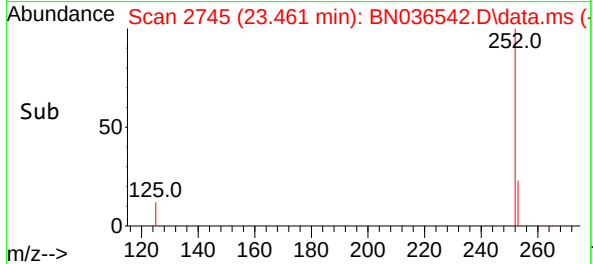
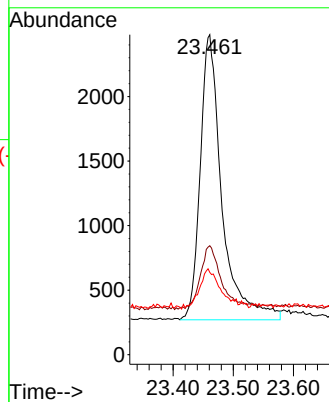
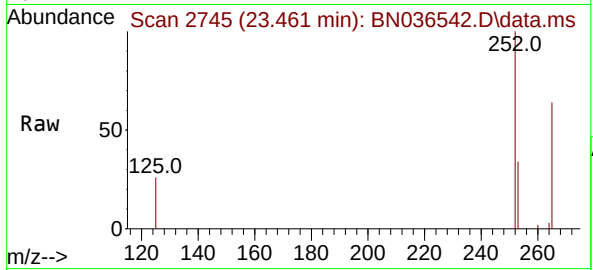
PB167006BS

Tgt Ion:	252	Resp:	552
Ion Ratio	Lower	Upper	
252	100		
253	34.0	24.4	36.6
125	25.7	18.2	27.2

Manual Integrations

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Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025



#40

Dibenzo(a,h)anthracene

Concen: 0.462 ng

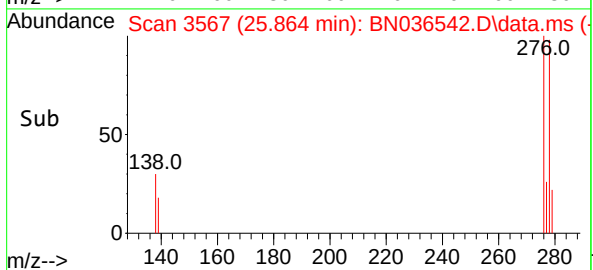
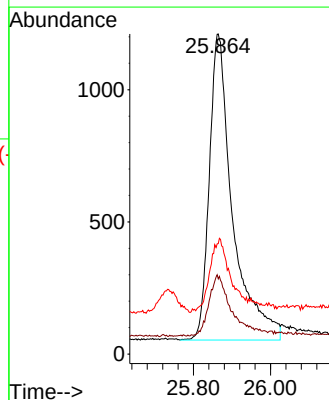
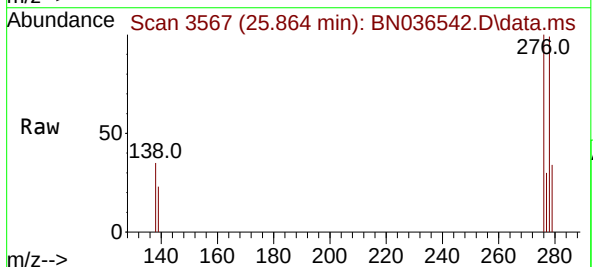
RT: 25.864 min Scan# 3567

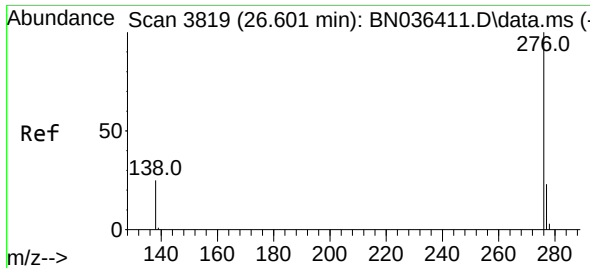
Delta R.T. 0.012 min

Lab File: BN036542.D

Acq: 06 Mar 2025 19:37

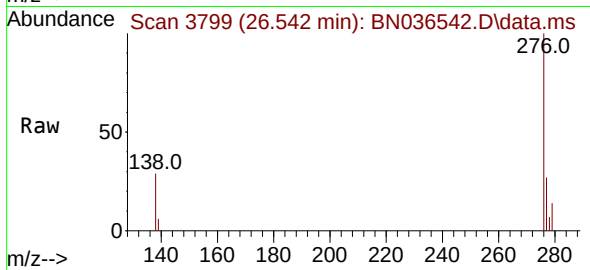
Tgt Ion:	278	Resp:	4852
Ion Ratio	Lower	Upper	
278	100		
139	23.5	18.5	27.7
279	34.5	24.8	37.2





#41
Benzo(g,h,i)perylene
Concen: 0.434 ng
RT: 26.542 min Scan# 31
Delta R.T. 0.015 min
Lab File: BN036542.D
Acq: 06 Mar 2025 19:37

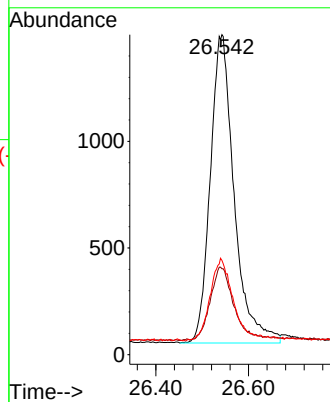
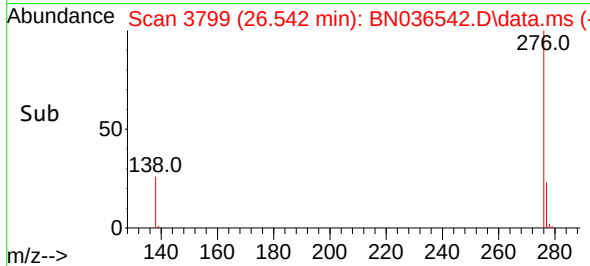
Instrument :
BNA_N
ClientSampleId :
PB167006BS



Tgt Ion: 276 Resp: 516
Ion Ratio Lower Upper
276 100
277 26.9 20.7 31.1
138 29.5 21.8 32.6

Manual Integrations
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Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025



Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	03/05/25
Project:	Former Schlumberger STC PTC Site # D3868221	Date Received:	03/05/25
Client Sample ID:	BR-05-465-030525MS	SDG No.:	Q1501
Lab Sample ID:	Q1501-05MS	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
BN036537.D	1	03/06/25 08:26	03/06/25 16:36	PB167006

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
123-91-1	1,4-Dioxane	0.85		0.070	0.21	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.32		30 (20) - 150 (139)	80%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.44		30 (30) - 150 (150)	110%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.36		30 (27) - 130 (154)	90%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.58	*	30 (25) - 130 (149)	146%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.59	*	30 (54) - 130 (175)	148%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	2380	7.724			
1146-65-2	Naphthalene-d8	5950	10.52			
15067-26-2	Acenaphthene-d10	3670	14.366			
1517-22-2	Phenanthrene-d10	7250	17.111			
1719-03-5	Chrysene-d12	6500	21.295			
1520-96-3	Perylene-d12	5630	23.554			

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\BN030625\
 Data File : BN036537.D
 Acq On : 06 Mar 2025 16:36
 Operator : RC/JU
 Sample : Q1501-05MS
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 BR-05-465-030525MS

Quant Time: Mar 06 17:04:20 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 05 16:08:57 2025
 Response via : Initial Calibration

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

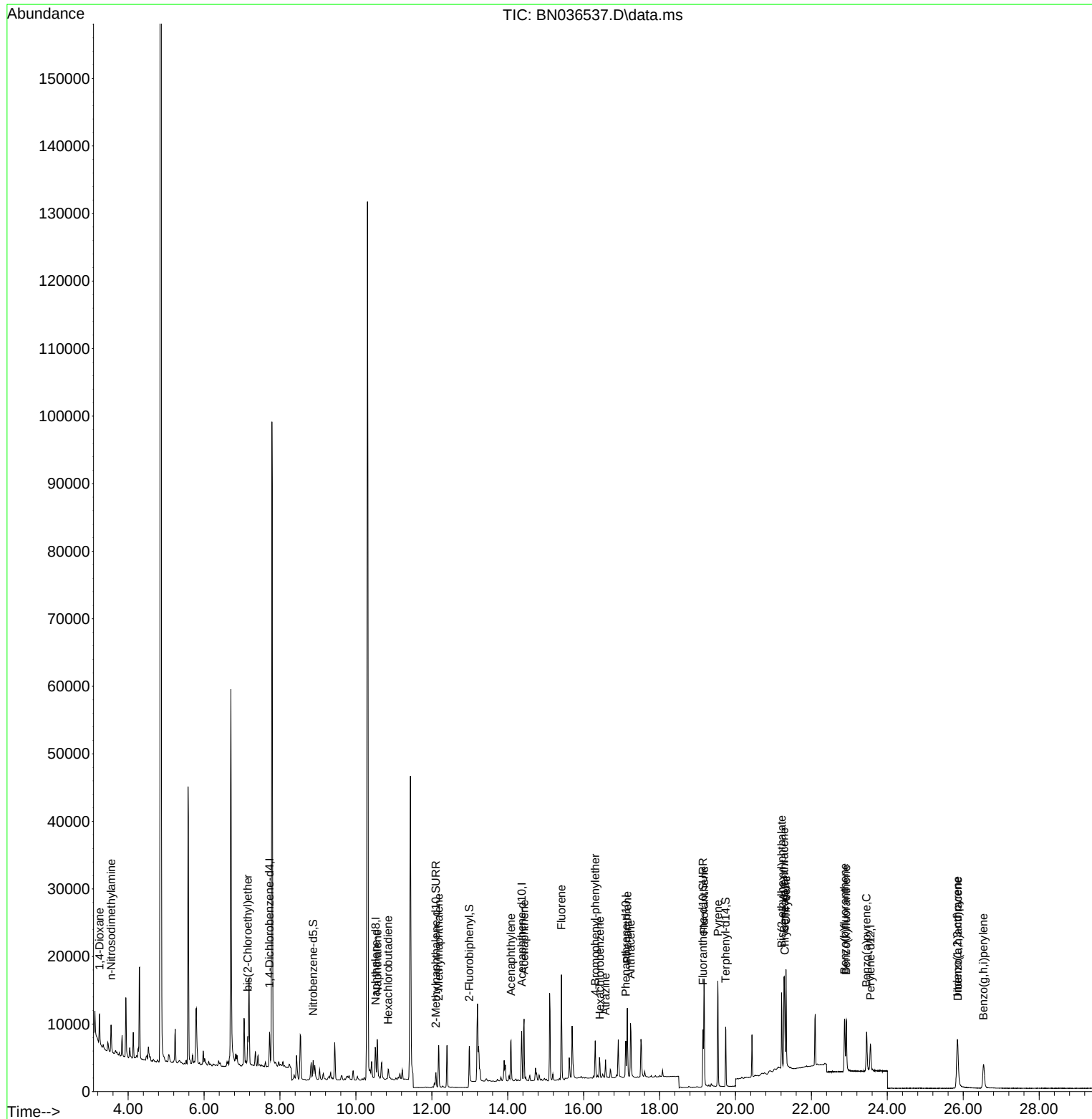
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2381	0.400	ng	0.00
7) Naphthalene-d8	10.520	136	5953	0.400	ng	# 0.01
13) Acenaphthene-d10	14.366	164	3666	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	7245	0.400	ng	0.00
29) Chrysene-d12	21.295	240	6501	0.400	ng	0.00
35) Perylene-d12	23.554	264	5628	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	0.000	112	0d	0.000	ng	
5) Phenol-d6	0.000	99	0d	0.000	ng	
8) Nitrobenzene-d5	8.875	82	2127	0.362	ng	0.00
11) 2-Methylnaphthalene-d10	12.106	152	2931	0.320	ng	0.00
14) 2,4,6-Tribromophenol	0.000	330	0d	0.000	ng	
15) 2-Fluorobiphenyl	12.988	172	8027	0.582	ng	0.00
27) Fluoranthene-d10	19.141	212	8866	0.440	ng	0.00
31) Terphenyl-d14	19.740	244	8231	0.593	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.247	88	2135	0.820	ng	# 79
3) n-Nitrosodimethylamine	3.550	42	1256	0.278	ng	# 74
6) bis(2-Chloroethyl)ether	7.154	93	3027	0.438	ng	94
9) Naphthalene	10.562	128	6667	0.388	ng	99
10) Hexachlorobutadiene	10.850	225	1241	0.297	ng	# 99
12) 2-Methylnaphthalene	12.182	142	4359	0.387	ng	99
16) Acenaphthylene	14.088	152	7085	0.438	ng	99
17) Acenaphthene	14.430	154	4453	0.412	ng	99
18) Fluorene	15.414	166	6274	0.407	ng	100
21) 4-Bromophenyl-phenylether	16.305	248	1947	0.451	ng	94
22) Hexachlorobenzene	16.429	284	2131	0.399	ng	96
23) Atrazine	16.578	200	1961	0.543	ng	95
25) Phenanthrene	17.149	178	10539	0.503	ng	100
26) Anthracene	17.235	178	9641	0.522	ng	99
28) Fluoranthene	19.174	202	13013	0.506	ng	# 93
30) Pyrene	19.536	202	13652	0.545	ng	99
32) Benzo(a)anthracene	21.277	228	11007	0.515	ng	98
33) Chrysene	21.331	228	11789	0.509	ng	99
34) Bis(2-ethylhexyl)phtha...	21.214	149	7502	0.563	ng	# 98
36) Indeno(1,2,3-cd)pyrene	25.844	276	9697	0.493	ng	98
37) Benzo(b)fluoranthene	22.873	252	9933	0.536	ng	99
38) Benzo(k)fluoranthene	22.917	252	10277	0.539	ng	97
39) Benzo(a)pyrene	23.452	252	8885	0.549	ng	98
40) Dibenzo(a,h)anthracene	25.858	278	7435	0.479	ng	96
41) Benzo(g,h,i)perylene	26.534	276	7669	0.436	ng	99

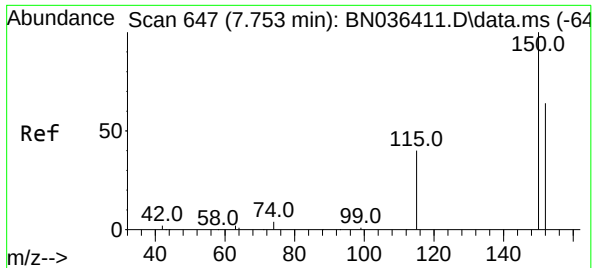
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Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN030625\
Data File : BN036537.D
Acq On : 06 Mar 2025 16:36
Operator : RC/JU
Sample : Q1501-05MS
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BR-05-465-030525MS

Quant Time: Mar 06 17:04:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 16:08:57 2025
Response via : Initial Calibration

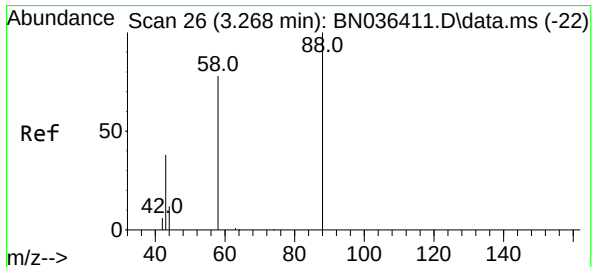
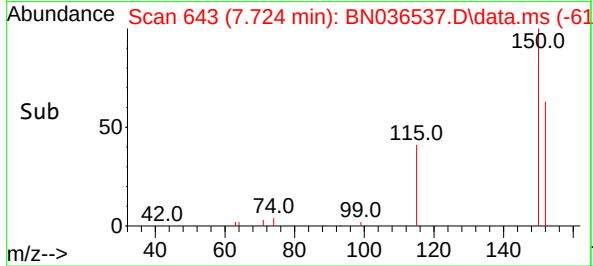
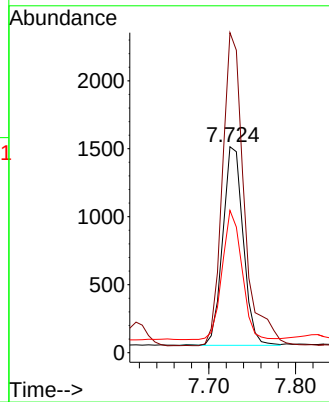
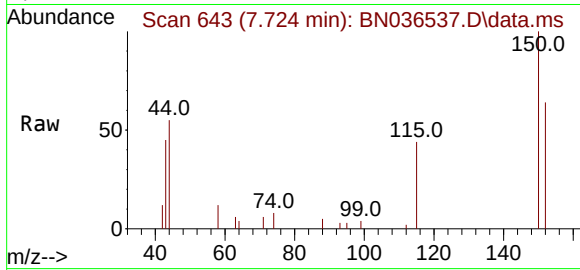




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. -0.008 min
Lab File: BN036537.D
Acq: 06 Mar 2025 16:36

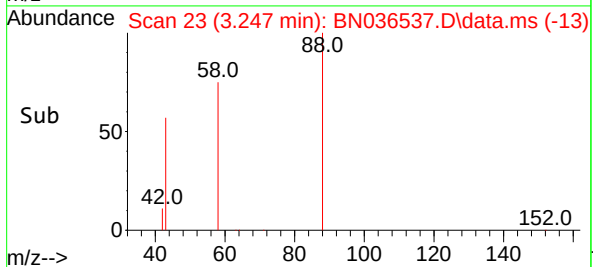
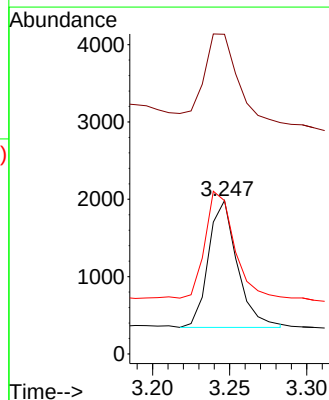
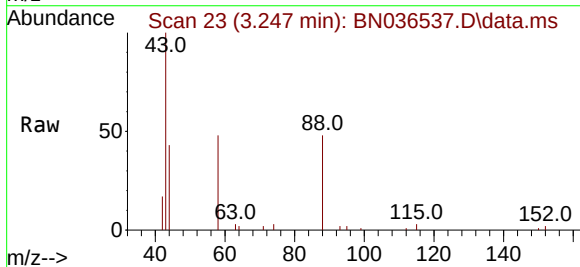
Instrument :
BNA_N
ClientSampleId :
BR-05-465-030525MS

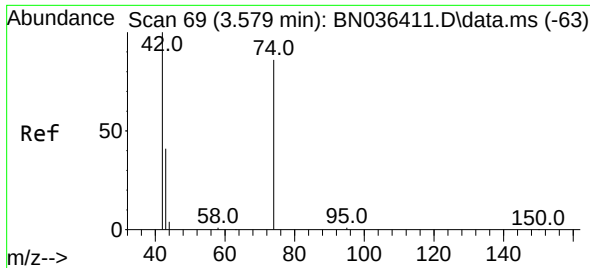
Tgt Ion:152 Resp: 2381
Ion Ratio Lower Upper
152 100
150 155.4 123.7 185.5
115 69.0 52.5 78.7



#2
1,4-Dioxane
Concen: 0.820 ng
RT: 3.247 min Scan# 23
Delta R.T. 0.000 min
Lab File: BN036537.D
Acq: 06 Mar 2025 16:36

Tgt Ion: 88 Resp: 2135
Ion Ratio Lower Upper
88 100
43 80.5 33.7 50.5#
58 84.5 68.9 103.3

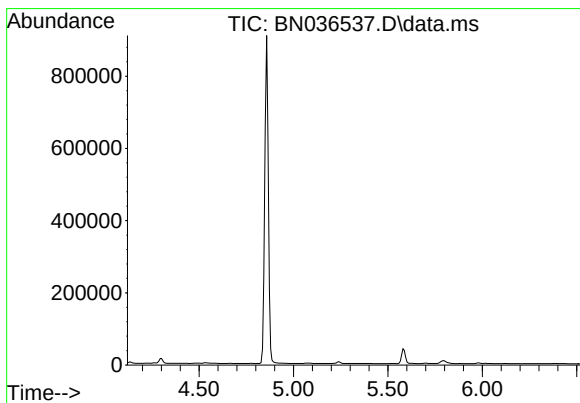
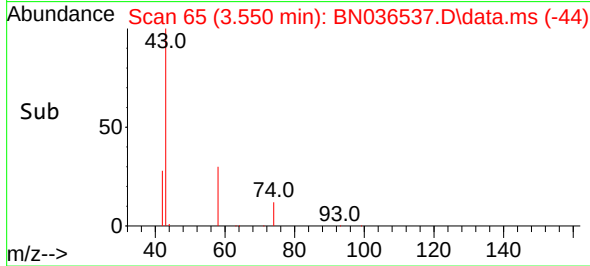
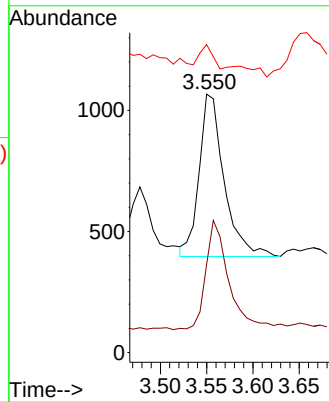
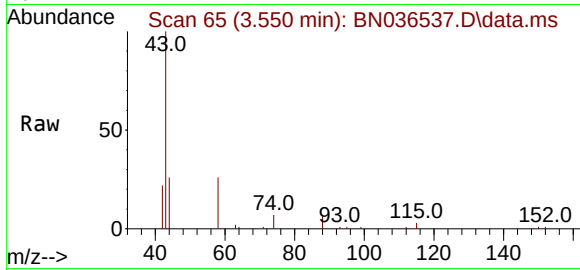




#3
n-Nitrosodimethylamine
Concen: 0.278 ng
RT: 3.550 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN036537.D
Acq: 06 Mar 2025 16:36

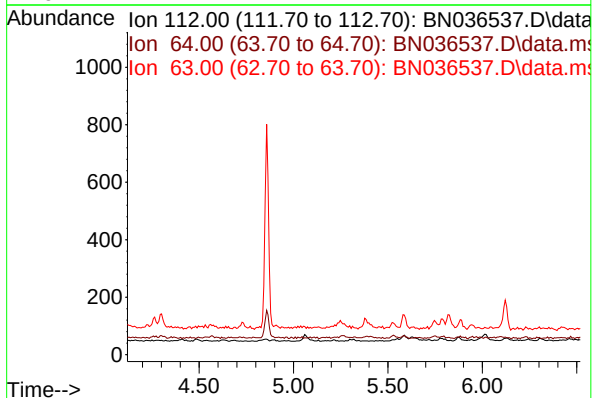
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ClientSampleId :
BR-05-465-030525MS

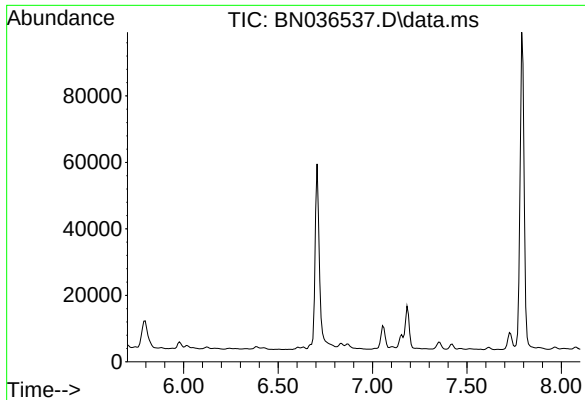
Tgt Ion: 42 Resp: 1256
Ion Ratio Lower Upper
42 100
74 63.3 71.8 107.6#
44 6.6 7.8 11.6#



#4
2-Fluorophenol
Concen: 0.000 ng
Expected RT: 5.32 min
Lab File: BN036537.D
Acq: 06 Mar 2025 16:36

Tgt Ion: 112
Sig Exp Ratio
112 100
64 66.7
63 37.9



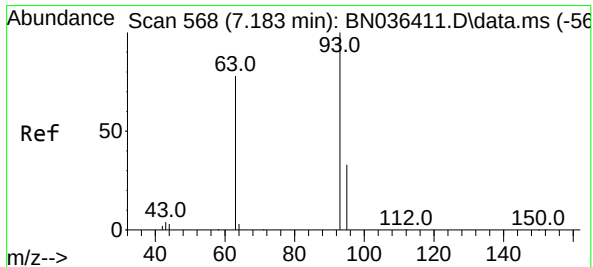
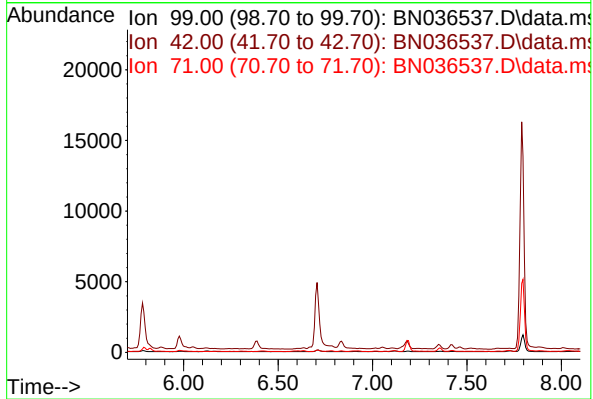


#5
Phenol-d6
Concen: 0.000 ng
Expected RT: 6.90 min

Lab File: BN036537.D
Acq: 06 Mar 2025 16:36

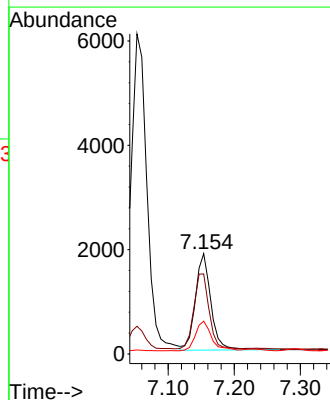
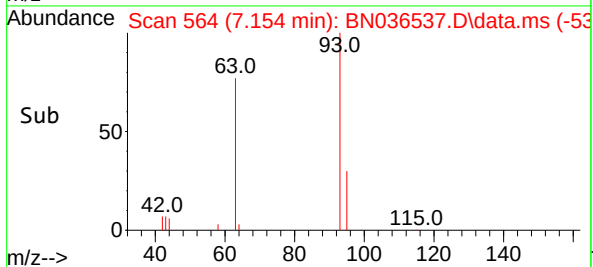
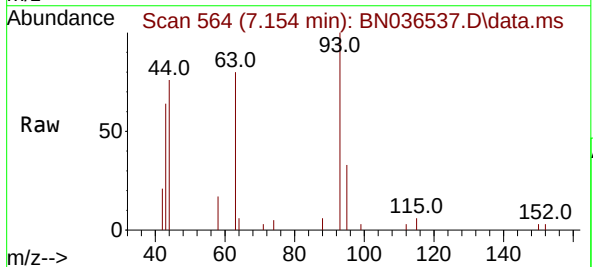
Instrument :
BNA_N
ClientSampleId :
BR-05-465-030525MS

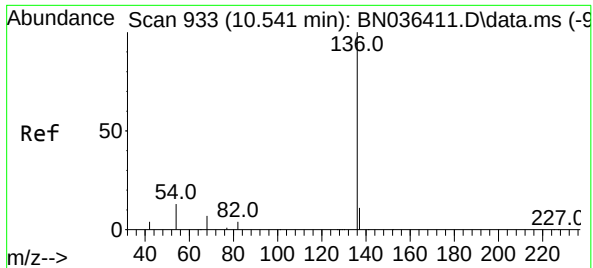
Tgt Ion: 99
Sig Exp Ratio
99 100
42 27.1
71 40.8



#6
bis(2-Chloroethyl)ether
Concen: 0.438 ng
RT: 7.154 min Scan# 564
Delta R.T. 0.000 min
Lab File: BN036537.D
Acq: 06 Mar 2025 16:36

Tgt Ion: 93 Resp: 3027
Ion Ratio Lower Upper
93 100
63 76.2 66.3 99.5
95 31.7 26.2 39.4

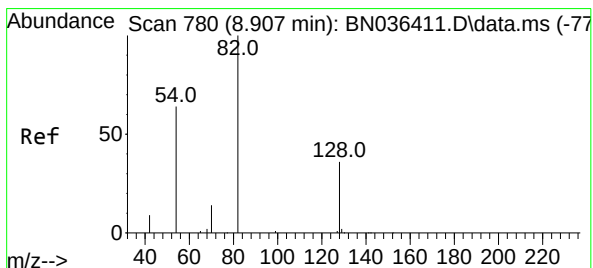
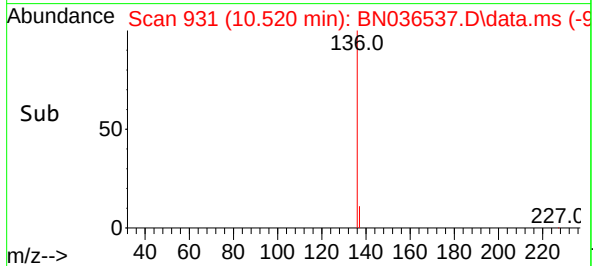
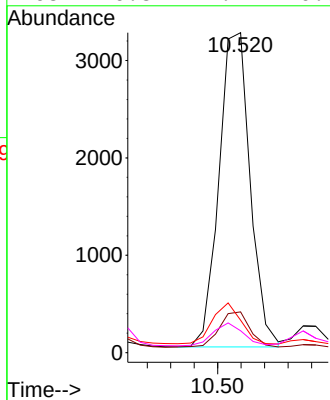
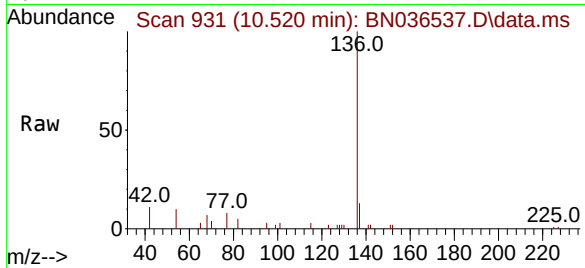




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.520 min Scan# 911
Delta R.T. 0.011 min
Lab File: BN036537.D
Acq: 06 Mar 2025 16:36

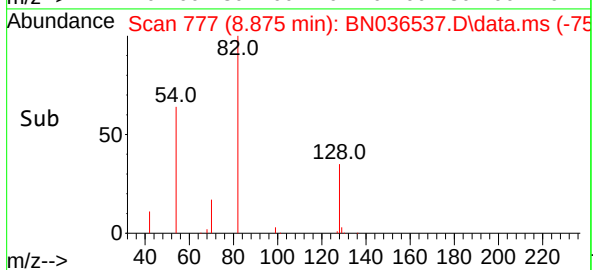
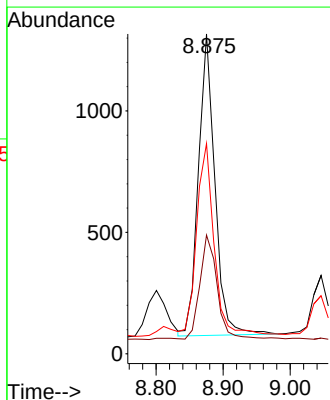
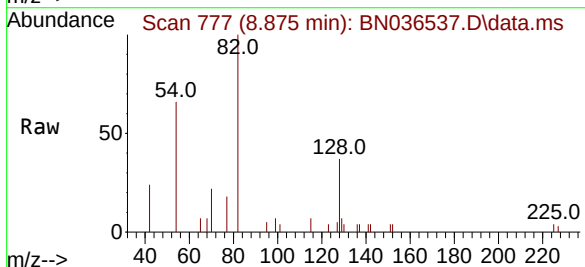
Instrument :
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ClientSampleId :
BR-05-465-030525MS

