

Cover Page

Order ID : P4934

Project ID : CTO WE13

Client : Tetra Tech NUS, Inc.

Lab Sample Number

P4934-01
P4934-02
P4934-03
P4934-04
P4934-05
P4934-06
P4934-07
P4934-08
P4934-09
P4934-10
P4934-11
P4934-12

Client Sample Number

TB01-20241118
BPOW6-11-20241118
BPOW6-7-20241118
DUP01-20241118
BPOW6-10-20241119
P4934-05MS
P4934-05MSD
BPOW6-9-20241119
FB01-20241119
BPOW6-8-20241119
RB01-20241119
DUP02-20241119

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: 12/12/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Tetra Tech NUS, Inc.

Project Name: CTO WE13

Project Manager : Ernie Wu

Chemtech Project # P4934

Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:

12 Water samples were received on 11/20/2024.

B. Parameters

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

C. Analytical Techniques:

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

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for

BPOW6-11-20241118 [Nitrobenzene-d5 - 44%, Terphenyl-d14 - 155%],

BPOW6-7-20241118 [2-Fluorobiphenyl - 22%, Nitrobenzene-d5 - 52%, Terphenyl-d14 - 657%],

DUP01-20241118 [2-Fluorobiphenyl - 15%, Nitrobenzene-d5 - 45%, Terphenyl-d14 - 702%],

BPOW6-10-20241119 [Nitrobenzene-d5 - 48%, Terphenyl-d14 - 189%],

BPOW6-10-20241119MS [2-Fluorobiphenyl - 36%, Nitrobenzene-d5 - 50%, Terphenyl-d14 - 192%],

BPOW6-10-20241119MSD [Nitrobenzene-d5 - 51%, Terphenyl-d14 - 216%],

BPOW6-9-20241119 [2-Fluorobiphenyl - 18%, Nitrobenzene-d5 - 47%, Terphenyl-d14 - 668%],

FB01-20241119 [2-Fluorobiphenyl - 17%, Nitrobenzene-d5 - 53%, Terphenyl-d14 - 1178%],

BPOW6-8-20241119 [2-Fluorobiphenyl - 21%, Nitrobenzene-d5 - 48%, Terphenyl-d14 - 919%],

RB-01-20241119 [2-Fluorobiphenyl - 16%, Nitrobenzene-d5 - 49%, Terphenyl-d14 - 1048%],

DUP02-20241119 [2-Fluorobiphenyl - 16%, Nitrobenzene-d5 - 47%, Terphenyl-d14 - 1163%],

PB165150BL [2-Fluorobiphenyl - 183% and Nitrobenzene-d5 - 50%] failing surrogates were not associated with client parameter list, therefore no corrective action taken.

The Internal Standards Areas met the acceptable requirements except for FB-01-20241119, DUP-02-20241119 failing Internal Standards were not associated with client parameter list, therefore no corrective action taken.

The Retention Times were acceptable for all samples.

The MS {P4934-06MS} with File ID: BN035288.D recoveries met the requirements for all compounds except for 1,4-Dioxane[50%] due to matrix interference.

The MSD {P4934-07MSD} with File ID: BN035289.D recoveries met the acceptable requirements except for 1,4-Dioxane[54%] due to matrix interference.

The RPD met criteria .

The Blank Spike met requirements for all samples .

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

The % RSD is greater than 20% in the Initial Calibration (8270Sim-BN112524.M) for 2-Fluorobiphenyl and Terphenyl-d14 but not associated with client parameter list therefore this calibration is used for analysis.

The Continuous Calibration File ID BN035219.D met the requirements except for 2-Fluorobiphenyl, Fluoranthene-d10, Nitrobenzene-d5 and Terphenyl-d14 which are not our target compound, therefore no corrective action taken.

The Continuous Calibration File ID BN035235.D met the requirements except for 2-Fluorobiphenyl and Terphenyl-d14 which are not our target compound, therefore no corrective action taken.

The Tuning criteria met requirements.

E. Additional Comments:

This data package has been revised due to client ID changed for sample#01, 04, 09, 11, 12 as per client request.

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

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

The not QT review data is reported in the Miscellaneous.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount



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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

ALLIANCE 284 Sheffield Street, Mountainside New Jersey 07092

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

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

CHEMTECH PROJECT NUMBER: P4934

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 % RSD is greater than 20% in the Initial Calibration (8270Sim-BN112524.M) for 2-Fluorobiphenyl and Terphenyl-d14 but not associated with client parameter list therefore this calibration is used for analysis. The Continuous Calibration File ID BN035219.D met the requirements except for 2- Fluorobiphenyl, Fluoranthene-d10, Nitrobenzene-d5 and Terphenyl-d14 which are not our target compound, therefore no corrective action taken. The Continuous Calibration File ID BN035235.D met the requirements except for 2- Fluorobiphenyl and Terphenyl-d14 which are not our target compound, therefore no corrective action taken.			✓
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:			✓

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

(CONTINUED)

		NA	NO	YES
7.	Surrogate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable ranges. The Surrogate recoveries met the acceptable criteria except for BPOW6-11-20241118 [Nitrobenzene-d5 - 44%, Terphenyl-d14 - 155%], BPOW6-7-20241118 [2-Fluorobiphenyl - 22%, Nitrobenzene-d5 - 52%, Terphenyl-d14 - 657%], DUP01-20241118 [2-Fluorobiphenyl - 15%, Nitrobenzene-d5 - 45%, Terphenyl-d14 - 702%], BPOW6-10-20241119 [Nitrobenzene-d5 - 48%, Terphenyl-d14 - 189%], BPOW6-10-20241119MS [2-Fluorobiphenyl - 36%, Nitrobenzene-d5 - 50%, Terphenyl-d14 - 192%], BPOW6-10-20241119MSD [Nitrobenzene-d5 - 51%, Terphenyl-d14 - 216%], BPOW6-9-20241119 [2-Fluorobiphenyl - 18%, Nitrobenzene-d5 - 47%, Terphenyl-d14 - 668%], FB01-20241119 [2-Fluorobiphenyl - 17%, Nitrobenzene-d5 - 53%, Terphenyl-d14 - 1178%], BPOW6-8-20241119 [2-Fluorobiphenyl - 21%, Nitrobenzene-d5 - 48%, Terphenyl-d14 - 919%], RB-01-20241119 [2-Fluorobiphenyl - 16%, Nitrobenzene-d5 - 49%, Terphenyl-d14 - 1048%], DUP02-20241119 [2-Fluorobiphenyl - 16%, Nitrobenzene-d5 - 47%, Terphenyl-d14 - 1163%], PB165150BL [2-Fluorobiphenyl - 183% and Nitrobenzene-d5 - 50%] failing surrogates were not associated with client parameter list, therefore no corrective action 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 MSD {P4934-07MSD} with File ID: BN035289.D recoveries met the acceptable requirements except for 1,4-Dioxane[54%] due to matrix interference. The Blank Spike met requirements for all samples .			✓
9.	Internal Standard Area/Retention Time Shift Meet Criteria Comments: The Internal Standards Areas met the acceptable requirements except for FB-01-20241119, DUP-02-20241119 failing Internal Standards were not associated with client parameter list, therefore no corrective action taken.			✓
10.	Extraction Holding Time Met If not met, list number of days exceeded for each sample:			✓

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

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

(CONTINUED)

NA NO YES

11. Analysis Holding Time Met

✓

If not met, list number of days exceeded for each sample:

ADDITIONAL COMMENTS:

This data package has been revised due to client ID changed for sample#01, 04, 09, 11, 12 as per client request.

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

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

The not QT review data is reported in the Miscellaneous.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <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 #: P4934

Completed

For thorough review, the report must have the following:

GENERAL:

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

✓

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

✓

Is the chain of custody signed and complete

✓

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

✓

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

✓

COVER PAGE:

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

✓

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

✓

CHAIN OF CUSTODY:

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

✓

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

✓

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

✓

Were the samples received within hold time

✓

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

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 12/12/2024

LAB CHRONICLE

OrderID:	P4934	OrderDate:	11/20/2024 11:23:00 AM
Client:	Tetra Tech NUS, Inc.	Project:	CTO WE13
Contact:	Ernie Wu	Location:	L61,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4934-02	BPOW6-11-20241118	Water	SVOC-SIMGroup1	8270-Modified	11/18/24	11/21/24	11/25/24	11/20/24
P4934-03	BPOW6-7-20241118	Water	SVOC-SIMGroup1	8270-Modified	11/18/24	11/21/24	11/21/24	11/20/24
P4934-04	DUP01-20241118	Water	SVOC-SIMGroup1	8270-Modified	11/18/24	11/21/24	11/21/24	11/20/24
P4934-05	BPOW6-10-20241119	Water	SVOC-SIMGroup1	8270-Modified	11/19/24	11/21/24	11/25/24	11/20/24
P4934-08	BPOW6-9-20241119	Water	SVOC-SIMGroup1	8270-Modified	11/19/24	11/21/24	11/21/24	11/20/24
P4934-09	FB01-20241119	Water	SVOC-SIMGroup1	8270-Modified	11/19/24	11/21/24	11/21/24	11/20/24
P4934-10	BPOW6-8-20241119	Water	SVOC-SIMGroup1	8270-Modified	11/19/24	11/21/24	11/21/24	11/20/24
P4934-11	RB01-20241119	Water	SVOC-SIMGroup1	8270-Modified	11/19/24	11/21/24	11/21/24	11/20/24
P4934-12	DUP02-20241119	Water	SVOC-SIMGroup1	8270-Modified	11/19/24	11/21/24	11/21/24	11/20/24



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Fax : 908 789 8922

Hit Summary Sheet SW-846

SDG No.: P4934
Client: Tetra Tech NUS, Inc.

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



QC SUMMARY

Surrogate Summary

SW-846

SDG No.: P4934

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
P4934-02	BPOW6-11-20241118	2-Methylnaphthalene-d10	0.4	0.36	89		30	150
		Fluoranthene-d10	0.4	0.44	109		30	150
		Nitrobenzene-d5	0.4	0.18	44	*	55	111
		2-Fluorobiphenyl	0.4	0.25	63		53	106
		Terphenyl-d14	0.4	0.62	155	*	58	132
P4934-03	BPOW6-7-20241118	2-Methylnaphthalene-d10	0.4	0.29	74		30	150
		Fluoranthene-d10	0.4	0.39	96		30	150
		Nitrobenzene-d5	0.4	0.21	52	*	55	111
		2-Fluorobiphenyl	0.4	0.086	22	*	53	106
		Terphenyl-d14	0.4	2.63	657	*	58	132
P4934-04	DUP01-20241118	2-Methylnaphthalene-d10	0.4	0.28	69		30	150
		Fluoranthene-d10	0.4	0.33	83		30	150
		Nitrobenzene-d5	0.4	0.18	45	*	55	111
		2-Fluorobiphenyl	0.4	0.061	15	*	53	106
		Terphenyl-d14	0.4	2.81	702	*	58	132
P4934-05	BPOW6-10-20241119	2-Methylnaphthalene-d10	0.4	0.41	101		30	150
		Fluoranthene-d10	0.4	0.41	101		30	150
		Nitrobenzene-d5	0.4	0.19	48	*	55	111
		2-Fluorobiphenyl	0.4	0.27	68		53	106
		Terphenyl-d14	0.4	0.76	189	*	58	132
P4934-06MS	BPOW6-10-20241119MS	2-Methylnaphthalene-d10	0.4	0.39	97		30	150
		Fluoranthene-d10	0.4	0.38	95		30	150
		Nitrobenzene-d5	0.4	0.20	50	*	55	111
		2-Fluorobiphenyl	0.4	0.15	36	*	53	106
		Terphenyl-d14	0.4	0.77	192	*	58	132
P4934-07MSD	BPOW6-10-20241119MSD	2-Methylnaphthalene-d10	0.4	0.41	101		30	150
		Fluoranthene-d10	0.4	0.43	106		30	150
		Nitrobenzene-d5	0.4	0.21	51	*	55	111
		2-Fluorobiphenyl	0.4	0.26	65		53	106
		Terphenyl-d14	0.4	0.87	216	*	58	132
P4934-08	BPOW6-9-20241119	2-Methylnaphthalene-d10	0.4	0.29	72		30	150
		Fluoranthene-d10	0.4	0.33	83		30	150
		Nitrobenzene-d5	0.4	0.19	47	*	55	111
		2-Fluorobiphenyl	0.4	0.072	18	*	53	106
		Terphenyl-d14	0.4	2.67	668	*	58	132
P4934-09	FB01-20241119	2-Methylnaphthalene-d10	0.4	0.33	83		30	150
		Fluoranthene-d10	0.4	0.40	100		30	150
		Nitrobenzene-d5	0.4	0.21	53	*	55	111
		2-Fluorobiphenyl	0.4	0.070	17	*	53	106
		Terphenyl-d14	0.4	4.71	1178	*	58	132
P4934-10	BPOW6-8-20241119	2-Methylnaphthalene-d10	0.4	0.29	72		30	150
		Fluoranthene-d10	0.4	0.34	84		30	150
		Nitrobenzene-d5	0.4	0.19	48	*	55	111
		2-Fluorobiphenyl	0.4	0.083	21	*	53	106
		Terphenyl-d14	0.4	3.68	919	*	58	132
P4934-11	RB01-20241119	2-Methylnaphthalene-d10	0.4	0.29	72		30	150
		Fluoranthene-d10	0.4	0.35	88		30	150
		Nitrobenzene-d5	0.4	0.20	49	*	55	111
		2-Fluorobiphenyl	0.4	0.063	16	*	53	106
		Terphenyl-d14	0.4	4.19	1048	*	58	132
P4934-12	DUP02-20241119	2-Methylnaphthalene-d10	0.4	0.27	68		30	150

Surrogate Summary

SW-846

SDG No.: P4934

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
P4934-12	DUP02-20241119	Fluoranthene-d10	0.4	0.36	90		30	150
		Nitrobenzene-d5	0.4	0.19	47	*	55	111
		2-Fluorobiphenyl	0.4	0.063	16	*	53	106
		Terphenyl-d14	0.4	4.65	1163	*	58	132
PB165150BL	PB165150BL	2-Methylnaphthalene-d10	0.4	0.38	94		30	150
		Fluoranthene-d10	0.4	0.33	81		30	150
		Nitrobenzene-d5	0.4	0.20	50	*	55	111
		2-Fluorobiphenyl	0.4	0.73	183	*	53	106
PB165150BS	PB165150BS	Terphenyl-d14	0.4	0.32	79		58	132
		2-Methylnaphthalene-d10	0.4	0.48	121		30	150
		Fluoranthene-d10	0.4	0.35	87		30	150
		Nitrobenzene-d5	0.4	0.23	57		55	111
		2-Fluorobiphenyl	0.4	0.27	68		53	106
		Terphenyl-d14	0.4	0.46	115		58	132

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4934

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8270-Modified

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID:	P4934-06MS	Client Sample ID:	BPOW6-10-20241119MS					DataFile:	BN035288.D		
1,4-Dioxane	0.4	0	0.20	ug/L	50	*			70	130	



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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4934

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8270-Modified

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID:	P4934-07MSD	Client Sample ID:	BPOW6-10-20241119MSD					DataFile:	BN035289.D		
1,4-Dioxane	0.41	0	0.22	ug/L	54	*	8		70	130	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4934

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified DataFile: BN035290.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Low	Limits	RPD
								Qual		High	
PB165150BS	1,4-Dioxane	0.4	0.45	ug/L	113				70	130	

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB165150BL

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM Case No.: P4934

SAS No.: P4934 SDG NO.: P4934

Lab File ID: BN035285.D

Lab Sample ID: PB165150BL

Instrument ID: BNA_N

Date Extracted: 11/21/2024

Matrix: (soil/water) Water

Date Analyzed: 11/25/2024

Level: (low/med) LOW

Time Analyzed: 15:44

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
BPOW6-11-20241118	P4934-02	BN035286.D	11/25/2024
BPOW6-10-20241119	P4934-05	BN035287.D	11/25/2024
BPOW6-10-20241119MS	P4934-06MS	BN035288.D	11/25/2024
BPOW6-10-20241119MSD	P4934-07MSD	BN035289.D	11/25/2024
PB165150BS	PB165150BS	BN035290.D	11/25/2024
BPOW6-7-20241118	P4934-03	BN035228.D	11/21/2024
DUP01-20241118	P4934-04	BN035229.D	11/21/2024
BPOW6-9-20241119	P4934-08	BN035230.D	11/21/2024
FB01-20241119	P4934-09	BN035231.D	11/21/2024
RB01-20241119	P4934-11	BN035232.D	11/21/2024
BPOW6-8-20241119	P4934-10	BN035233.D	11/21/2024
DUP02-20241119	P4934-12	BN035234.D	11/21/2024

COMMENTS: _____



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: TETR06Lab Code: CHEMSAS No.: P4934SDG NO.: P4934Lab File ID: BN035061.DDFTPP Injection Date: 11/13/2024Instrument ID: BNA_NDFTPP Injection Time: 12:01

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	19.6
68	Less than 2.0% of mass 69	0.4 (1.4) 1
69	Mass 69 relative abundance	29.1
70	Less than 2.0% of mass 69	0.2 (0.7) 1
127	10.0 - 80.0% of mass 198	35.9
197	Less than 2.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 60.0% of mass 198	27.6
365	Greater than 1% of mass 198	4.4
441	Present, but less than mass 443	9.3
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	11.2 (19) 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	BN035062.D	11/13/2024	12:40
SSTDICC0.2	SSTDICC0.2	BN035063.D	11/13/2024	13:16
SSTDICCC0.4	SSTDICCC0.4	BN035064.D	11/13/2024	13:52
SSTDICC0.8	SSTDICC0.8	BN035065.D	11/13/2024	14:28
SSTDICC1.6	SSTDICC1.6	BN035066.D	11/13/2024	15:04
SSTDICC3.2	SSTDICC3.2	BN035067.D	11/13/2024	15:39
SSTDICC5.0	SSTDICC5.0	BN035068.D	11/13/2024	16:15



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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: TETR06Lab Code: CHEMSAS No.: P4934SDG NO.: P4934Lab File ID: BN035218.DDFTPP Injection Date: 11/21/2024Instrument ID: BNA_NDFTPP Injection Time: 12:43

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	23.4
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	30.3
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	40
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.5
275	10.0 - 60.0% of mass 198	27.6
365	Greater than 1% of mass 198	4.2
441	Present, but less than mass 443	11.3
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	12.7 (18.5) 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	BN035219.D	11/21/2024	13:22
BPOW6-7-20241118	P4934-03	BN035228.D	11/21/2024	18:48
DUP01-20241118	P4934-04	BN035229.D	11/21/2024	19:24
BPOW6-9-20241119	P4934-08	BN035230.D	11/21/2024	20:00
FB01-20241119	P4934-09	BN035231.D	11/21/2024	20:36
RB01-20241119	P4934-11	BN035232.D	11/21/2024	21:12
BPOW6-8-20241119	P4934-10	BN035233.D	11/21/2024	21:49
DUP02-20241119	P4934-12	BN035234.D	11/21/2024	22:25
SSTDCCC0.4EC	SSTDCCC0.4	BN035235.D	11/21/2024	23:01



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Fax : 908 789 8922

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: TETR06Lab Code: CHEMSAS No.: P4934 SDG NO.: P4934Lab File ID: BN035276.DDFTPP Injection Date: 11/25/2024Instrument ID: BNA_NDFTPP Injection Time: 09:37