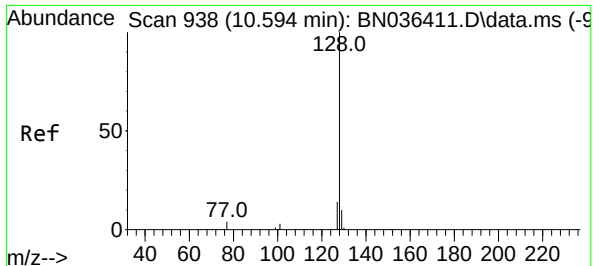
Tgt Ion:	136	Resp:	5953
Ion	Ratio	Lower	Upper
136	100		
137	12.8	10.1	15.1
54	10.2	11.8	17.6#
68	6.8	7.2	10.8#



#8
Nitrobenzene-d5
Concen: 0.362 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036537.D
Acq: 06 Mar 2025 16:36

Tgt Ion:	82	Resp:	2127
Ion	Ratio	Lower	Upper
82	100		
128	37.1	31.9	47.9
54	65.8	53.1	79.7

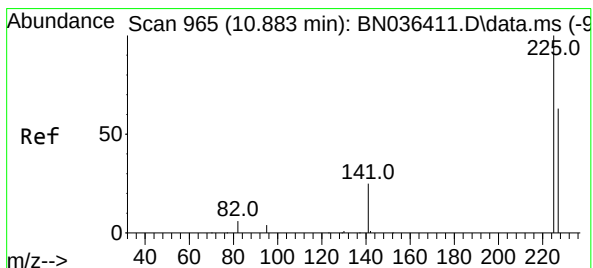
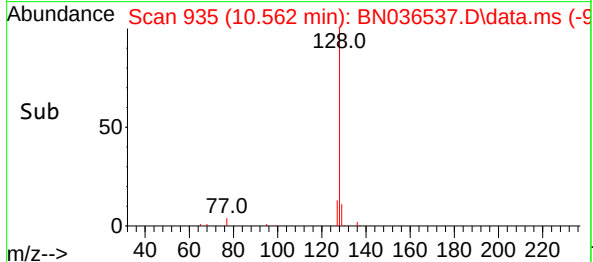
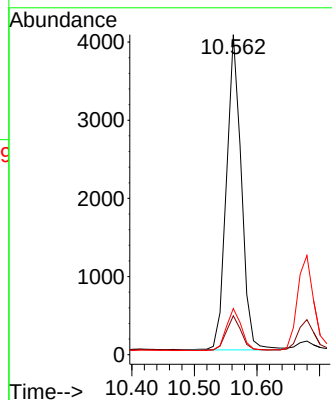
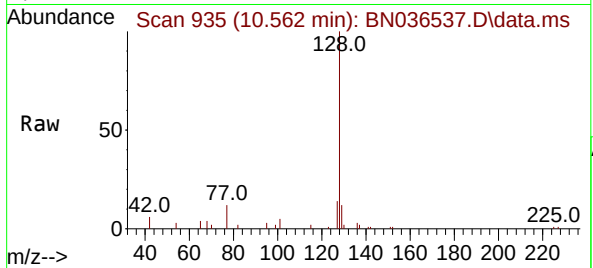




#9
Naphthalene
Concen: 0.388 ng
RT: 10.562 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036537.D
Acq: 06 Mar 2025 16:36

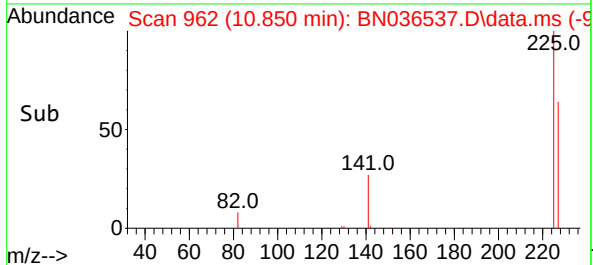
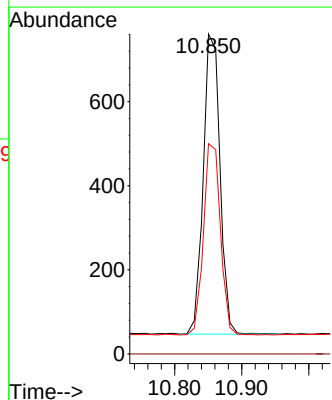
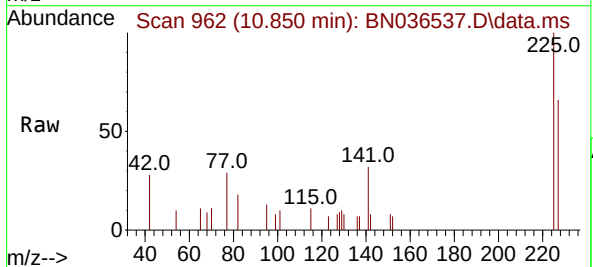
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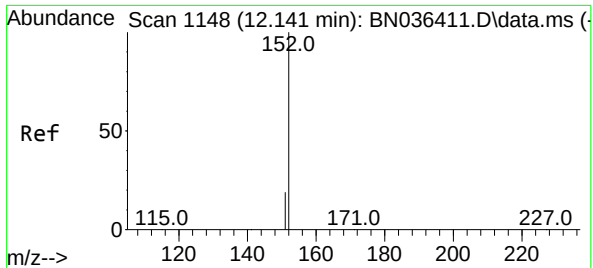
Tgt Ion:128 Resp: 6667
Ion Ratio Lower Upper
128 100
129 12.1 9.6 14.4
127 14.4 12.0 18.0



#10
Hexachlorobutadiene
Concen: 0.297 ng
RT: 10.850 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036537.D
Acq: 06 Mar 2025 16:36

Tgt Ion:225 Resp: 1241
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.5 50.9 76.3

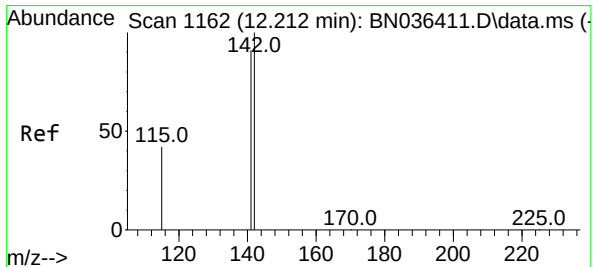
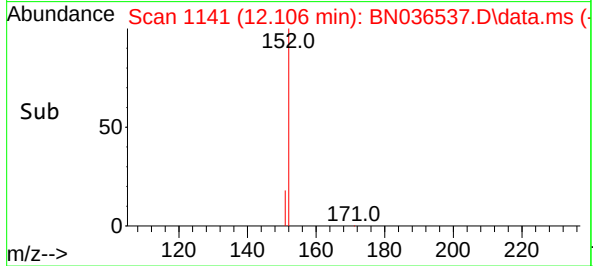
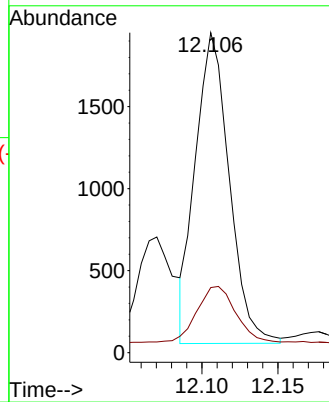
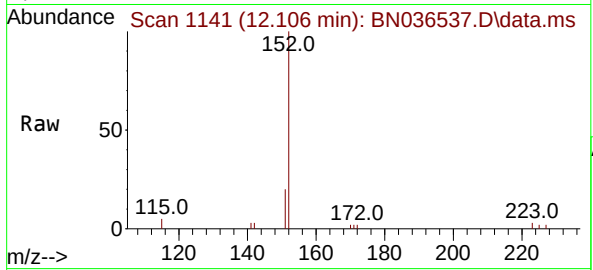




#11
2-Methylnaphthalene-d10
Concen: 0.320 ng
RT: 12.106 min Scan# 1141
Delta R.T. 0.000 min
Lab File: BN036537.D
Acq: 06 Mar 2025 16:36

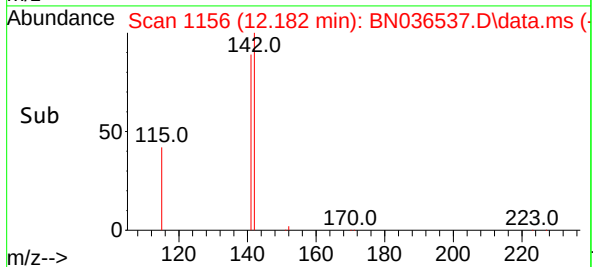
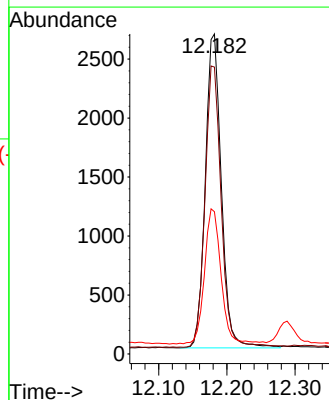
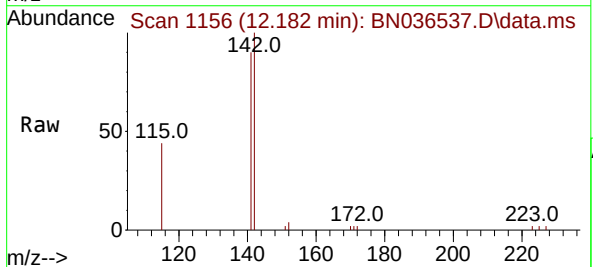
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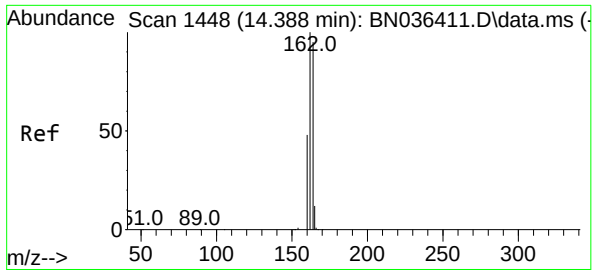
Tgt Ion:152 Resp: 2931
Ion Ratio Lower Upper
152 100
151 22.1 16.6 25.0



#12
2-Methylnaphthalene
Concen: 0.387 ng
RT: 12.182 min Scan# 1156
Delta R.T. 0.000 min
Lab File: BN036537.D
Acq: 06 Mar 2025 16:36

Tgt Ion:142 Resp: 4359
Ion Ratio Lower Upper
142 100
141 89.6 72.8 109.2
115 44.5 35.5 53.3

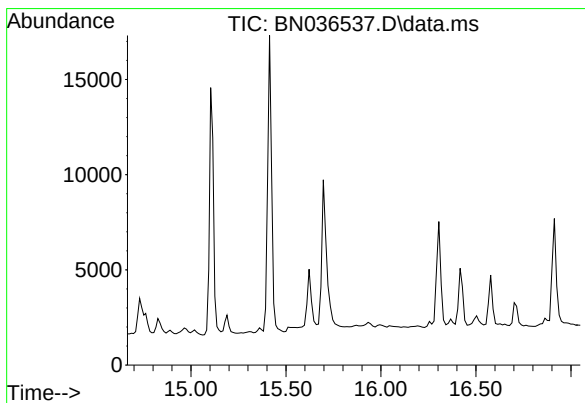
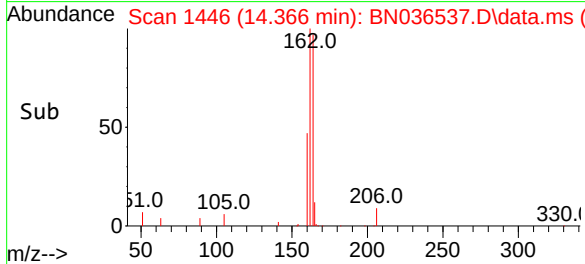
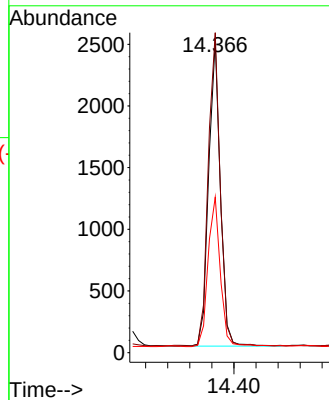
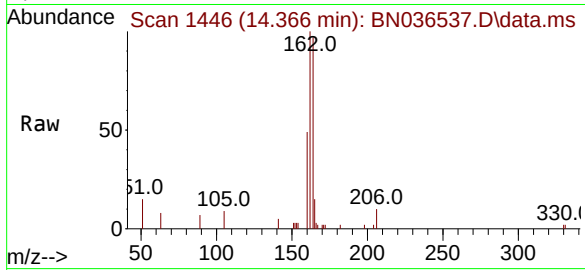




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036537.D
Acq: 06 Mar 2025 16:36

Instrument :
BNA_N
ClientSampleId :
BR-05-465-030525MS

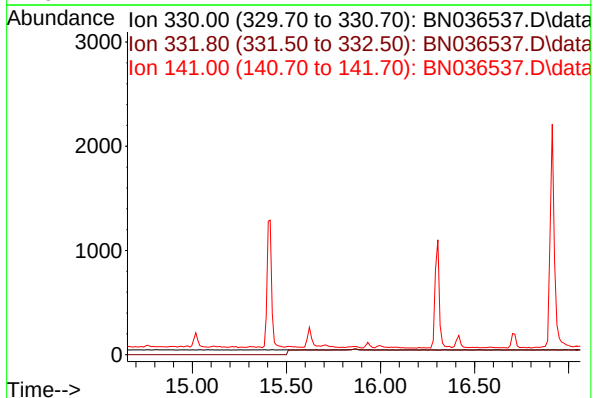
Tgt Ion:164 Resp: 3666
Ion Ratio Lower Upper
164 100
162 102.7 84.1 126.1
160 49.9 41.4 62.0

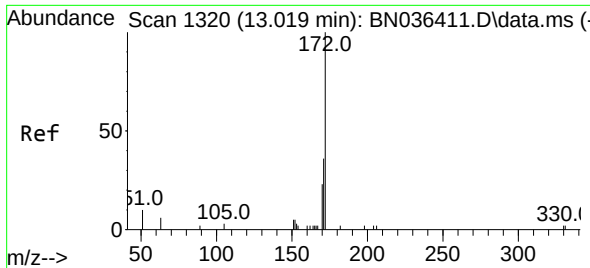


#14
2,4,6-Tribromophenol
Concen: 0.000 ng
Expected RT: 15.86 min

Lab File: BN036537.D
Acq: 06 Mar 2025 16:36

Tgt Ion: 330
Sig Exp Ratio
330 100
332 95.7
141 47.3

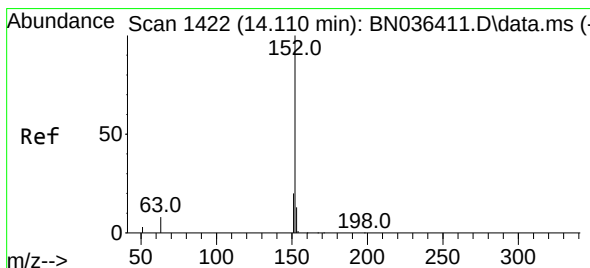
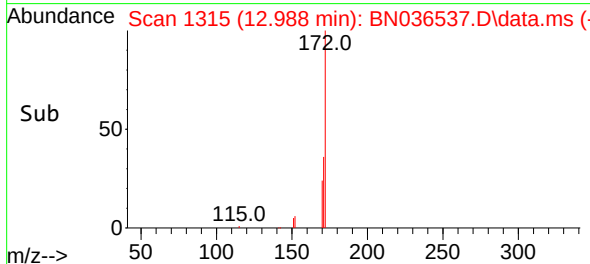
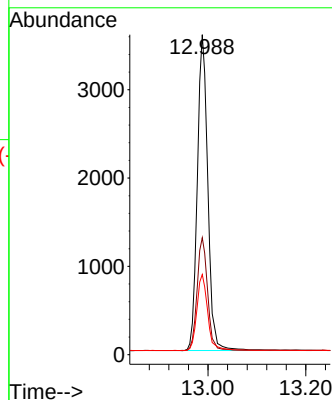
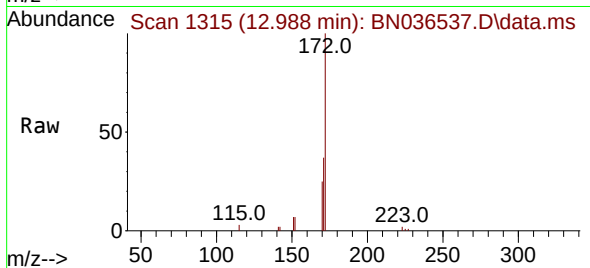




#15
2-Fluorobiphenyl
Concen: 0.582 ng
RT: 12.988 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN036537.D
Acq: 06 Mar 2025 16:36

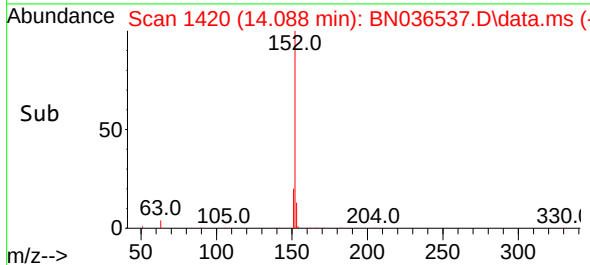
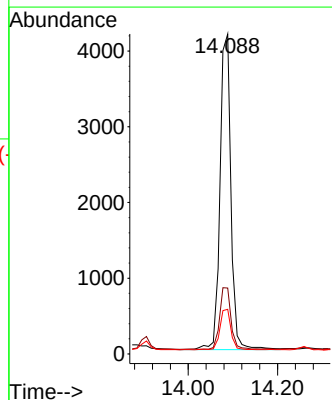
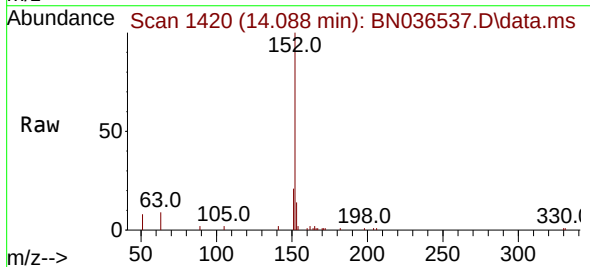
Instrument :
BNA_N
ClientSampleId :
BR-05-465-030525MS

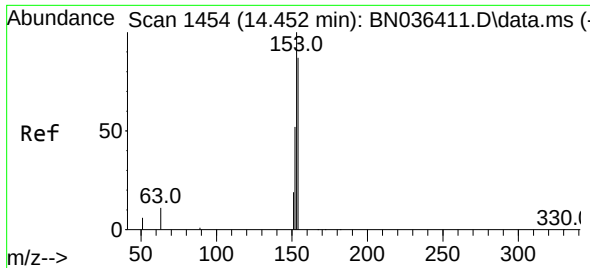
Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.5	29.6	44.4
170	25.1	19.8	29.6



#16
Acenaphthylene
Concen: 0.438 ng
RT: 14.088 min Scan# 1420
Delta R.T. 0.011 min
Lab File: BN036537.D
Acq: 06 Mar 2025 16:36

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.2	15.8	23.8
153	13.0	10.2	15.2

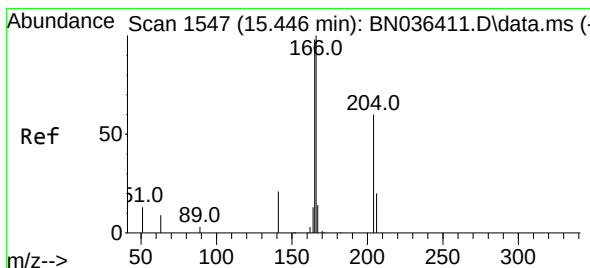
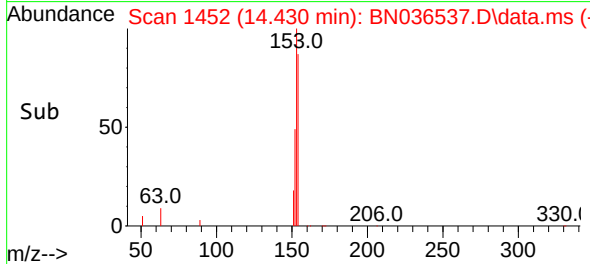
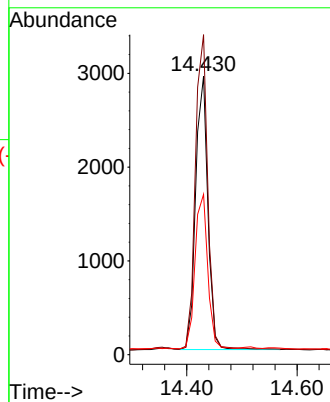
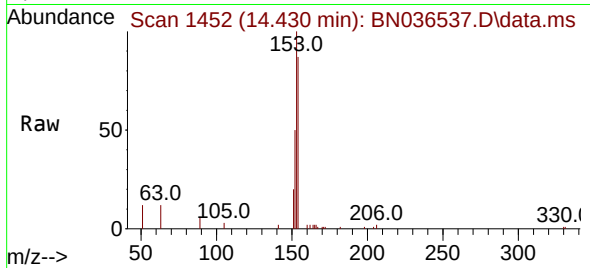




#17
Acenaphthene
Concen: 0.412 ng
RT: 14.430 min Scan# 1452
Delta R.T. 0.000 min
Lab File: BN036537.D
Acq: 06 Mar 2025 16:36

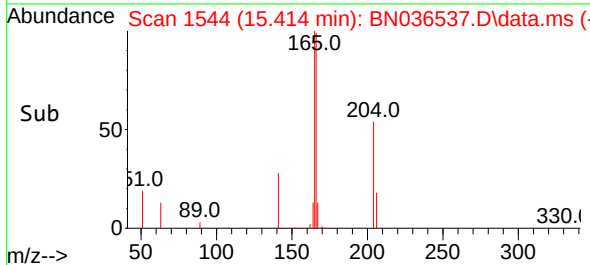
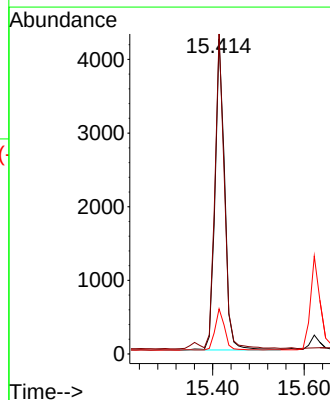
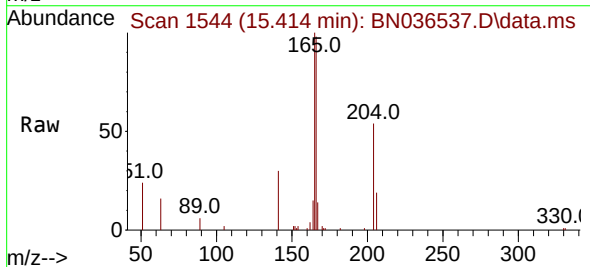
Instrument :
BNA_N
ClientSampleId :
BR-05-465-030525MS

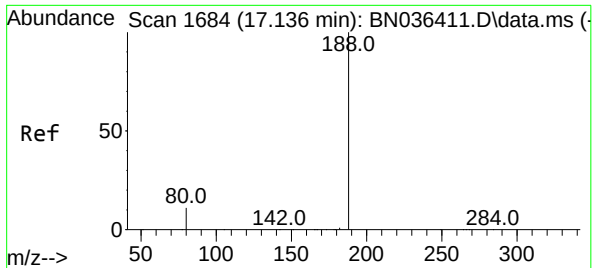
Tgt Ion:154 Resp: 4453
Ion Ratio Lower Upper
154 100
153 117.1 93.3 139.9
152 59.0 48.8 73.2



#18
Fluorene
Concen: 0.407 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036537.D
Acq: 06 Mar 2025 16:36

Tgt Ion:166 Resp: 6274
Ion Ratio Lower Upper
166 100
165 99.8 79.5 119.3
167 12.9 10.4 15.6

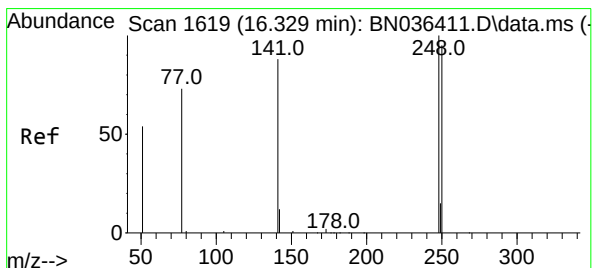
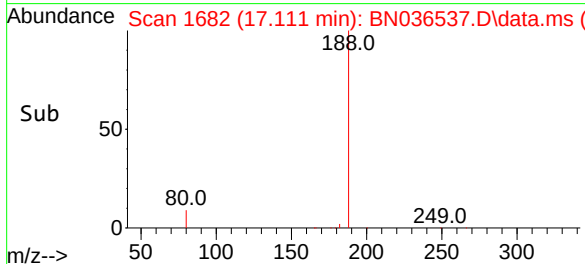
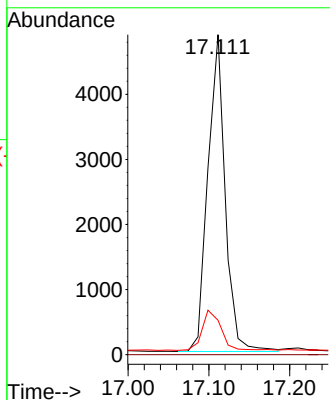
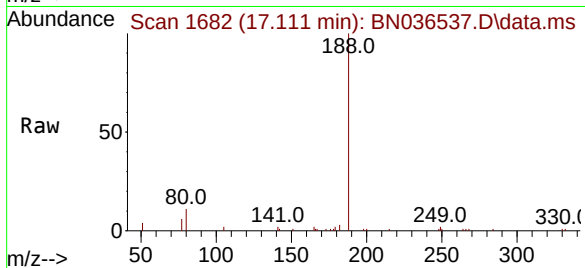




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1682
Delta R.T. 0.000 min
Lab File: BN036537.D
Acq: 06 Mar 2025 16:36

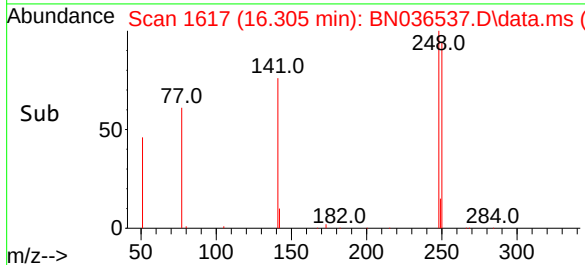
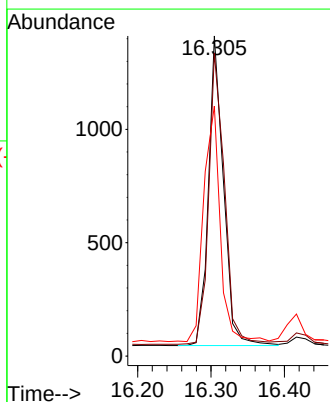
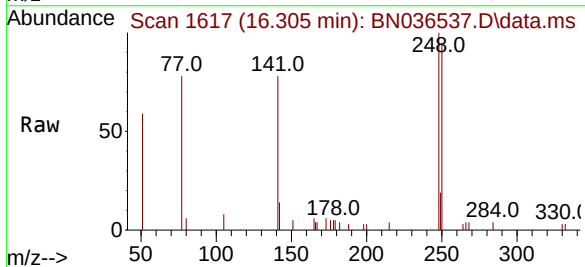
Instrument :
BNA_N
ClientSampleId :
BR-05-465-030525MS

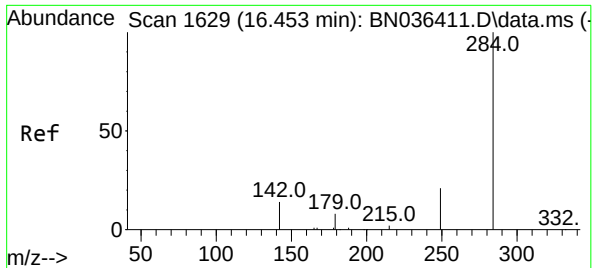
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.8	9.8	14.6



#21
4-Bromophenyl-phenylether
Concen: 0.451 ng
RT: 16.305 min Scan# 1617
Delta R.T. 0.000 min
Lab File: BN036537.D
Acq: 06 Mar 2025 16:36

Tgt Ion	Ratio	Lower	Upper
248	100		
250	94.6	76.1	114.1
141	78.1	71.7	107.5





#22

Hexachlorobenzene

Concen: 0.399 ng

RT: 16.429 min Scan# 1627

Delta R.T. 0.012 min

Lab File: BN036537.D

Acq: 06 Mar 2025 16:36

Instrument :

BNA_N

ClientSampleId :

BR-05-465-030525MS

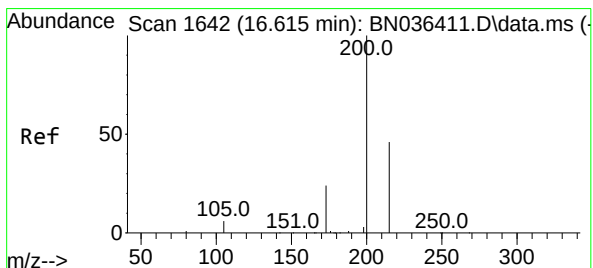
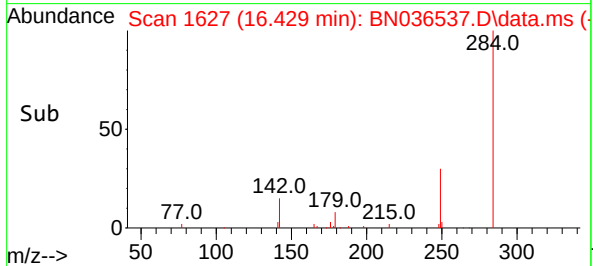
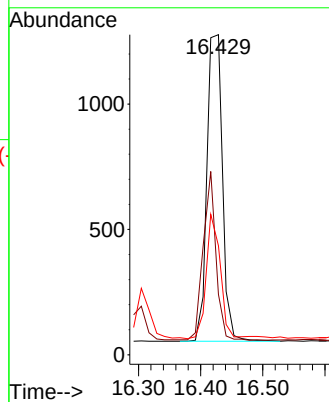
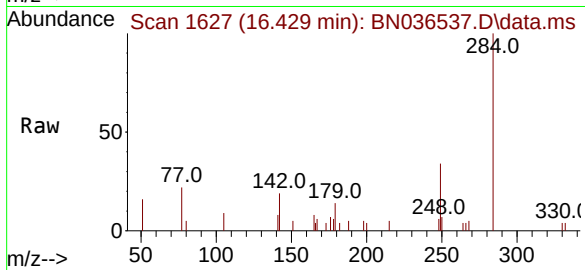
Tgt Ion:284 Resp: 2131

Ion Ratio Lower Upper

284 100

142 45.2 33.4 50.0

249 36.6 28.6 43.0



#23

Atrazine

Concen: 0.543 ng

RT: 16.578 min Scan# 1639

Delta R.T. 0.000 min

Lab File: BN036537.D

Acq: 06 Mar 2025 16:36

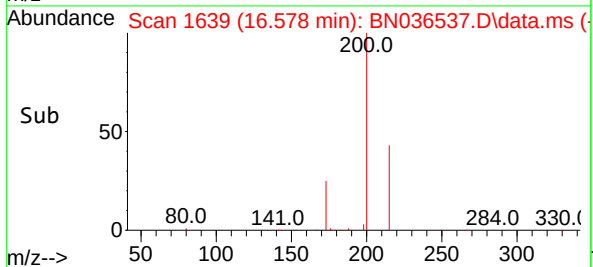
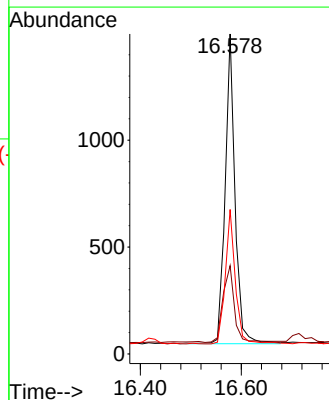
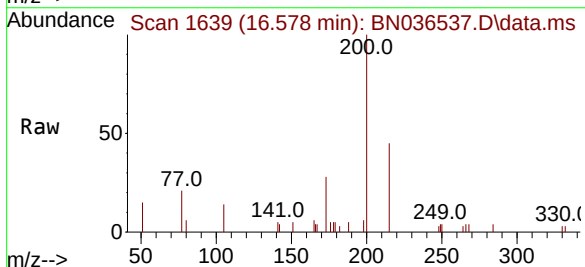
Tgt Ion:200 Resp: 1961

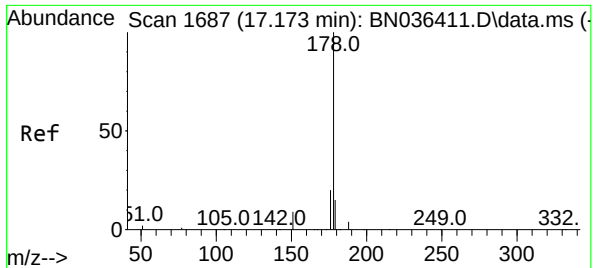
Ion Ratio Lower Upper

200 100

173 27.6 23.2 34.8

215 45.2 40.0 60.0

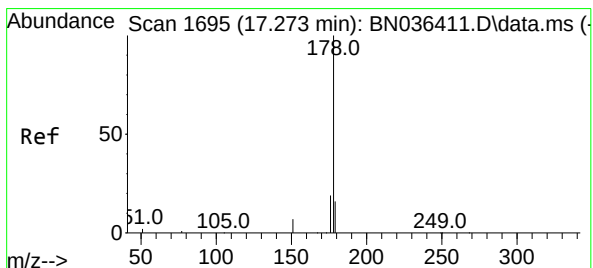
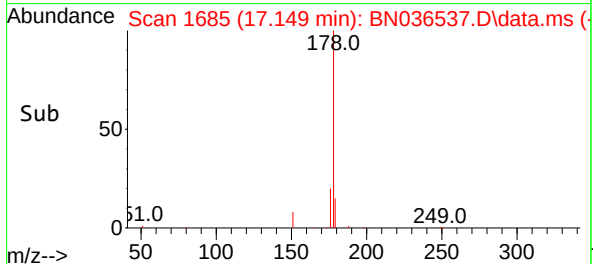
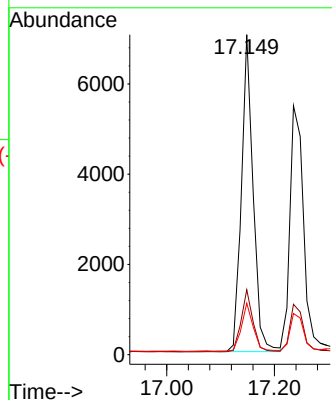
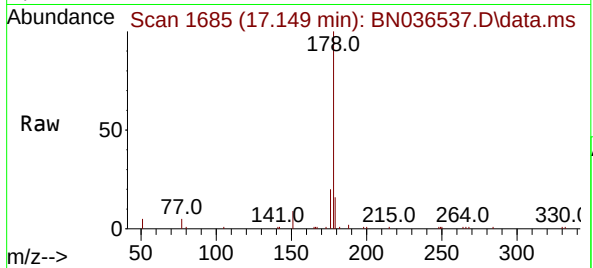




#25
Phenanthrene
Concen: 0.503 ng
RT: 17.149 min Scan# 1685
Delta R.T. 0.000 min
Lab File: BN036537.D
Acq: 06 Mar 2025 16:36

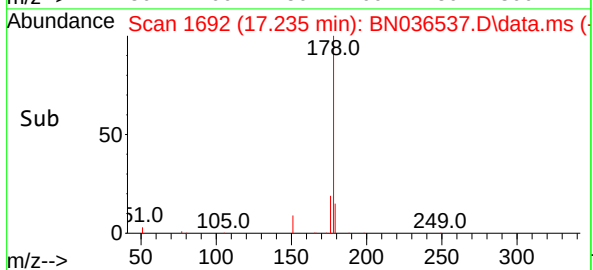
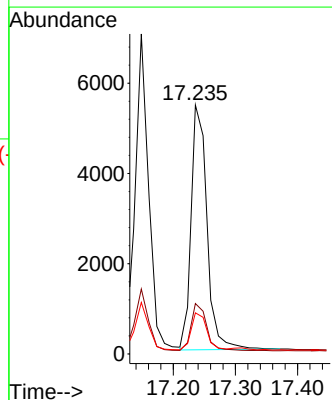
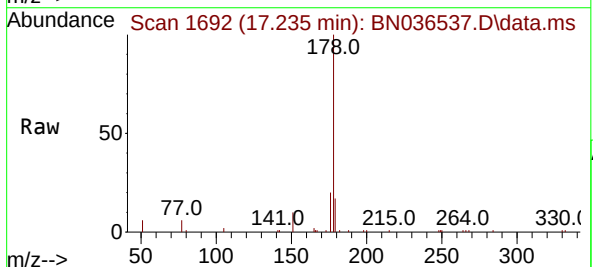
Instrument :
BNA_N
ClientSampleId :
BR-05-465-030525MS

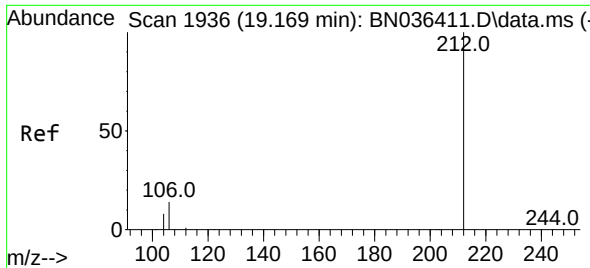
Tgt Ion:178 Resp: 10539
Ion Ratio Lower Upper
178 100
176 19.8 15.7 23.5
179 15.4 12.4 18.6



#26
Anthracene
Concen: 0.522 ng
RT: 17.235 min Scan# 1692
Delta R.T. 0.000 min
Lab File: BN036537.D
Acq: 06 Mar 2025 16:36

Tgt Ion:178 Resp: 9641
Ion Ratio Lower Upper
178 100
176 18.9 14.9 22.3
179 14.6 12.4 18.6





#27

Fluoranthene-d10

Concen: 0.440 ng

RT: 19.141 min Scan# 1930

Delta R.T. 0.000 min

Lab File: BN036537.D

Acq: 06 Mar 2025 16:36

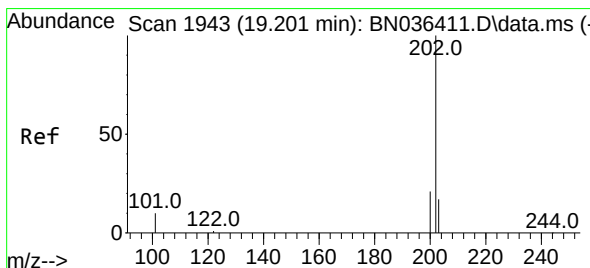
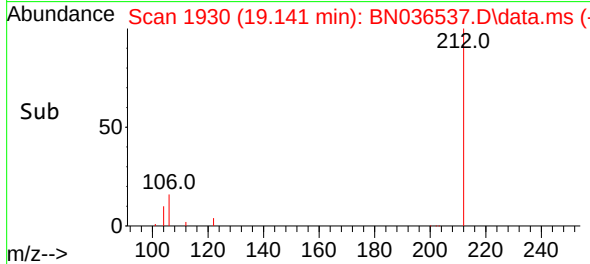
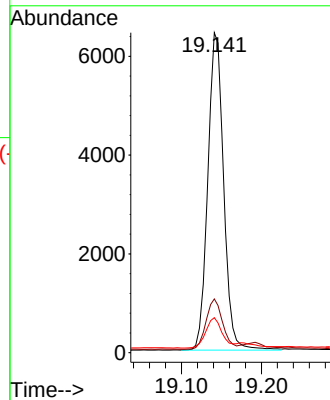
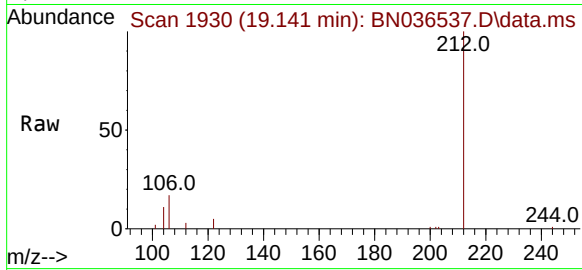
Instrument :

BNA_N

ClientSampleId :

BR-05-465-030525MS

Tgt Ion:	212	Resp:	8866
Ion Ratio	Lower	Upper	
212	100		
106	16.5	11.5	17.3
104	9.7	7.1	10.7



#28

Fluoranthene

Concen: 0.506 ng

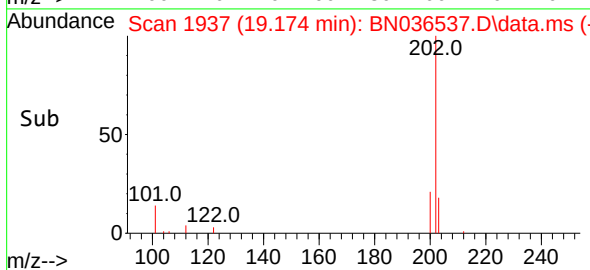
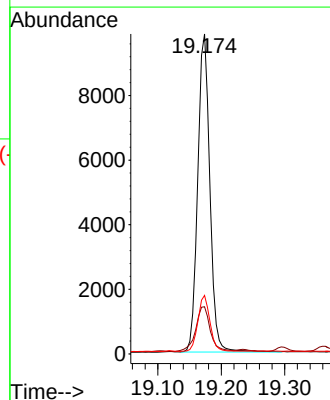
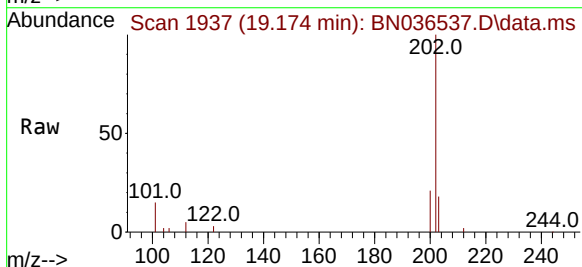
RT: 19.174 min Scan# 1937

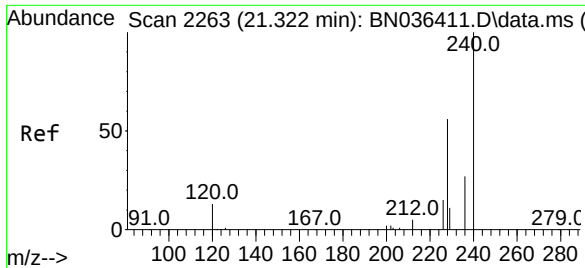
Delta R.T. 0.000 min

Lab File: BN036537.D

Acq: 06 Mar 2025 16:36

Tgt Ion:	202	Resp:	13013
Ion Ratio	Lower	Upper	
202	100		
101	17.0	9.2	13.8#
203	17.4	13.4	20.0

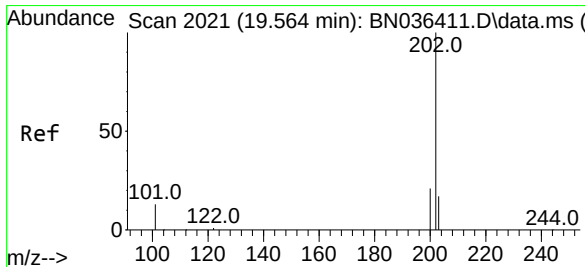
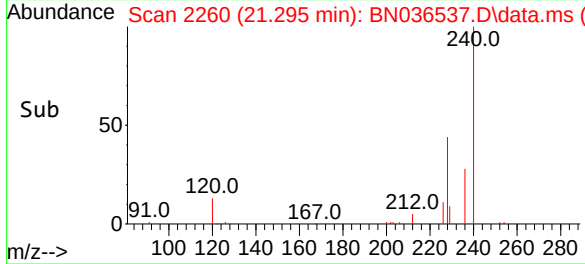
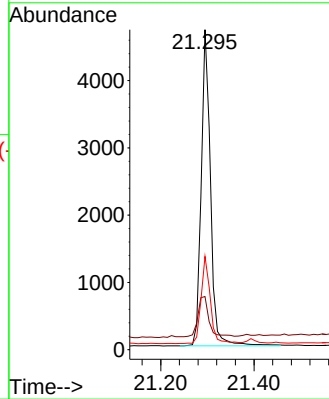
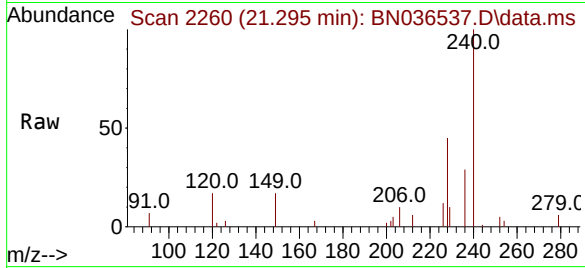




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN036537.D
Acq: 06 Mar 2025 16:36

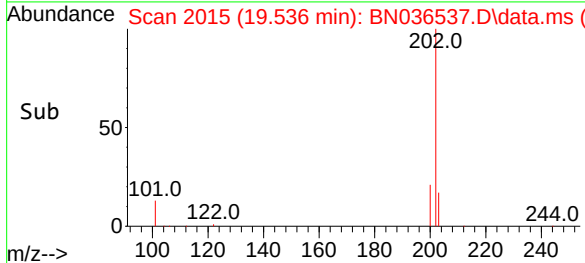
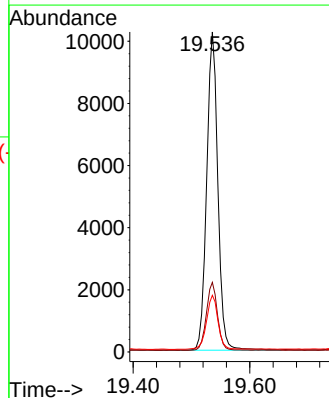
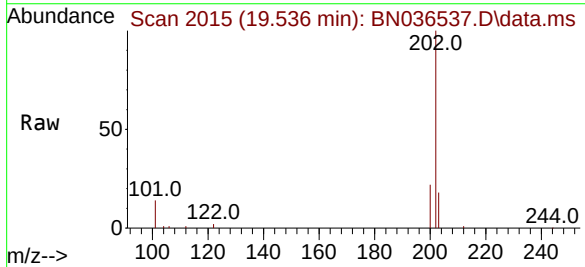
Instrument :
BNA_N
ClientSampleId :
BR-05-465-030525MS

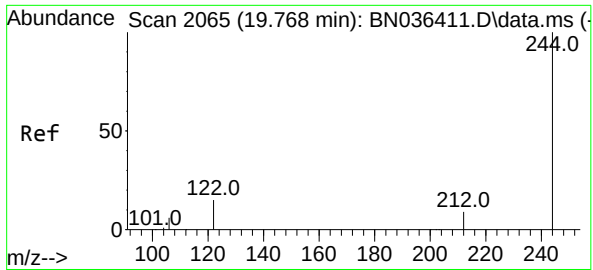
Tgt Ion:240 Resp: 6501
Ion Ratio Lower Upper
240 100
120 16.6 13.3 19.9
236 29.2 23.0 34.6



#30
Pyrene
Concen: 0.545 ng
RT: 19.536 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BN036537.D
Acq: 06 Mar 2025 16:36

Tgt Ion:202 Resp: 13652
Ion Ratio Lower Upper
202 100
200 21.3 16.9 25.3
203 17.7 13.9 20.9

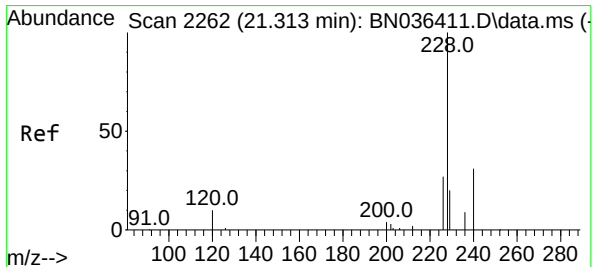
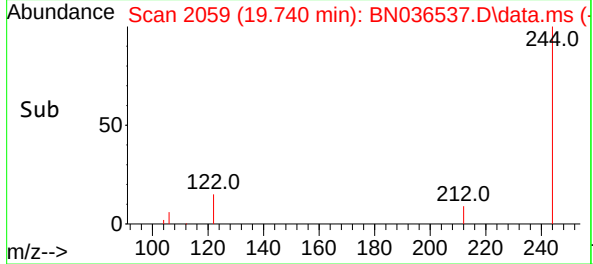
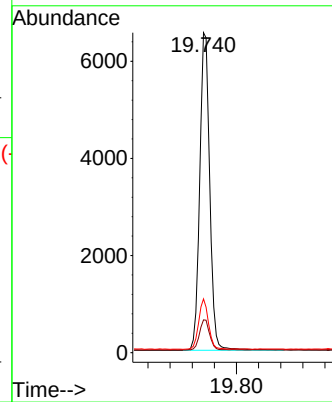
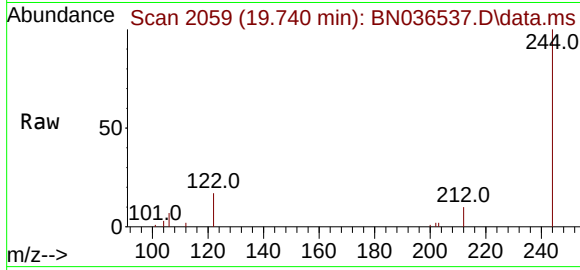




#31
Terphenyl-d14
Concen: 0.593 ng
RT: 19.740 min Scan# 2065
Delta R.T. -0.005 min
Lab File: BN036537.D
Acq: 06 Mar 2025 16:36

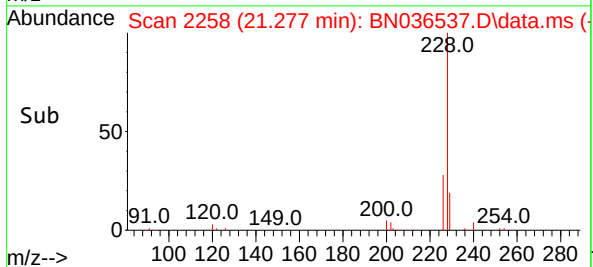
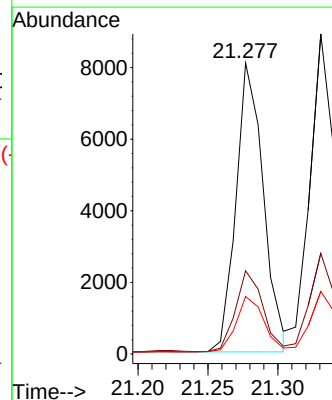
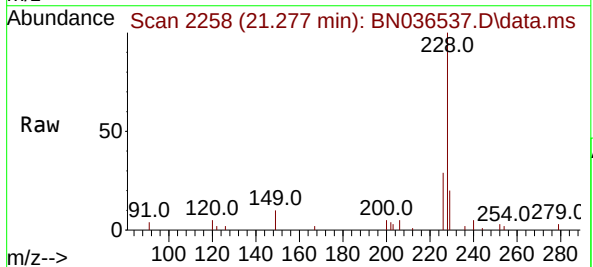
Instrument :
BNA_N
ClientSampleId :
BR-05-465-030525MS

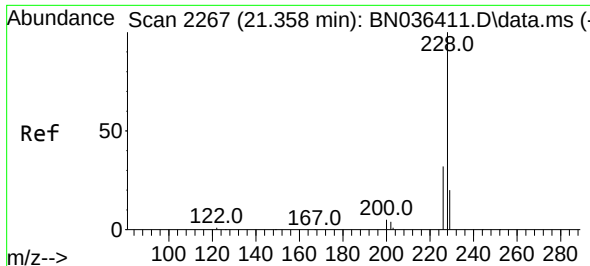
Tgt Ion:244 Resp: 8231
Ion Ratio Lower Upper
244 100
212 10.2 8.1 12.1
122 16.8 12.8 19.2



#32
Benzo(a)anthracene
Concen: 0.515 ng
RT: 21.277 min Scan# 2258
Delta R.T. 0.000 min
Lab File: BN036537.D
Acq: 06 Mar 2025 16:36

Tgt Ion:228 Resp: 11007
Ion Ratio Lower Upper
228 100
226 28.6 22.2 33.2
229 19.7 16.5 24.7

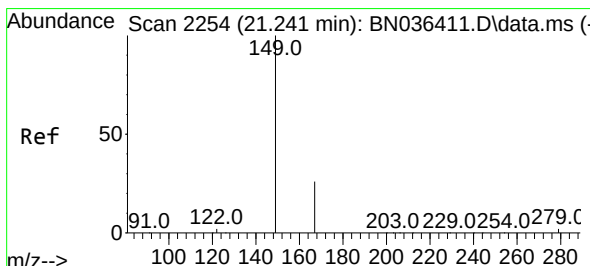
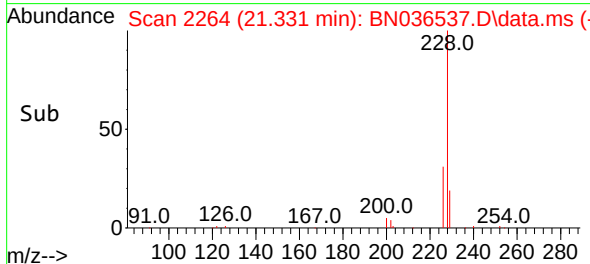
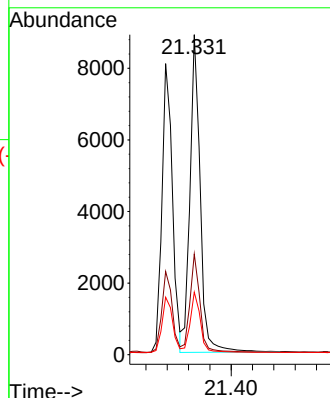
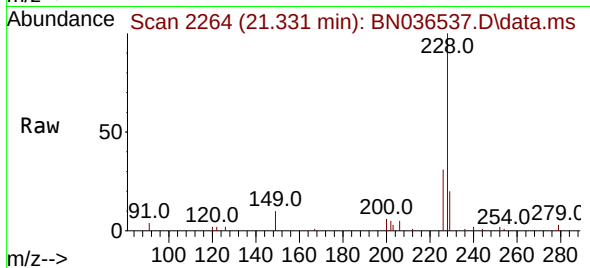




#33
Chrysene
Concen: 0.509 ng
RT: 21.331 min Scan# 211
Delta R.T. 0.000 min
Lab File: BN036537.D
Acq: 06 Mar 2025 16:36

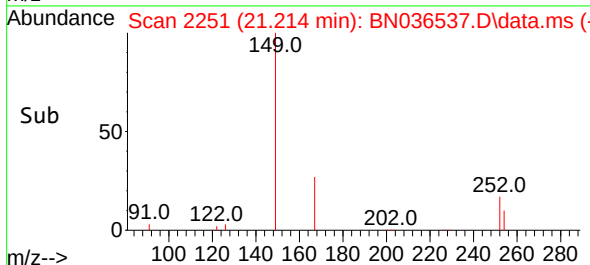
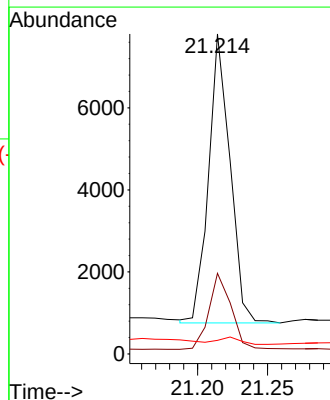
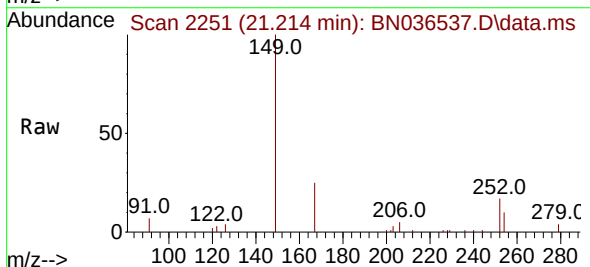
Instrument :
BNA_N
ClientSampleId :
BR-05-465-030525MS

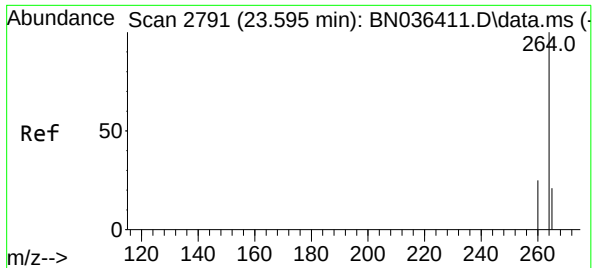
Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.5	25.5	38.3
229	19.6	16.4	24.6



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.563 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036537.D
Acq: 06 Mar 2025 16:36

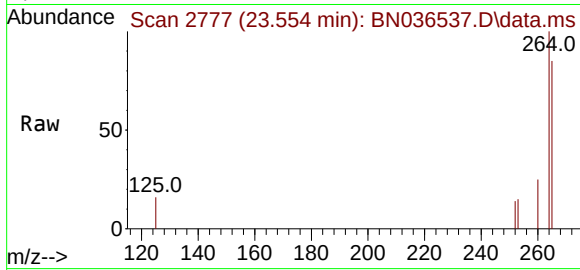
Tgt Ion	Ratio	Lower	Upper
149	100		
167	27.3	21.2	31.8
279	2.5	2.7	4.1#



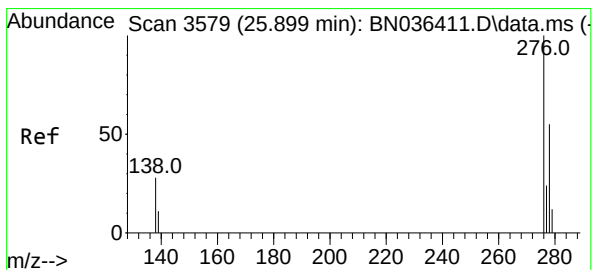
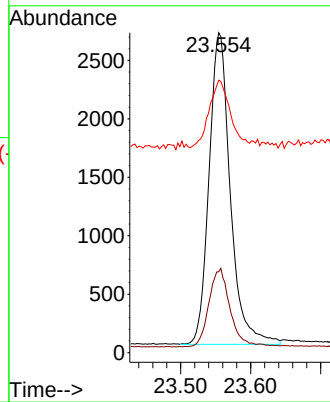
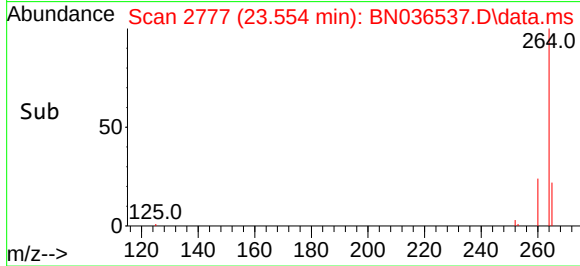


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.554 min Scan# 21
Delta R.T. 0.003 min
Lab File: BN036537.D
Acq: 06 Mar 2025 16:36

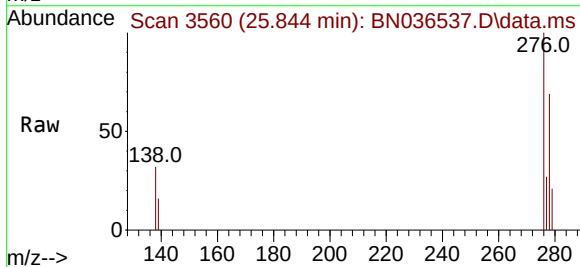
Instrument :
BNA_N
ClientSampleId :
BR-05-465-030525MS



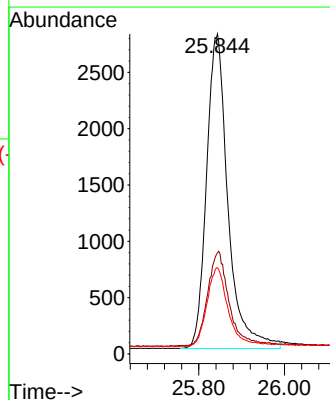
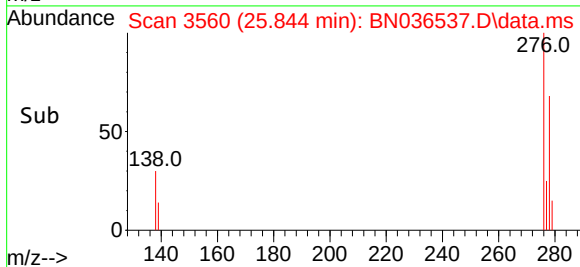
Tgt Ion:264 Resp: 5628
Ion Ratio Lower Upper
264 100
260 25.3 20.9 31.3
265 85.2 60.7 91.1

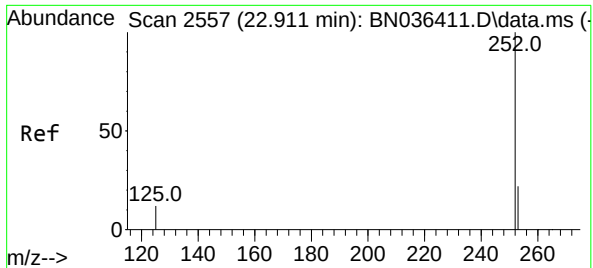


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.493 ng
RT: 25.844 min Scan# 3560
Delta R.T. 0.006 min
Lab File: BN036537.D
Acq: 06 Mar 2025 16:36



Tgt Ion:276 Resp: 9697
Ion Ratio Lower Upper
276 100
138 29.5 22.2 33.2
277 24.8 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.536 ng

RT: 22.873 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036537.D

Acq: 06 Mar 2025 16:36

Instrument :

BNA_N

ClientSampleId :