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	22.2
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	30.5
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	40.9
197	Less than 2.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	28.2
365	Greater than 1% of mass 198	4.2
441	Present, but less than mass 443	10.4
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	12.3 (18.9) 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
SSTDIC0.1	SSTDIC0.1	BN035277.D	11/25/2024	10:16
SSTDIC0.2	SSTDIC0.2	BN035278.D	11/25/2024	10:52
SSTDICCC0.4	SSTDICCC0.4	BN035279.D	11/25/2024	11:28
SSTDIC0.8	SSTDIC0.8	BN035280.D	11/25/2024	12:04
SSTDIC1.6	SSTDIC1.6	BN035281.D	11/25/2024	12:40
SSTDIC3.2	SSTDIC3.2	BN035282.D	11/25/2024	13:16
SSTDIC5.0	SSTDIC5.0	BN035283.D	11/25/2024	13:52
PB165150BL	PB165150BL	BN035285.D	11/25/2024	15:44
BPOW6-11-20241118	P4934-02	BN035286.D	11/25/2024	16:20
BPOW6-10-20241119	P4934-05	BN035287.D	11/25/2024	16:56
BPOW6-10-20241119MS	P4934-06MS	BN035288.D	11/25/2024	17:32
BPOW6-10-20241119MSD	P4934-07MSD	BN035289.D	11/25/2024	18:08
PB165150BS	PB165150BS	BN035290.D	11/25/2024	18:44
SSTDCCC0.4EC	SSTDCCC0.4	BN035291.D	11/25/2024	19:20

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4934 SAS No.: P4934 SDG NO.: P4934

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 11/21/2024

Lab File ID: BN035219.D Time Analyzed: 13:22

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	3553	7.329	8594	10.07	5839	13.99
UPPER LIMIT	7106	7.829	17188	10.573	11678	14.487
LOWER LIMIT	1776.5	6.829	4297	9.573	2919.5	13.487
EPA SAMPLE NO.						
01 BPOW6-7-20241118	2646	7.32	6014	10.07	3783	13.99
02 DUP01-20241118	2749	7.32	6688	10.07	4330	13.98
03 BPOW6-9-20241119	2756	7.32	6458	10.07	4128	13.98
04 FB01-20241119	2669	7.32	6148	10.07	3898	13.98
05 BPOW6-8-20241119	2753	7.32	6705	10.07	4351	13.98
06 RB01-20241119	2945	7.32	7124	10.07	4659	13.98
07 DUP02-20241119	2771	7.32	6431	10.07	3947	13.98

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.: P4934 SAS No.: P4934 SDG NO.: P4934

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 11/21/2024

Lab File ID: BN035219.D Time Analyzed: 13:22

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	13132	16.746	2179	21.008	7936	23.104
UPPER LIMIT	26264	17.246	4358	21.508	15872	23.604
LOWER LIMIT	6566	16.246	1089.5	20.508	3968	22.604
EPA SAMPLE NO.						
01 BPOW6-7-20241118	8215	16.75	1596	21.01	7371	23.10
02 DUP01-20241118	8619	16.75	1170	21.01	5974	23.10
03 BPOW6-9-20241119	8432	16.75	1400	21.01	6097	23.10
04 FB01-20241119	8027	16.75	1052 *	21.01	5733	23.10
05 BPOW6-8-20241119	9377	16.75	1394	21.01	5766	23.10
06 RB01-20241119	9464	16.75	1183	21.01	6123	23.10
07 DUP02-20241119	8351	16.75	946 *	21.01	7194	23.10

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4934 SAS No.: P4934 SDG NO.: P4934

EPA Sample No.: SSTDICCC0.4 Date Analyzed: 11/25/2024

Lab File ID: BN035279.D Time Analyzed: 11:28

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

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	2200	7.315	5326	10.06	2947	13.98
UPPER LIMIT	4400	7.815	10652	10.563	5894	14.476
LOWER LIMIT	1100	6.815	2663	9.563	1473.5	13.476
EPA SAMPLE NO.						
01 BPOW6-11-20241118	3259	7.32	7991	10.06	4583	13.98
02 BPOW6-10-20241119	3377	7.32	8188	10.06	4836	13.97
03 BPOW6-10-20241119MS	3628	7.32	8728	10.06	5209	13.97
04 BPOW6-10-20241119MSD	3339	7.32	8134	10.06	4891	13.97
05 PB165150BL	3592	7.32	7815	10.06	3951	13.98
06 PB165150BS	3630	7.32	8519	10.06	4791	13.97

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.: P4934 SAS No.: P4934 SDG NO.: P4934

EPA Sample No.: SSTDICCC0.4 Date Analyzed: 11/25/2024

Lab File ID: BN035279.D Time Analyzed: 11:28

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

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	6895	16.734	586	21.008	4692	23.078
UPPER LIMIT	13790	17.234	1172	21.508	9384	23.578
LOWER LIMIT	3447.5	16.234	293	20.508	2346	22.578
EPA SAMPLE NO.						
01 BPOW6-11-20241118	10715	16.73	870	21.01	5339	23.08
02 BPOW6-10-20241119	10344	16.73	824	21.01	5052	23.08
03 BPOW6-10-20241119MS	11399	16.73	743	21.01	5613	23.08
04 BPOW6-10-20241119MSD	10884	16.74	706	21.01	5495	23.08
05 PB165150BL	8151	16.73	804	21.01	4507	23.08
06 PB165150BS	9614	16.73	730	21.01	5488	23.08

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.



SAMPLE DATA

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	11/18/24
Project:	CTO WE13	Date Received:	11/20/24
Client Sample ID:	BPOW6-11-20241118	SDG No.:	P4934
Lab Sample ID:	P4934-02	Matrix:	Water
Analytical Method:	SW8270SIM	% 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 :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035286.D	1	11/21/24 08:27	11/25/24 16:20	PB165150

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.21	U	0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.36		30 - 150		89%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.44		30 - 150		109%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.18	*	55 - 111		44%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.25		53 - 106		63%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.62	*	58 - 132		155%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3260	7.315				
1146-65-2	Naphthalene-d8	7990	10.063				
15067-26-2	Acenaphthene-d10	4580	13.976				
1517-22-2	Phenanthrene-d10	10700	16.734				
1719-03-5	Chrysene-d12	870	21.008				
1520-96-3	Perylene-d12	5340	23.078				

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\BN112524\
Data File : BN035286.D
Acq On : 25 Nov 2024 16:20
Operator : RC/JU
Sample : P4934-02
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241118

Quant Time: Nov 25 18:02:57 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 25 14:32:52 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.315	152	3259	0.400	ng	0.00
7) Naphthalene-d8	10.063	136	7991	0.400	ng	# 0.00
13) Acenaphthene-d10	13.976	164	4583	0.400	ng	# 0.00
19) Phenanthrene-d10	16.734	188	10715	0.400	ng	0.00
29) Chrysene-d12	21.008	240	870	0.400	ng	0.00
35) Perylene-d12	23.078	264	5339	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.968	112	812	0.132	ng	0.00
5) Phenol-d6	6.520	99	658	0.077	ng	0.00
8) Nitrobenzene-d5	8.450	82	1149	0.177	ng	0.00
11) 2-Methylnaphthalene-d10	11.663	152	3968	0.355	ng	0.00
14) 2,4,6-Tribromophenol	15.484	330	527	0.225	ng	0.00
15) 2-Fluorobiphenyl	12.608	172	634	0.250	ng	0.00
27) Fluoranthene-d10	18.792	212	12500	0.436	ng	0.00
31) Terphenyl-d14	19.419	244	9973	0.620	ng	0.00

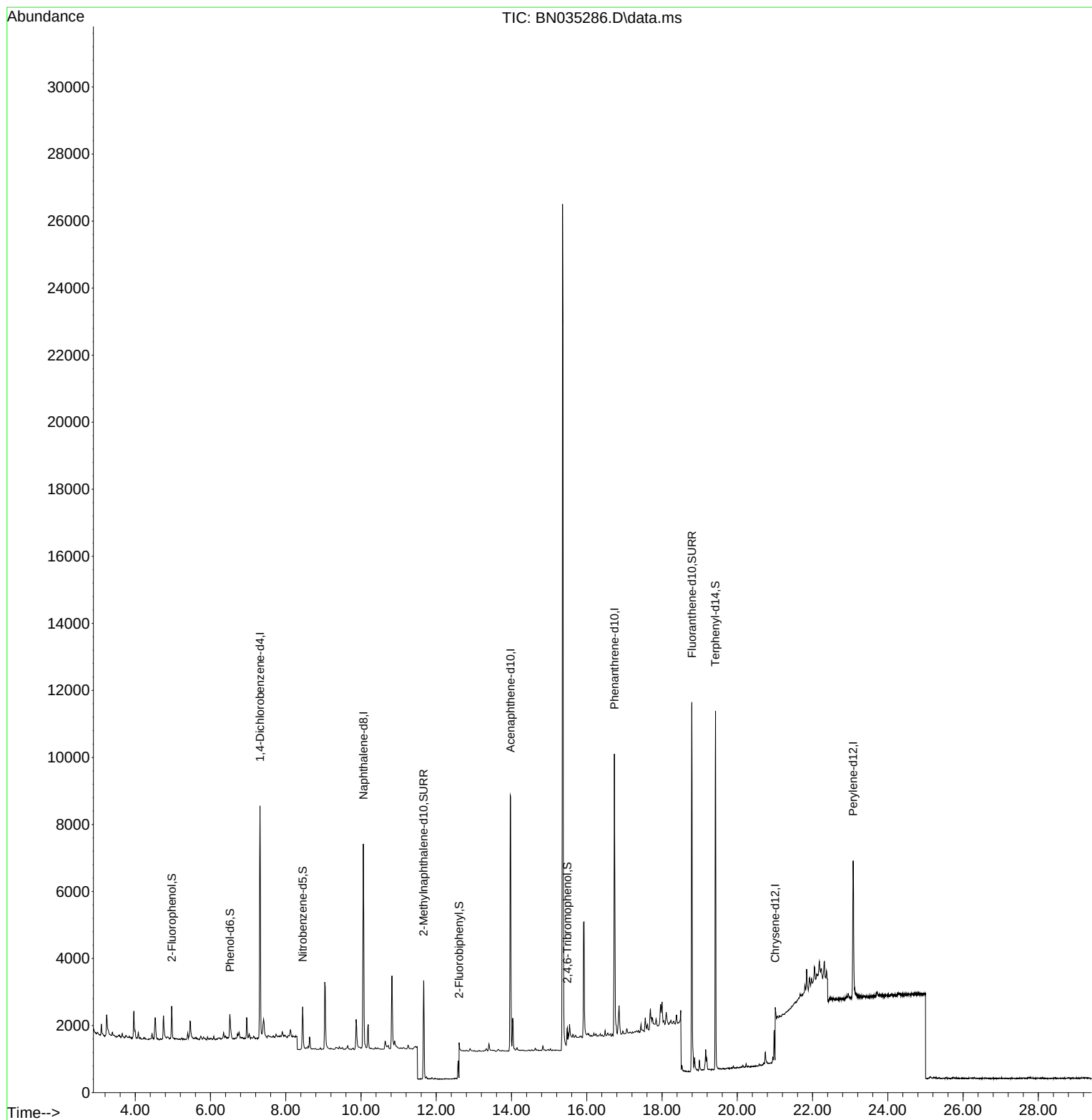
Target Compounds	Qvalue

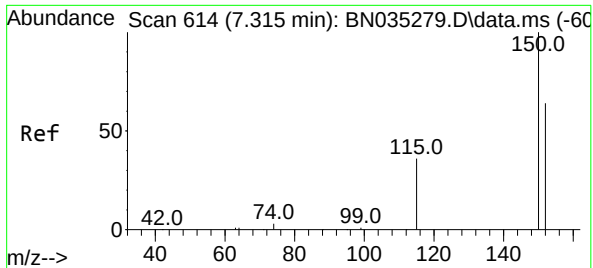
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
Data File : BN035286.D
Acq On : 25 Nov 2024 16:20
Operator : RC/JU
Sample : P4934-02
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241118

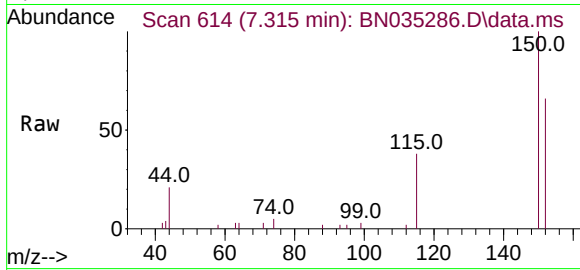
Quant Time: Nov 25 18:02:57 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 25 14:32:52 2024
Response via : Initial Calibration



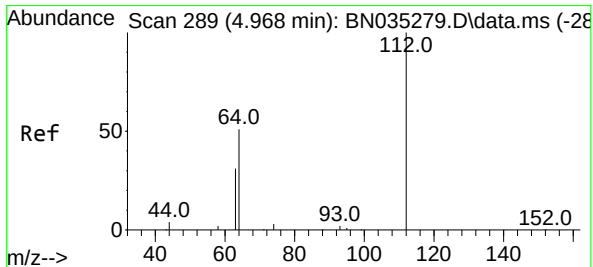
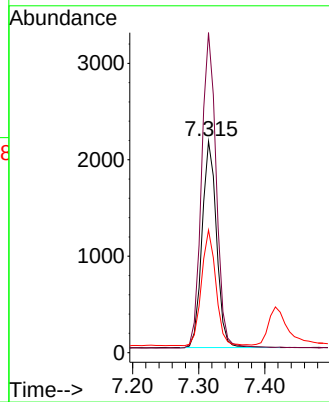


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.315 min Scan# 614
Delta R.T. -0.000 min
Lab File: BN035286.D
Acq: 25 Nov 2024 16:20

Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241118

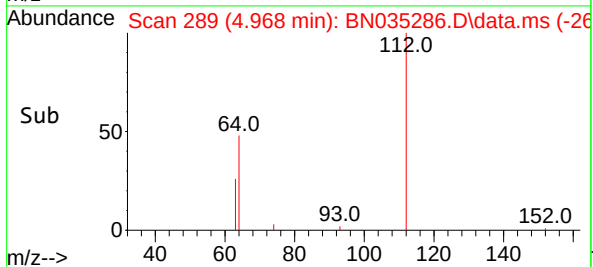
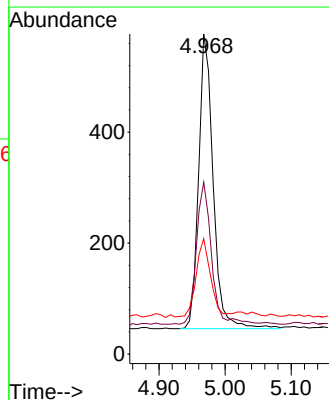
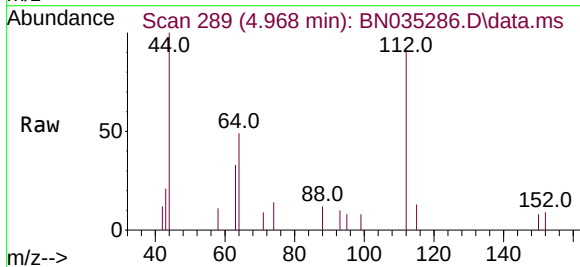


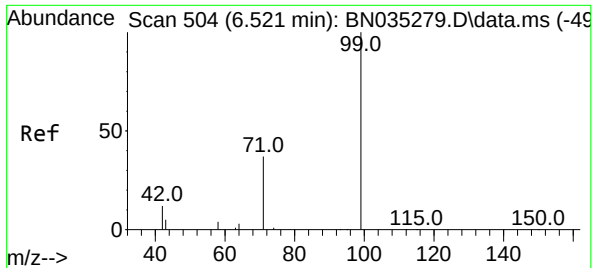
Tgt Ion:152 Resp: 3259
Ion Ratio Lower Upper
152 100
150 151.4 124.5 186.7
115 58.0 47.8 71.8



#4
2-Fluorophenol
Concen: 0.132 ng
RT: 4.968 min Scan# 289
Delta R.T. -0.000 min
Lab File: BN035286.D
Acq: 25 Nov 2024 16:20

Tgt Ion:112 Resp: 812
Ion Ratio Lower Upper
112 100
64 49.8 40.4 60.6
63 26.6 23.8 35.8

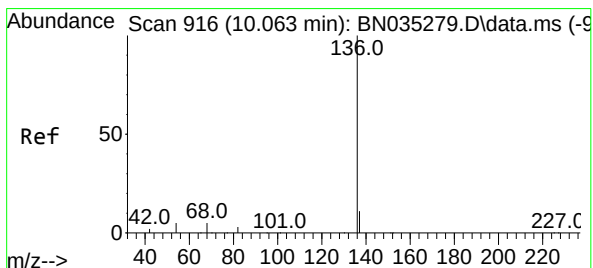
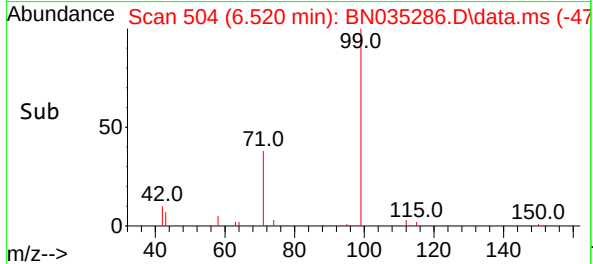
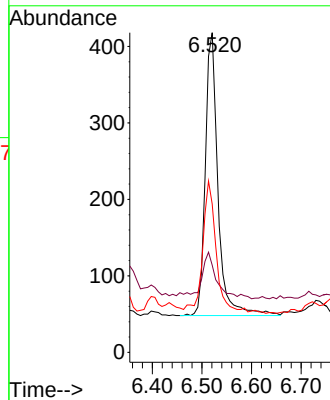
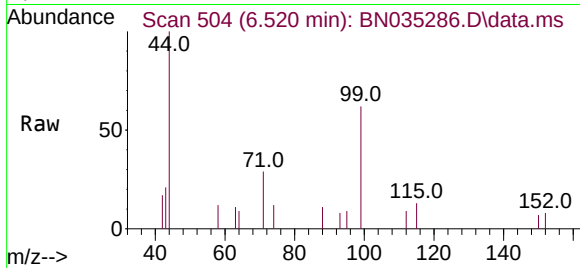




#5
Phenol-d6
Concen: 0.077 ng
RT: 6.520 min Scan# 504
Delta R.T. -0.000 min
Lab File: BN035286.D
Acq: 25 Nov 2024 16:20

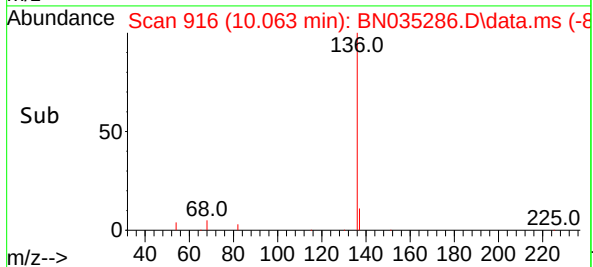
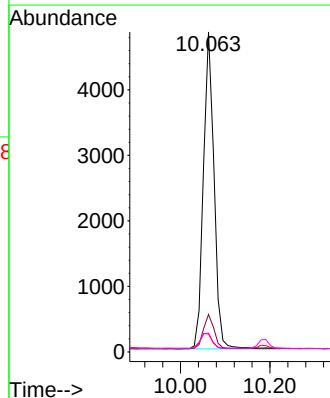
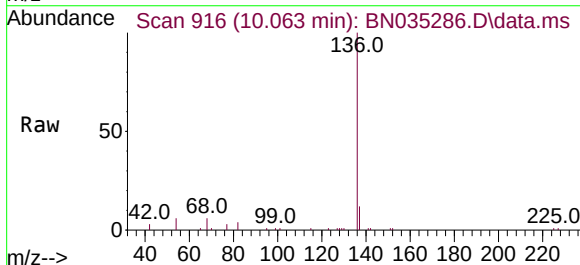
Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241118