BR-05-465-030525MS

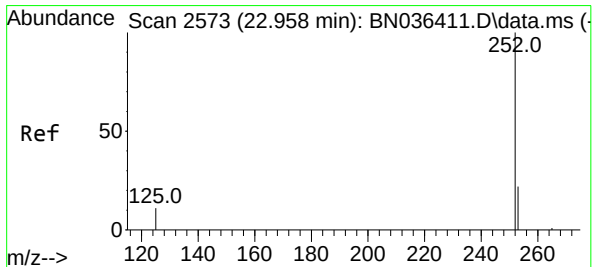
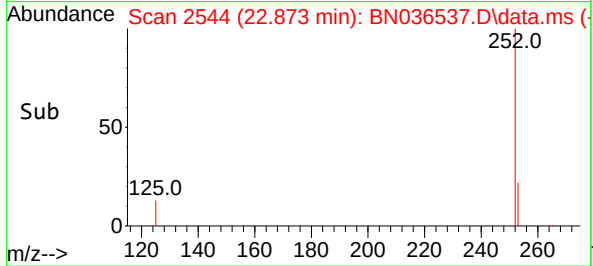
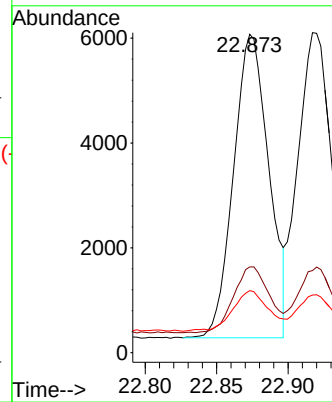
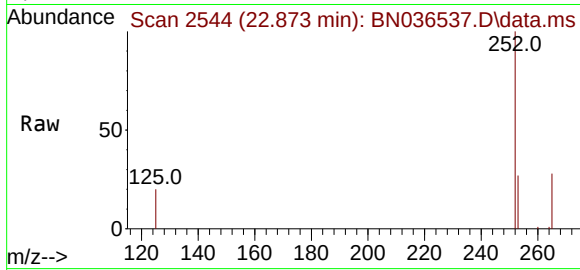
Tgt Ion:252 Resp: 9933

Ion Ratio Lower Upper

252 100

253 26.9 21.9 32.9

125 19.5 15.0 22.6



#38

Benzo(k)fluoranthene

Concen: 0.539 ng

RT: 22.917 min Scan# 2559

Delta R.T. 0.000 min

Lab File: BN036537.D

Acq: 06 Mar 2025 16:36

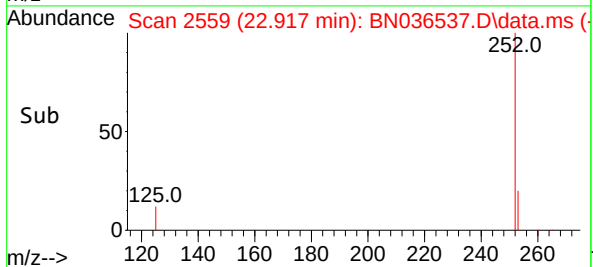
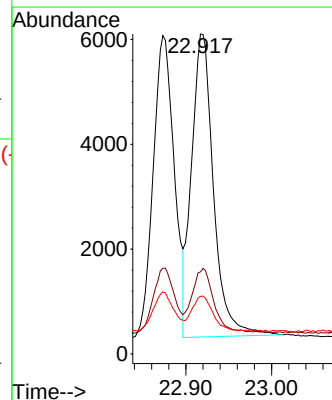
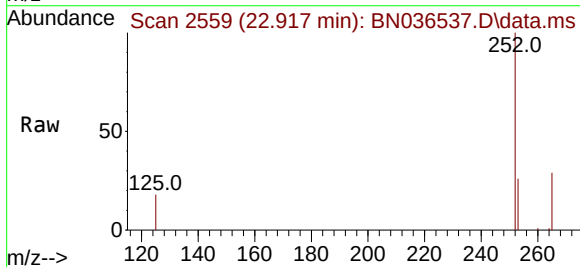
Tgt Ion:252 Resp: 10277

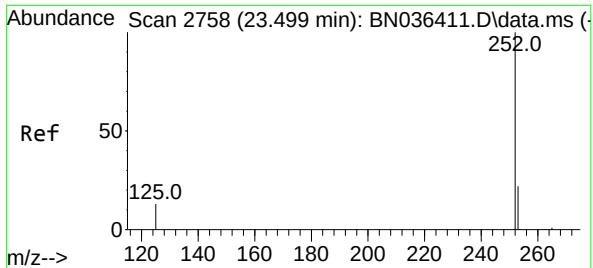
Ion Ratio Lower Upper

252 100

253 25.7 22.2 33.4

125 18.0 15.0 22.4





#39

Benzo(a)pyrene

Concen: 0.549 ng

RT: 23.452 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036537.D

Acq: 06 Mar 2025 16:36

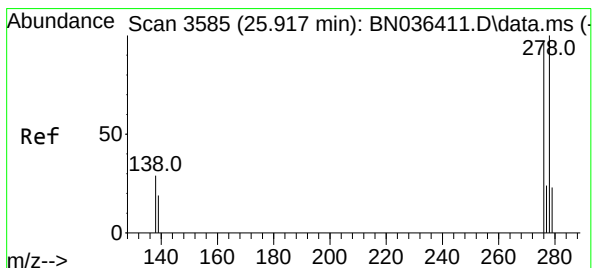
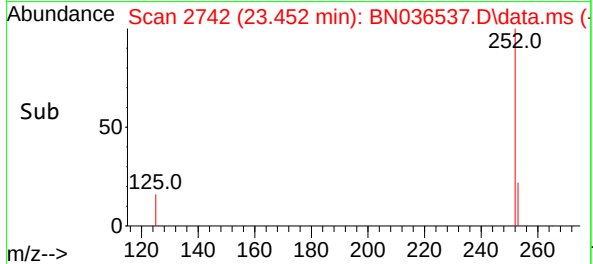
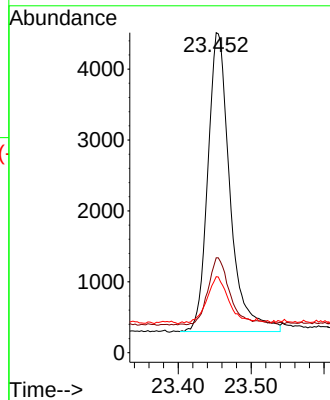
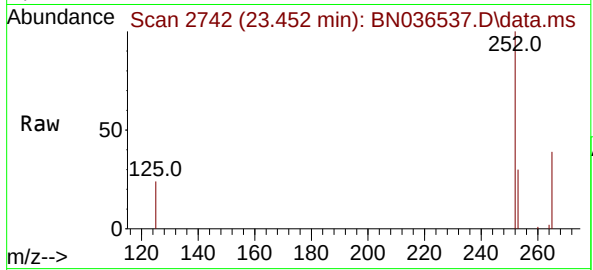
Instrument :

BNA_N

ClientSampleId :

BR-05-465-030525MS

Tgt Ion:	252	Resp:	8885
Ion Ratio	Lower	Upper	
252	100		
253	29.7	24.4	36.6
125	23.7	18.2	27.2



#40

Dibenzo(a,h)anthracene

Concen: 0.479 ng

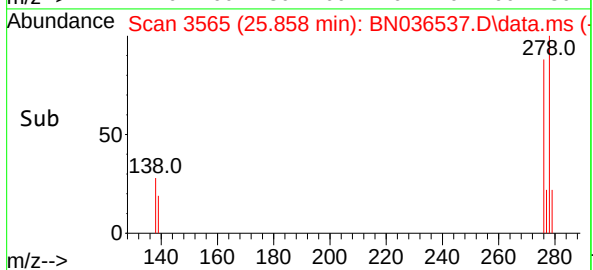
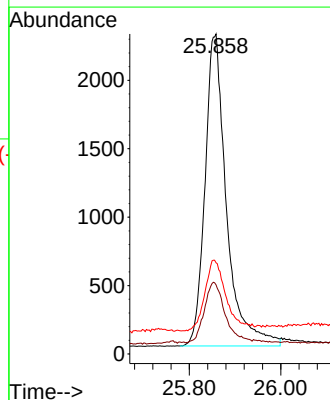
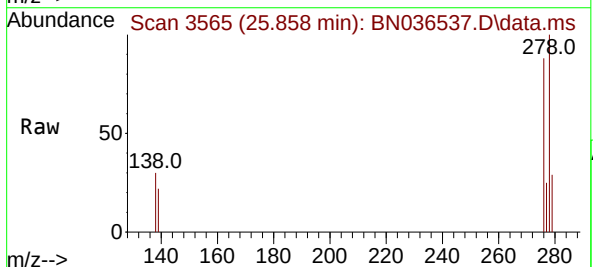
RT: 25.858 min Scan# 3565

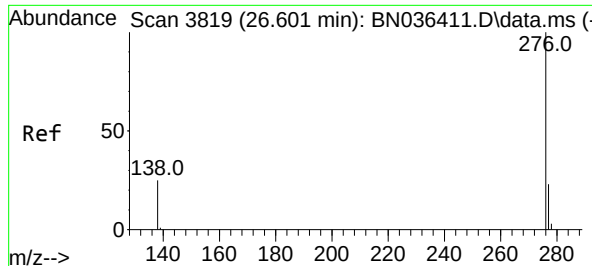
Delta R.T. 0.006 min

Lab File: BN036537.D

Acq: 06 Mar 2025 16:36

Tgt Ion:	278	Resp:	7435
Ion Ratio	Lower	Upper	
278	100		
139	21.6	18.5	27.7
279	28.5	24.8	37.2





#41

Benzo(g,h,i)perylene

Concen: 0.436 ng

RT: 26.534 min Scan# 31

Delta R.T. 0.006 min

Lab File: BN036537.D

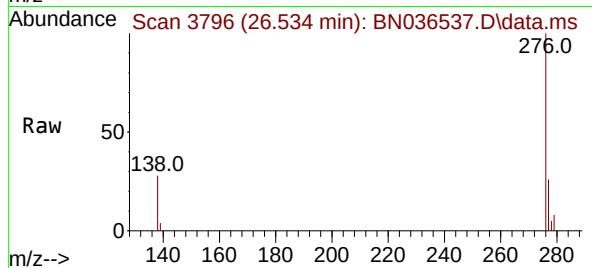
Acq: 06 Mar 2025 16:36

Instrument :

BNA_N

ClientSampleId :

BR-05-465-030525MS



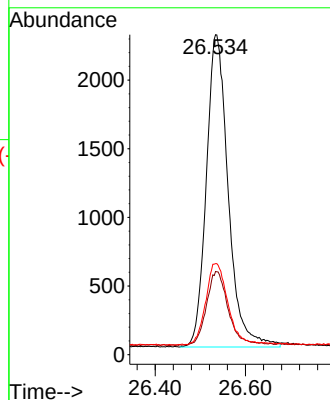
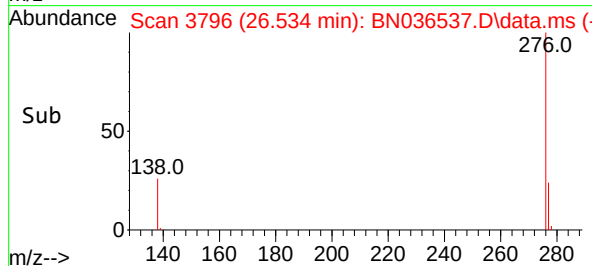
Tgt Ion:276 Resp: 7669

Ion Ratio Lower Upper

276 100

277 26.0 20.7 31.1

138 28.4 21.8 32.6



Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	03/05/25
Project:	Former Schlumberger STC PTC Site # D3868221	Date Received:	03/05/25
Client Sample ID:	BR-05-465-030525MSD	SDG No.:	Q1501
Lab Sample ID:	Q1501-06MSD	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
BN036538.D	1	03/06/25 08:26	03/06/25 17:12	PB167006

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
123-91-1	1,4-Dioxane	0.79		0.070	0.21	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.31		30 (20) - 150 (139)	77%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.42		30 (30) - 150 (150)	106%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.35		30 (27) - 130 (154)	88%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.55	*	30 (25) - 130 (149)	138%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.56	*	30 (54) - 130 (175)	139%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	2070		7.724		
1146-65-2	Naphthalene-d8	5250		10.519		
15067-26-2	Acenaphthene-d10	3280		14.366		
1517-22-2	Phenanthrene-d10	6610		17.111		
1719-03-5	Chrysene-d12	6060		21.295		
1520-96-3	Perylene-d12	5430		23.554		

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\BN030625\
 Data File : BN036538.D
 Acq On : 06 Mar 2025 17:12
 Operator : RC/JU
 Sample : Q1501-06MSD
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 BR-05-465-030525MSD

Quant Time: Mar 06 18:00:51 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 05 16:08:57 2025
 Response via : Initial Calibration

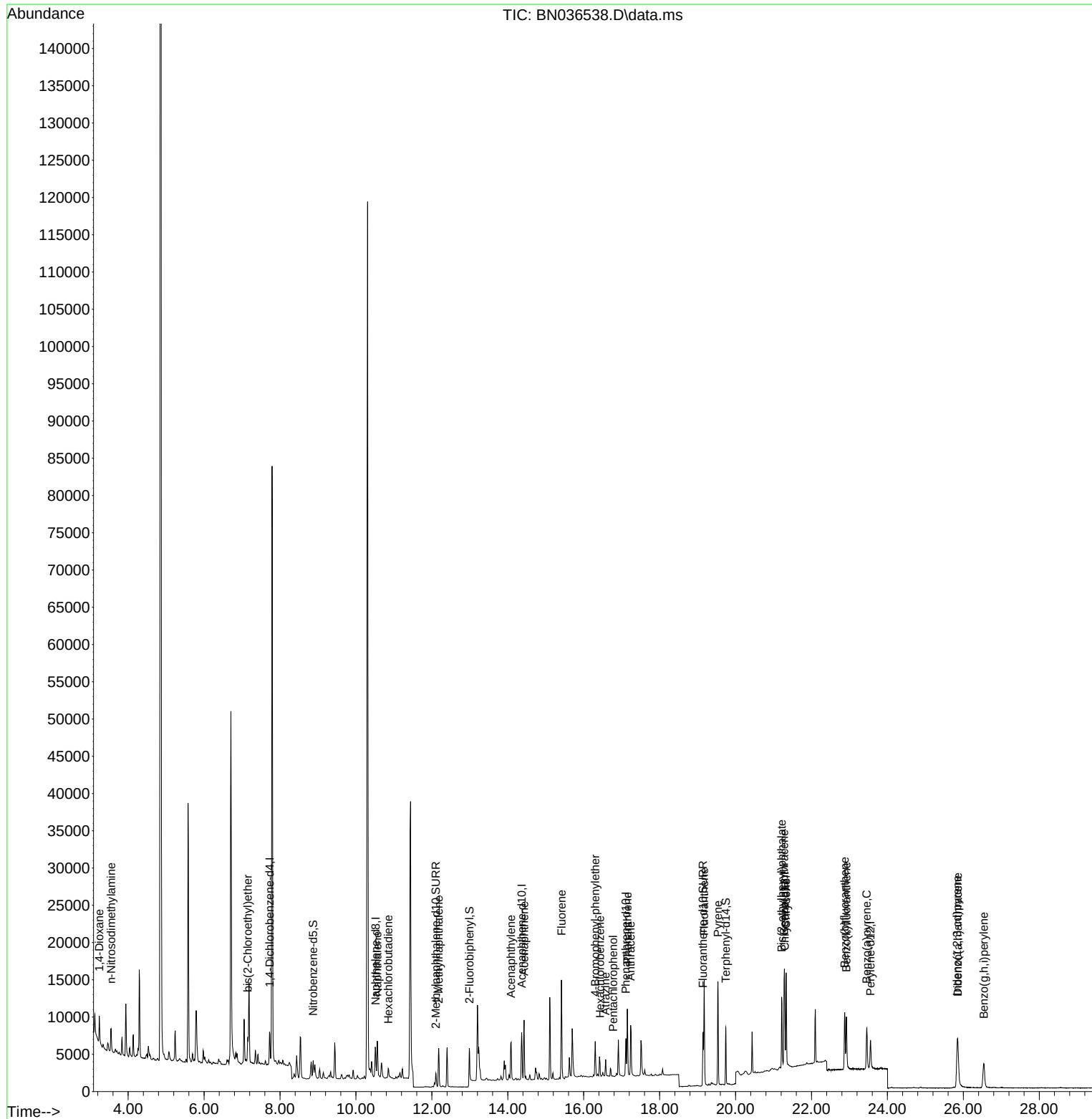
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2073	0.400	ng	0.00
7) Naphthalene-d8	10.519	136	5251	0.400	ng	# 0.01
13) Acenaphthene-d10	14.366	164	3279	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	6612	0.400	ng	0.00
29) Chrysene-d12	21.295	240	6058	0.400	ng	0.00
35) Perylene-d12	23.554	264	5433	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	0.000	112	0d	0.000	ng	
5) Phenol-d6	0.000	99	0d	0.000	ng	
8) Nitrobenzene-d5	8.875	82	1823	0.352	ng	0.00
11) 2-Methylnaphthalene-d10	12.106	152	2497	0.309	ng	0.00
14) 2,4,6-Tribromophenol	0.000	330	0d	0.000	ng	
15) 2-Fluorobiphenyl	12.988	172	6786	0.550	ng	0.00
27) Fluoranthene-d10	19.141	212	7783	0.423	ng	0.00
31) Terphenyl-d14	19.745	244	7194	0.556	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	1729	0.762	ng	# 80
3) n-Nitrosodimethylamine	3.550	42	1029	0.261	ng	# 74
6) bis(2-Chloroethyl)ether	7.154	93	2606	0.434	ng	96
9) Naphthalene	10.562	128	5644	0.373	ng	99
10) Hexachlorobutadiene	10.850	225	1085	0.294	ng	# 96
12) 2-Methylnaphthalene	12.182	142	3676	0.370	ng	98
16) Acenaphthylene	14.088	152	6191	0.427	ng	100
17) Acenaphthene	14.430	154	3874	0.401	ng	98
18) Fluorene	15.414	166	5352	0.389	ng	96
21) 4-Bromophenyl-phenylether	16.304	248	1718	0.436	ng	92
22) Hexachlorobenzene	16.429	284	1870	0.384	ng	96
23) Atrazine	16.578	200	1716	0.521	ng	97
24) Pentachlorophenol	16.776	266	59	0.026	ng	# 86
25) Phenanthrene	17.149	178	9178	0.480	ng	100
26) Anthracene	17.235	178	8460	0.502	ng	99
28) Fluoranthene	19.174	202	11456	0.488	ng	# 94
30) Pyrene	19.536	202	12011	0.515	ng	99
32) Benzo(a)anthracene	21.277	228	9905	0.497	ng	98
33) Chrysene	21.331	228	10513	0.487	ng	99
34) Bis(2-ethylhexyl)phtha...	21.214	149	6640	0.535	ng	100
36) Indeno(1,2,3-cd)pyrene	25.841	276	9322	0.491	ng	99
37) Benzo(b)fluoranthene	22.873	252	9260	0.518	ng	97
38) Benzo(k)fluoranthene	22.920	252	9549	0.518	ng	100
39) Benzo(a)pyrene	23.455	252	8509	0.545	ng	# 95
40) Dibenzo(a,h)anthracene	25.855	278	7093	0.473	ng	99
41) Benzo(g,h,i)perylene	26.539	276	7341	0.432	ng	98

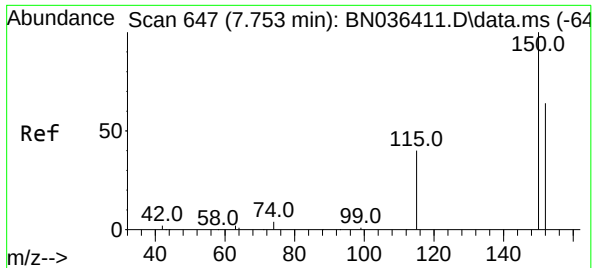
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN030625\
Data File : BN036538.D
Acq On : 06 Mar 2025 17:12
Operator : RC/JU
Sample : Q1501-06MSD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BR-05-465-030525MSD

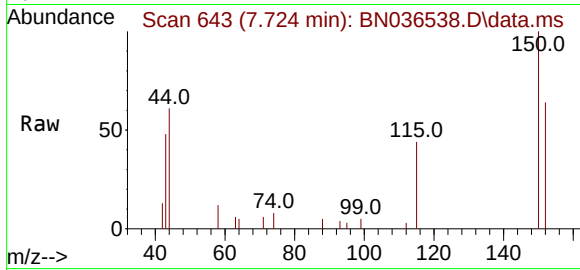
Quant Time: Mar 06 18:00:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 16:08:57 2025
Response via : Initial Calibration



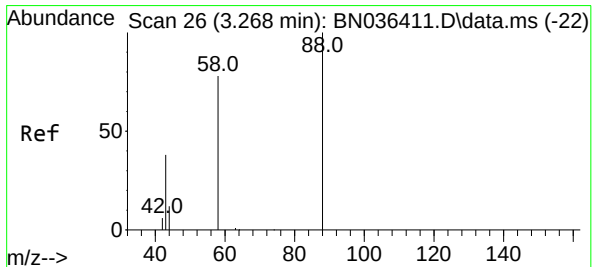
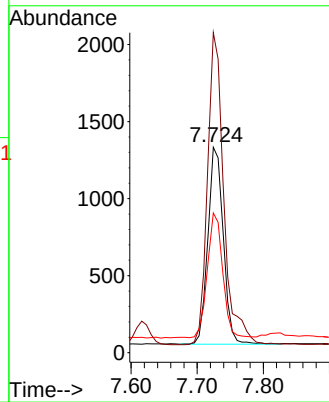
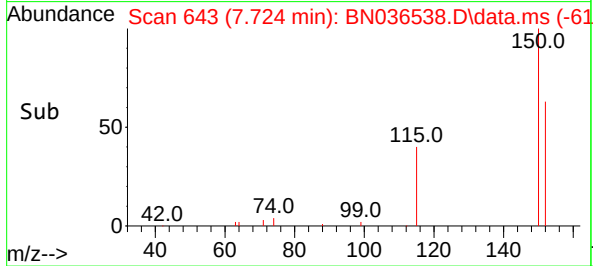


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. -0.008 min
Lab File: BN036538.D
Acq: 06 Mar 2025 17:12

Instrument :
BNA_N
ClientSampleId :
BR-05-465-030525MSD

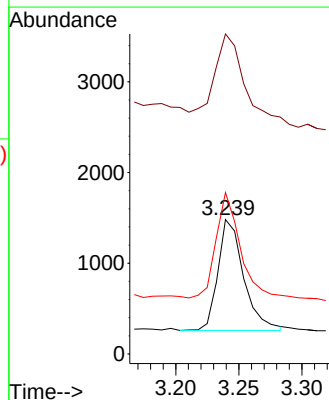
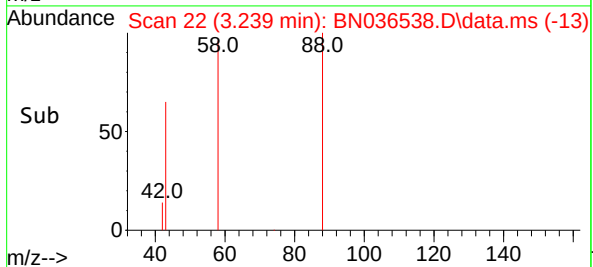
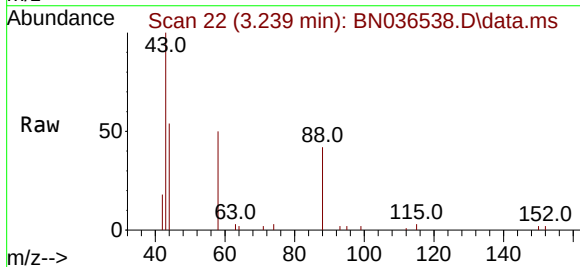


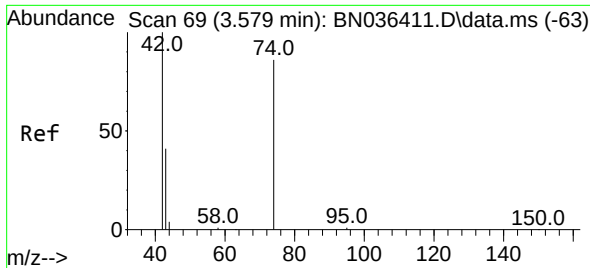
Tgt Ion: 152 Resp: 2073
Ion Ratio Lower Upper
152 100
150 155.7 123.7 185.5
115 68.0 52.5 78.7



#2
1,4-Dioxane
Concen: 0.762 ng
RT: 3.239 min Scan# 22
Delta R.T. -0.007 min
Lab File: BN036538.D
Acq: 06 Mar 2025 17:12

Tgt Ion: 88 Resp: 1729
Ion Ratio Lower Upper
88 100
43 77.2 33.7 50.5#
58 88.5 68.9 103.3

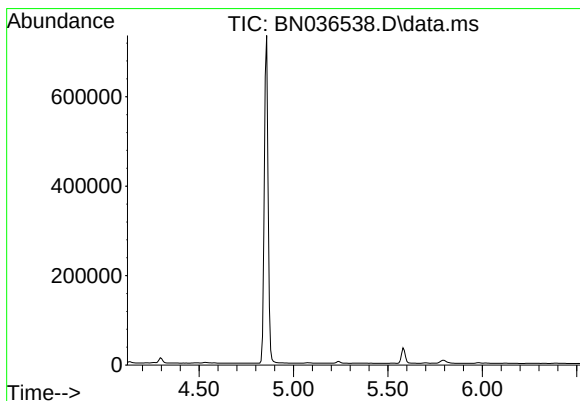
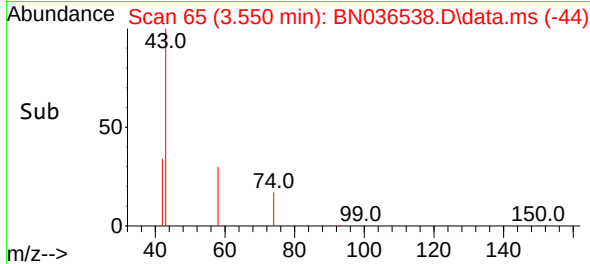
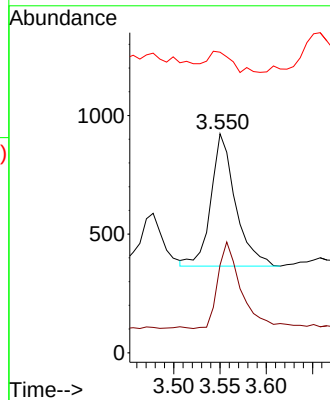
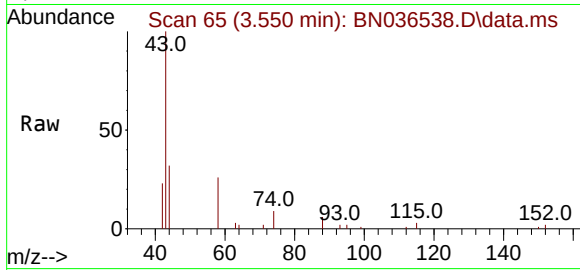




#3
n-Nitrosodimethylamine
Concen: 0.261 ng
RT: 3.550 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN036538.D
Acq: 06 Mar 2025 17:12

Instrument :
BNA_N
ClientSampleId :
BR-05-465-030525MSD

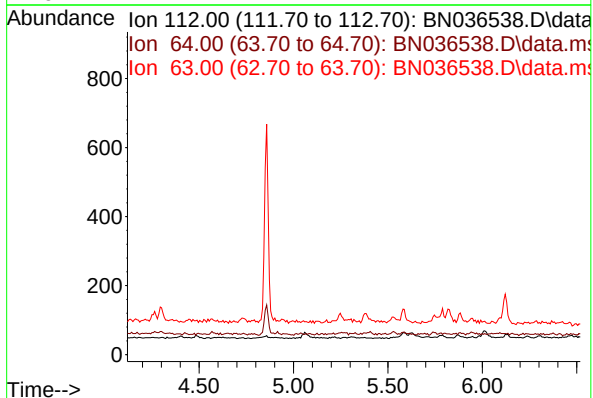
Tgt Ion: 42 Resp: 1029
Ion Ratio Lower Upper
42 100
74 64.4 71.8 107.6#
44 14.9 7.8 11.6#

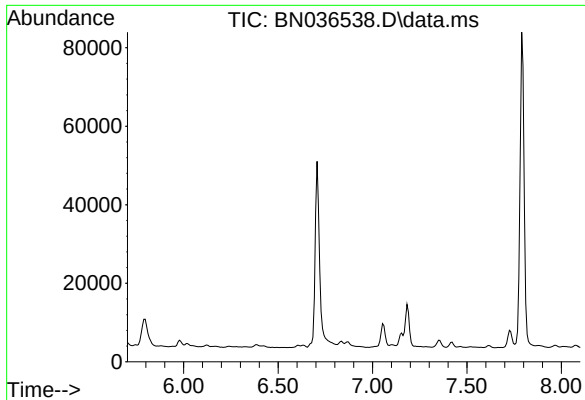


#4
2-Fluorophenol
Concen: 0.000 ng
Expected RT: 5.32 min

Lab File: BN036538.D
Acq: 06 Mar 2025 17:12

Tgt Ion: 112
Sig Exp Ratio
112 100
64 66.7
63 37.9



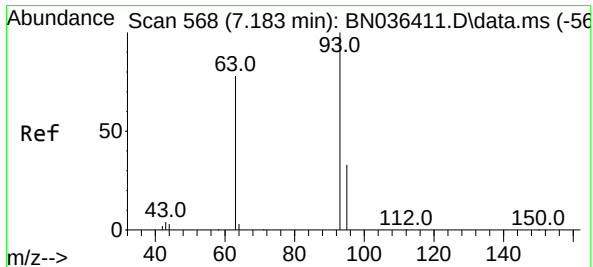
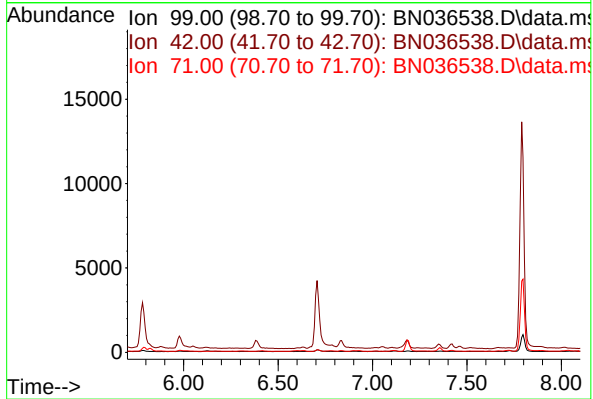


#5
Phenol-d6
Concen: 0.000 ng
Expected RT: 6.90 min

Lab File: BN036538.D
Acq: 06 Mar 2025 17:12

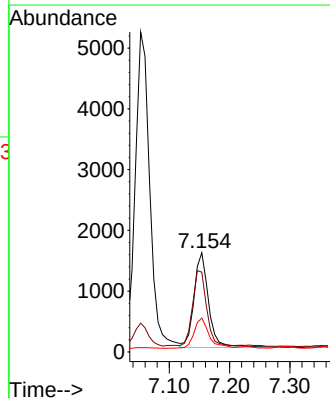
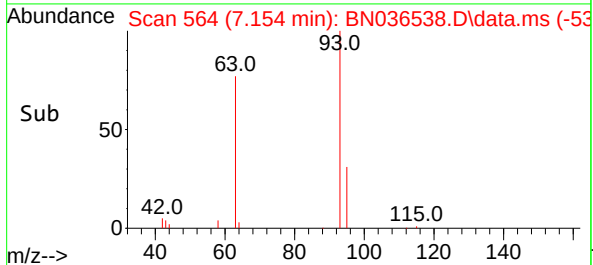
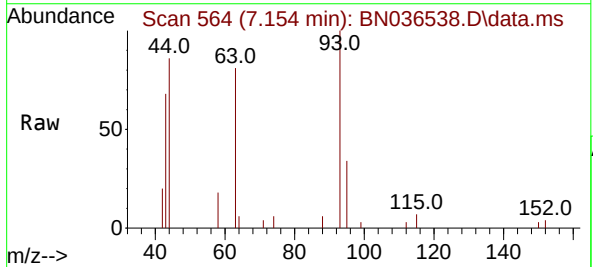
Instrument :
BNA_N
ClientSampleId :
BR-05-465-030525MSD

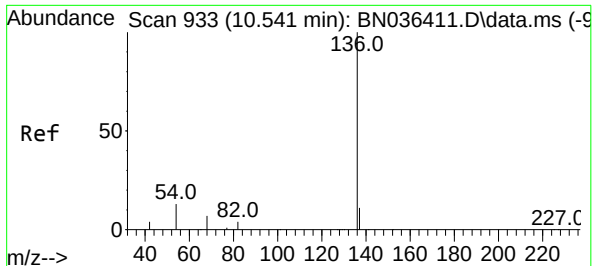
Tgt Ion: 99
Sig Exp Ratio
99 100
42 27.1
71 40.8



#6
bis(2-Chloroethyl)ether
Concen: 0.434 ng
RT: 7.154 min Scan# 564
Delta R.T. -0.000 min
Lab File: BN036538.D
Acq: 06 Mar 2025 17:12

Tgt Ion: 93 Resp: 2606
Ion Ratio Lower Upper
93 100
63 78.0 66.3 99.5
95 32.7 26.2 39.4

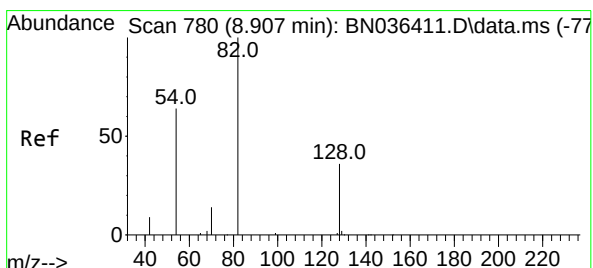
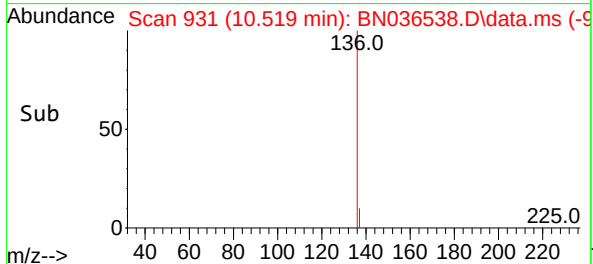
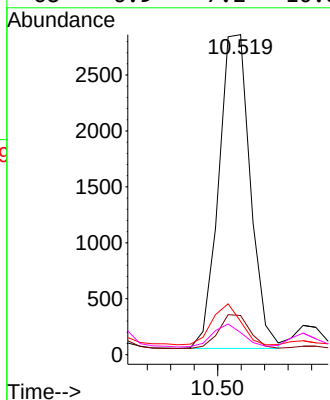
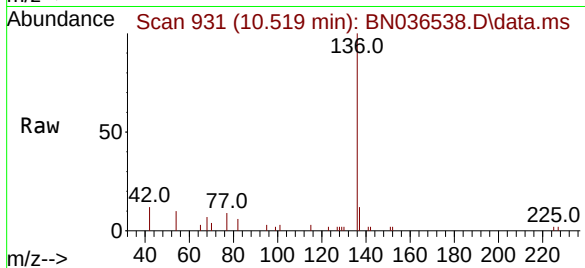




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.519 min Scan# 911
Delta R.T. 0.011 min
Lab File: BN036538.D
Acq: 06 Mar 2025 17:12

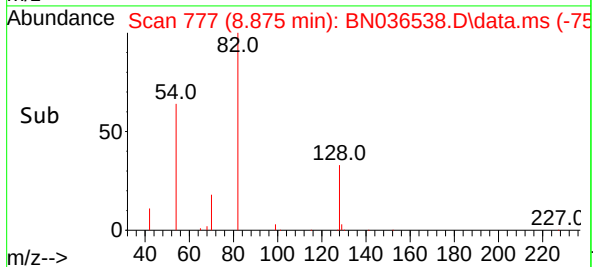
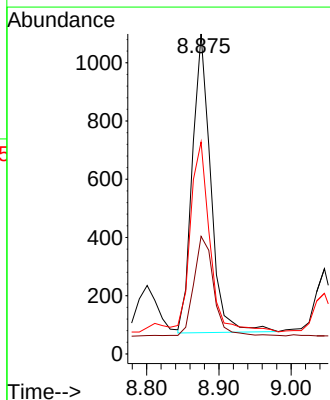
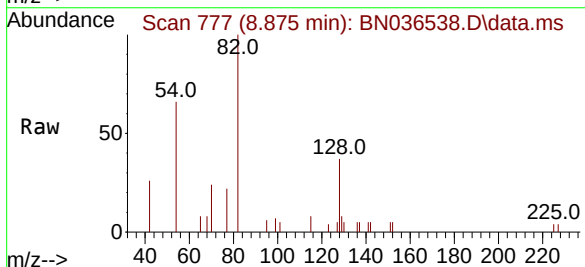
Instrument :
BNA_N
ClientSampleId :
BR-05-465-030525MSD

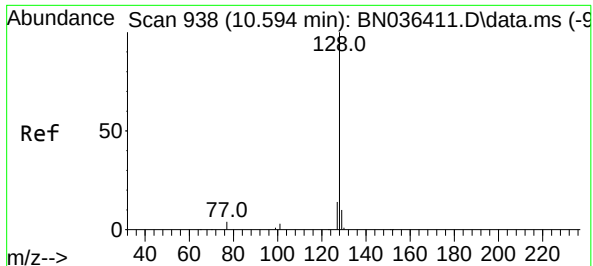
Tgt Ion:	136	Resp:	5251
Ion	Ratio	Lower	Upper
136	100		
137	12.3	10.1	15.1
54	10.4	11.8	17.6#
68	6.9	7.2	10.8#



#8
Nitrobenzene-d5
Concen: 0.352 ng
RT: 8.875 min Scan# 777
Delta R.T. -0.000 min
Lab File: BN036538.D
Acq: 06 Mar 2025 17:12

Tgt Ion:	82	Resp:	1823
Ion	Ratio	Lower	Upper
82	100		
128	36.8	31.9	47.9
54	66.2	53.1	79.7

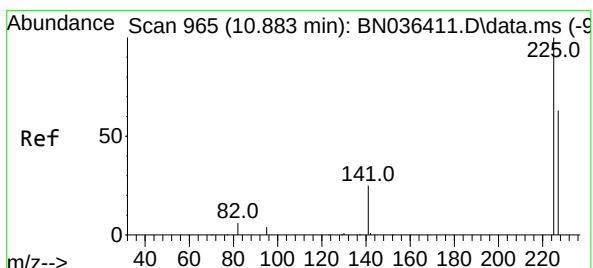
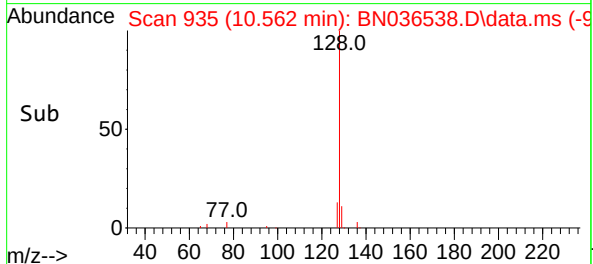
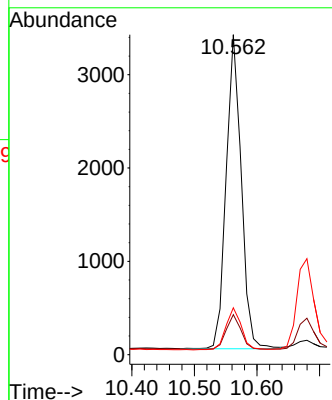
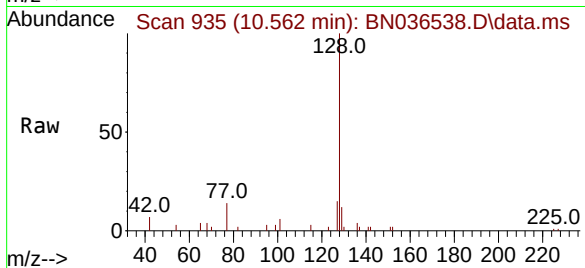




#9
Naphthalene
Concen: 0.373 ng
RT: 10.562 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN036538.D
Acq: 06 Mar 2025 17:12

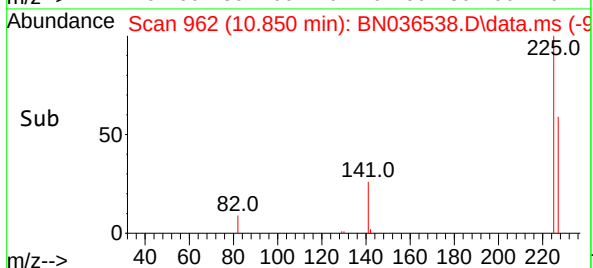
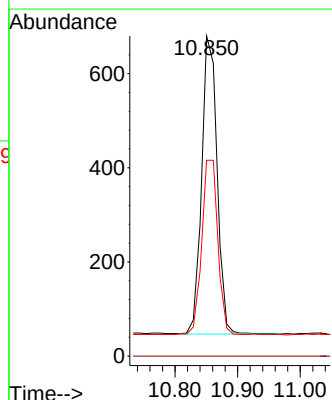
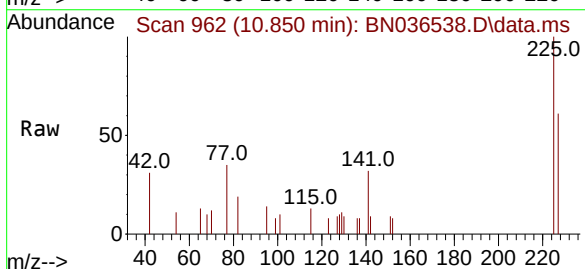
Instrument :
BNA_N
ClientSampleId :
BR-05-465-030525MSD

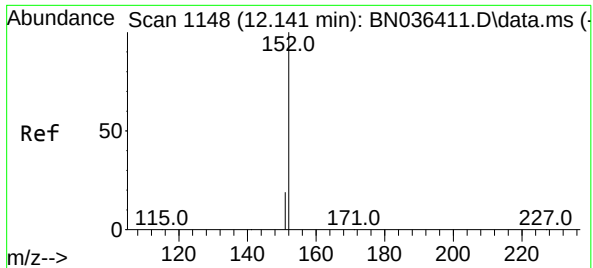
Tgt Ion:	128	Resp:	5644
Ion	Ratio	Lower	Upper
128	100		
129	12.5	9.6	14.4
127	14.7	12.0	18.0



#10
Hexachlorobutadiene
Concen: 0.294 ng
RT: 10.850 min Scan# 962
Delta R.T. -0.000 min
Lab File: BN036538.D
Acq: 06 Mar 2025 17:12

Tgt Ion:	225	Resp:	1085
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	60.7	50.9	76.3

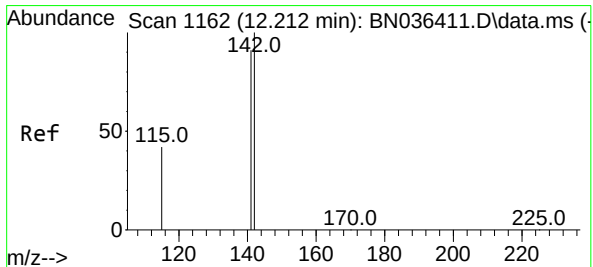
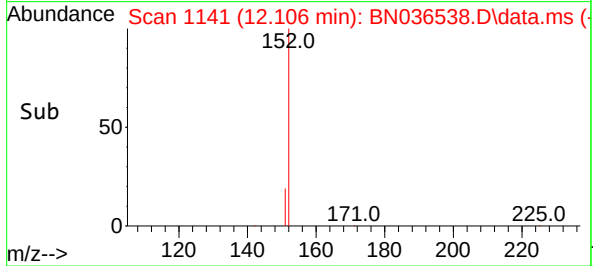
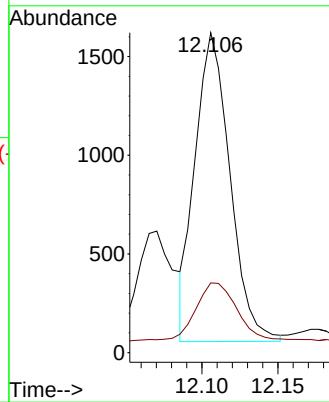
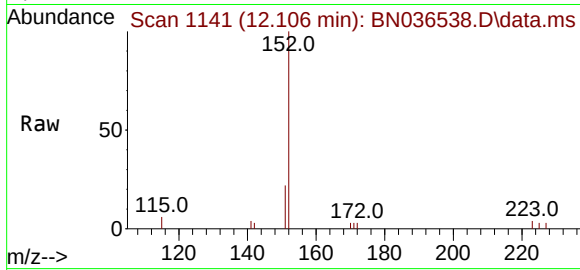




#11
2-Methylnaphthalene-d10
Concen: 0.309 ng
RT: 12.106 min Scan# 1141
Delta R.T. -0.000 min
Lab File: BN036538.D
Acq: 06 Mar 2025 17:12

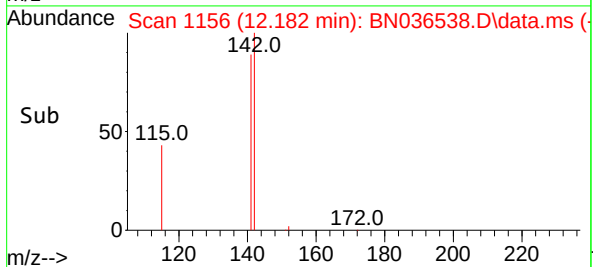
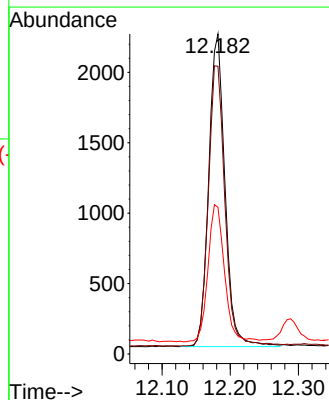
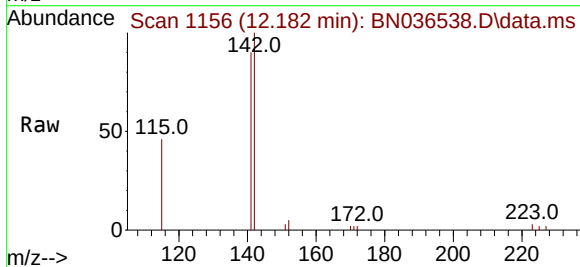
Instrument :
BNA_N
ClientSampleId :
BR-05-465-030525MSD

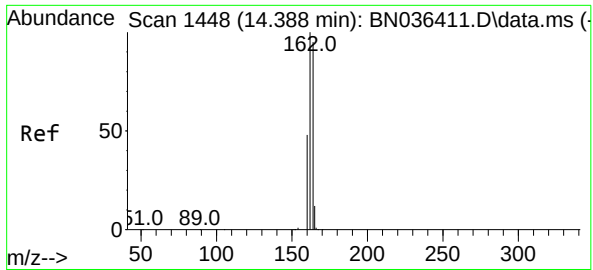
Tgt Ion:152 Resp: 2497
Ion Ratio Lower Upper
152 100
151 22.8 16.6 25.0



#12
2-Methylnaphthalene
Concen: 0.370 ng
RT: 12.182 min Scan# 1156
Delta R.T. 0.000 min
Lab File: BN036538.D
Acq: 06 Mar 2025 17:12

Tgt Ion:142 Resp: 3676
Ion Ratio Lower Upper
142 100
141 89.9 72.8 109.2
115 45.8 35.5 53.3

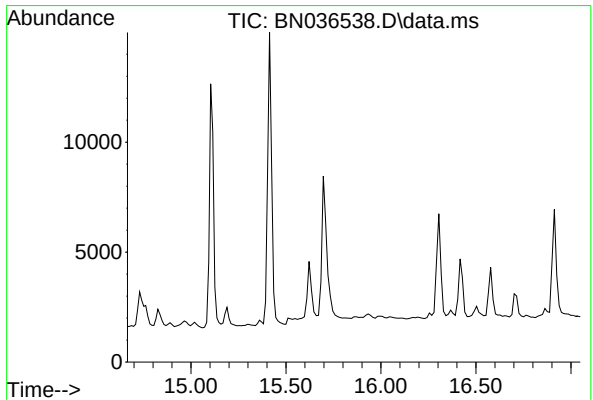
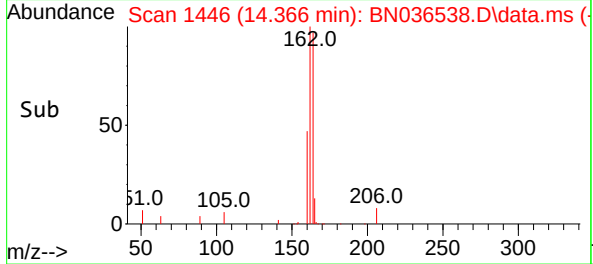
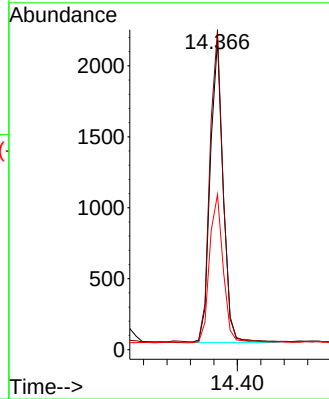
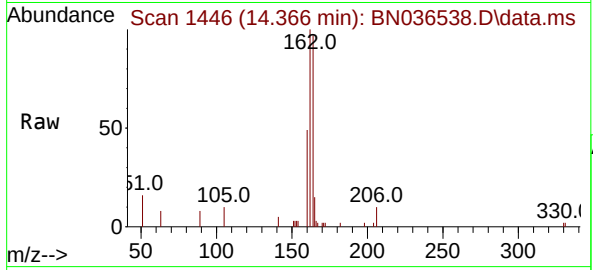




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN036538.D
Acq: 06 Mar 2025 17:12

Instrument :
BNA_N
ClientSampleId :
BR-05-465-030525MSD

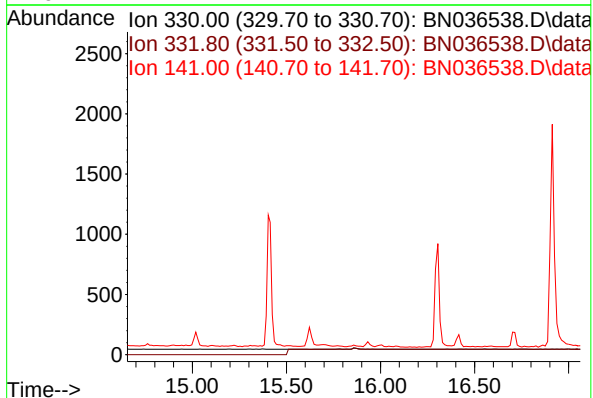
Tgt Ion:164 Resp: 3279
Ion Ratio Lower Upper
164 100
162 103.4 84.1 126.1
160 50.2 41.4 62.0



#14
2,4,6-Tribromophenol
Concen: 0.000 ng
Expected RT: 15.86 min

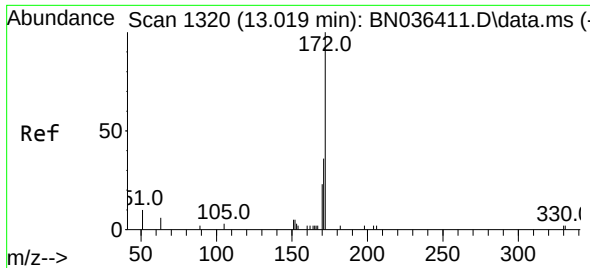
Lab File: BN036538.D
Acq: 06 Mar 2025 17:12

Tgt Ion: 330
Sig Exp Ratio
330 100
332 95.7
141 47.3



Ion 331.80 (331.50 to 332.50): BN036538.D\data.ms

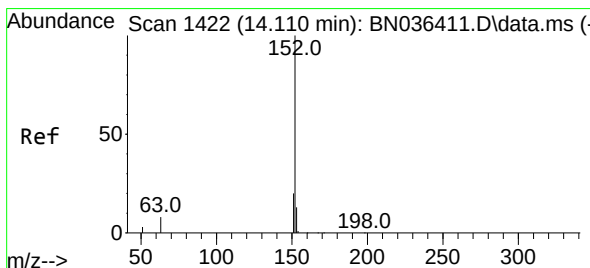
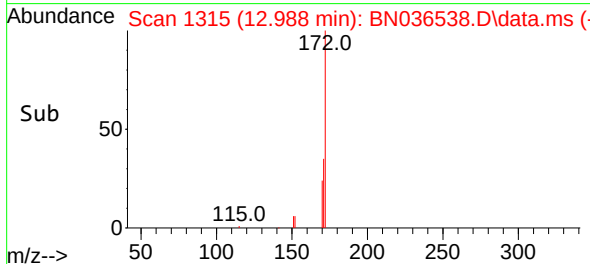
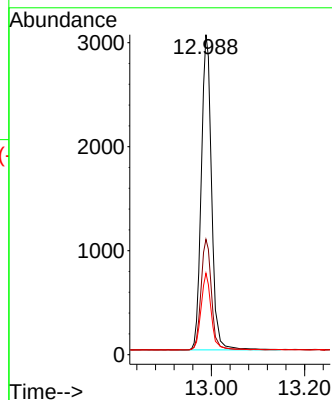
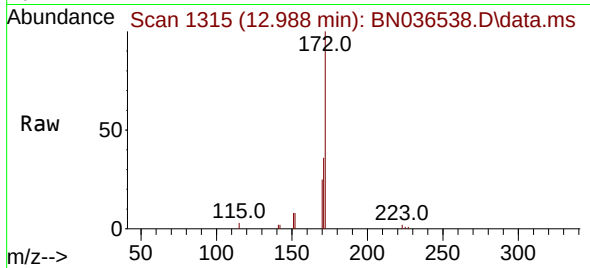
Ion 141.00 (140.70 to 141.70): BN036538.D\data.ms



#15
2-Fluorobiphenyl
Concen: 0.550 ng
RT: 12.988 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN036538.D
Acq: 06 Mar 2025 17:12

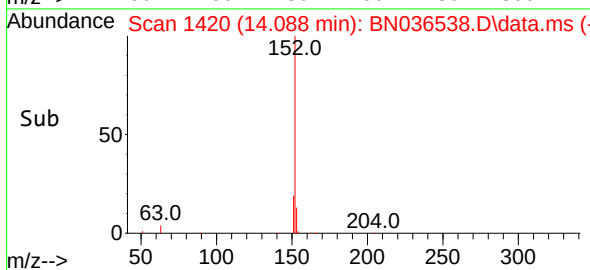
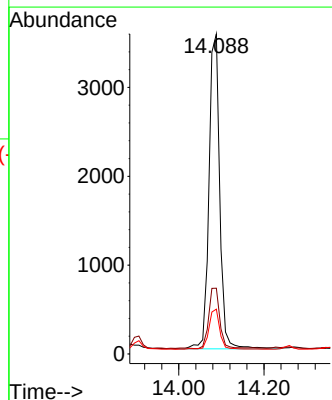
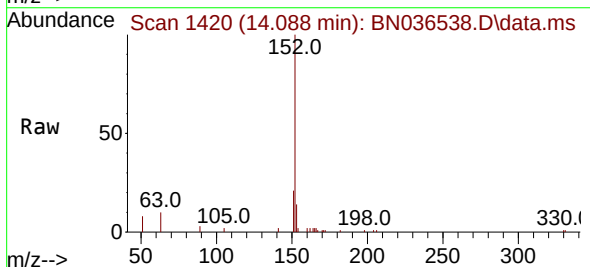
Instrument :
BNA_N
ClientSampleId :
BR-05-465-030525MSD

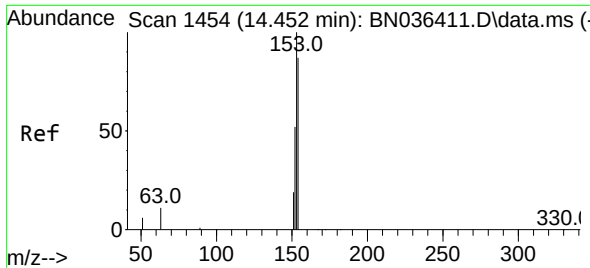
Tgt Ion:	172	Resp:	6786
Ion Ratio	Lower	Upper	
172	100		
171	36.1	29.6	44.4
170	25.4	19.8	29.6



#16
Acenaphthylene
Concen: 0.427 ng
RT: 14.088 min Scan# 1420
Delta R.T. 0.011 min
Lab File: BN036538.D
Acq: 06 Mar 2025 17:12

Tgt Ion:	152	Resp:	6191
Ion Ratio	Lower	Upper	
152	100		
151	19.9	15.8	23.8
153	12.9	10.2	15.2

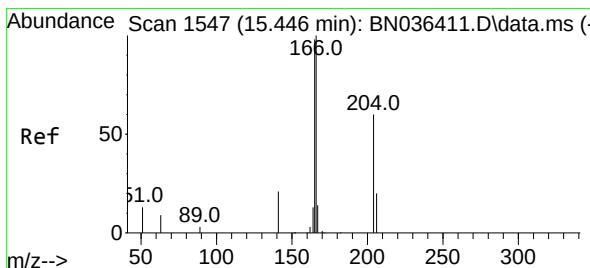
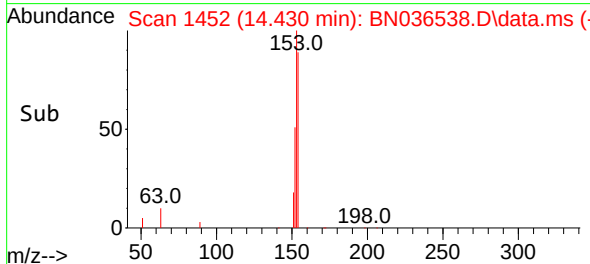
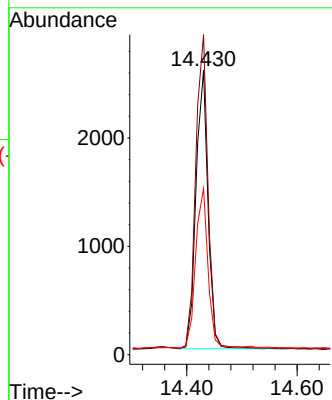
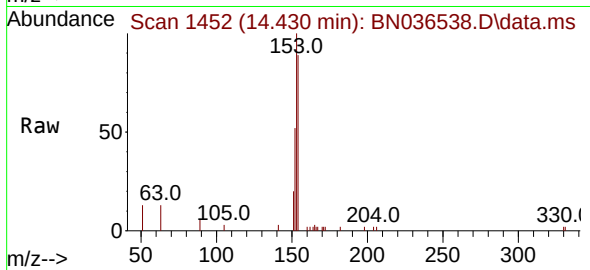




#17
Acenaphthene
Concen: 0.401 ng
RT: 14.430 min Scan# 1452
Delta R.T. -0.000 min
Lab File: BN036538.D
Acq: 06 Mar 2025 17:12

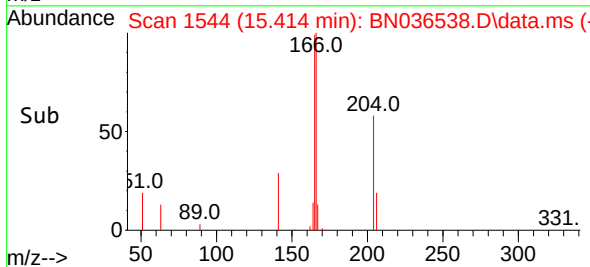
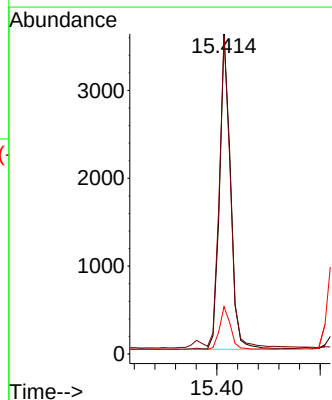
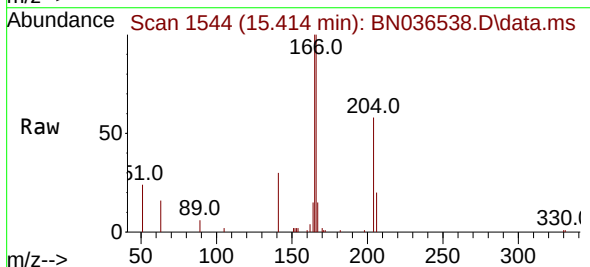
Instrument :
BNA_N
ClientSampleId :
BR-05-465-030525MSD

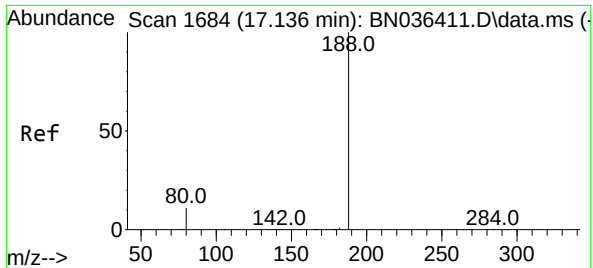
Tgt Ion:154 Resp: 3874
Ion Ratio Lower Upper
154 100
153 115.4 93.3 139.9
152 58.4 48.8 73.2



#18
Fluorene
Concen: 0.389 ng
RT: 15.414 min Scan# 1544
Delta R.T. -0.000 min
Lab File: BN036538.D
Acq: 06 Mar 2025 17:12

Tgt Ion:166 Resp: 5352
Ion Ratio Lower Upper
166 100
165 104.3 79.5 119.3
167 13.5 10.4 15.6





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.111 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN036538.D

Acq: 06 Mar 2025 17:12

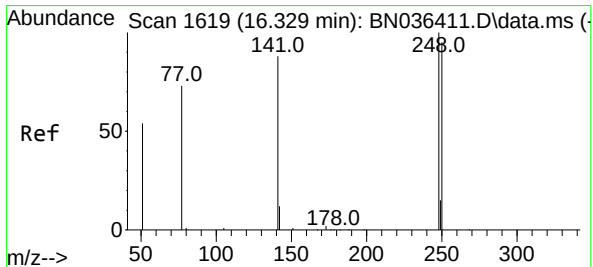
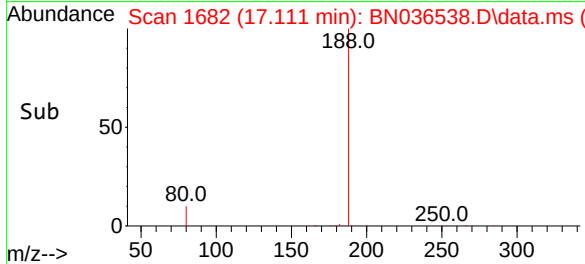
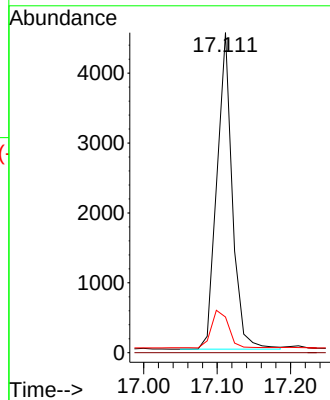
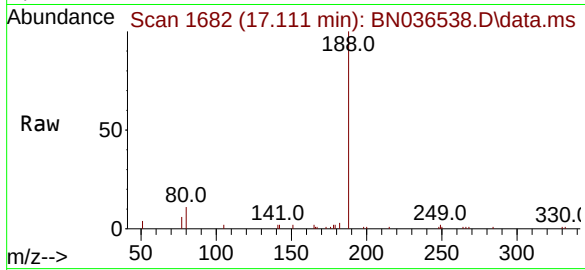
Instrument :