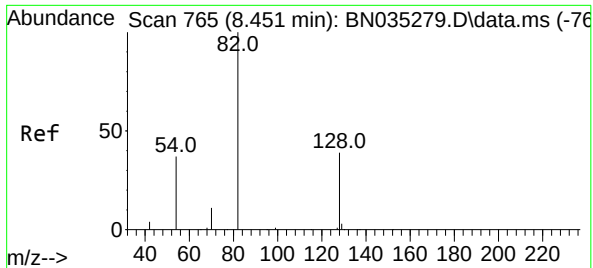
Tgt Ion:	99	Resp:	658
Ion	Ratio	Lower	Upper
99	100		
42	17.0	12.8	19.2
71	46.4	31.4	47.2



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.063 min Scan# 916
Delta R.T. -0.000 min
Lab File: BN035286.D
Acq: 25 Nov 2024 16:20

Tgt Ion:	136	Resp:	7991
Ion	Ratio	Lower	Upper
136	100		
137	11.7	9.7	14.5
54	5.6	5.3	7.9
68	5.9	5.9	8.9

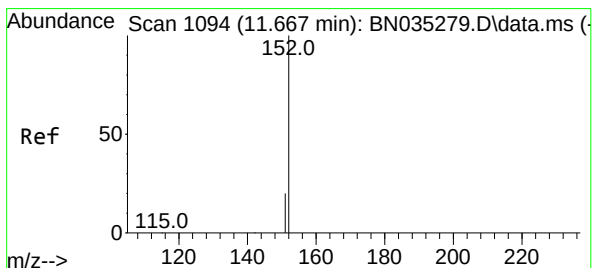
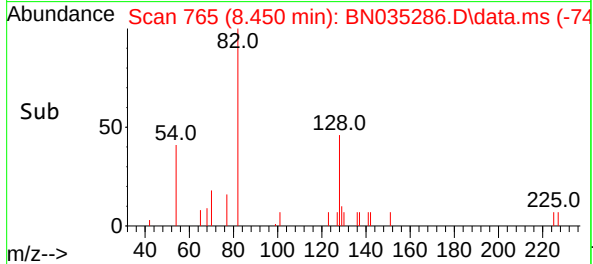
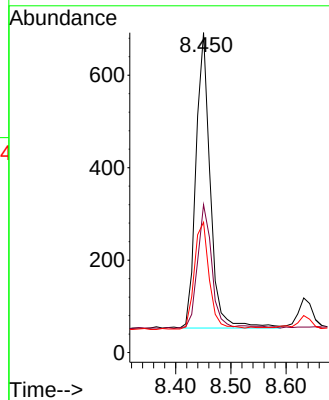
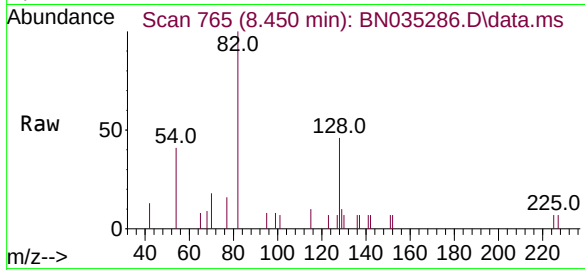




#8
Nitrobenzene-d5
Concen: 0.177 ng
RT: 8.450 min Scan# 765
Delta R.T. -0.000 min
Lab File: BN035286.D
Acq: 25 Nov 2024 16:20

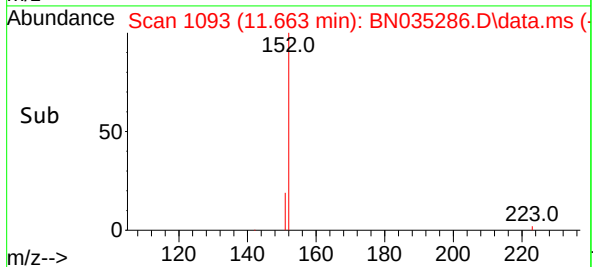
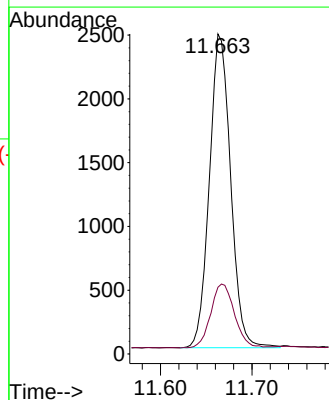
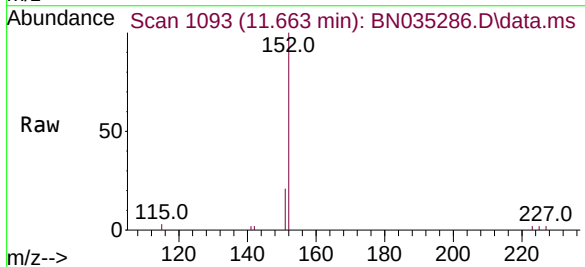
Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241118

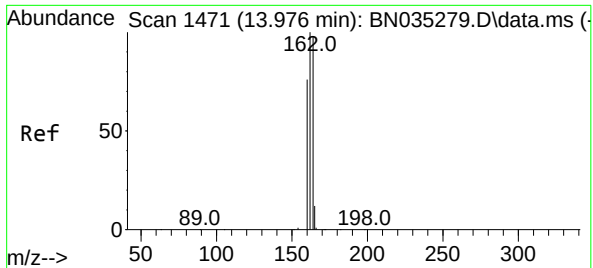
Tgt Ion:	82	Resp:	1149
Ion	Ratio	Lower	Upper
82	100		
128	46.2	33.0	49.4
54	40.8	33.3	49.9



#11
2-Methylnaphthalene-d10
Concen: 0.355 ng
RT: 11.663 min Scan# 1093
Delta R.T. -0.004 min
Lab File: BN035286.D
Acq: 25 Nov 2024 16:20

Tgt Ion:	152	Resp:	3968
Ion	Ratio	Lower	Upper
152	100		
151	22.8	17.2	25.8

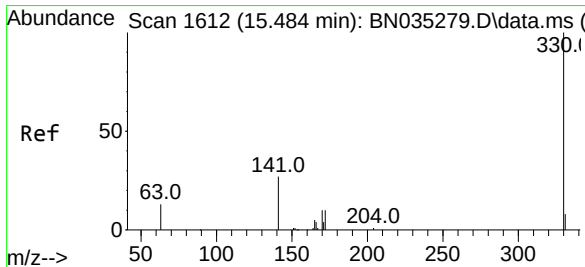
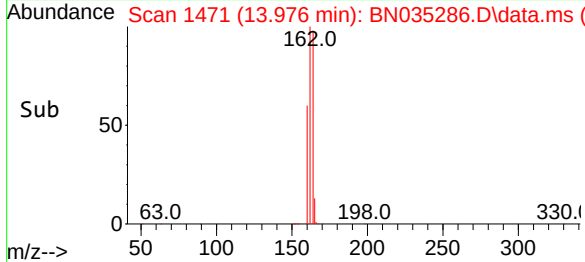
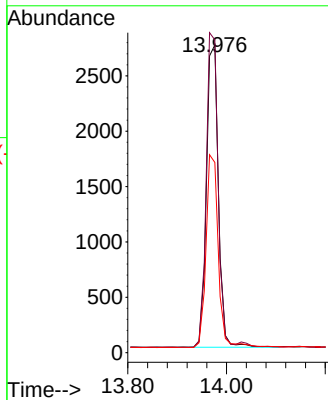
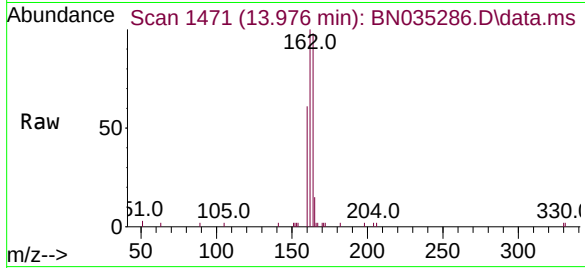




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.976 min Scan# 1471
Delta R.T. -0.000 min
Lab File: BN035286.D
Acq: 25 Nov 2024 16:20

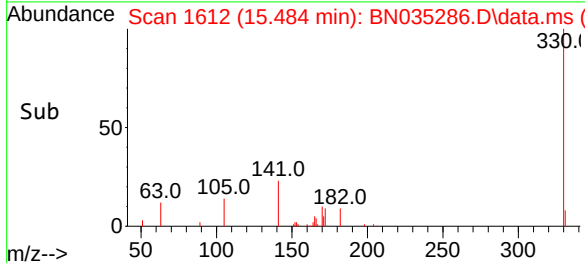
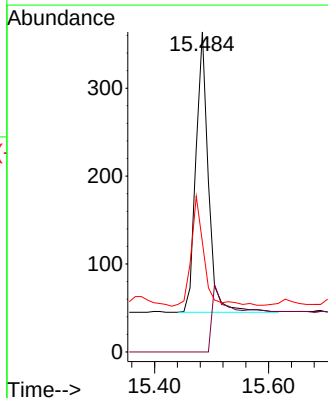
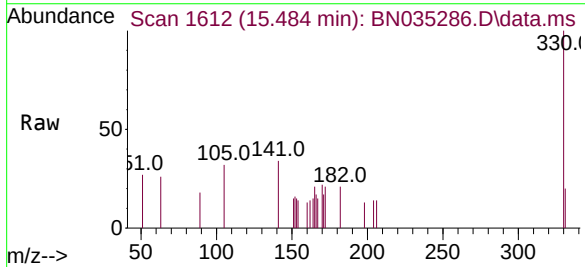
Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241118

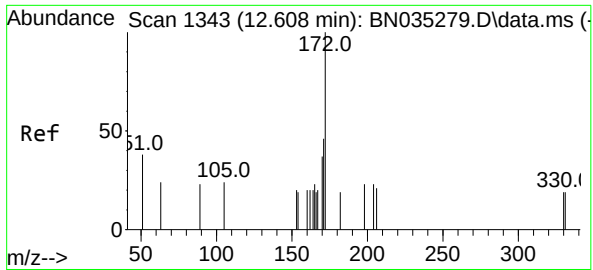
Tgt Ion:164 Resp: 4583
Ion Ratio Lower Upper
164 100
162 101.7 82.0 123.0
160 61.8 63.0 94.4#



#14
2,4,6-Tribromophenol
Concen: 0.225 ng
RT: 15.484 min Scan# 1612
Delta R.T. -0.000 min
Lab File: BN035286.D
Acq: 25 Nov 2024 16:20

Tgt Ion:330 Resp: 527
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 39.7 32.4 48.6

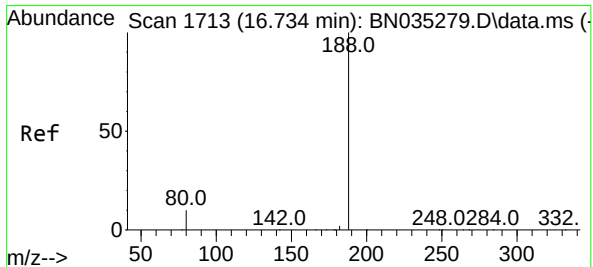
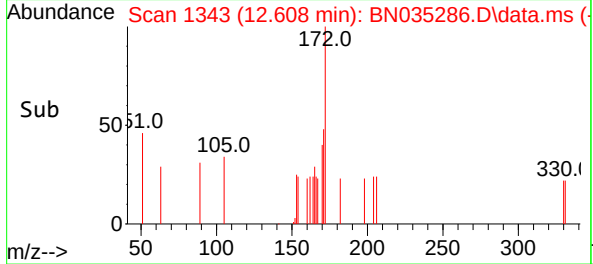
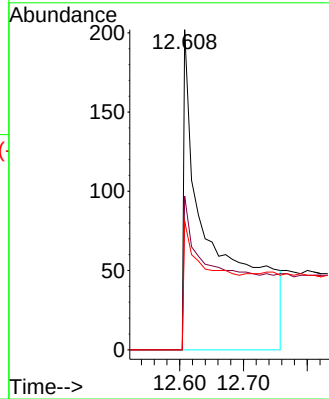
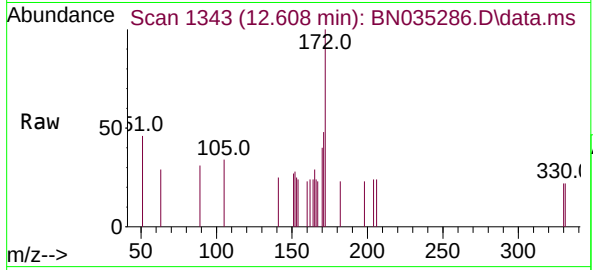




#15
2-Fluorobiphenyl
Concen: 0.250 ng
RT: 12.608 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN035286.D
Acq: 25 Nov 2024 16:20

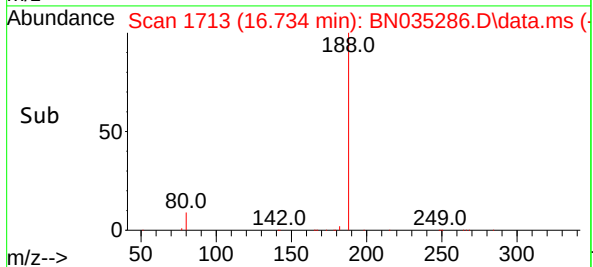
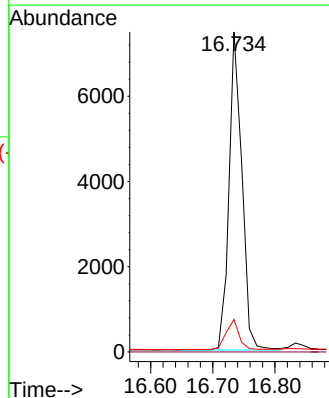
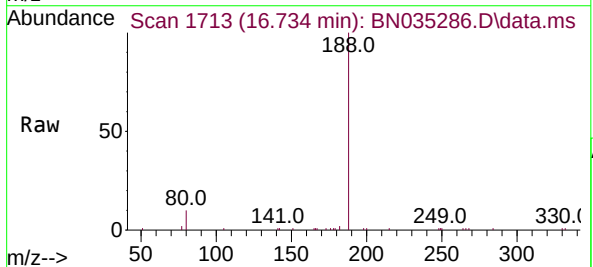
Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241118

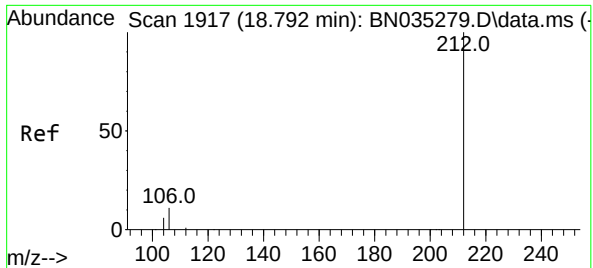
Tgt Ion	Ratio	Lower	Upper
172	100		
171	48.0	36.6	55.0
170	40.1	29.7	44.5



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.734 min Scan# 1713
Delta R.T. -0.000 min
Lab File: BN035286.D
Acq: 25 Nov 2024 16:20

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.2	8.9	13.3

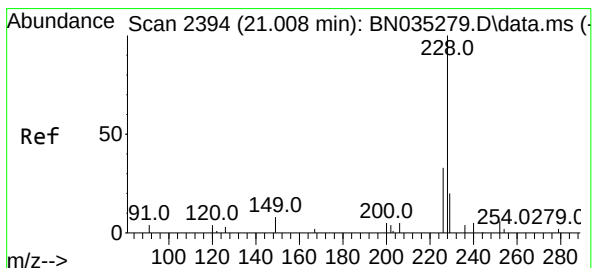
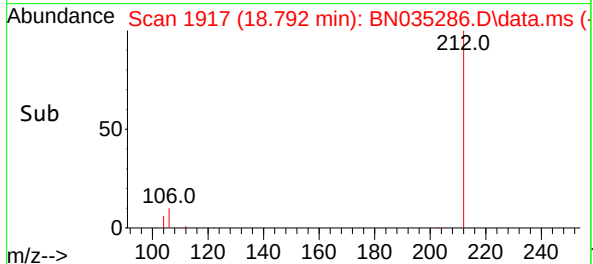
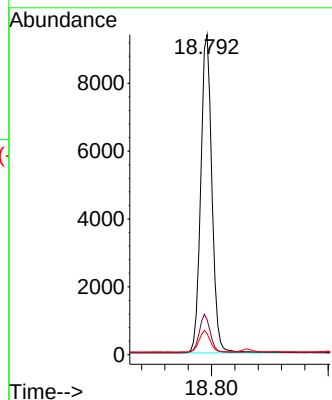
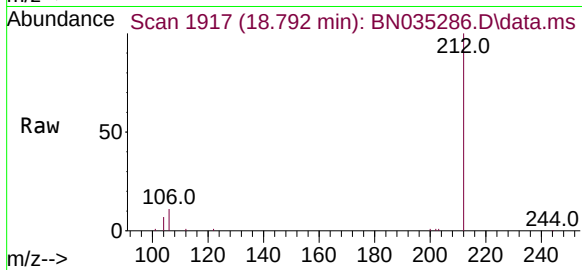




#27
Fluoranthene-d10
Concen: 0.436 ng
RT: 18.792 min Scan# 1917
Delta R.T. -0.000 min
Lab File: BN035286.D
Acq: 25 Nov 2024 16:20

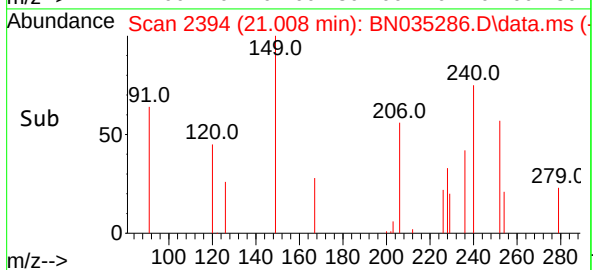
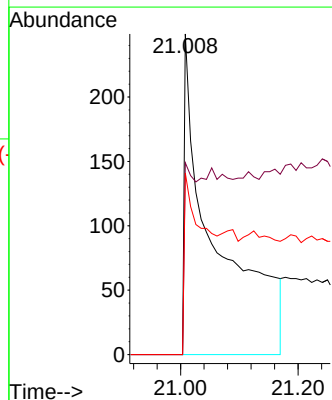
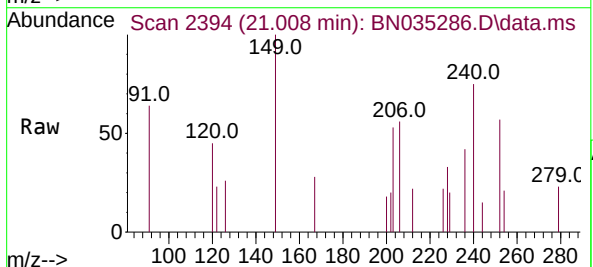
Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241118

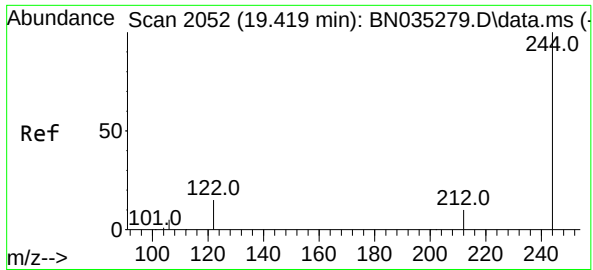
Tgt Ion	Ratio	Lower	Upper
212	100		
106	11.6	9.8	14.8
104	6.7	5.6	8.4



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.008 min Scan# 2394
Delta R.T. -0.000 min
Lab File: BN035286.D
Acq: 25 Nov 2024 16:20