BNA_N

ClientSampleId :

BR-05-465-030525MSD

Tgt Ion:188	Resp:	6612
Ion Ratio	Lower	Upper
188	100	
94	0.0	0.0
80	11.1	9.8



#21

4-Bromophenyl-phenylether

Concen: 0.436 ng

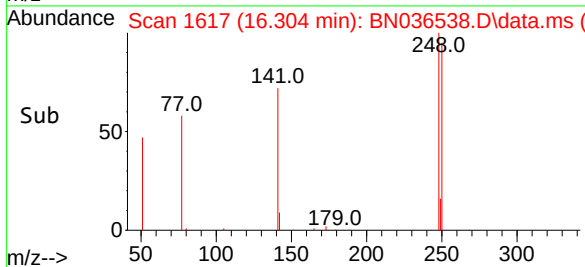
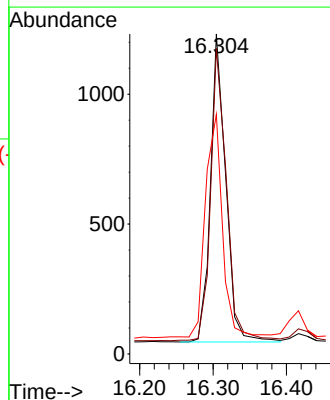
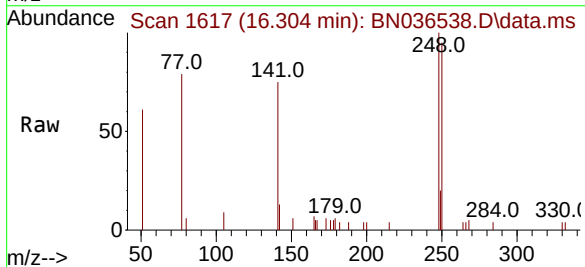
RT: 16.304 min Scan# 1617

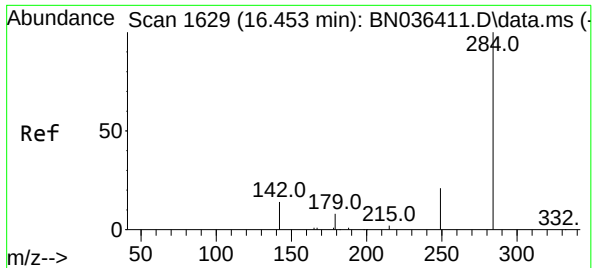
Delta R.T. -0.000 min

Lab File: BN036538.D

Acq: 06 Mar 2025 17:12

Tgt Ion:248	Resp:	1718
Ion Ratio	Lower	Upper
248	100	
250	95.5	76.1
141	74.8	71.7

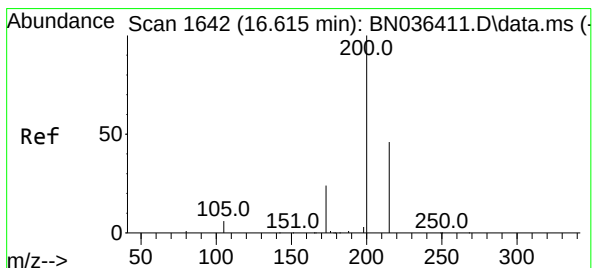
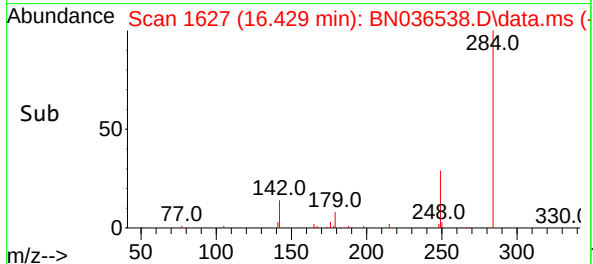
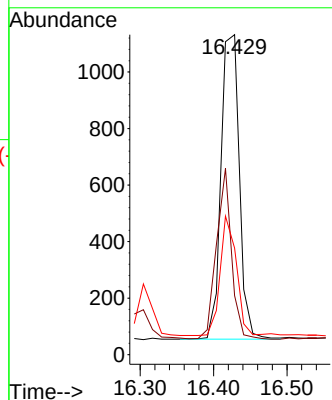
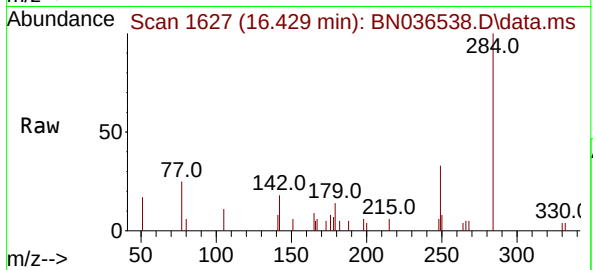




#22
Hexachlorobenzene
Concen: 0.384 ng
RT: 16.429 min Scan# 1627
Delta R.T. 0.012 min
Lab File: BN036538.D
Acq: 06 Mar 2025 17:12

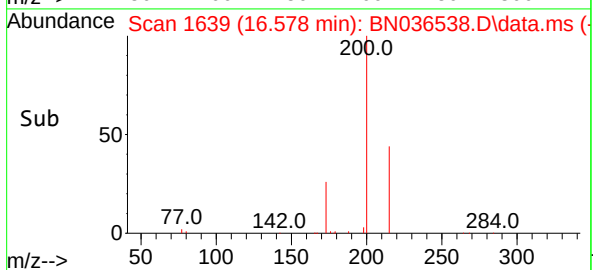
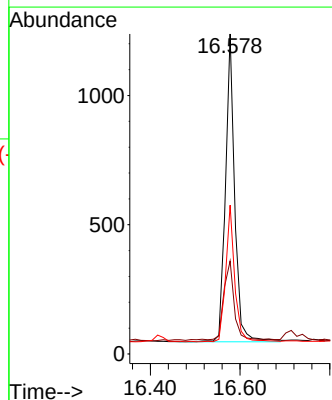
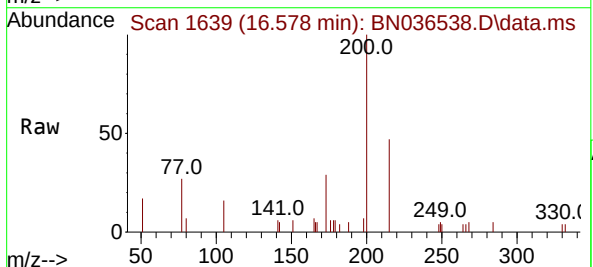
Instrument :
BNA_N
ClientSampleId :
BR-05-465-030525MSD

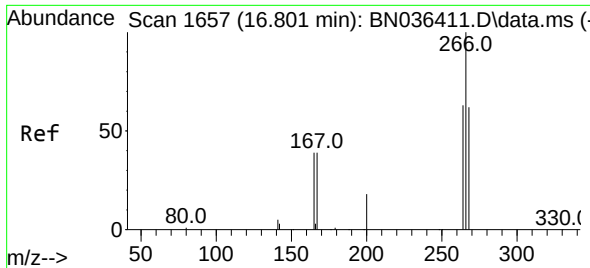
Tgt Ion:284 Resp: 1870
Ion Ratio Lower Upper
284 100
142 45.8 33.4 50.0
249 36.3 28.6 43.0



#23
Atrazine
Concen: 0.521 ng
RT: 16.578 min Scan# 1639
Delta R.T. -0.000 min
Lab File: BN036538.D
Acq: 06 Mar 2025 17:12

Tgt Ion:200 Resp: 1716
Ion Ratio Lower Upper
200 100
173 29.1 23.2 34.8
215 46.5 40.0 60.0

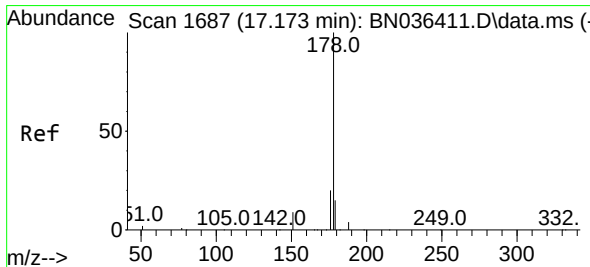
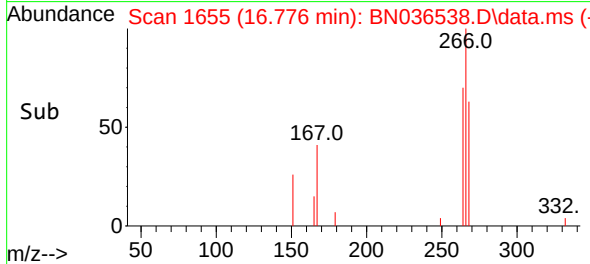
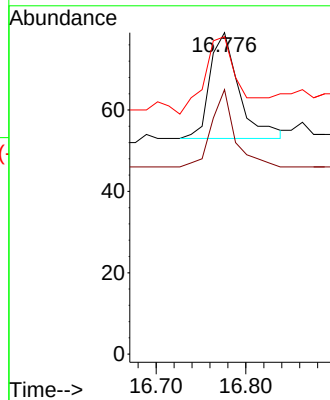
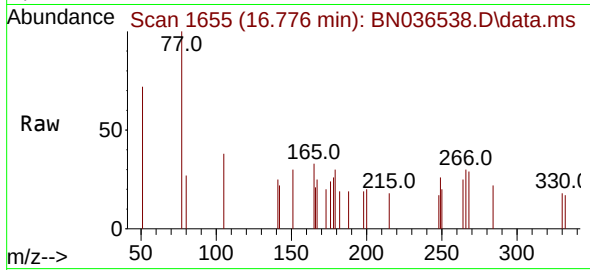




#24
Pentachlorophenol
Concen: 0.026 ng
RT: 16.776 min Scan# 1655
Delta R.T. 0.012 min
Lab File: BN036538.D
Acq: 06 Mar 2025 17:12

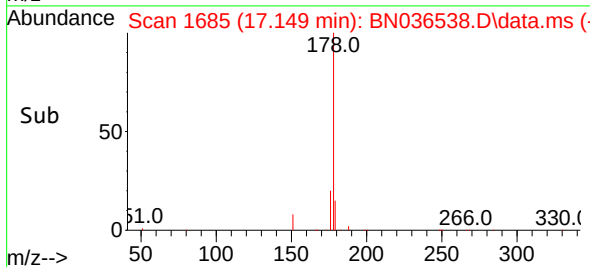
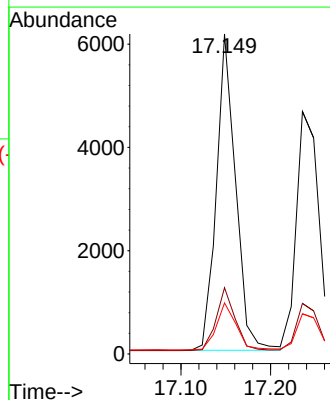
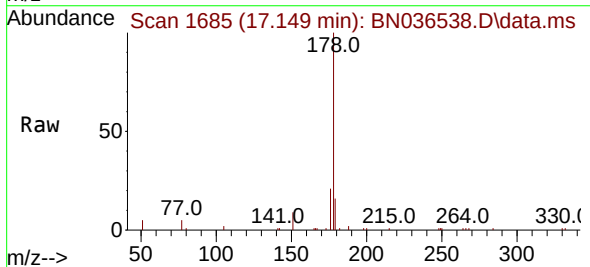
Instrument :
BNA_N
ClientSampleId :
BR-05-465-030525MSD

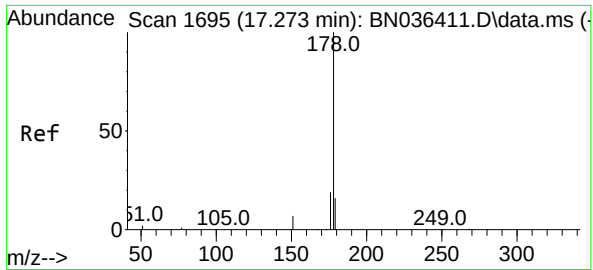
Tgt Ion:266 Resp: 59
Ion Ratio Lower Upper
266 100
264 57.6 50.6 76.0
268 81.4 51.9 77.9#



#25
Phenanthrene
Concen: 0.480 ng
RT: 17.149 min Scan# 1685
Delta R.T. -0.000 min
Lab File: BN036538.D
Acq: 06 Mar 2025 17:12

Tgt Ion:178 Resp: 9178
Ion Ratio Lower Upper
178 100
176 19.5 15.7 23.5
179 15.5 12.4 18.6

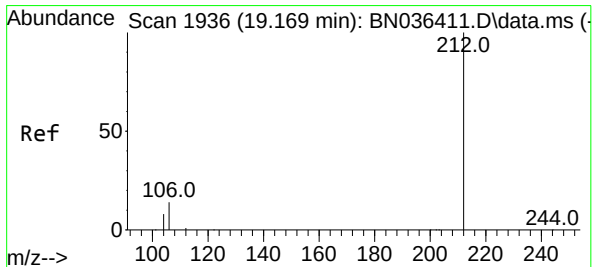
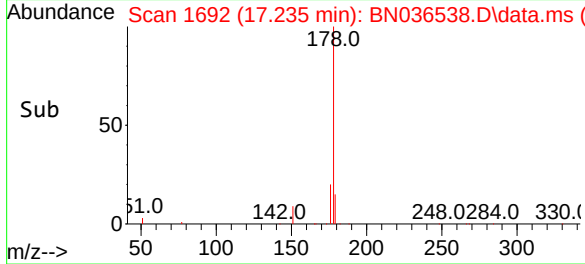
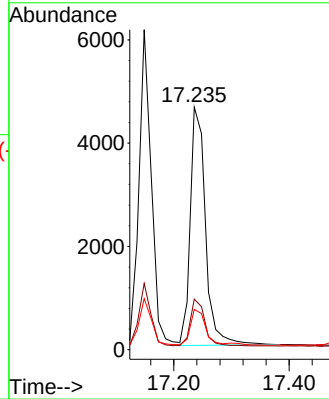
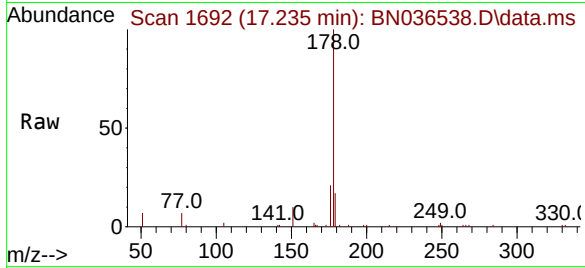




#26
Anthracene
Concen: 0.502 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.000 min
Lab File: BN036538.D
Acq: 06 Mar 2025 17:12

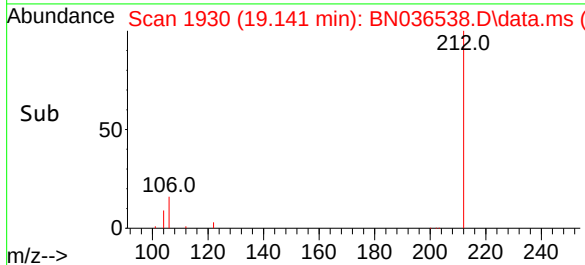
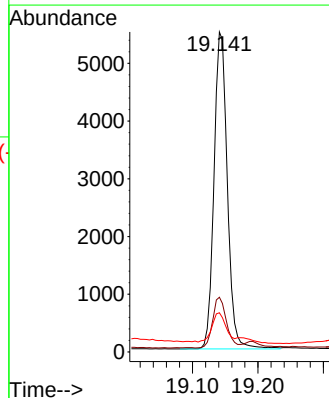
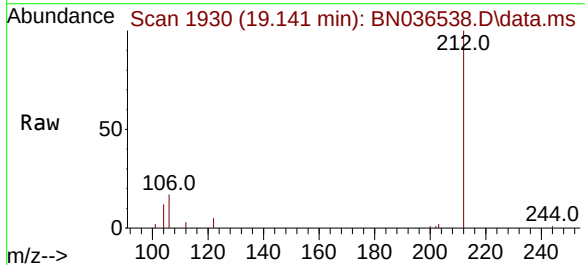
Instrument :
BNA_N
ClientSampleId :
BR-05-465-030525MSD

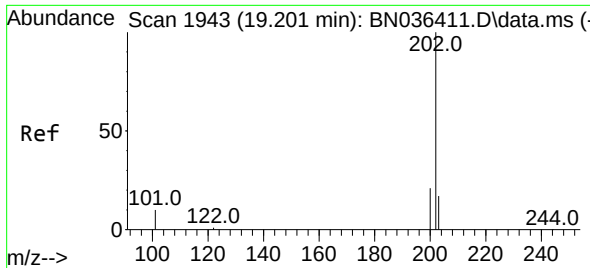
Tgt Ion:	178	Resp:	8460
Ion	Ratio	Lower	Upper
178	100		
176	19.1	14.9	22.3
179	15.9	12.4	18.6



#27
Fluoranthene-d10
Concen: 0.423 ng
RT: 19.141 min Scan# 1930
Delta R.T. -0.000 min
Lab File: BN036538.D
Acq: 06 Mar 2025 17:12

Tgt Ion:	212	Resp:	7783
Ion	Ratio	Lower	Upper
212	100		
106	16.7	11.5	17.3
104	9.5	7.1	10.7

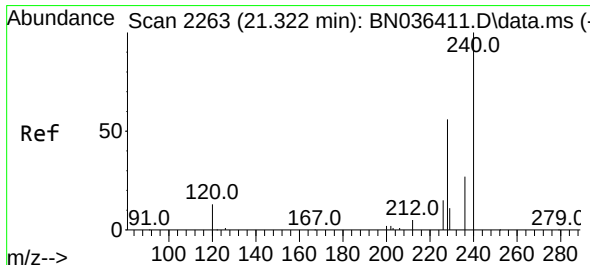
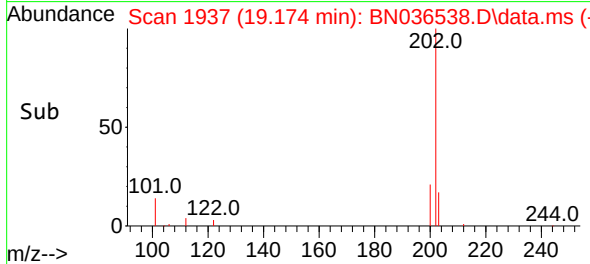
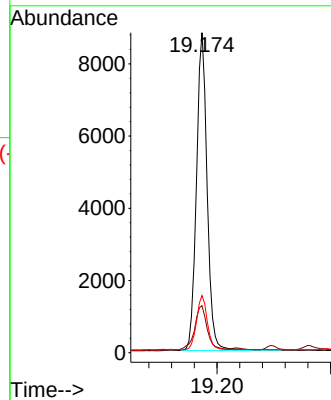
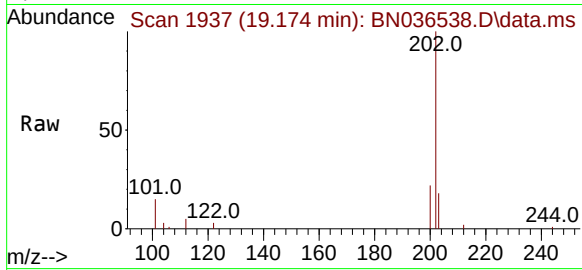




#28
Fluoranthene
Concen: 0.488 ng
RT: 19.174 min Scan# 1943
Delta R.T. -0.000 min
Lab File: BN036538.D
Acq: 06 Mar 2025 17:12

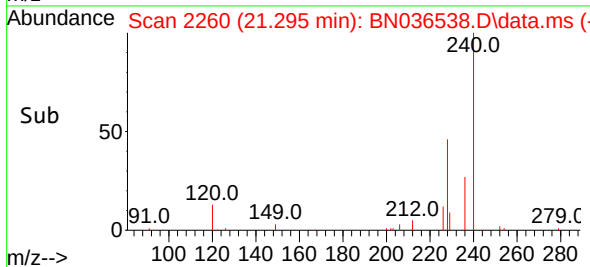
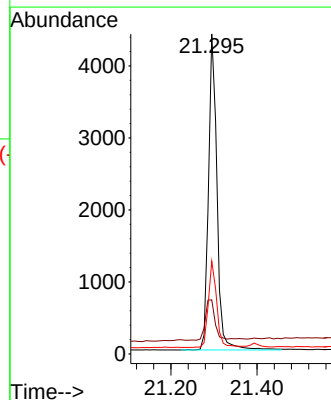
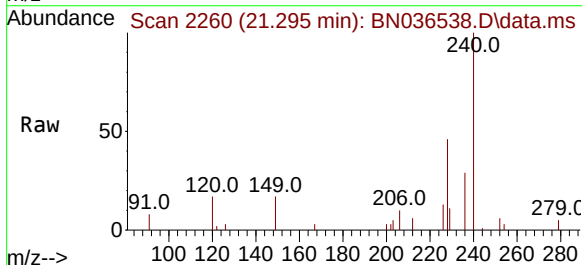
Instrument :
BNA_N
ClientSampleId :
BR-05-465-030525MSD

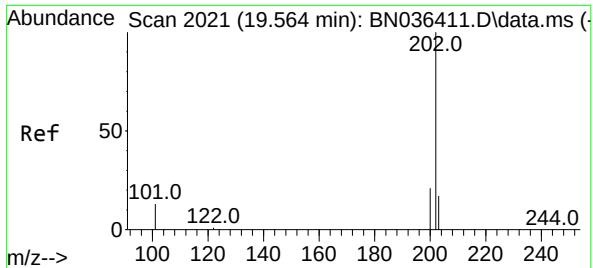
Tgt Ion:202 Resp: 11456
Ion Ratio Lower Upper
202 100
101 16.4 9.2 13.8#
203 17.2 13.4 20.0



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2260
Delta R.T. -0.000 min
Lab File: BN036538.D
Acq: 06 Mar 2025 17:12

Tgt Ion:240 Resp: 6058
Ion Ratio Lower Upper
240 100
120 16.9 13.3 19.9
236 29.0 23.0 34.6

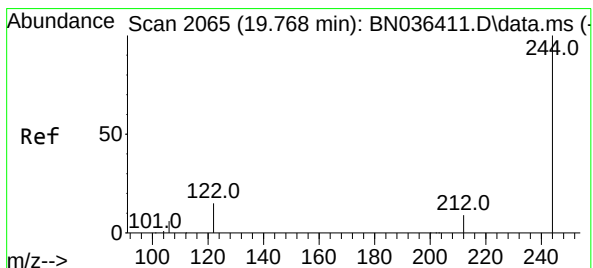
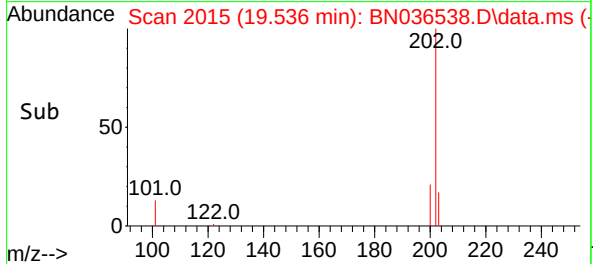
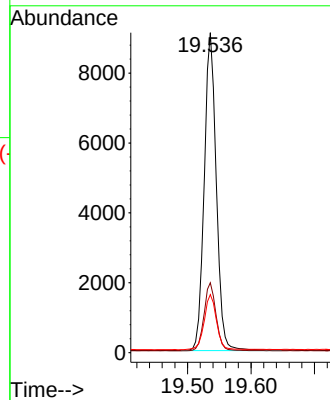
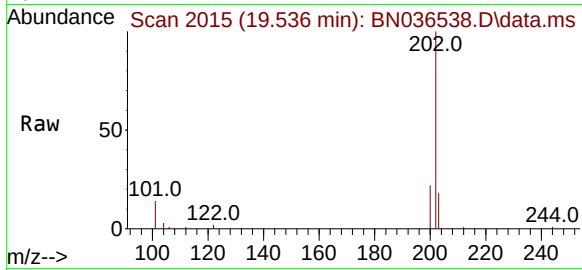




#30
Pyrene
Concen: 0.515 ng
RT: 19.536 min Scan# 20
Delta R.T. -0.000 min
Lab File: BN036538.D
Acq: 06 Mar 2025 17:12

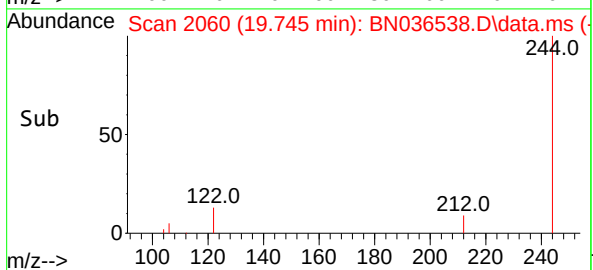
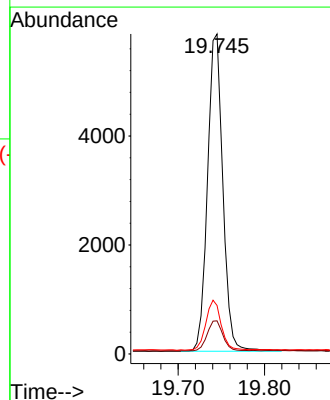
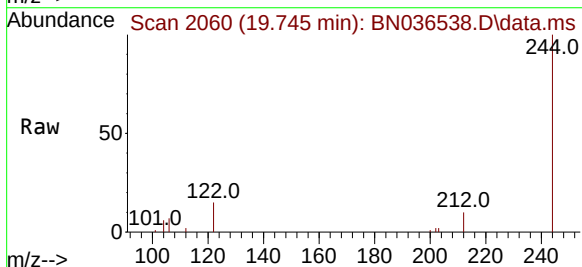
Instrument :
BNA_N
ClientSampleId :
BR-05-465-030525MSD

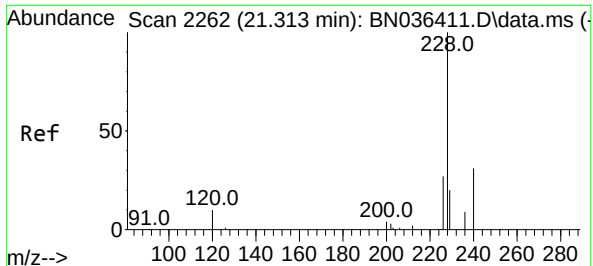
Tgt Ion:202	Resp:	12011
Ion Ratio	Lower	Upper
202	100	
200	21.3	16.9 25.3
203	17.7	13.9 20.9



#31
Terphenyl-d14
Concen: 0.556 ng
RT: 19.745 min Scan# 2060
Delta R.T. -0.000 min
Lab File: BN036538.D
Acq: 06 Mar 2025 17:12

Tgt Ion:244	Resp:	7194
Ion Ratio	Lower	Upper
244	100	
212	10.4	8.1 12.1
122	15.1	12.8 19.2





#32

Benzo(a)anthracene

Concen: 0.497 ng

RT: 21.277 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036538.D

Acq: 06 Mar 2025 17:12

Instrument :

BNA_N

ClientSampleId :

BR-05-465-030525MSD

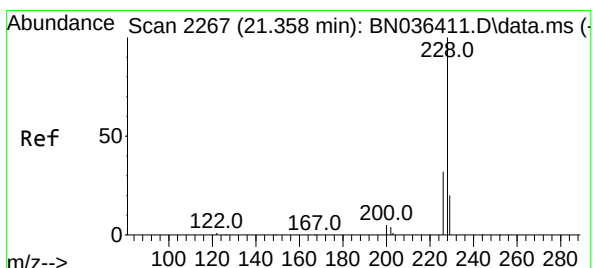
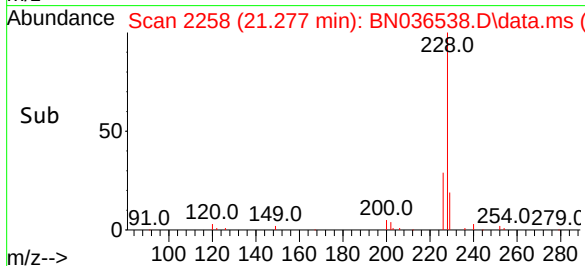
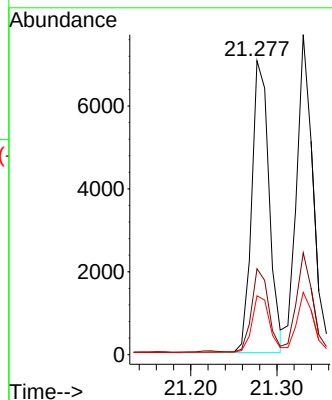
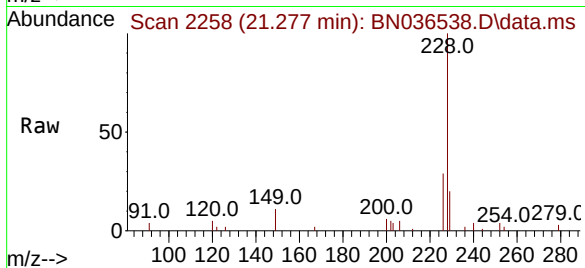
Tgt Ion:228 Resp: 9905

Ion Ratio Lower Upper

228 100

226 29.2 22.2 33.2

229 20.0 16.5 24.7



#33

Chrysene

Concen: 0.487 ng

RT: 21.331 min Scan# 2264

Delta R.T. -0.000 min

Lab File: BN036538.D

Acq: 06 Mar 2025 17:12

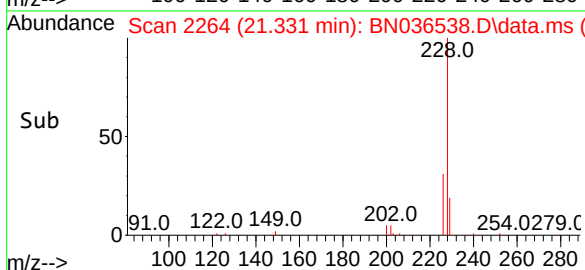
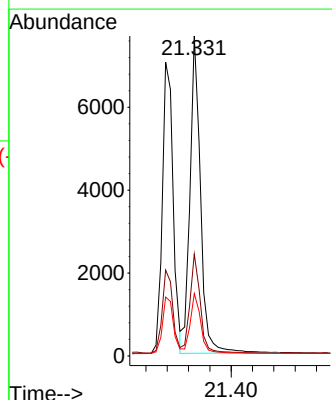
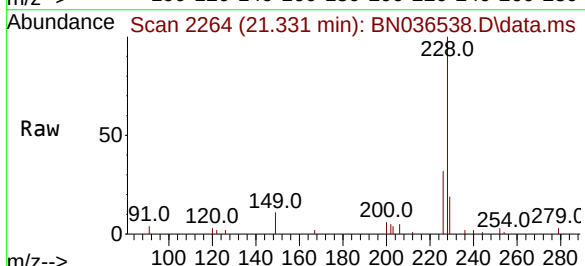
Tgt Ion:228 Resp: 10513