Tgt Ion	Ratio	Lower	Upper
240	100		
120	59.8	54.9	82.3
236	56.6	54.0	81.0

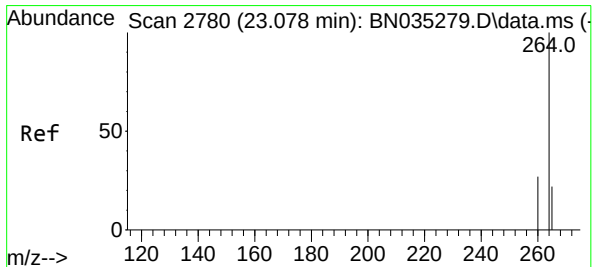
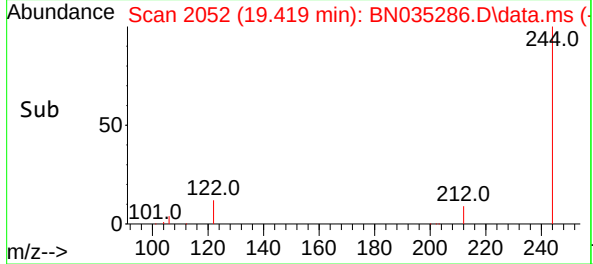
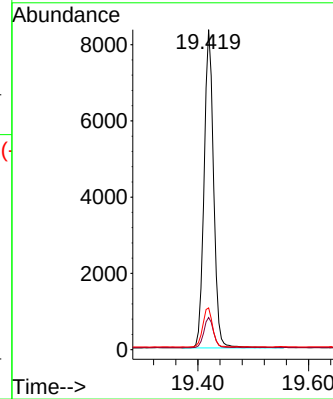
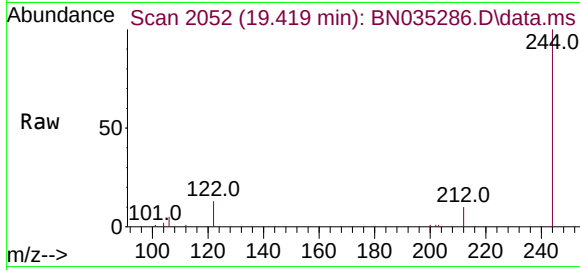




#31
Terphenyl-d14
Concen: 0.620 ng
RT: 19.419 min Scan# 2052
Delta R.T. 0.000 min
Lab File: BN035286.D
Acq: 25 Nov 2024 16:20

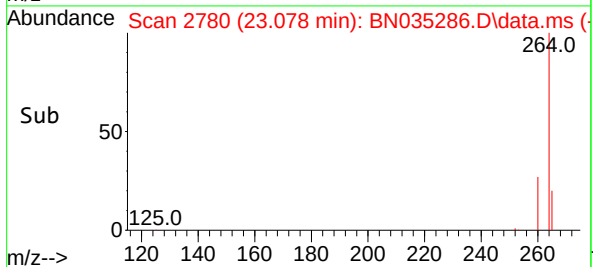
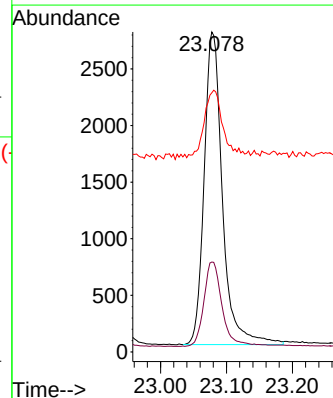
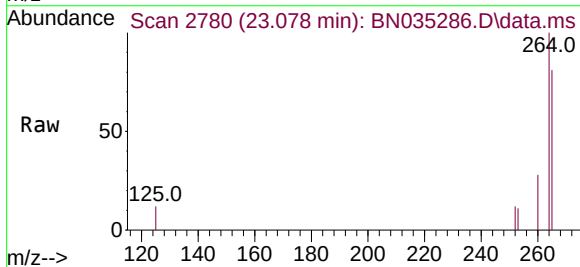
Instrument :
BNA_N
ClientSampleId :
BPOW6-11-20241118

Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.1	9.4	14.0
122	13.1	13.0	19.4



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.078 min Scan# 2780
Delta R.T. -0.000 min
Lab File: BN035286.D
Acq: 25 Nov 2024 16:20

Tgt Ion	Ratio	Lower	Upper
264	100		
260	28.1	22.3	33.5
265	81.0	68.6	103.0



Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	11/18/24
Project:	CTO WE13		Date Received:	11/20/24
Client Sample ID:	BPOW6-7-20241118		SDG No.:	P4934
Lab Sample ID:	P4934-03		Matrix:	Water
Analytical Method:	SW8270SIM		% 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 :	SW3510C			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035228.D	1	11/21/24 08:27	11/21/24 18:48	PB165150

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.29		30 - 150		74%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.39		30 - 150		96%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.21	*	55 - 111		52%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.086	*	53 - 106		22%	SPK: 0.4
1718-51-0	Terphenyl-d14	2.63	*	58 - 132		657%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2650		7.322			
1146-65-2	Naphthalene-d8	6010		10.073			
15067-26-2	Acenaphthene-d10	3780		13.987			
1517-22-2	Phenanthrene-d10	8220		16.746			
1719-03-5	Chrysene-d12	1600		21.008			
1520-96-3	Perylene-d12	7370		23.098			

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\BN112124\
 Data File : BN035228.D
 Acq On : 21 Nov 2024 18:48
 Operator : RC/JU
 Sample : P4934-03
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 BPOW6-7-20241118

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/22/2024
 Supervised By :mohammad ahmed 11/22/2024

Quant Time: Nov 21 23:05:16 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 21 14:00:03 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.322	152	2646	0.400	ng	0.00
7) Naphthalene-d8	10.073	136	6014	0.400	ng	# 0.00
13) Acenaphthene-d10	13.987	164	3783	0.400	ng	0.00
19) Phenanthrene-d10	16.746	188	8215	0.400	ng	# 0.00
29) Chrysene-d12	21.008	240	1596	0.400	ng	# 0.00
35) Perylene-d12	23.098	264	7371	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.982	112	1293	0.192	ng	0.00
5) Phenol-d6	6.528	99	953	0.113	ng	0.00
8) Nitrobenzene-d5	8.461	82	1094m	0.209	ng	0.00
11) 2-Methylnaphthalene-d10	11.678	152	3149	0.294	ng	0.00
14) 2,4,6-Tribromophenol	15.494	330	726	0.266	ng	0.00
15) 2-Fluorobiphenyl	12.608	172	1325	0.086	ng	0.00
27) Fluoranthene-d10	18.801	212	9699	0.385	ng	0.00
31) Terphenyl-d14	19.433	244	8802	2.628	ng	0.00
Target Compounds						Qvalue
30) Pyrene	19.201	202	275	0.052	ng	97

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

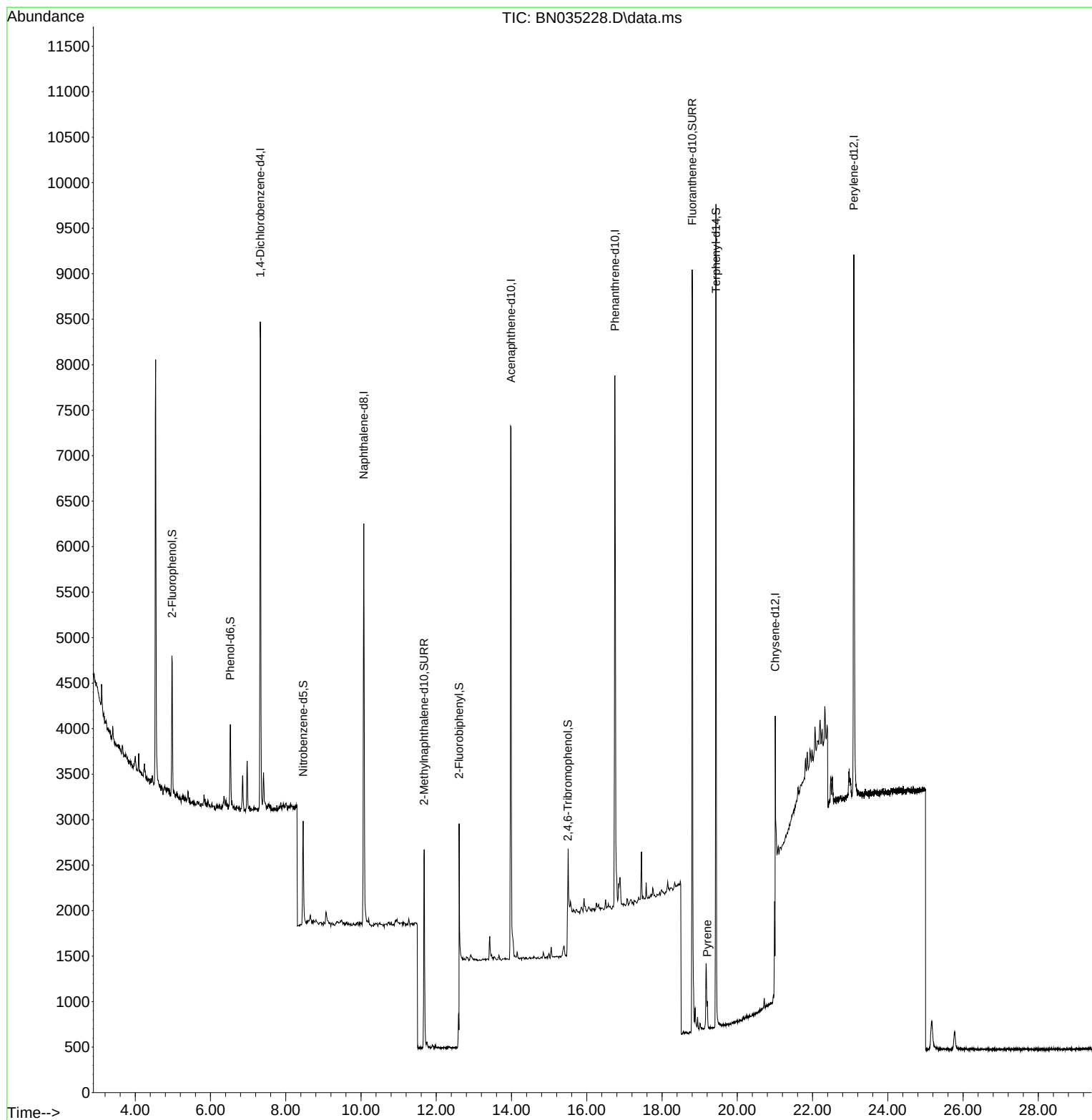
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112124\
Data File : BN035228.D
Acq On : 21 Nov 2024 18:48
Operator : RC/JU
Sample : P4934-03
Misc :
ALS Vial : 11 Sample Multiplier: 1

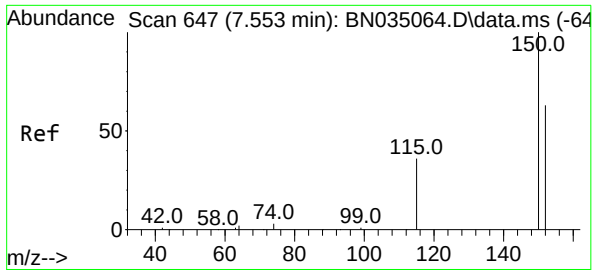
Instrument :
BNA_N
ClientSampleId :
BPOW6-7-20241118

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024

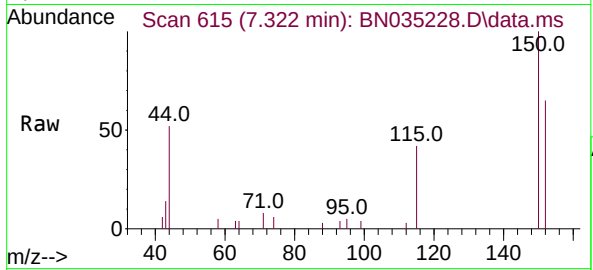
Quant Time: Nov 21 23:05:16 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 14:00:03 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.322 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN035228.D
Acq: 21 Nov 2024 18:48

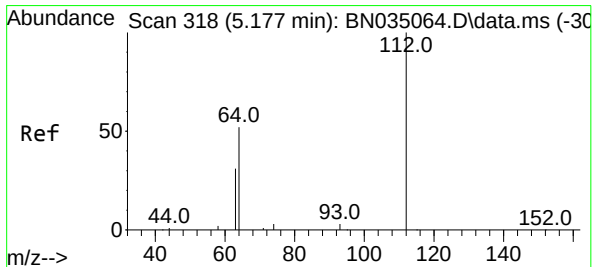
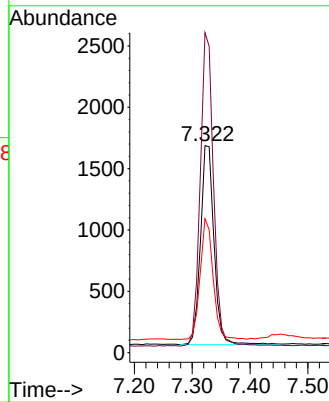
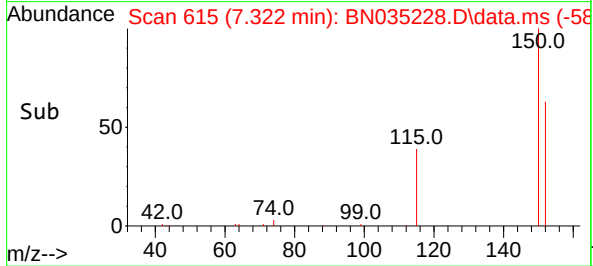
Instrument :
BNA_N
ClientSampleId :
BPOW6-7-20241118



Tgt Ion:152 Resp: 2640
Ion Ratio Lower Upper
152 100
150 154.6 124.5 186.7
115 64.7 47.8 71.6

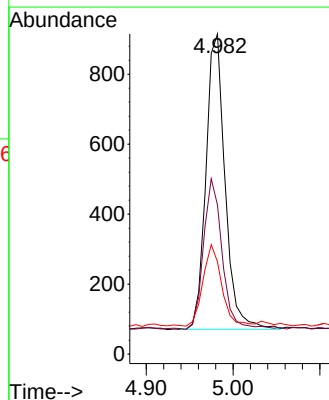
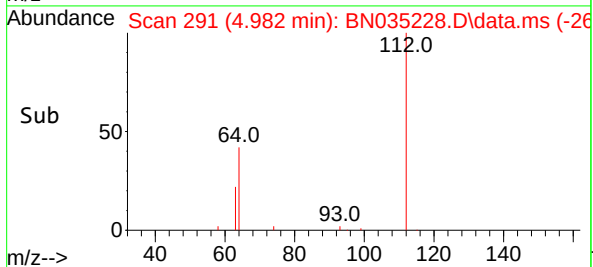
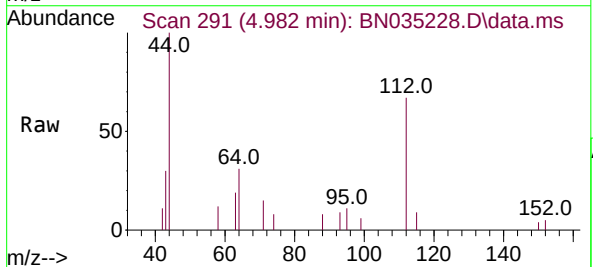
Manual Integrations
APPROVED

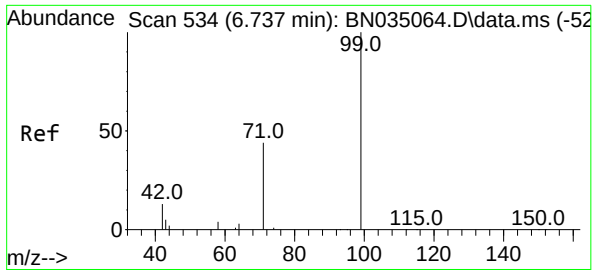
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#4
2-Fluorophenol
Concen: 0.192 ng
RT: 4.982 min Scan# 291
Delta R.T. -0.000 min
Lab File: BN035228.D
Acq: 21 Nov 2024 18:48

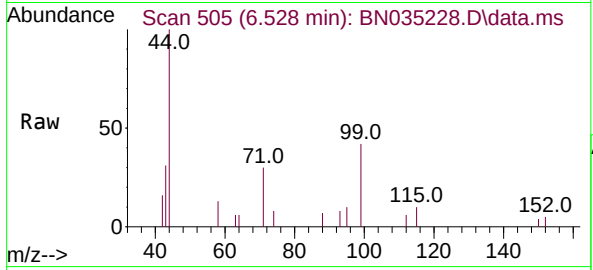
Tgt Ion:112 Resp: 1293
Ion Ratio Lower Upper
112 100
64 49.4 39.7 59.5
63 27.3 23.0 34.4





#5
Phenol-d6
Concen: 0.113 ng
RT: 6.528 min Scan# 505
Delta R.T. -0.000 min
Lab File: BN035228.D
Acq: 21 Nov 2024 18:48

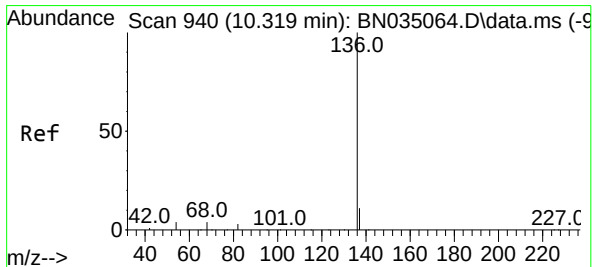
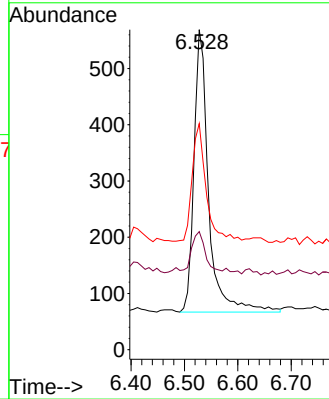
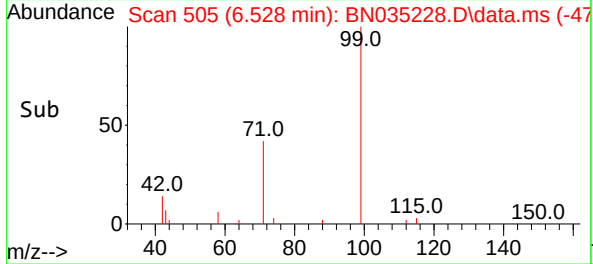
Instrument :
BNA_N
ClientSampleId :
BPOW6-7-20241118



Tgt Ion: 99 Resp: 95
Ion Ratio Lower Upper
99 100
42 12.1 11.4 17.0
71 40.7 34.6 51.8

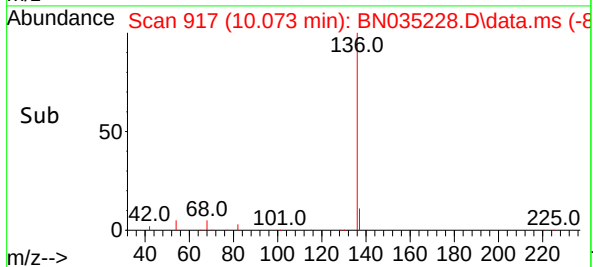
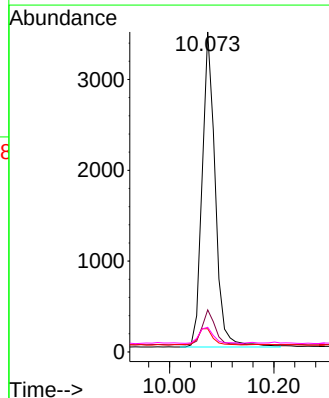
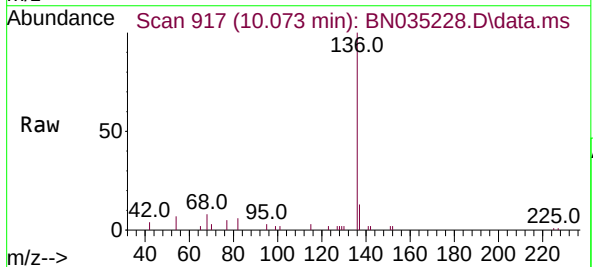
Manual Integrations
APPROVED

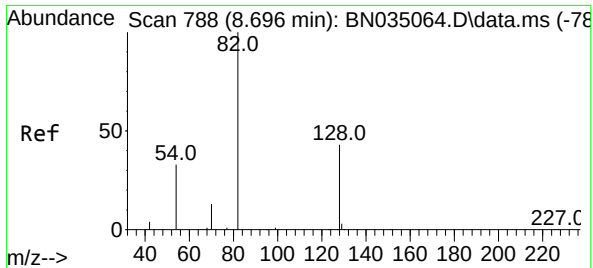
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.073 min Scan# 917
Delta R.T. -0.000 min
Lab File: BN035228.D
Acq: 21 Nov 2024 18:48

Tgt Ion:136 Resp: 6014
Ion Ratio Lower Upper
136 100
137 13.1 9.8 14.8
54 7.3 4.0 6.0#
68 7.7 4.2 6.2#





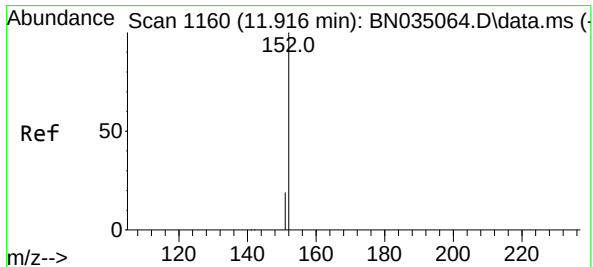
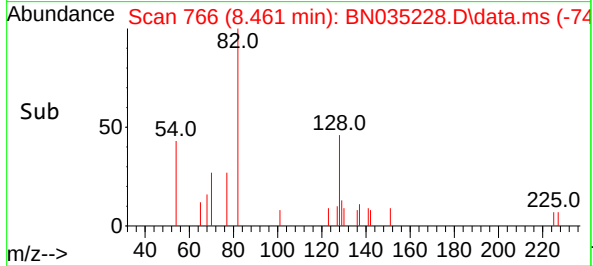
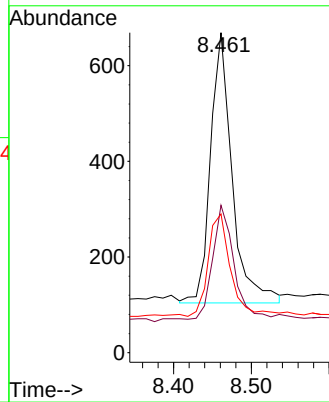
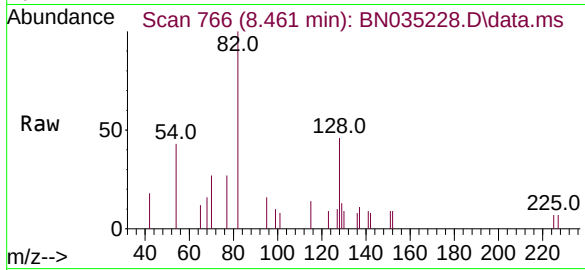
#8
Nitrobenzene-d5
Concen: 0.209 ng m
RT: 8.461 min Scan# 70
Delta R.T. -0.000 min
Lab File: BN035228.D
Acq: 21 Nov 2024 18:48

Instrument :
BNA_N
ClientSampleId :
BPOW6-7-20241118

Tgt Ion: 82 Resp: 1094
Ion Ratio Lower Upper
82 100
128 46.0 36.5 54.7
54 43.3 28.7 43.1

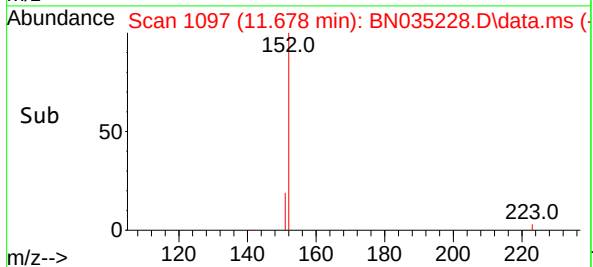
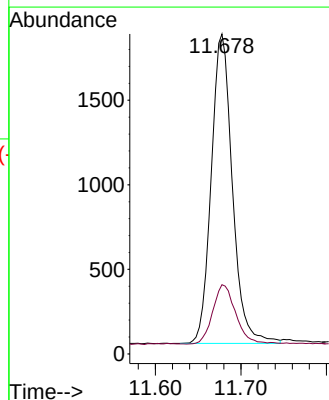
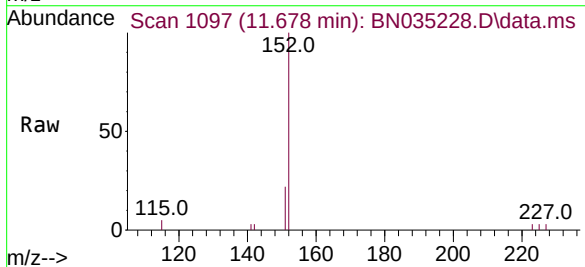
Manual Integrations
APPROVED

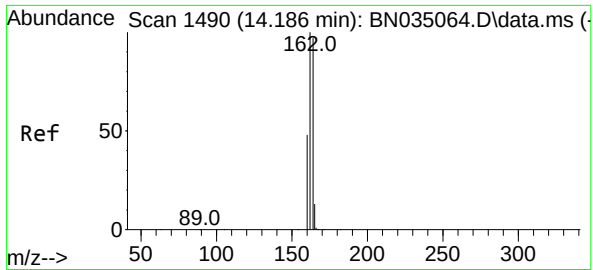
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#11
2-Methylnaphthalene-d10
Concen: 0.294 ng
RT: 11.678 min Scan# 1097
Delta R.T. -0.000 min
Lab File: BN035228.D
Acq: 21 Nov 2024 18:48

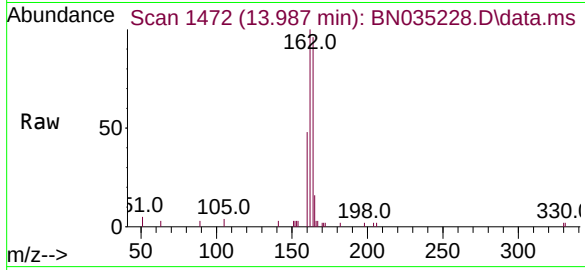
Tgt Ion:152 Resp: 3149
Ion Ratio Lower Upper
152 100
151 21.0 16.2 24.4





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.987 min Scan# 1490
Delta R.T. -0.000 min
Lab File: BN035228.D
Acq: 21 Nov 2024 18:48

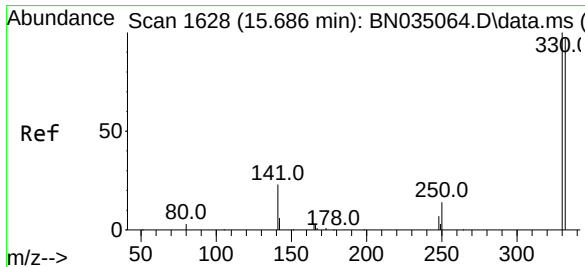
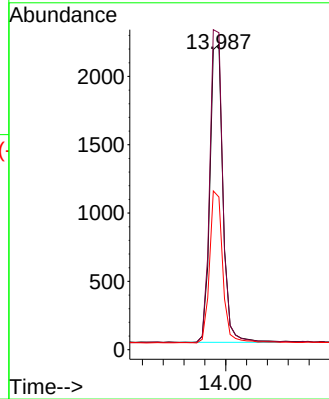
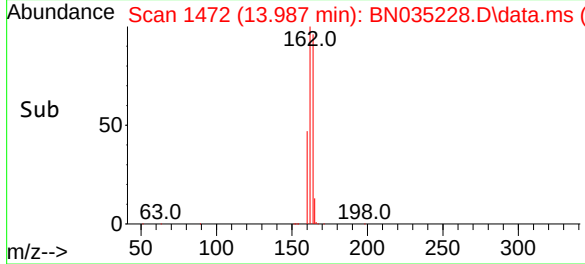
Instrument :
BNA_N
ClientSampleId :
BPOW6-7-20241118



Tgt Ion:164 Resp: 378
Ion Ratio Lower Upper
164 100
162 103.8 82.2 123.2
160 50.0 40.2 60.4

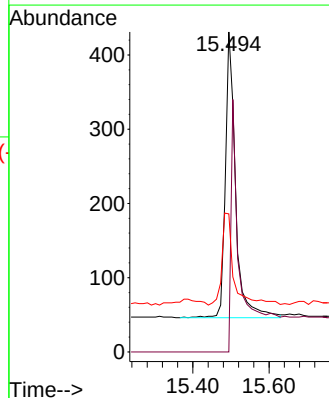
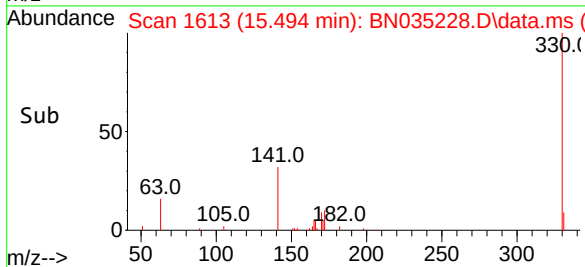
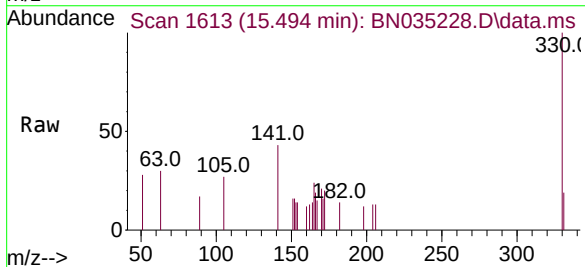
Manual Integrations
APPROVED

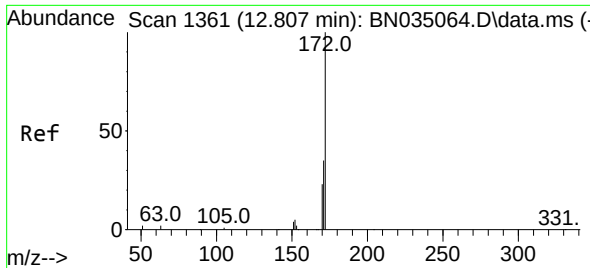
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#14
2,4,6-Tribromophenol
Concen: 0.266 ng
RT: 15.494 min Scan# 1613
Delta R.T. -0.000 min
Lab File: BN035228.D
Acq: 21 Nov 2024 18:48

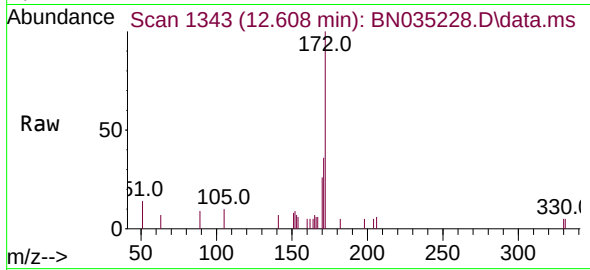
Tgt Ion:330 Resp: 726
Ion Ratio Lower Upper
330 100
332 0.0 76.9 115.3#
141 39.0 29.6 44.4





#15
2-Fluorobiphenyl
Concen: 0.086 ng
RT: 12.608 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN035228.D
Acq: 21 Nov 2024 18:48

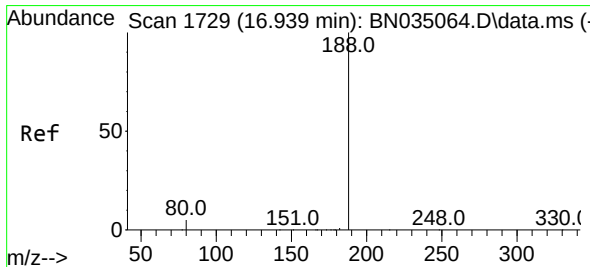
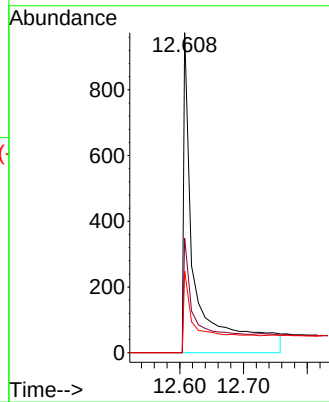
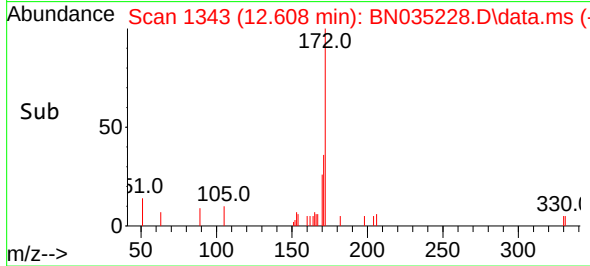
Instrument :
BNA_N
ClientSampleId :
BPOW6-7-20241118



Tgt Ion:172 Resp: 1325
Ion Ratio Lower Upper
172 100
171 35.8 28.2 42.4
170 25.6 19.0 28.6

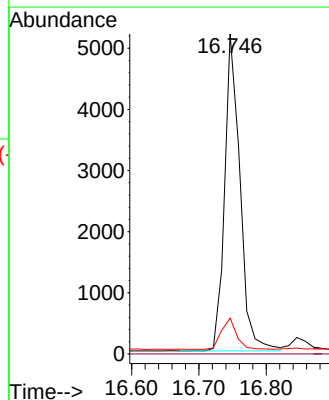
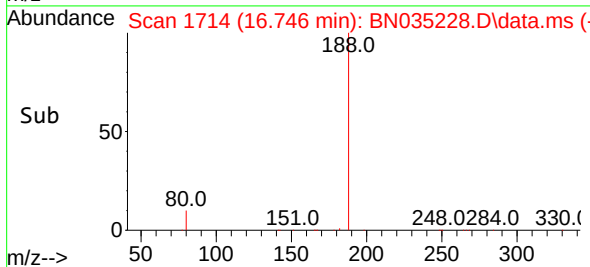
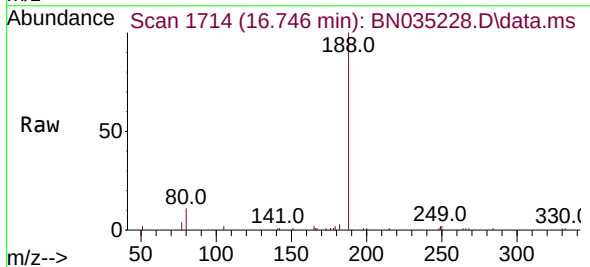
Manual Integrations
APPROVED

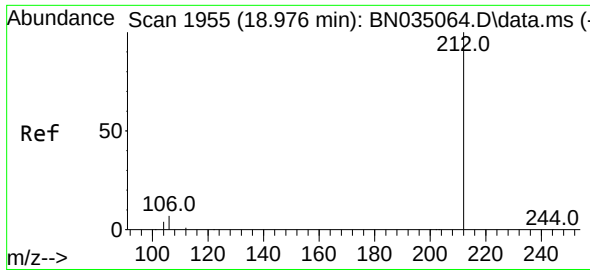
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.746 min Scan# 1714
Delta R.T. -0.000 min
Lab File: BN035228.D
Acq: 21 Nov 2024 18:48

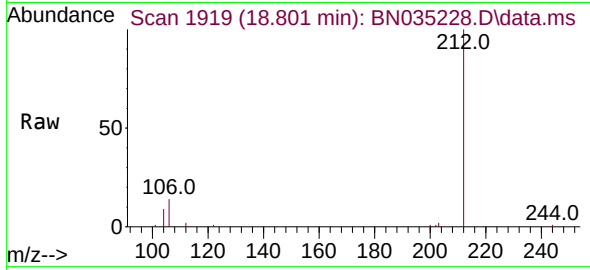
Tgt Ion:188 Resp: 8215
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 11.2 4.3 6.5





#27
Fluoranthene-d10
Concen: 0.385 ng
RT: 18.801 min Scan# 1919
Delta R.T. -0.005 min
Lab File: BN035228.D
Acq: 21 Nov 2024 18:48

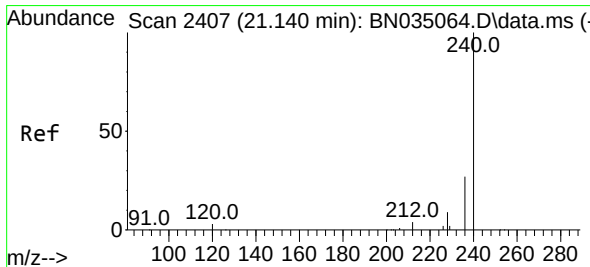
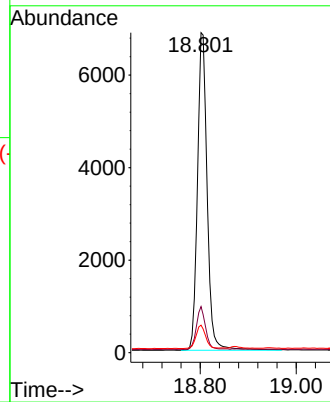
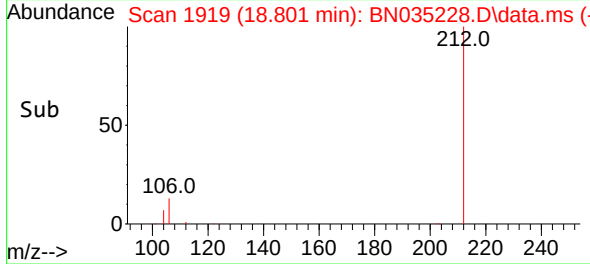
Instrument :
BNA_N
ClientSampleId :
BPOW6-7-20241118



Tgt Ion:212 Resp: 969
Ion Ratio Lower Upper
212 100
106 12.7 6.0 9.0#
104 7.2 3.5 5.3#

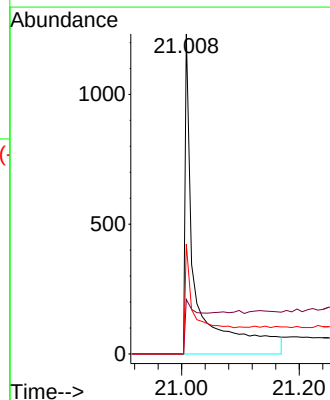
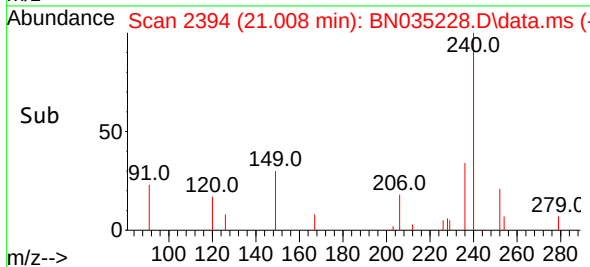
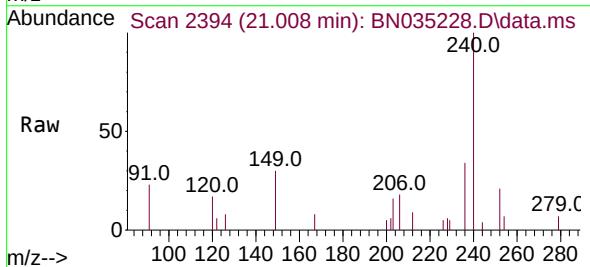
Manual Integrations
APPROVED