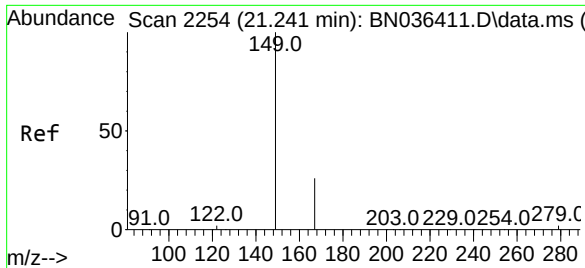
Ion Ratio Lower Upper

228 100

226 31.8 25.5 38.3

229 19.5 16.4 24.6

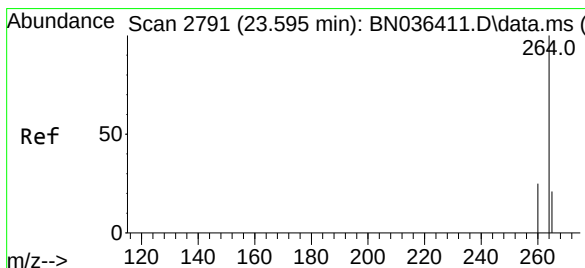
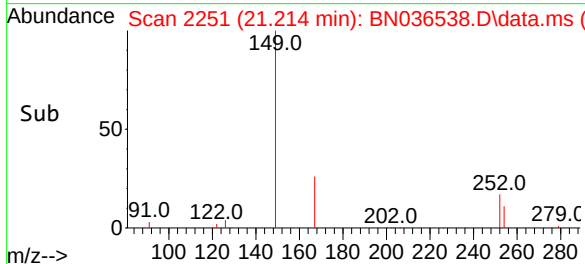
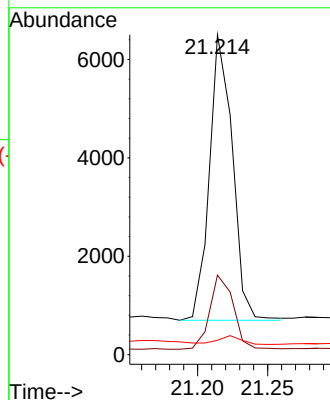
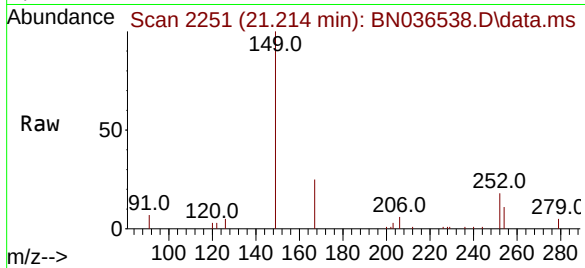




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.535 ng
RT: 21.214 min Scan# 2111
Delta R.T. -0.000 min
Lab File: BN036538.D
Acq: 06 Mar 2025 17:12

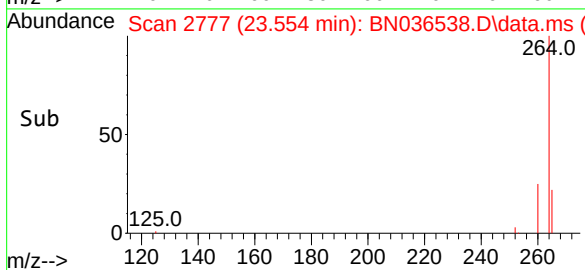
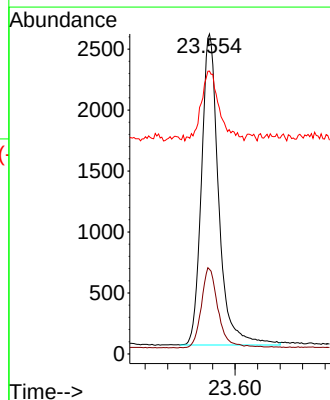
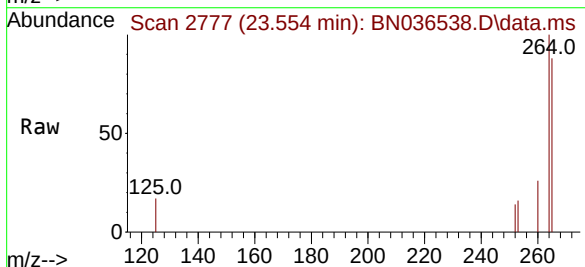
Instrument :
BNA_N
ClientSampleId :
BR-05-465-030525MSD

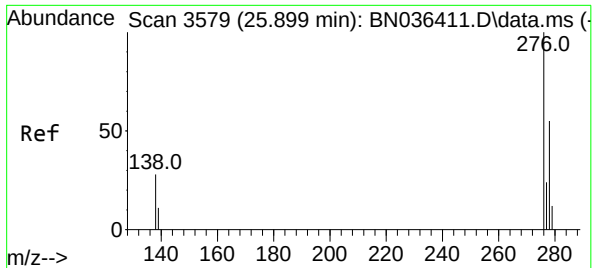
Tgt Ion:149 Resp: 6640
Ion Ratio Lower Upper
149 100
167 26.7 21.2 31.8
279 3.1 2.7 4.1



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.554 min Scan# 2777
Delta R.T. 0.003 min
Lab File: BN036538.D
Acq: 06 Mar 2025 17:12

Tgt Ion:264 Resp: 5433
Ion Ratio Lower Upper
264 100
260 26.4 20.9 31.3
265 88.4 60.7 91.1

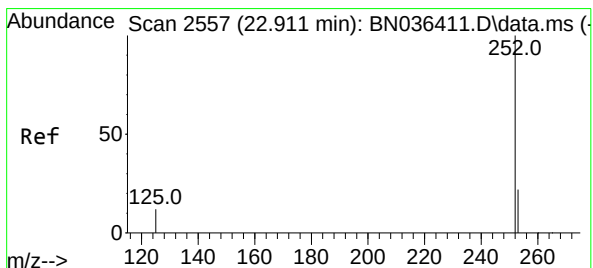
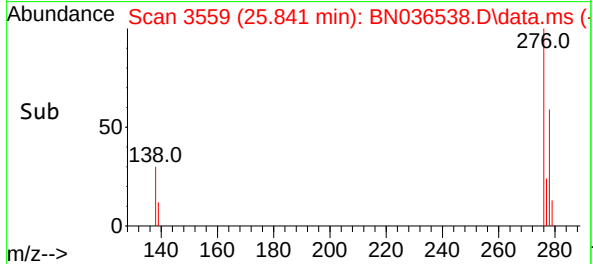
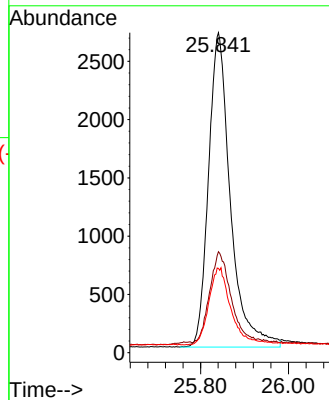
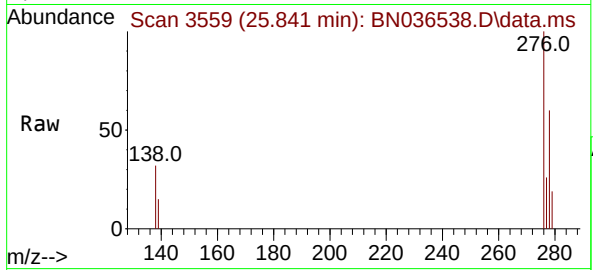




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.491 ng
RT: 25.841 min Scan# 31
Delta R.T. 0.003 min
Lab File: BN036538.D
Acq: 06 Mar 2025 17:12

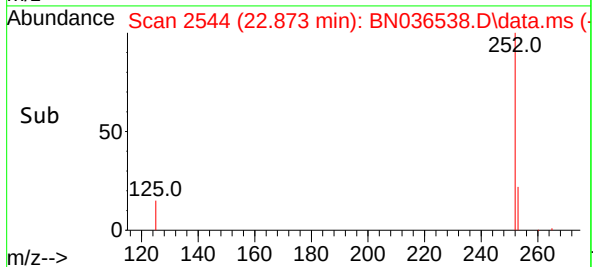
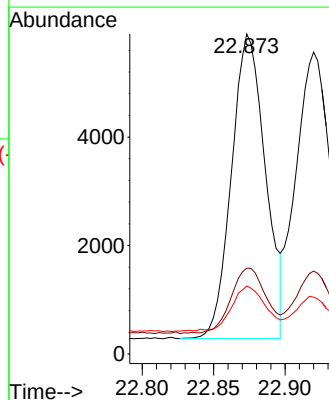
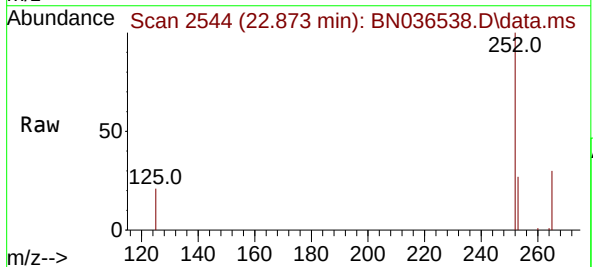
Instrument :
BNA_N
ClientSampleId :
BR-05-465-030525MSD

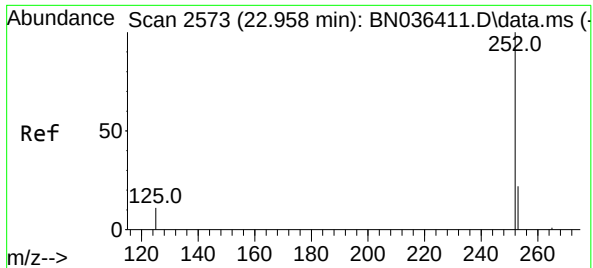
Tgt Ion:276 Resp: 9322
Ion Ratio Lower Upper
276 100
138 27.9 22.2 33.2
277 24.3 19.8 29.6



#37
Benzo(b)fluoranthene
Concen: 0.518 ng
RT: 22.873 min Scan# 2544
Delta R.T. -0.000 min
Lab File: BN036538.D
Acq: 06 Mar 2025 17:12

Tgt Ion:252 Resp: 9260
Ion Ratio Lower Upper
252 100
253 26.8 21.9 32.9
125 21.3 15.0 22.6

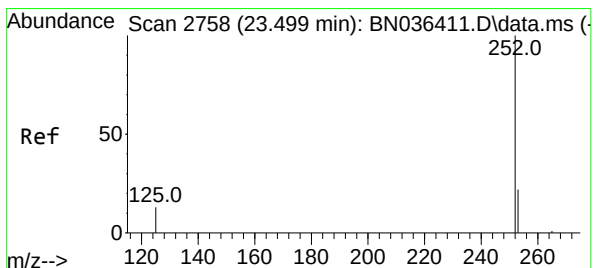
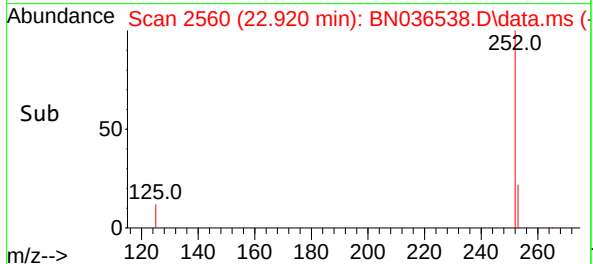
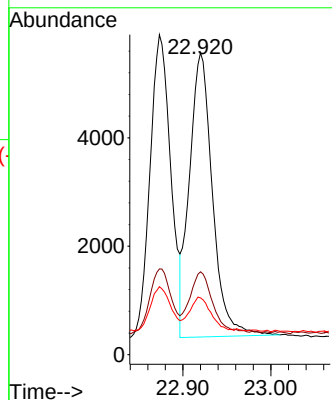
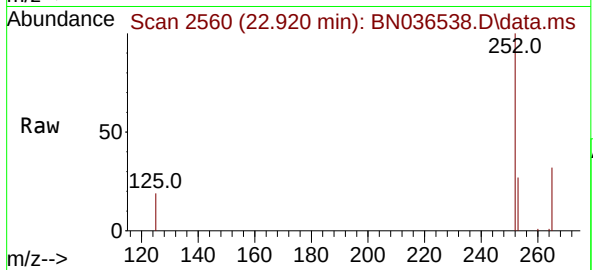




#38
Benzo(k)fluoranthene
Concen: 0.518 ng
RT: 22.920 min Scan# 21
Delta R.T. 0.003 min
Lab File: BN036538.D
Acq: 06 Mar 2025 17:12

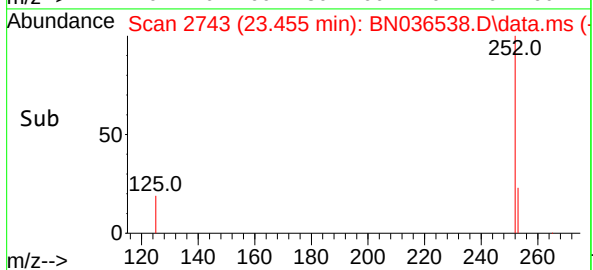
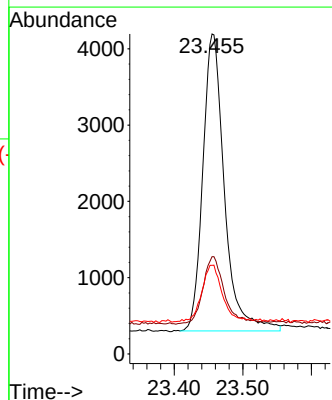
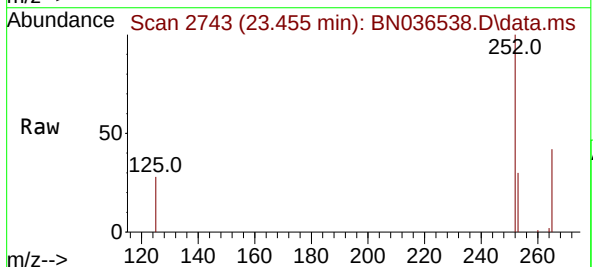
Instrument :
BNA_N
ClientSampleId :
BR-05-465-030525MSD

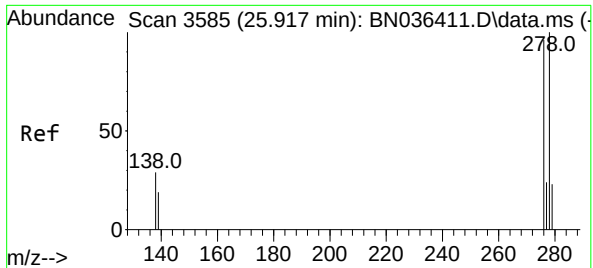
Tgt Ion:252 Resp: 9549
Ion Ratio Lower Upper
252 100
253 27.5 22.2 33.4
125 18.8 15.0 22.4



#39
Benzo(a)pyrene
Concen: 0.545 ng
RT: 23.455 min Scan# 2743
Delta R.T. -0.000 min
Lab File: BN036538.D
Acq: 06 Mar 2025 17:12

Tgt Ion:252 Resp: 8509
Ion Ratio Lower Upper
252 100
253 30.4 24.4 36.6
125 27.7 18.2 27.2#

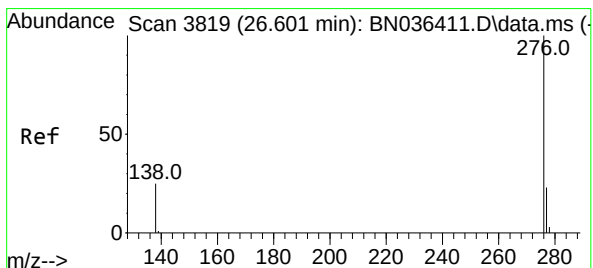
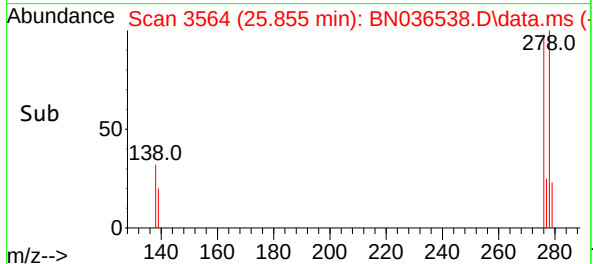
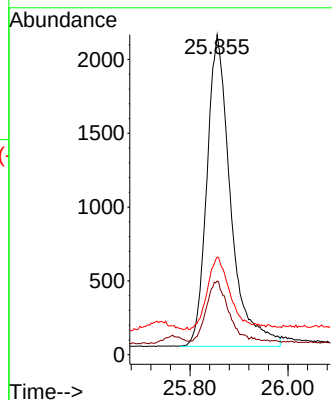
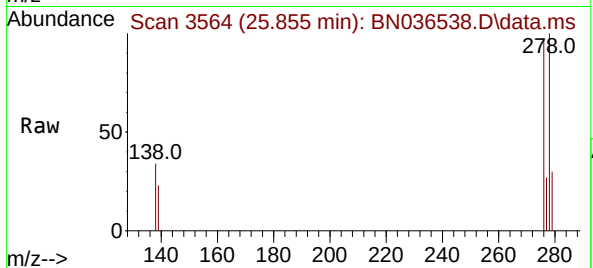




#40
Dibenzo(a,h)anthracene
Concen: 0.473 ng
RT: 25.855 min Scan# 31
Delta R.T. 0.003 min
Lab File: BN036538.D
Acq: 06 Mar 2025 17:12

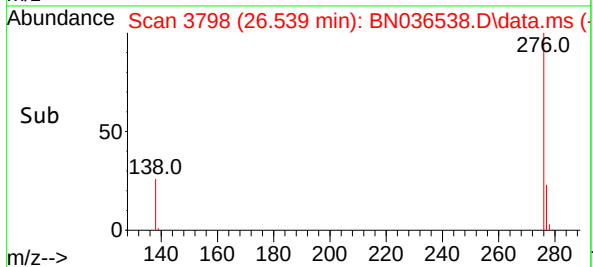
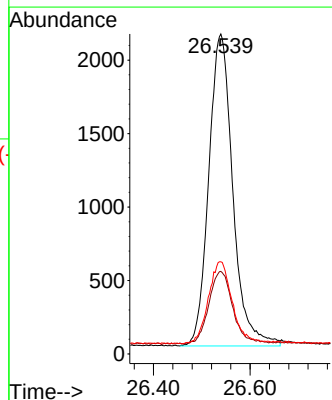
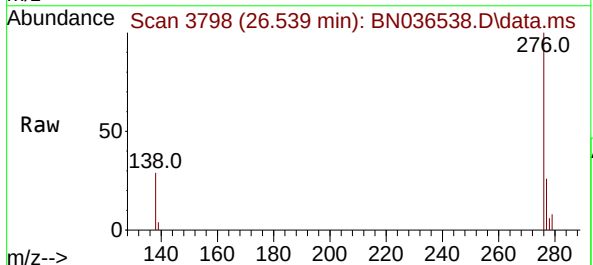
Instrument :
BNA_N
ClientSampleId :
BR-05-465-030525MSD

Tgt Ion:278 Resp: 7093
Ion Ratio Lower Upper
278 100
139 23.0 18.5 27.7
279 30.5 24.8 37.2



#41
Benzo(g,h,i)perylene
Concen: 0.432 ng
RT: 26.539 min Scan# 3798
Delta R.T. 0.012 min
Lab File: BN036538.D
Acq: 06 Mar 2025 17:12

Tgt Ion:276 Resp: 7341
Ion Ratio Lower Upper
276 100
277 25.8 20.7 31.1
138 28.8 21.8 32.6





Manual Integration Report

Sequence:	BN021025	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

Manual Integration Report

Sequence:	BN030625	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC0.4	BN036534.D	Benzo(b)fluoranthene	anahy	3/7/2025 9:18:47 AM	Jagrut	3/7/2025 10:00:13 AM	Peak Integrated by Software
PB167006BS	BN036542.D	2-Methylnaphthalene-d10	anahy	3/7/2025 9:19:41 AM	Jagrut	3/7/2025 10:00:16 AM	Peak Integrated by Software

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN021025

Review By	Rahul	Review On	2/11/2025 4:21:36 PM
Supervise By	Jagrut	Supervise On	2/11/2025 6:22:45 PM
SubDirectory	BN021025	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn021025
STD. NAME	STD REF.#		
Tune/Reschk	SP6717		
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731		
CCC	SP6735		
Internal Standard/PEM	SP6682,1ul/100ul sample		
ICV/I.BLK	SP6684		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN036408.D	10 Feb 2025 11:46	RC/JU	Ok
2	SSTDICC0.1	BN036409.D	10 Feb 2025 12:25	RC/JU	Ok
3	SSTDICC0.2	BN036410.D	10 Feb 2025 13:01	RC/JU	Ok
4	SSTDICCC0.4	BN036411.D	10 Feb 2025 13:36	RC/JU	Ok
5	SSTDICC0.8	BN036412.D	10 Feb 2025 14:12	RC/JU	Ok
6	SSTDICC1.6	BN036413.D	10 Feb 2025 14:48	RC/JU	Ok
7	SSTDICC3.2	BN036414.D	10 Feb 2025 15:24	RC/JU	Ok
8	SSTDICC5.0	BN036415.D	10 Feb 2025 16:00	RC/JU	Ok
9	SSTDICV0.4	BN036416.D	10 Feb 2025 16:36	RC/JU	Ok
10	PB166297BL	BN036417.D	10 Feb 2025 17:48	RC/JU	Ok

M : Manual Integration

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN030625

Review By	anahy	Review On	3/7/2025 9:20:00 AM
Supervise By	Jagrut	Supervise On	3/7/2025 10:00:26 AM
SubDirectory	BN030625	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn021025
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	BN036533.D	06 Mar 2025 12:50	RC/JU	Ok
2	SSTDCCC0.4	BN036534.D	06 Mar 2025 14:05	RC/JU	Ok,M
3	PB167006BL	BN036535.D	06 Mar 2025 14:48	RC/JU	Ok
4	Q1501-04	BN036536.D	06 Mar 2025 15:24	RC/JU	Ok
5	Q1501-05MS	BN036537.D	06 Mar 2025 16:36	RC/JU	Ok
6	Q1501-06MSD	BN036538.D	06 Mar 2025 17:12	RC/JU	Ok
7	Q1501-02	BN036539.D	06 Mar 2025 17:48	RC/JU	Ok
8	Q1501-03	BN036540.D	06 Mar 2025 18:25	RC/JU	Ok
9	Q1501-01	BN036541.D	06 Mar 2025 19:00	RC/JU	Ok
10	PB167006BS	BN036542.D	06 Mar 2025 19:37	RC/JU	Ok,M

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN021025

Review By	Rahul	Review On	2/11/2025 4:21:36 PM
Supervise By	Jagrut	Supervise On	2/11/2025 6:22:45 PM
SubDirectory	BN021025	HP Acquire Method	BNA_N, 8270_HP Processing Method bn021025

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731
CCC	SP6735
Internal Standard/PEM	SP6682,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN036408.D	10 Feb 2025 11:46		RC/JU	Ok
2	SSTDICC0.1	SSTDICC0.1	BN036409.D	10 Feb 2025 12:25		RC/JU	Ok
3	SSTDICC0.2	SSTDICC0.2	BN036410.D	10 Feb 2025 13:01		RC/JU	Ok
4	SSTDICCC0.4	SSTDICCC0.4	BN036411.D	10 Feb 2025 13:36	The Calibration is Good For DOD	RC/JU	Ok
5	SSTDICC0.8	SSTDICC0.8	BN036412.D	10 Feb 2025 14:12		RC/JU	Ok
6	SSTDICC1.6	SSTDICC1.6	BN036413.D	10 Feb 2025 14:48		RC/JU	Ok
7	SSTDICC3.2	SSTDICC3.2	BN036414.D	10 Feb 2025 15:24		RC/JU	Ok
8	SSTDICC5.0	SSTDICC5.0	BN036415.D	10 Feb 2025 16:00	Compound #20 removed from 5.0ppm	RC/JU	Ok
9	SSTDICV0.4	ICVBN021025	BN036416.D	10 Feb 2025 16:36		RC/JU	Ok
10	PB166297BL	PB166297BL	BN036417.D	10 Feb 2025 17:48	Analyzed for contamination check	RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN030625

Review By	anahy	Review On	3/7/2025 9:20:00 AM
Supervise By	Jagrut	Supervise On	3/7/2025 10:00:26 AM
SubDirectory	BN030625	HP Acquire Method	BNA_N, 8270_HP Processing Method bn021025

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	BN036533.D	06 Mar 2025 12:50		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN036534.D	06 Mar 2025 14:05		RC/JU	Ok,M
3	PB167006BL	PB167006BL	BN036535.D	06 Mar 2025 14:48		RC/JU	Ok
4	Q1501-04	BR-05-465-030525	BN036536.D	06 Mar 2025 15:24		RC/JU	Ok
5	Q1501-05MS	BR-05-465-030525MS	BN036537.D	06 Mar 2025 16:36		RC/JU	Ok
6	Q1501-06MSD	BR-05-465-030525MSD	BN036538.D	06 Mar 2025 17:12		RC/JU	Ok
7	Q1501-02	MW-16B-87.5-030425	BN036539.D	06 Mar 2025 17:48		RC/JU	Ok
8	Q1501-03	EB01-030525	BN036540.D	06 Mar 2025 18:25		RC/JU	Ok
9	Q1501-01	MW-16B-87.5-030425	BN036541.D	06 Mar 2025 19:00		RC/JU	Ok
10	PB167006BS	PB167006BS	BN036542.D	06 Mar 2025 19:37		RC/JU	Ok,M

M : Manual Integration

SOP ID: M3510C,3580A-Extraction SVOC-20

Clean Up SOP #: N/A

Matrix : Water

Weigh By: N/A

Balance check: N/A

Balance ID: N/A

pH Strip Lot#: E3880

Extraction By: RS

Filter By: RS

pH Meter ID: N/A

Hood ID: 4,5,6,7

Extraction Start Date : 03/06/2025

Extraction Start Time : 08:26

Extraction End Date : 03/06/2025

Extraction End Time : 13:35

Concentration By: EH

Supervisor By : RUPESH

Extraction Method: ☒ Separatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☐ Soxhlet

Standarded 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	SP6718
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	E3878
Baked Na2SO4	N/A	EP2589
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

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 -01,02

KD Bath Temperature: 60 °C

Envap ID: NEVAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
3/6/25	RS (Ext Lab)	RC/SVC
13:40	Preparation Group	Analysis Group

Analytical Method: M3510C,3580A-Extraction SVOC-20

Concentration Date: 03/06/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB167006BL	SBLK006	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			SEP-1
PB167006BS	SLCS006	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			2
Q1501-01	MW-16B-87.5-030425	SVOC-SIMGrou p1	970	12	RUPESH	ritesh	1	C		3
Q1501-02	MW-16B-87.5-030425-FD	SVOC-SIMGrou p1	990	12	RUPESH	ritesh	1	C		4
Q1501-03	EB-01-030525	SVOC-SIMGrou p1	950	6	RUPESH	ritesh	1	C		5
Q1501-04	BR-05-465-030525	SVOC-SIMGrou p1	960	12	RUPESH	ritesh	1	C		6
Q1501-05	Q1501-04MS	SVOC-SIMGrou p1	970	12	RUPESH	ritesh	1	C		7
Q1501-06	Q1501-04MSD	SVOC-SIMGrou p1	970	12	RUPESH	ritesh	1	C		8

* Extracts relinquished on the same date as received.