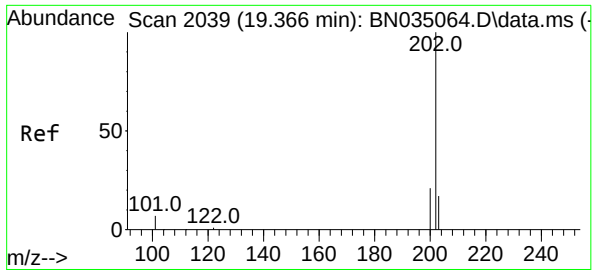
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.008 min Scan# 2394
Delta R.T. -0.000 min
Lab File: BN035228.D
Acq: 21 Nov 2024 18:48

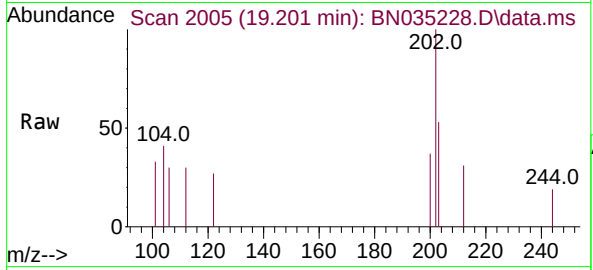
Tgt Ion:240 Resp: 1596
Ion Ratio Lower Upper
240 100
120 17.0 3.8 5.6#
236 34.3 22.2 33.2#





#30
Pyrene
Concen: 0.052 ng
RT: 19.201 min Scan# 2005
Delta R.T. -0.005 min
Lab File: BN035228.D
Acq: 21 Nov 2024 18:48

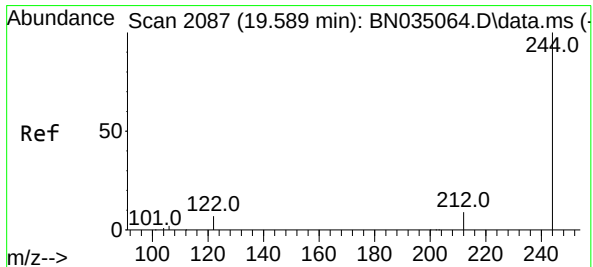
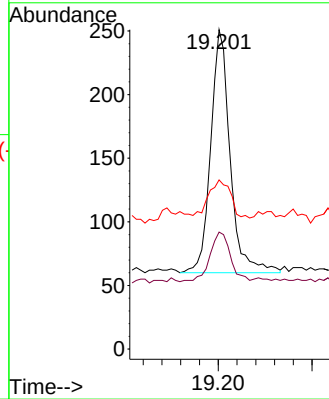
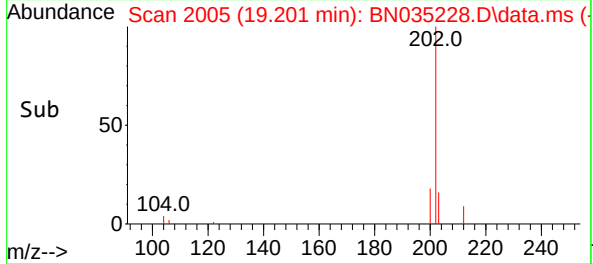
Instrument :
BNA_N
ClientSampleId :
BPOW6-7-20241118



Tgt Ion:202 Resp: 275
Ion Ratio Lower Upper
202 100
200 21.5 16.7 25.1
203 19.6 14.2 21.4

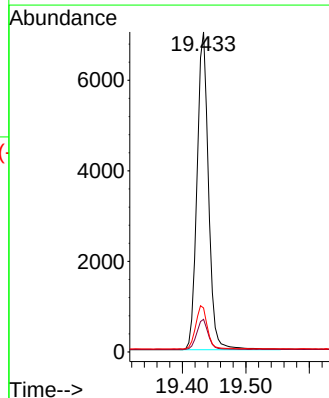
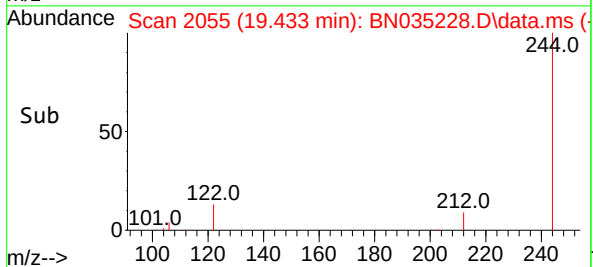
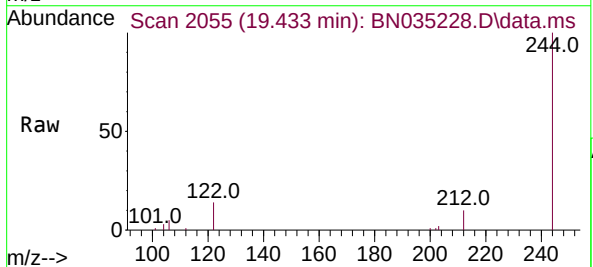
Manual Integrations
APPROVED

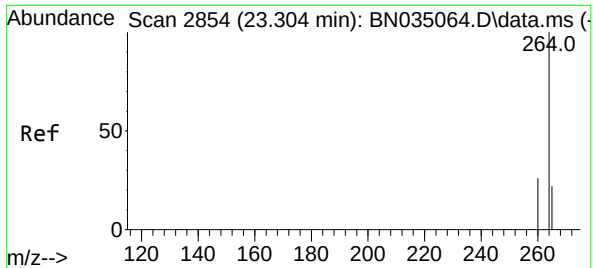
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#31
Terphenyl-d14
Concen: 2.628 ng
RT: 19.433 min Scan# 2055
Delta R.T. -0.005 min
Lab File: BN035228.D
Acq: 21 Nov 2024 18:48

Tgt Ion:244 Resp: 8802
Ion Ratio Lower Upper
244 100
212 10.2 7.6 11.4
122 13.7 6.1 9.1#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.098 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN035228.D

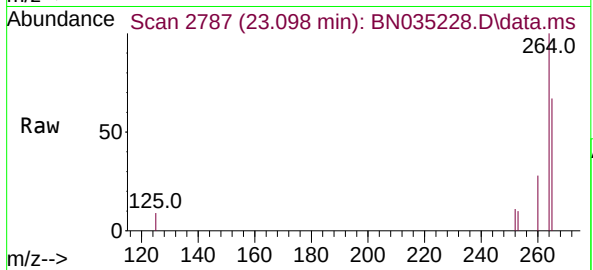
Acq: 21 Nov 2024 18:48

Instrument :

BNA_N

ClientSampleId :

BPOW6-7-20241118



Tgt Ion:264 Resp: 737

Ion Ratio Lower Upper

264 100

260 28.0 20.9 31.3

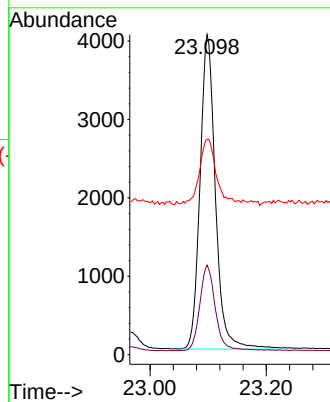
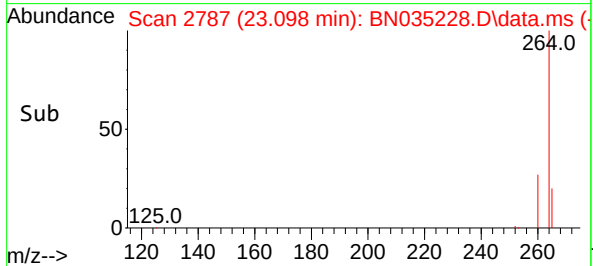
265 67.3 35.4 53.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/22/2024

Supervised By :mohammad ahmed 11/22/2024



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	11/18/24
Project:	CTO WE13	Date Received:	11/20/24
Client Sample ID:	DUP01-20241118	SDG No.:	P4934
Lab Sample ID:	P4934-04	Matrix:	Water
Analytical Method:	SW8270SIM	% 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 :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035229.D	1	11/21/24 08:27	11/21/24 19:24	PB165150

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.28		30 - 150		69%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.33		30 - 150		83%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.18	*	55 - 111		45%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.061	*	53 - 106		15%	SPK: 0.4
1718-51-0	Terphenyl-d14	2.81	*	58 - 132		702%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2750		7.322			
1146-65-2	Naphthalene-d8	6690		10.073			
15067-26-2	Acenaphthene-d10	4330		13.976			
1517-22-2	Phenanthrene-d10	8620		16.746			
1719-03-5	Chrysene-d12	1170		21.008			
1520-96-3	Perylene-d12	5970		23.095			

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\BN112124\
 Data File : BN035229.D
 Acq On : 21 Nov 2024 19:24
 Operator : RC/JU
 Sample : P4934-04
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 DUP01-20241118

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/22/2024
 Supervised By :mohammad ahmed 11/22/2024

Quant Time: Nov 21 23:05:29 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 21 14:00:03 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.322	152	2749	0.400	ng	0.00
7) Naphthalene-d8	10.073	136	6688	0.400	ng	# 0.00
13) Acenaphthene-d10	13.976	164	4330	0.400	ng	-0.01
19) Phenanthrene-d10	16.746	188	8619	0.400	ng	# 0.00
29) Chrysene-d12	21.008	240	1170	0.400	ng	# 0.00
35) Perylene-d12	23.095	264	5974	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.982	112	1267	0.182	ng	0.00
5) Phenol-d6	6.528	99	948	0.108	ng	0.00
8) Nitrobenzene-d5	8.461	82	1062m	0.182	ng	0.00
11) 2-Methylnaphthalene-d10	11.674	152	3299	0.277	ng	0.00
14) 2,4,6-Tribromophenol	15.494	330	730	0.234	ng	0.00
15) 2-Fluorobiphenyl	12.608	172	1072	0.061	ng	0.00
27) Fluoranthene-d10	18.802	212	8814	0.334	ng	0.00
31) Terphenyl-d14	19.429	244	6893	2.808	ng	0.00
Target Compounds						Qvalue
30) Pyrene	19.201	202	326	0.084	ng	# 95

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

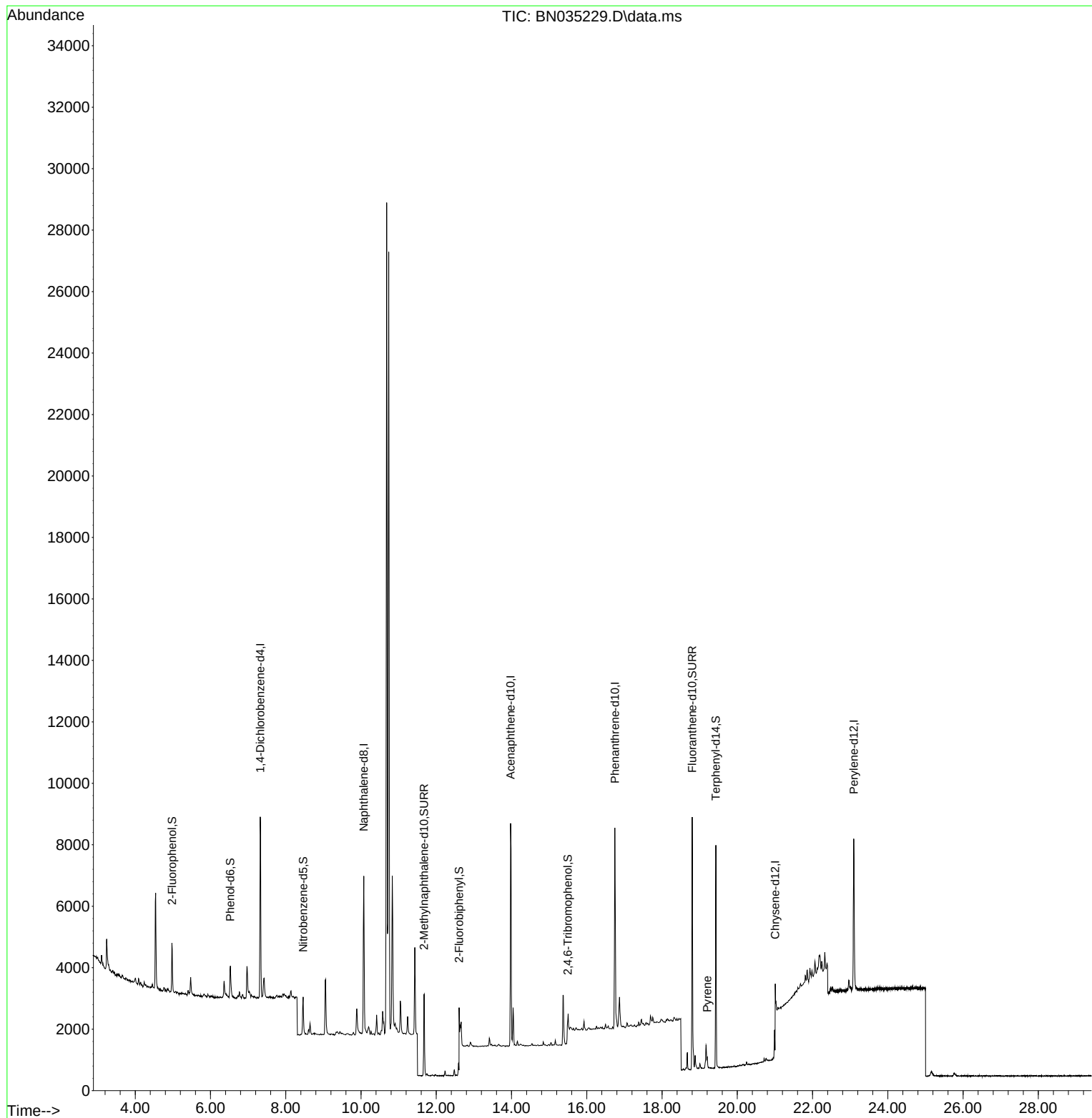
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112124\
Data File : BN035229.D
Acq On : 21 Nov 2024 19:24
Operator : RC/JU
Sample : P4934-04
Misc :
ALS Vial : 12 Sample Multiplier: 1

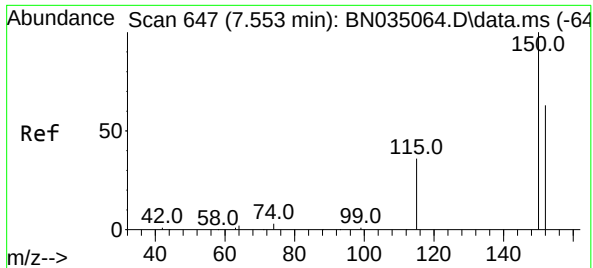
Instrument :
BNA_N
ClientSampleId :
DUP01-20241118

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024

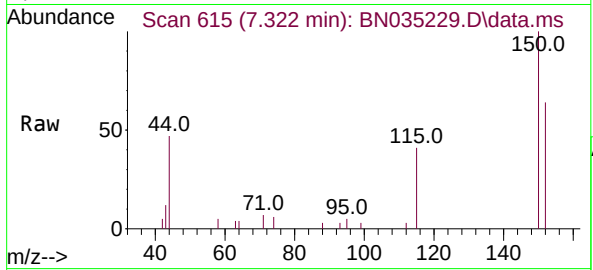
Quant Time: Nov 21 23:05:29 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 14:00:03 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.322 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN035229.D
Acq: 21 Nov 2024 19:24

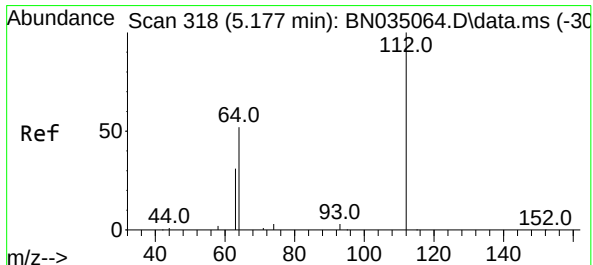
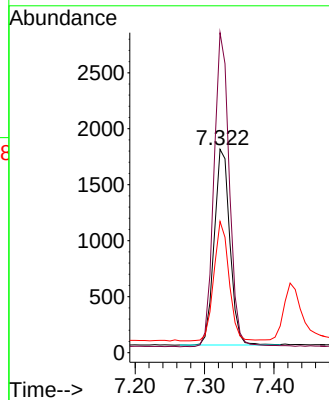
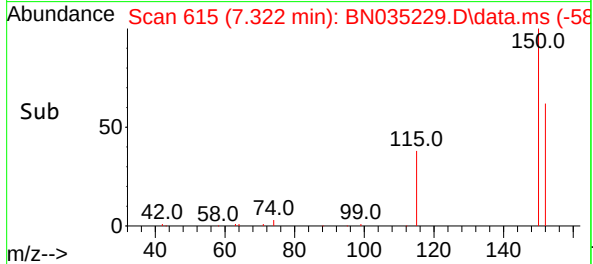
Instrument :
BNA_N
ClientSampleId :
DUP01-20241118



Tgt Ion:152 Resp: 2749
Ion Ratio Lower Upper
152 100
150 157.4 124.5 186.7
115 64.5 47.8 71.6

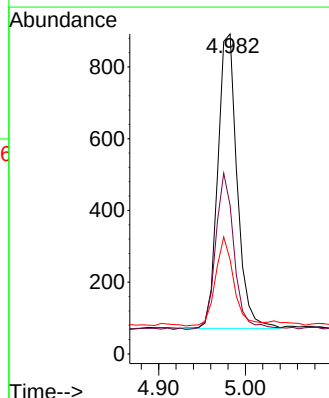
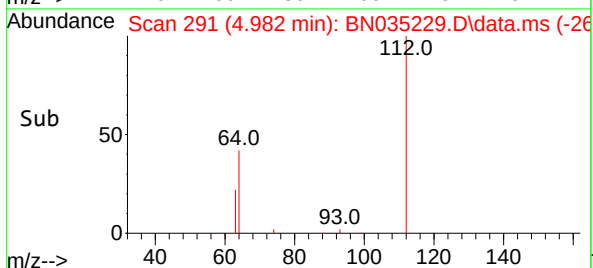
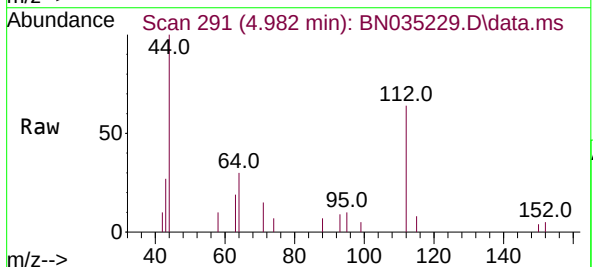
Manual Integrations
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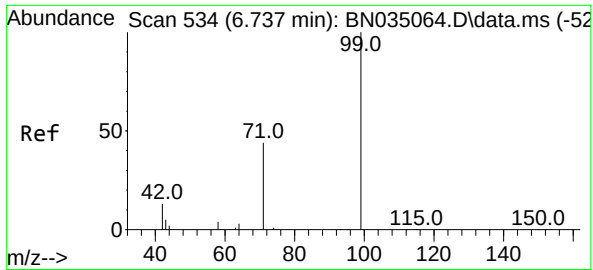
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#4
2-Fluorophenol
Concen: 0.182 ng
RT: 4.982 min Scan# 291
Delta R.T. 0.000 min
Lab File: BN035229.D
Acq: 21 Nov 2024 19:24

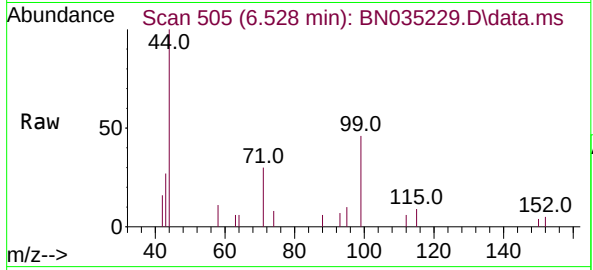
Tgt Ion:112 Resp: 1267
Ion Ratio Lower Upper
112 100
64 51.4 39.7 59.5
63 28.6 23.0 34.4





#5
Phenol-d6
Concen: 0.108 ng
RT: 6.528 min Scan# 505
Delta R.T. 0.000 min
Lab File: BN035229.D
Acq: 21 Nov 2024 19:24

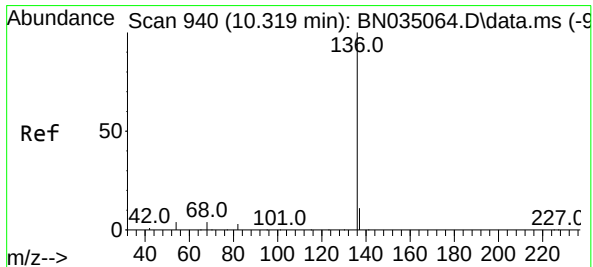
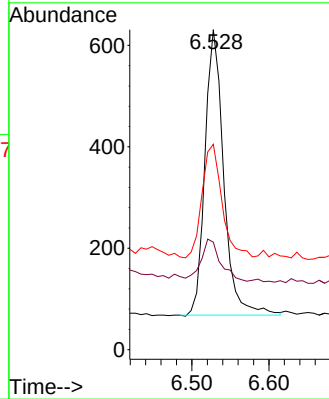
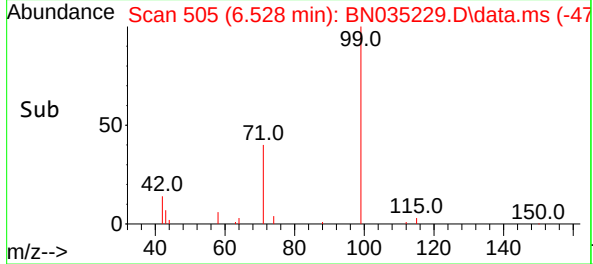
Instrument :
BNA_N
ClientSampleId :
DUP01-20241118



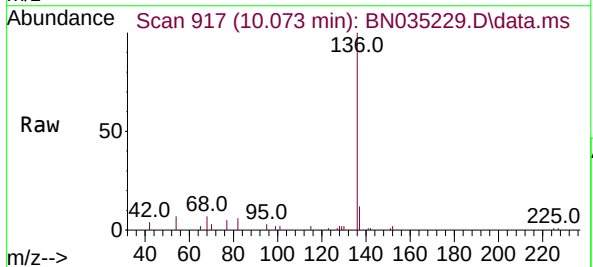
Tgt Ion: 99 Resp: 948
Ion Ratio Lower Upper
99 100
42 15.2 11.4 17.0
71 42.5 34.6 51.8

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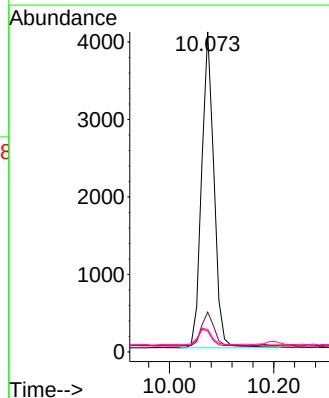
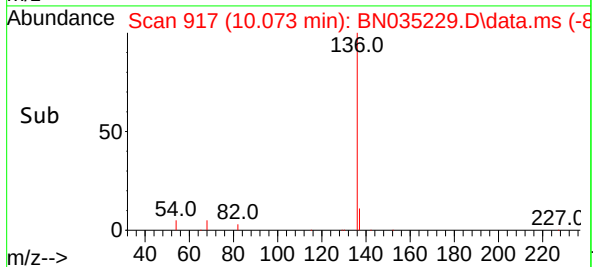
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024

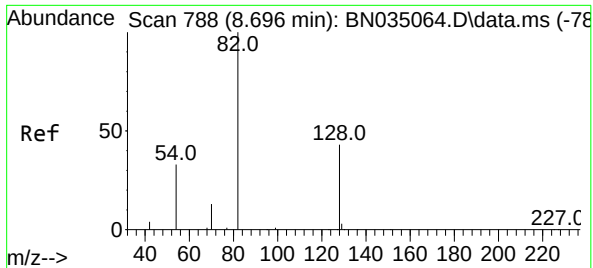


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.073 min Scan# 917
Delta R.T. 0.000 min
Lab File: BN035229.D
Acq: 21 Nov 2024 19:24



Tgt Ion:136 Resp: 6688
Ion Ratio Lower Upper
136 100
137 12.5 9.8 14.8
54 6.6 4.0 6.0#
68 7.0 4.2 6.2#





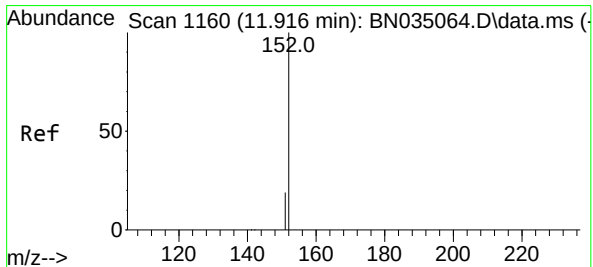
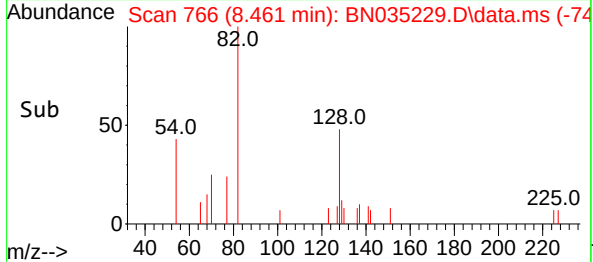
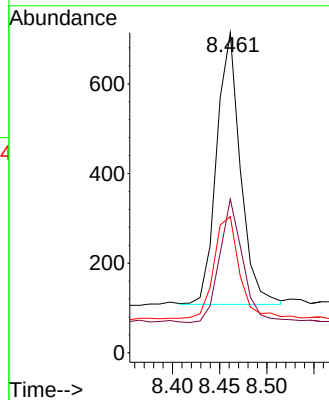
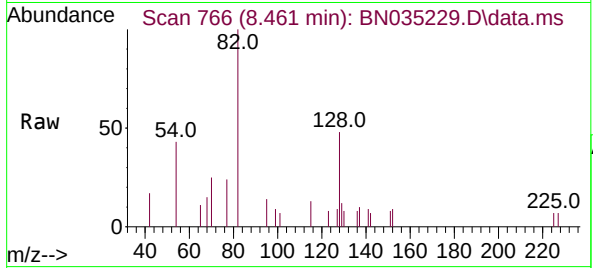
#8
Nitrobenzene-d5
Concen: 0.182 ng m
RT: 8.461 min Scan# 70
Delta R.T. 0.000 min
Lab File: BN035229.D
Acq: 21 Nov 2024 19:24

Instrument :
BNA_N
ClientSampleId :
DUP01-20241118

Tgt Ion: 82 Resp: 1062
Ion Ratio Lower Upper
82 100
128 48.0 36.5 54.7
54 42.6 28.7 43.1

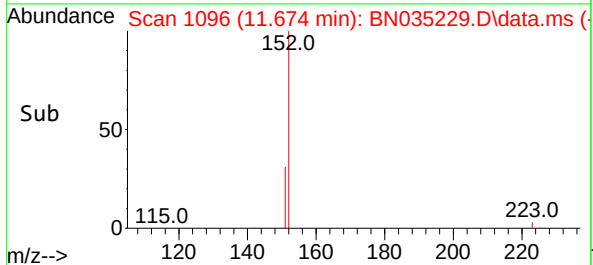
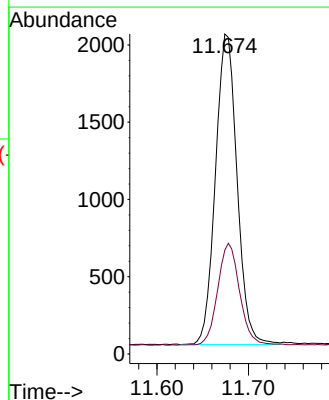
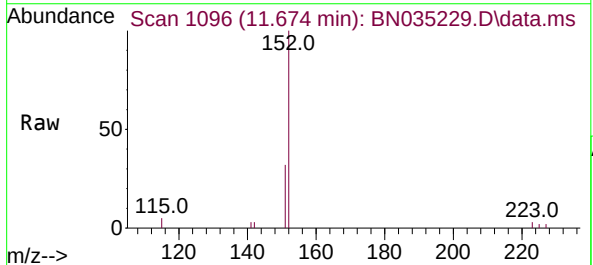
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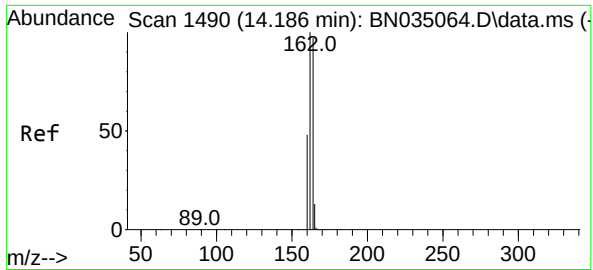
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#11
2-Methylnaphthalene-d10
Concen: 0.277 ng
RT: 11.674 min Scan# 1096
Delta R.T. -0.004 min
Lab File: BN035229.D
Acq: 21 Nov 2024 19:24

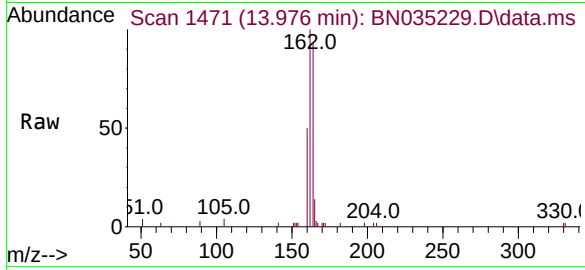
Tgt Ion:152 Resp: 3299
Ion Ratio Lower Upper
152 100
151 33.4 16.2 24.4#





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.976 min Scan# 1490
Delta R.T. -0.011 min
Lab File: BN035229.D
Acq: 21 Nov 2024 19:24

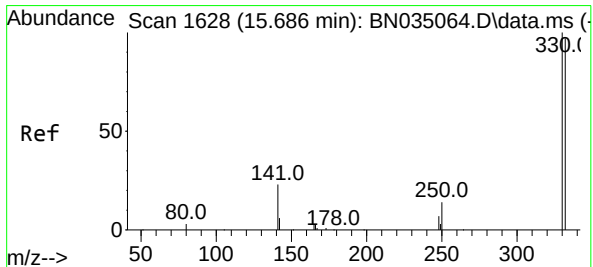
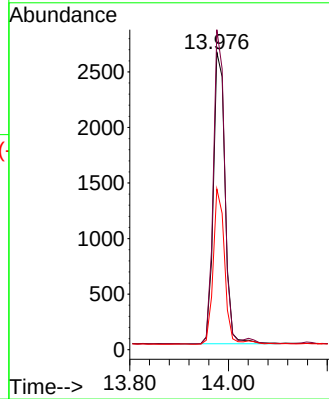
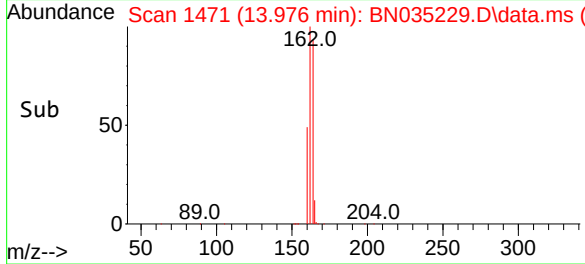
Instrument :
BNA_N
ClientSampleId :
DUP01-20241118



Tgt Ion:164 Resp: 4330
Ion Ratio Lower Upper
164 100
162 107.6 82.2 123.2
160 54.1 40.2 60.4

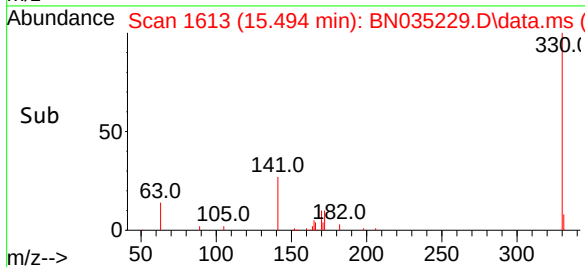
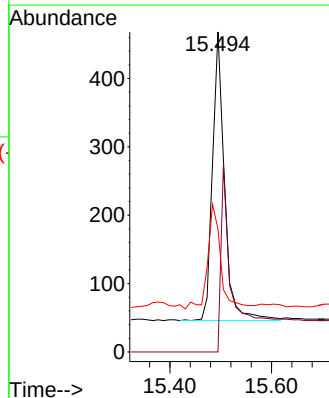
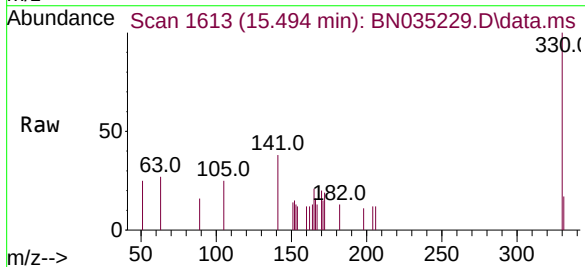
Manual Integrations
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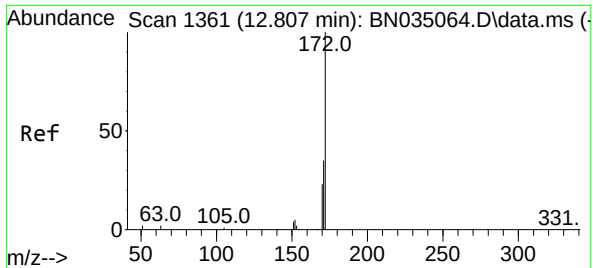
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#14
2,4,6-Tribromophenol
Concen: 0.234 ng
RT: 15.494 min Scan# 1613
Delta R.T. 0.000 min
Lab File: BN035229.D
Acq: 21 Nov 2024 19:24

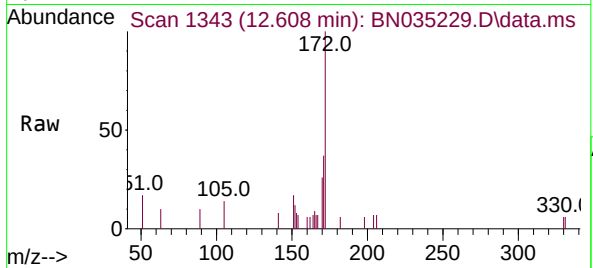
Tgt Ion:330 Resp: 730
Ion Ratio Lower Upper
330 100
332 0.0 76.9 115.3#
141 38.4 29.6 44.4





#15
2-Fluorobiphenyl
Concen: 0.061 ng
RT: 12.608 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN035229.D
Acq: 21 Nov 2024 19:24

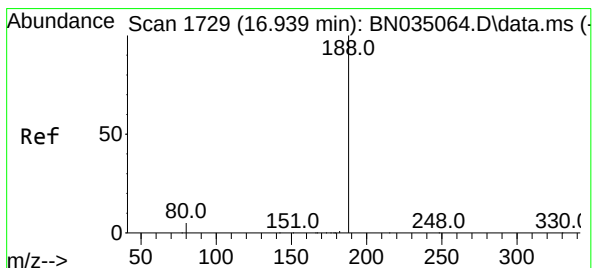
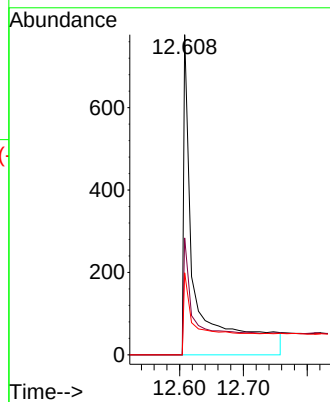
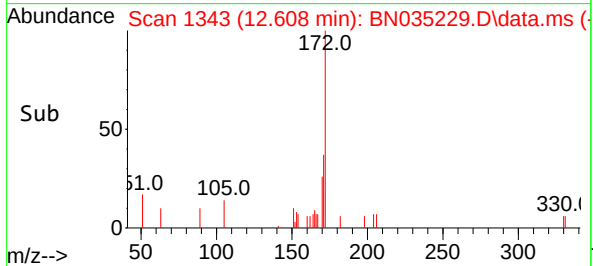
Instrument :
BNA_N
ClientSampleId :
DUP01-20241118



Tgt Ion:172 Resp: 1072
Ion Ratio Lower Upper
172 100
171 36.6 28.2 42.4
170 25.6 19.0 28.6

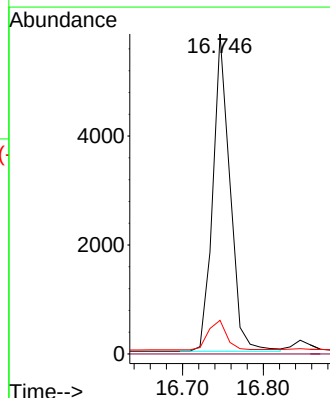
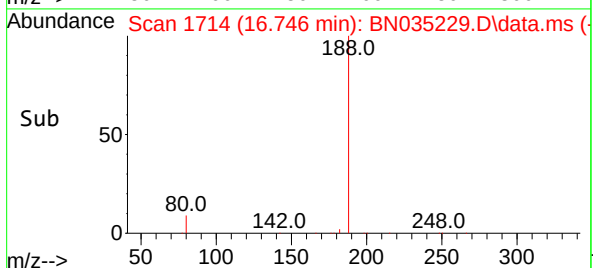
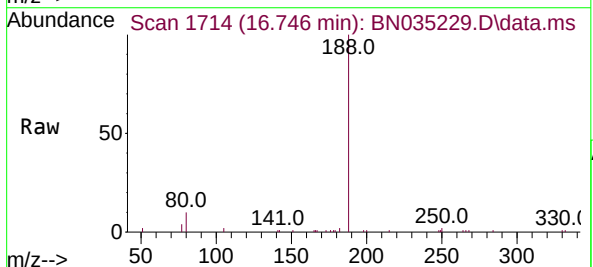
Manual Integrations
APPROVED

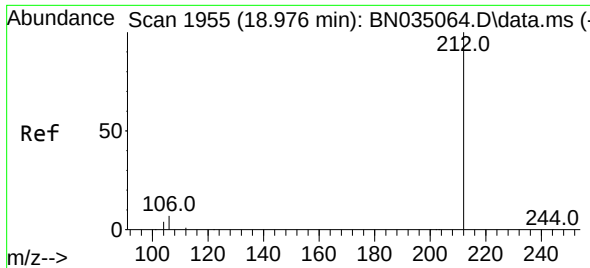
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.746 min Scan# 1714
Delta R.T. 0.000 min
Lab File: BN035229.D
Acq: 21 Nov 2024 19:24

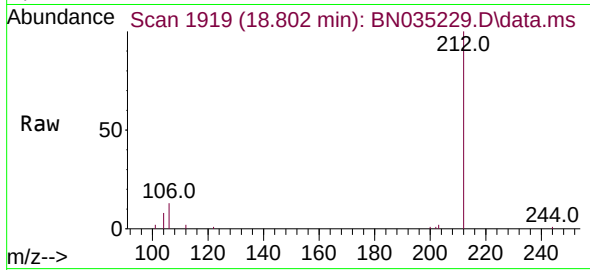
Tgt Ion:188 Resp: 8619
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 10.5 4.3 6.5