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1501 WorkList ID : 188059 Department : Extraction Date : 03-06-2025 08:21:49

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1501-01	MW-16B-87.5-030425	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	I21	03/04/2025	8270-Modified
Q1501-02	MW-16B-87.5-030425-FD	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	I21	03/04/2025	8270-Modified
Q1501-03	EB-01-030525	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	I21	03/05/2025	8270-Modified
Q1501-04	BR-05-465-030525	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	I21	03/05/2025	8270-Modified
Q1501-05	Q1501-04MS	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	I21	03/05/2025	8270-Modified
Q1501-06	Q1501-04MSD	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	I21	03/05/2025	8270-Modified

Date/Time 3/6/25 8:21
Raw Sample Received by: RS (Ext 245)
Raw Sample Relinquished by: OP SM

Date/Time 3/6/25 9:10
Raw Sample Received by: OP SM
Raw Sample Relinquished by: RS (Ext 606)

Prep Standard - Chemical Standard Summary

Order ID : Q1501
Test : SVOC-SIMGroup1
Prepbatch ID : PB167006,
Sequence ID/Qc Batch ID: BN030625,

Standard ID :
EP2559,EP2565,EP2589,SP6682,SP6683,SP6684,SP6717,SP6718,SP6730,SP6731,SP6732,SP6733,SP6734,SP6735,SP6736,SP6738,SP6739,SP6740,

Chemical ID :
1ul/100ul
sample,E3551,E3657,E3828,E3846,E3871,E3873,E3874,E3878,M5173,S10104,S10246,S11074,S11495,S11650,S11785,S11831,S11832,S12114,S12142,S12189,S12208,S12270,S12328,S12469,S12478,S12517,S12525,S12651,S12791,S12966,W3112,

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1874	10 N SODIUM HYDROXIDE SOLN	EP2559	11/14/2024	05/14/2025	Rajesh Parikh	Extraction_SC ALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 11/14/2024

FROM 1000.00000ml of W3112 + 400.00000gram of E3657 = Final Quantity: 1000.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
314	1.1 H2SO4 SOLN	EP2565	11/20/2024	05/20/2025	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 11/20/2024

FROM 1000.00000ml of M5173 + 1000.00000ml of W3112 = Final Quantity: 2000.000 ml

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3923	Baked Sodium Sulfate	EP2589	02/14/2025	07/01/2025	Rajesh Parikh	Extraction_SC ALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 02/14/2025

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3493	Internal Standard 0.4 PPM	SP6682	11/15/2024	05/09/2025	Jagrut Upadhyay	None	None	Yogesh Patel 12/03/2024

FROM 0.10000ml of S12328 + 4.90000ml of E3828 = Final Quantity: 5.000 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3355	8270-SIM MDL-3.2PPM CALIBRATION STOCK SOL- 2ND	SP6683	11/15/2024	04/10/2025	Jagrut Upadhyay	None	None	Yogesh Patel
SOURCE FROM 0.00630ml of S12189 + 0.01280ml of S12208 + 0.03200ml of S11074 + 0.03200ml of S11831 + 0.06400ml of S12142 + 0.06400ml of S12469 + 0.06400ml of S12517 + 19.72490ml of E3828 = Final Quantity: 20.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3356	8270-SIM MDL-0.4PPM CALIBRATION SOL ICV-2ND	SP6684	11/15/2024	04/10/2025	Jagrut Upadhyay	None	None	Yogesh Patel
SOURCE FROM 0.87500ml of E3828 + 0.01000ml of SP6682 + 0.12500ml of SP6683 = Final Quantity: 1.010 ml								

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3895	50 ug/ml DFTPP 8270E	SP6717	01/15/2025	03/31/2025	Rahul Chavli	None	None	Yogesh Patel
								01/16/2025

FROM 1.00000ml of S10246 + 19.00000ml of E3871 = Final Quantity: 20.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3491	8270-SIM-Surrogate 0.4 PPM	SP6718	01/17/2025	04/10/2025	Rahul Chavli	None	None	Yogesh Patel
								02/07/2025

FROM 0.00400ml of S12189 + 0.00800ml of S12208 + 0.02000ml of S11831 + 99.96800ml of E3846 = Final Quantity: 100.000 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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

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	06/26/2025	12/26/2024 / Rajesh	12/13/2024 / Rajesh	E3846

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24K1762005	07/14/2025	01/14/2025 / Rajesh	12/27/2024 / Rajesh	E3871

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	07/29/2025	01/29/2025 / Rajesh	01/29/2025 / Rajesh	E3873

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)	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-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24K1762005	08/14/2025	02/14/2025 / Rajesh	12/27/2024 / Rajesh	E3878

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	31615 / SV Mixture, GC/MS Tuning Mixture, CH2Cl2, 1mL,	A0182667	03/31/2025	01/15/2025 / Rahul	03/18/2022 / Christian	S10246

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0187043	05/15/2025	11/15/2024 / Jagrut	02/06/2023 / Christian	S11074

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110094-02 / CLP Base/Neutral Surrogate Solution, 5000 mg/L, 1ml	506889	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

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

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]	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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml, CH ₂ Cl ₂ , 5ml	A0206381	05/15/2025	11/15/2024 / Jagrut	03/15/2024 / Rahul	S12208

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-110381-01 / 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1ml	520963	07/30/2025	01/30/2025 / anahy	05/24/2024 / Rahul	S12270

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH ₂ Cl ₂ , 1mL	A0206540	05/13/2025	11/13/2024 / anahy	05/30/2024 / Rahul	S12328

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request]	A0214021	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12469

[CS 4978-1]

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	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH ₂ Cl ₂ , 1mL	A0212266	08/07/2025	02/07/2025 / anahy	09/20/2024 / anahy	S12651

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110816-01 / Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL, (Maximum Expiration: 180 Days)	414127	06/21/2025	01/30/2025 / anahy	05/24/2024 / Rahul	S12791

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH ₂ Cl ₂ [New Solvent 100% CH ₂ Cl ₂]	A0219438	07/29/2025	01/29/2025 / anahy	12/11/2024 / anahy	S12966

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / lwona	07/03/2024 / lwona	W3112



5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.: Lot No.: **Storage:** **Solvent:** **Exp. Date:** **Description:**
Z-112090 440246 $\leq -10^{\circ}\text{C}$ Methylene Chloride 2/16/2026 CLP Acid Surrogate Solution, 7,500 mg/L, 1 mL
-04

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
2-chlorophenol-d ₄	93951-73-6	99.3	248.12.7P	7487 $\pm$ 17.2
2-fluorophenol	367-12-4	99.8	10.7.3.3P	7513 $\pm$ 17.26
phenol-d ₆	13127-88-3	99.9	949.120.8P	7481 $\pm$ 17.19
2,4,6-tribromophenol	118-79-6	99.8	12.1.6P	7469 $\pm$ 17.17

Received on

02/25/21

by
CG

S9236
to

S9240

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Erica Castiglione

Certified By:

Erica Castiglione
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received on
03/10/22
by
CG
S10242
to
S10247

Catalog No. : 31615 **Lot No.:** A0182667
Description : GC/MS Tuning Mixture
GC/MS Tuning Mixture 1,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : March 31, 2025 **Storage:** 10°C or colder
Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Pentachlorophenol CAS # 87-86-5 (Lot 211229RSR) Purity 99%	1,003.6 µg/mL	+/- 5.8897 µg/mL +/- 45.7132 µg/mL +/- 66.0037 µg/mL	Gravimetric Unstressed Stressed
2	DFTPP (Decafluorotriphenylphosphine) CAS # 5074-71-5 (Lot Q117-147) Purity 95%	1,006.6 µg/mL	+/- 5.9074 µg/mL +/- 45.8508 µg/mL +/- 66.2023 µg/mL	Gravimetric Unstressed Stressed
3	Benzidine CAS # 92-87-5 (Lot 211228JLM) Purity 99%	1,008.4 µg/mL	+/- 5.9179 µg/mL +/- 45.9318 µg/mL +/- 66.3193 µg/mL	Gravimetric Unstressed Stressed
4	4,4'-DDT CAS # 50-29-3 (Lot 210916JLM) Purity 99%	1,007.6 µg/mL	+/- 5.9132 µg/mL +/- 45.8954 µg/mL +/- 66.2667 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

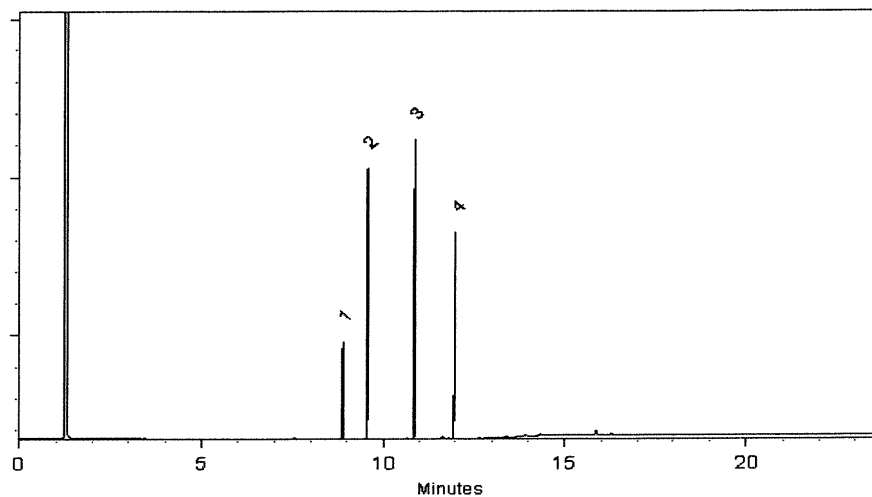
250°C

Det. Temp:

330°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

Date Mixed: 08-Mar-2022

Balance: B345965662

Marlene Cowan - Operations Tech I

Date Passed: 10-Mar-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received on
02/08/23

b1
CG

S 11071
to
S 11075

Catalog No. : 31853 Lot No.: A0187043
Description : 1,4-dioxane
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : July 31, 2027 Storage: 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	1,4-Dioxane CAS # 123-91-1 Purity 99% (Lot SHBN5929)	2,019.0 µg/mL	+/- 11.8486 µg/mL Gravimetric +/- 43.2570 µg/mL Unstressed +/- 44.5129 µg/mL Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

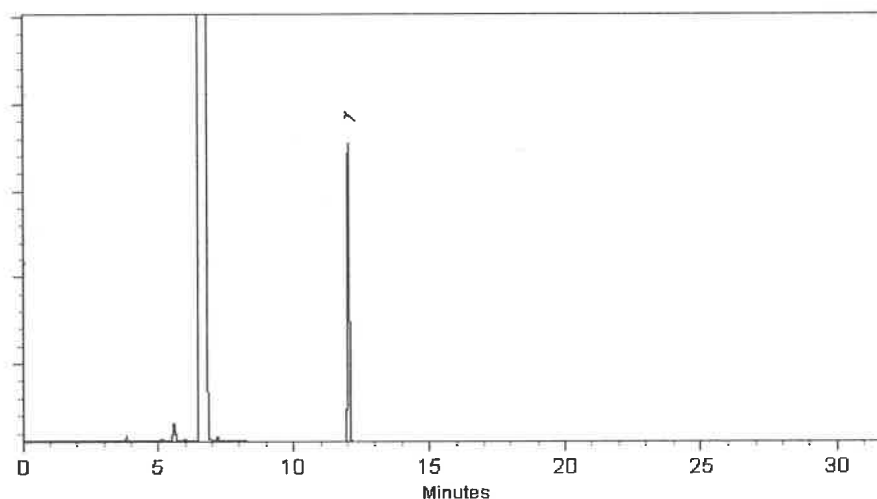
200°C

Det. Temp:

250°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brittany Federinko - Operations Tech I

Date Mixed: 07-Jul-2022

Balance: 1128360905

Marlina Cowan - Operations Tech II ARM QC

Date Passed: 12-Jul-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



**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.

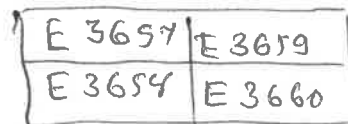
This document has been electronically produced and is valid without a signature.

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

Rec'd by RP On 12/13/24

E 3846

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor



Material No.: 9266-A4
Batch No.: 24K1762005
Manufactured Date: 2024-10-08
Expiration Date: 2026-01-07
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	2
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	100.0%
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.5 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	0.0
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	0.01%

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3871

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA, 19087, U.S.A. Phone 610.386.1700

Acetone

BAKER RESI-ANALYZED® Reagent

For Organic Residue Analysis

avantor™



Material No.: 9254-03

Batch No.: 24H2762008

Manufactured Date: 2024-04-18

Expiration Date: 2027-04-18

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (μeq/g)	<= 0.3	0.2
Titration Base (μeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	<0.1 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

Recd. by RP on 1/29/25

E 3873

Jamie Croak

Director Quality Operations, Bioscience Production

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

Avantor

Material No.: 9266-A4
Batch No.: 25A0262002
Manufactured Date: 2024-11-21
Expiration Date: 2026-02-20
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	4
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	99.9%
Color (APHA)	≤ 10	10
Residue after Evaporation	≤ 1.0 ppm	0.8 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	$< 0.01\%$

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3874



Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA, 19087, U.S.A. Phone 610.386.1700

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4
Batch No.: 24K1762005
Manufactured Date: 2024-10-08
Expiration Date: 2026-01-07
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	2
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	$\leq 1.0 \text{ ppm}$	0.5 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	0.0
Chloride (Cl)	$\leq 10 \text{ ppm}$	$< 5 \text{ ppm}$
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 3878

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA, 19087 U.S.A. Phone 610.386.1700

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis



Material No.: 9530-33
Batch No.: 0000281827
Manufactured Date: 2021/03/30
Retest Date: 2026/03/29
Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS – Assay (as HCl) (by acid–base titrn)	36.5 – 38.0 %	37.6
ACS – Color (APHA)	<= 10	5
ACS – Residue after Ignition	<= 3 ppm	1
ACS – Specific Gravity at 60°/60°F	1.185 – 1.192	1.189
ACS – Bromide (Br)	<= 0.005 %	< 0.005
ACS – Extractable Organic Substances	<= 5 ppm	< 1
ACS – Free Chlorine (as Cl ₂)	<= 0.5 ppm	< 0.5
Phosphate (PO ₄)	<= 0.05 ppm	< 0.03
Sulfate (SO ₄)	<= 0.5 ppm	< 0.3
Sulfite (SO ₃)	<= 0.8 ppm	0.3
Ammonium (NH ₄)	<= 3 ppm	< 1
Trace Impurities – Arsenic (As)	<= 0.010 ppm	< 0.003
Trace Impurities – Aluminum (Al)	<= 10.0 ppb	0.5
Arsenic and Antimony (as As)	<= 5 ppb	< 3
Trace Impurities – Barium (Ba)	<= 1.0 ppb	< 0.2
Trace Impurities – Beryllium (Be)	<= 1.0 ppb	< 0.2
Trace Impurities – Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities – Boron (B)	<= 20.0 ppb	< 5.0
Trace Impurities – Cadmium (Cd)	<= 1.0 ppb	< 0.3
Trace Impurities – Calcium (Ca)	<= 50.0 ppb	15.0
Trace Impurities – Chromium (Cr)	<= 1.0 ppb	< 0.4
Trace Impurities – Cobalt (Co)	<= 1.0 ppb	< 0.3
Trace Impurities – Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities – Gallium (Ga)	<= 1.0 ppb	< 0.2

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Test	Specification	Result
Trace Impurities – Germanium (Ge)	<= 3.0 ppb	< 2.0
Trace Impurities – Gold (Au)	<= 4.0 ppb	3.0
Heavy Metals (as Pb)	<= 100 ppb	< 50
Trace Impurities – Iron (Fe)	<= 15.0 ppb	1.0
Trace Impurities – Lead (Pb)	<= 1.0 ppb	< 0.5
Trace Impurities – Lithium (Li)	<= 1.0 ppb	< 0.2
Trace Impurities – Magnesium (Mg)	<= 10.0 ppb	< 0.4
Trace Impurities – Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities – Mercury (Hg)	<= 0.5 ppb	0.2
Trace Impurities – Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities – Nickel (Ni)	<= 4.0 ppb	< 0.3
Trace Impurities – Niobium (Nb)	<= 1.0 ppb	< 0.2
Trace Impurities – Potassium (K)	<= 9.0 ppb	< 2.0
Trace Impurities – Selenium (Se), For Information Only	ppb	1.0
Trace Impurities – Silicon (Si)	<= 100.0 ppb	18.0
Trace Impurities – Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities – Sodium (Na)	<= 100.0 ppb	< 5.0
Trace Impurities – Strontium (Sr)	<= 1.0 ppb	< 0.2
Trace Impurities – Tantalum (Ta)	<= 1.0 ppb	< 0.9
Trace Impurities – Thallium (Tl)	<= 5.0 ppb	< 2.0
Trace Impurities – Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities – Titanium (Ti)	<= 1.0 ppb	< 0.2
Trace Impurities – Vanadium (V)	<= 1.0 ppb	< 0.2
Trace Impurities – Zinc (Zn)	<= 5.0 ppb	0.4
Trace Impurities – Zirconium (Zr)	<= 1.0 ppb	< 0.1

For Laboratory, Research or Manufacturing Use

Product Information (not specifications):

Appearance (clear, fuming liquid)

Meets ACS Specifications

Country of Origin: US

Packaging Site: Phillipsburg Mfg Ctr & DC


Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700



5580 Skyline Blvd
Santa Rosa, CA 95403
(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Page 1 of 1

Catalog No.: Lot No.:	Storage:	Solvent:	Exp. Date:	Rev	Description:
Z-110094-02 506889	≤ -10 °C	Methylene Chloride	7/25/2028	0	CLP Base/Neutral Surrogate Solution, 5,000 mg/L, 1 ml
Compound		CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2-dichlorobenzene-d ₄		2199-69-1	99.7	247.29.3P	5035 ± 28.02
2-fluorobiphenyl		321-60-8	99.69	8.286.1.1P	4999 ± 103.66
nitrobenzene-d5		4165-60-0	99.67	7.9.3P	4988 ± 27.32
p-terphenyl-d14		1718-51-0	99.3	9.120.8P	5005 ± 27.85

511494 } Y.P.
↓ 08/11/2023
511498

*Not a certified value

Certified By: _____
Clint Tipton
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis
gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.
This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No.:	555872	Lot No.:	A0201728
Description:	Custom Pentachlorophenol Standard		
	Custom Pentachlorophenol Standard 25,000µg/mL, Methanol, 1mL/ampul		
Container Size:	2 mL	Pkg Amt:	> 1 mL
Expiration Date:	September 30, 2026	Storage:	10°C or colder
		Ship:	Ambient

511649
↓
511658
Y.P.
11/13/23

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty* (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP230530RSR	99%	25,000.0 µg/mL	+/- 777.0837

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Josh McCloskey - Operations Technician I

Date Mixed: 05-Sep-2023 Balance: B251644995

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31853 **Lot No.:** A0196453
Description : 1,4-dioxane
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : March 31, 2028 **Storage:** 0°C or colder
Ship: Ambient

S11749
↓
S11794 } RC / 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant flow 1.8 mL/min.

Temp. Program:

80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

Inj. Temp:

250°C

Det. Temp:

340°C

Det. Type:

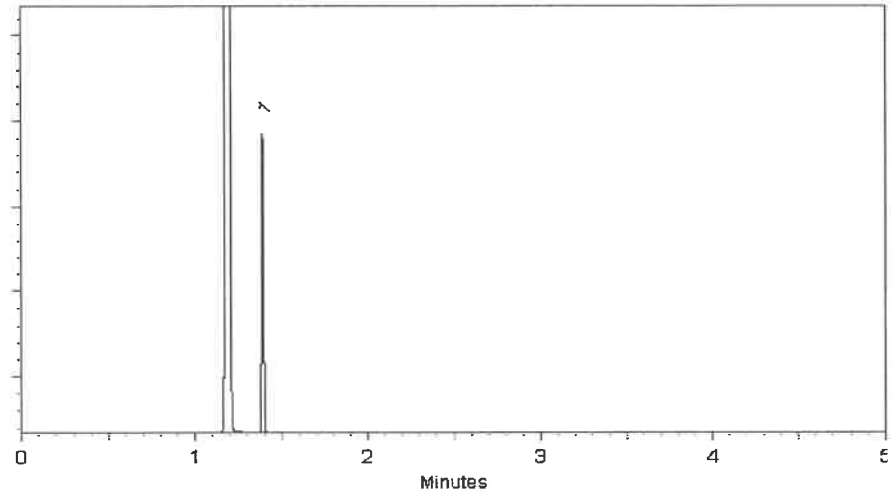
FID

Split Vent:

100 mL/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023

Balance Serial # B707717271

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 33913 **Lot No.:** A0201976

Description : SOM01.0 SIM Analysis Standard
SOM01.0 SIM Analysis Standard 2000µg/mL, Methylene chloride, 1mL /ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S11828
↓
S11832 } RC/
11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Methylnaphthalene-d10	7297-45-2	EF-135	98%	2,015.9 µg/mL	+/- 90.8098
2	Fluoranthene-d10	93951-69-0	PR-32557	99%	2,020.0 µg/mL	+/- 90.9963

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

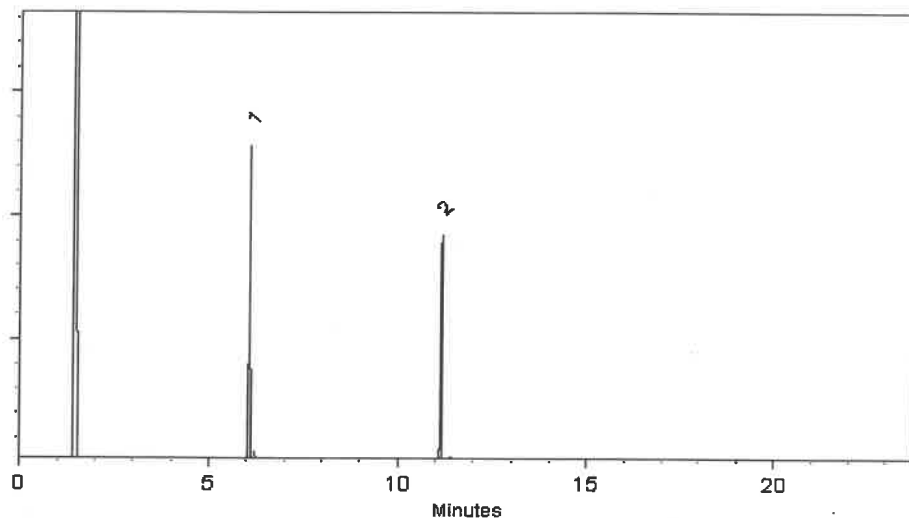
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl

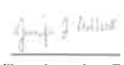


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 13-Sep-2023

Balance Serial # B442140311


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 28-Sep-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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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:

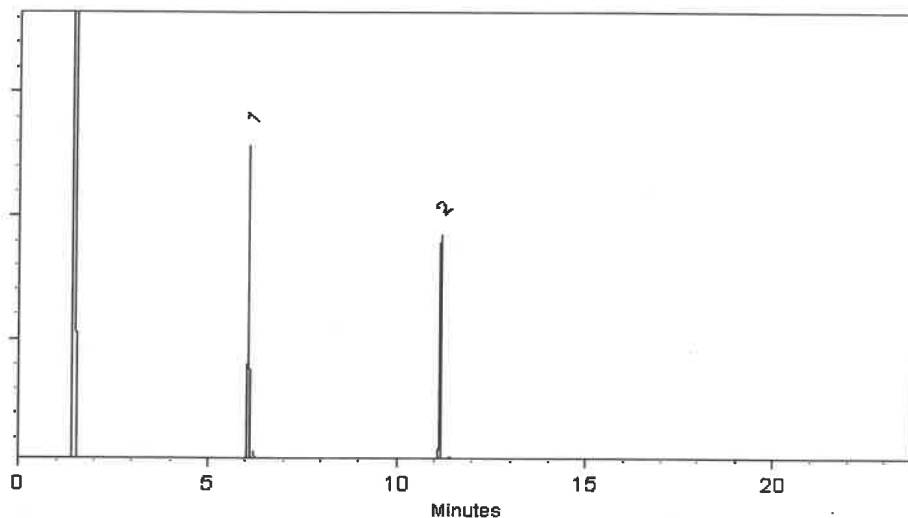
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl

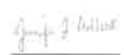


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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:

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- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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Santa Rosa, CA 95403

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Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-020223-01	454157	≤ -10 °C	P/T Methanol	6/10/2026	1,4-Dioxane Solution, 2000 mg/L, 1 mL

<u>Compound</u>	<u>CAS No.</u>	<u>Purity (%)</u>	<u>Compound Lot No.</u>	<u>Concentration, mg/L</u>
1,4-dioxane	123-91-1	100	223.1.3P	1997 ± 57.08

512112 } RC/
↓
912116 } 03/08/24

*Not a certified value

Certified By: _____

Melissa Workoff
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



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chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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%

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31087 **Lot No.:** A0206206
Description : Acid Surrogate Mix (4/89 SOW)
Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : January 31, 2032 **Storage:** 10°C or colder
Ship: Ambient

512187 } RC/
↓
512206 } 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

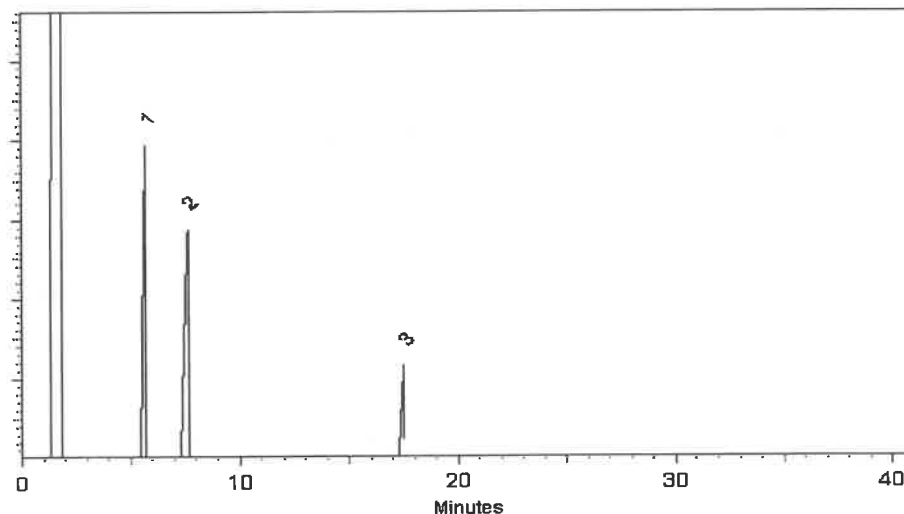
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope A. Riglin

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024

Balance Serial # 1128360905

Christie Mills

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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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:

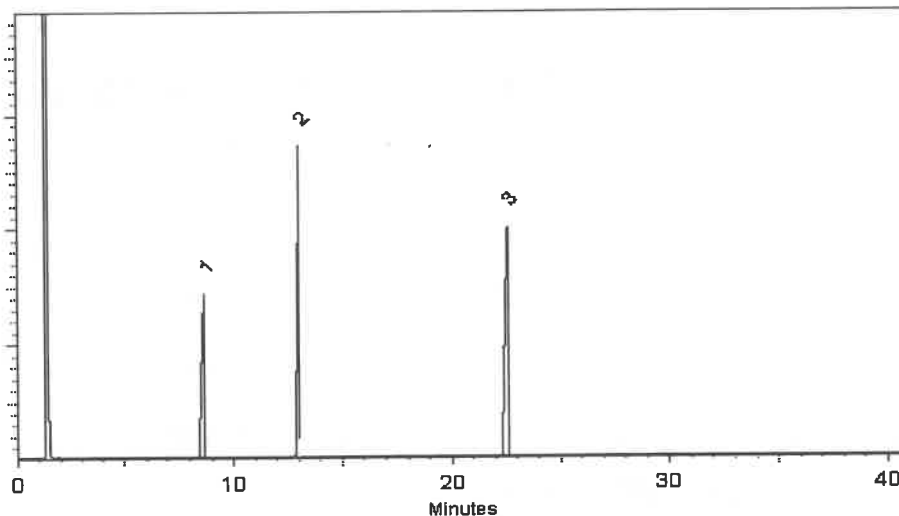
FID

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.



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31206 **Lot No.:** A0206540

Description : SV Internal Standard Mix 2mg/ml
SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12312 } RC/
↓ 05/30/24
S12331 }

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,007.1 µg/mL	+/- 90.4025
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,005.9 µg/mL	+/- 90.3454
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,007.9 µg/mL	+/- 90.4385
4	Phenanthrene-d10	1517-22-2	PR-32303	99%	2,006.7 µg/mL	+/- 90.3845
5	Chrysene-d12	1719-03-5	PR-32210	99%	2,015.5 µg/mL	+/- 90.7778
6	Perylene-d12	1520-96-3	PR-33205	99%	2,014.7 µg/mL	+/- 90.7448

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

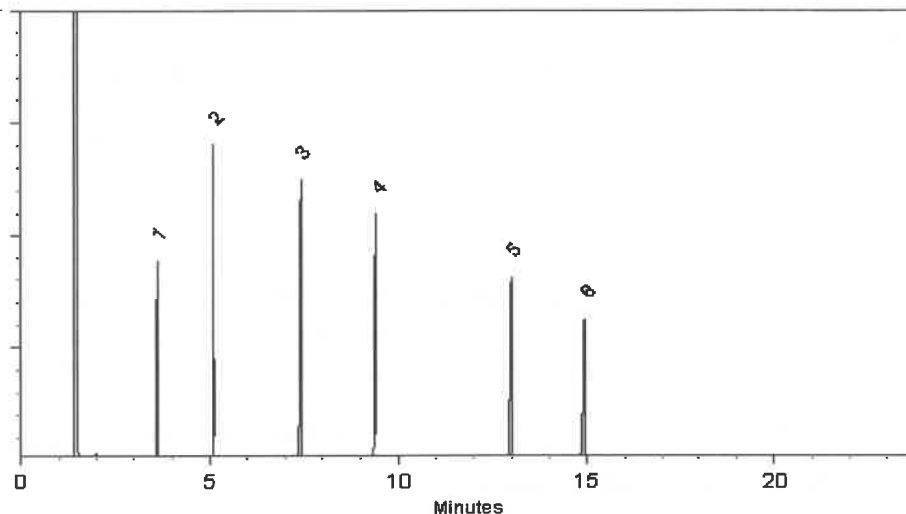
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Malina Homan
Malina Homan - Operations Technician I

Date Mixed: 12-Jan-2024

Balance Serial # 1128360905

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Jan-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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Fax: 1-814-353-1309

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Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1
Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 } RC/
↓
S12508 } 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024

Balance: 1128353505

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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Fax: 1-814-353-1309

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1
Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 } RC/
↓
S12508 } 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024

Balance: 1128353505

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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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.
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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 } RC/
↓
S12568 } 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024

Balance: 1128360905

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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chromatographic plus



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31206 **Lot No.:** A0212266

Description : SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,000.6 µg/mL	+/- 90.1075
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,000.3 µg/mL	+/- 90.0925
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,000.4 µg/mL	+/- 90.1000
4	Phenanthrene-d10	1517-22-2	PR-34099	99%	2,000.5 µg/mL	+/- 90.1037
5	Chrysene-d12	1719-03-5	PR-33506	99%	2,000.7 µg/mL	+/- 90.1112
6	Perylene-d12	1520-96-3	PR-33205	99%	2,000.6 µg/mL	+/- 90.1075

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12645
↓
S12674
AC
10/1/24



5580 Skylane Blvd
Santa Rosa, CA 95403

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by TUV USA to ISO 9001:2015

Date Received: _____

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Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110816-01	414127	≤ -10 °C	Methylene Chloride	6/21/2025	Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
atrazine	1912-24-9	99.5	337.7.3P	997 ± 5.81
benzidine	92-87-5	99.9	124.18.6.2P	991.8 ± 5.77
caprolactam	105-60-2	99.9	271.1.6P	999 ± 5.82

~~512280~~ } RCL
↓
~~512284~~ } 05/24/24

New Numbers Generated.

512790 } RCL
↓
512794 } 11/12/24

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: _____

Shane Overcash
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0219438

Description : 8270 MegaMix®
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12963
↓
S12992 } AC
12/17/20

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.

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SHIPPING DOCUMENTS

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- 2
- 3
- 4
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- 14
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CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: **Jacobs**
ADDRESS: **412 Mt Kemble Ave Suite #100**
CITY: **Morristown** STATE: **NJ** ZIP: **07960**
ATTENTION: **John Yarbute (John.Yarbute@Jacobs.com)**
PHONE: **(281) 414-1719** FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: **STC PIC**
PROJECT NO.: **D3868221** LOCATION: **Princeton Junction**
PROJECT MANAGER: **Mary Murphy**
e-mail: **Mary.Murphy@Jacobs.com**
PHONE: **(201) 936-0586** FAX:

CLIENT BILLING INFORMATION

BILL TO: **Mary Murphy** PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) **Rush TAT (48 hr)** 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

Site Specific VOCs (SGLAD)
14 DIN (8270E-SWP)

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS	
			COMP	GRAB	DATE	TIME		A/E	E								← Specify Preservatives	
								1	2	3	4	5	6	7	8	9	A-HCl	D-NaOH
1.	MW-16B-87.5-030425	GW		X	3/4/25	1625	3	2	1									
2.	MW-16B-87.5-030425-FD	GW		X	3/4/25	1630	3	2	1									
3.	EB01-030525	DI		X	3/5/25	0800	3	2	1									
4.	BK-05-465-030525	GW		X	3/5/25	1130	9	6	3								MS/MSD	
5.	TB01-030525	DI		X	3/5/25	1530	2	2										
6.																		
7.																		
8.																		
9.																		
10.																		

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER: 1. 2222	DATE/TIME: 1535 3-5-25	RECEIVED BY: 1. [Signature]	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 25°C
RELINQUISHED BY SAMPLER: 2.	DATE/TIME:	RECEIVED BY: 2.	Comments: See work order for list of site specific VOCs
RELINQUISHED BY SAMPLER: 3.	DATE/TIME:	RECEIVED BY: 3.	

Page **1** of **1**

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete
☐ YES ☐ NO

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1501	JACO05	Order Date : 3/5/2025 3:36:00 PM	Project Mgr :
Client Name : JACOBS Engineering Grou		Project Name : Former Schlumberger STC	Report Type : Level 4
Client Contact : John Ynfante		Receive DateTime : 3/5/2025 3:35:00 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
Q1501-01	MW-16B-87.5-030425	Water	03/04/2025	16:25					
					VOCMS Group3		8260-Low	2 Bus. Days	
Q1501-02	MW-16B-87.5-030425-FD	Water	03/04/2025	16:30					
					VOCMS Group3		8260-Low	2 Bus. Days	
Q1501-03	EB-01-030525	Water	03/05/2025	08:00					
					VOCMS Group3		8260-Low	2 Bus. Days	
Q1501-04	BR-05-465-030525	Water	03/05/2025	11:30					
					VOCMS Group3		8260-Low	2 Bus. Days	
Q1501-05	Q1501-04MS	Water	03/05/2025	11:30					
					VOCMS Group3		8260-Low	2 Bus. Days	
Q1501-06	Q1501-04MSD	Water	03/05/2025	11:30					
					VOCMS Group3		8260-Low	2 Bus. Days	
Q1501-07	TB01-030525	Water	03/05/2025	13:30					
					VOCMS Group3		8260-Low	2 Bus. Days	

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1501	JACO05	Order Date : 3/5/2025 3:36:00 PM	Project Mgr :
Client Name : JACOBS Engineering Grou		Project Name : Former Schlumberger STC	Report Type : Level 4
Client Contact : John Ynfante		Receive DateTime : 3/5/2025 3:35:00 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

Relinquished By : CR

Date / Time : 3.5.25 16:00

Received By : Gour

Date / Time : 03/05/25 16:00

Storage Area : VOA Refridgerator Room