#27
Fluoranthene-d10
Concen: 0.334 ng
RT: 18.802 min Scan# 1919
Delta R.T. -0.005 min
Lab File: BN035229.D
Acq: 21 Nov 2024 19:24

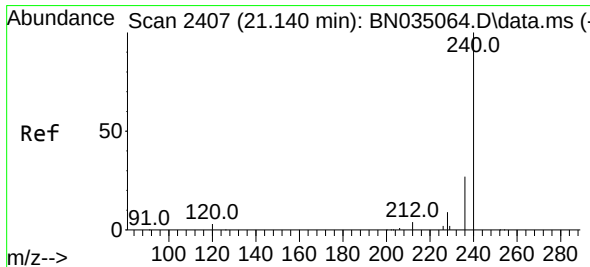
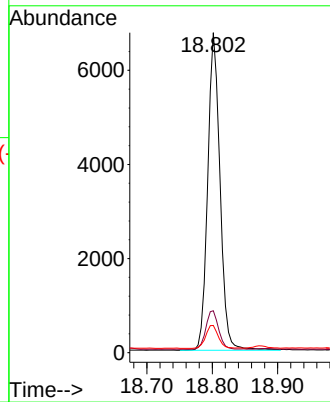
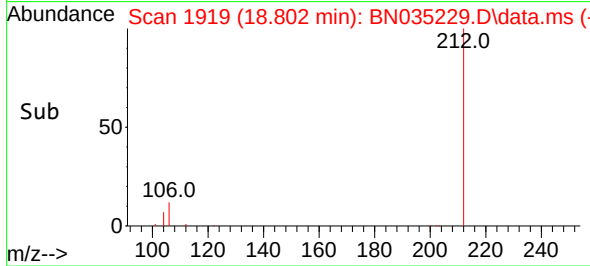
Instrument :
BNA_N
ClientSampleId :
DUP01-20241118



Tgt Ion:212 Resp: 8814
Ion Ratio Lower Upper
212 100
106 12.6 6.0 9.0#
104 7.3 3.5 5.3#

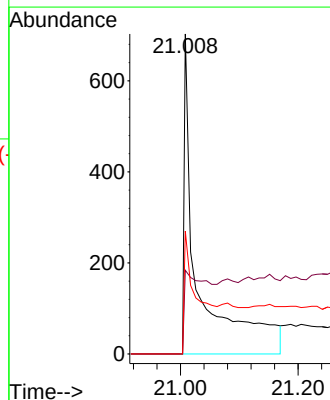
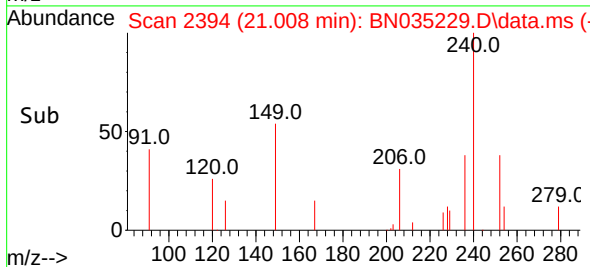
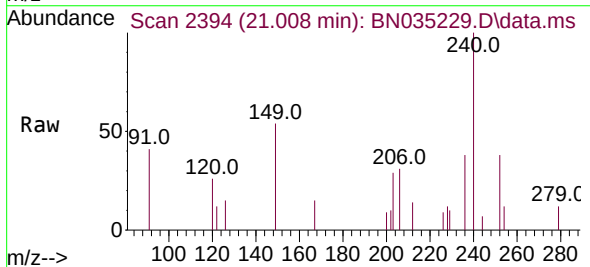
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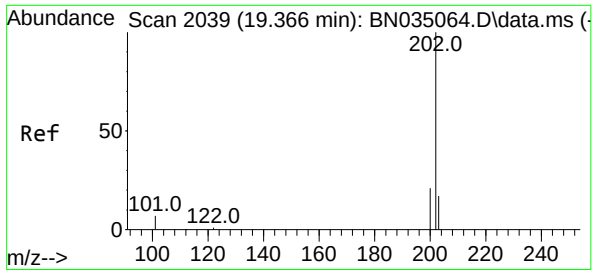
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.008 min Scan# 2394
Delta R.T. 0.000 min
Lab File: BN035229.D
Acq: 21 Nov 2024 19:24

Tgt Ion:240 Resp: 1170
Ion Ratio Lower Upper
240 100
120 26.2 3.8 5.6#
236 38.4 22.2 33.2#





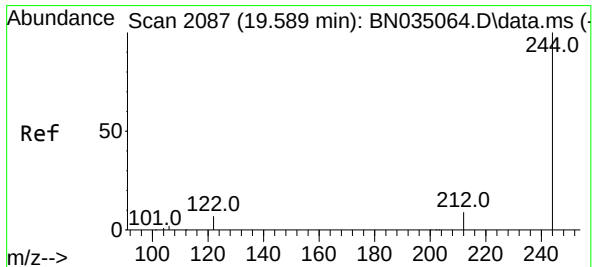
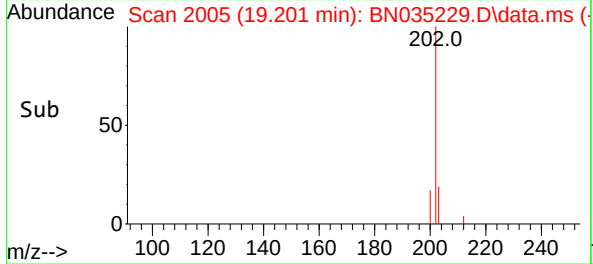
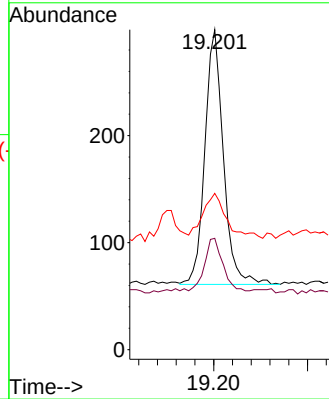
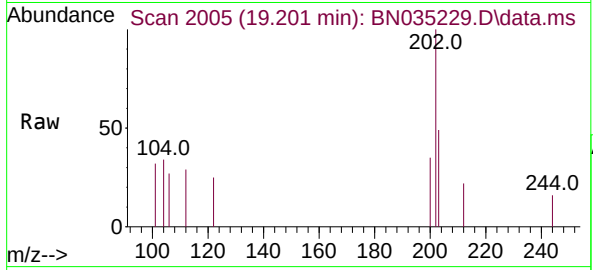
#30
Pyrene
Concen: 0.084 ng
RT: 19.201 min Scan# 2005
Delta R.T. -0.005 min
Lab File: BN035229.D
Acq: 21 Nov 2024 19:24

Instrument :
BNA_N
ClientSampleId :
DUP01-20241118

Tgt Ion:202 Resp: 320
Ion Ratio Lower Upper
202 100
200 20.9 16.7 25.1
203 22.1 14.2 21.4

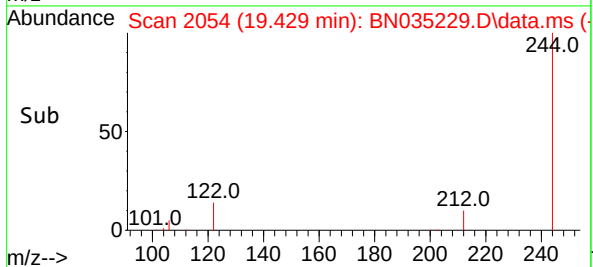
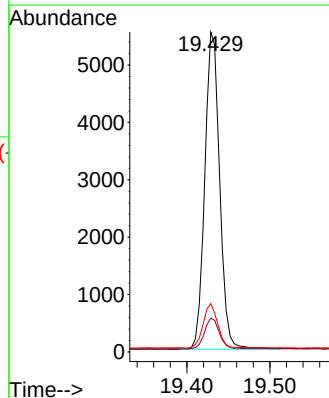
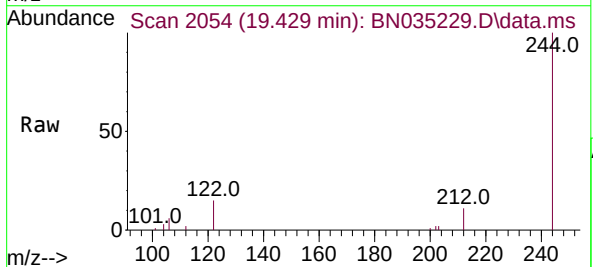
Manual Integrations
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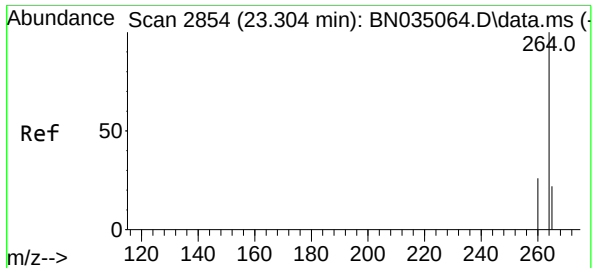
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#31
Terphenyl-d14
Concen: 2.808 ng
RT: 19.429 min Scan# 2054
Delta R.T. -0.009 min
Lab File: BN035229.D
Acq: 21 Nov 2024 19:24

Tgt Ion:244 Resp: 6893
Ion Ratio Lower Upper
244 100
212 10.5 7.6 11.4
122 15.1 6.1 9.1





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.095 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035229.D

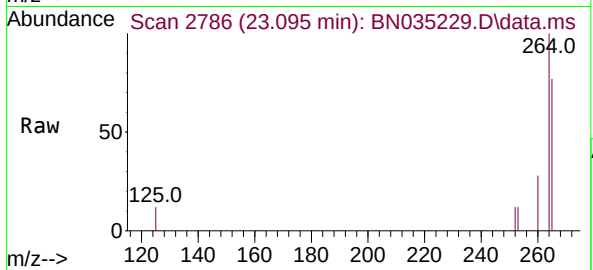
Acq: 21 Nov 2024 19:24

Instrument :

BNA_N

ClientSampleId :

DUP01-20241118



Tgt Ion:264 Resp: 5974

Ion Ratio Lower Upper

264 100

260 27.9 20.9 31.3

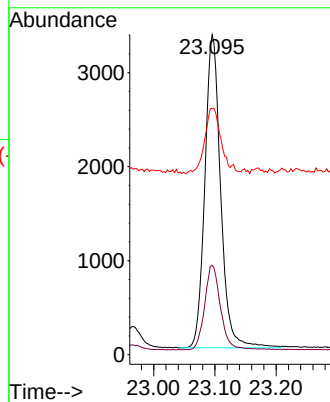
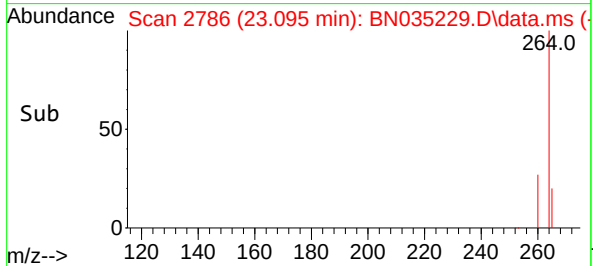
265 77.0 35.4 53.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/22/2024

Supervised By :mohammad ahmed 11/22/2024



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	11/19/24
Project:	CTO WE13	Date Received:	11/20/24
Client Sample ID:	BPOW6-10-20241119	SDG No.:	P4934
Lab Sample ID:	P4934-05	Matrix:	Water
Analytical Method:	SW8270SIM	% 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 :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035287.D	1	11/21/24 08:27	11/25/24 16:56	PB165150

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	UM	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.41		30 - 150		101%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.41		30 - 150		101%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.19	*	55 - 111		48%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.27		53 - 106		68%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.76	*	58 - 132		189%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3380	7.315				
1146-65-2	Naphthalene-d8	8190	10.063				
15067-26-2	Acenaphthene-d10	4840	13.966				
1517-22-2	Phenanthrene-d10	10300	16.734				
1719-03-5	Chrysene-d12	824	21.008				
1520-96-3	Perylene-d12	5050	23.081				

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\BN112524\
 Data File : BN035287.D
 Acq On : 25 Nov 2024 16:56
 Operator : RC/JU
 Sample : P4934-05
 Misc :
 ALS Vial : 63 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 BPOW6-10-20241119

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/27/2024
 Supervised By :mohammad ahmed 11/27/2024

Quant Time: Nov 25 18:06:08 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Nov 25 14:32:52 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.315	152	3377	0.400	ng	0.00
7) Naphthalene-d8	10.063	136	8188	0.400	ng	0.00
13) Acenaphthene-d10	13.966	164	4836	0.400	ng	-0.01
19) Phenanthrene-d10	16.734	188	10344	0.400	ng	0.00
29) Chrysene-d12	21.008	240	824	0.400	ng	# 0.00
35) Perylene-d12	23.081	264	5052	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.968	112	1455	0.228	ng	0.00
5) Phenol-d6	6.520	99	1180	0.132	ng	0.00
8) Nitrobenzene-d5	8.450	82	1271m	0.191	ng	0.00
11) 2-Methylnaphthalene-d10	11.663	152	4637	0.405	ng	0.00
14) 2,4,6-Tribromophenol	15.484	330	579	0.235	ng	0.00
15) 2-Fluorobiphenyl	12.608	172	724	0.271	ng	0.00
27) Fluoranthene-d10	18.792	212	11214	0.405	ng	0.00
31) Terphenyl-d14	19.419	244	11493	0.755	ng	0.00

Target Compounds Qvalue

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

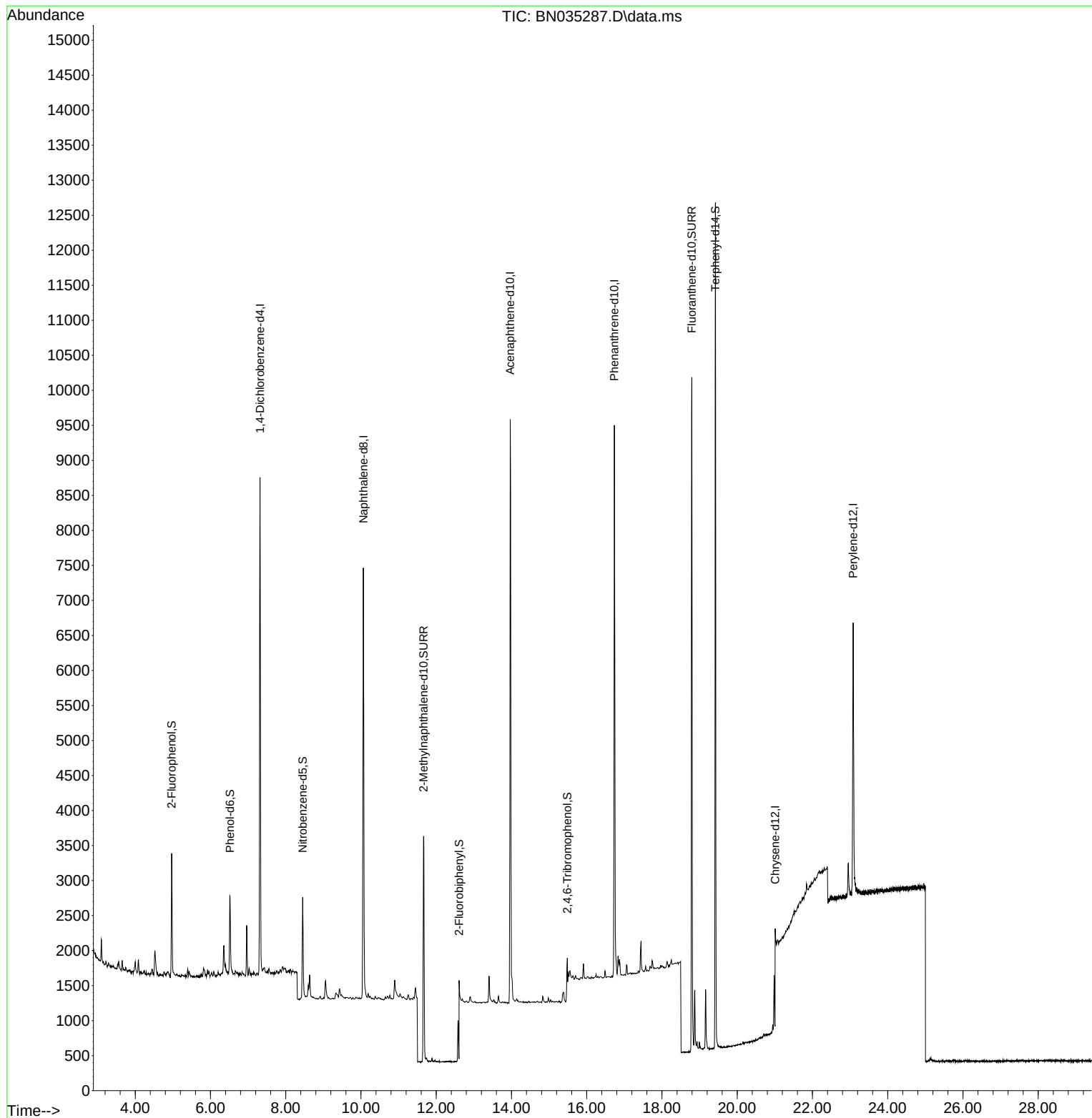
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Data File : BN035287.D
Acq On : 25 Nov 2024 16:56
Operator : RC/JU
Sample : P4934-05
Misc :
ALS Vial : 63 Sample Multiplier: 1

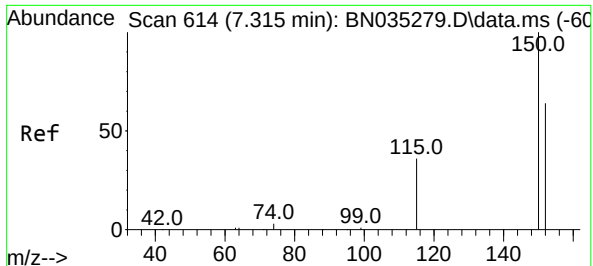
Instrument :
BNA_N
ClientSampleId :
BPOW6-10-20241119

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024

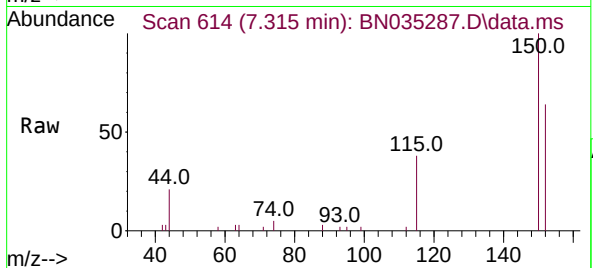
Quant Time: Nov 25 18:06:08 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 25 14:32:52 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.315 min Scan# 614
Delta R.T. -0.000 min
Lab File: BN035287.D
Acq: 25 Nov 2024 16:56

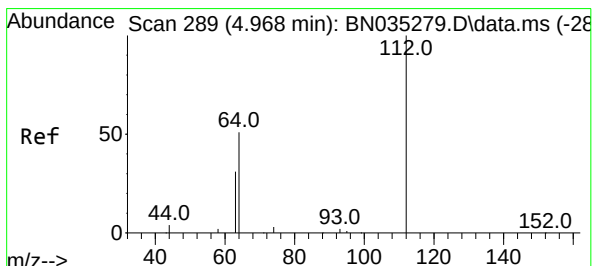
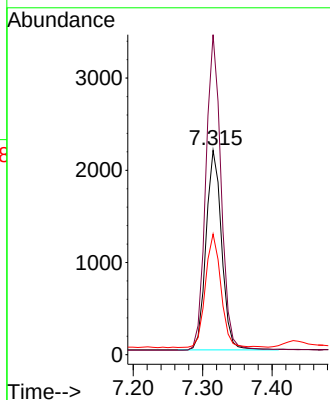
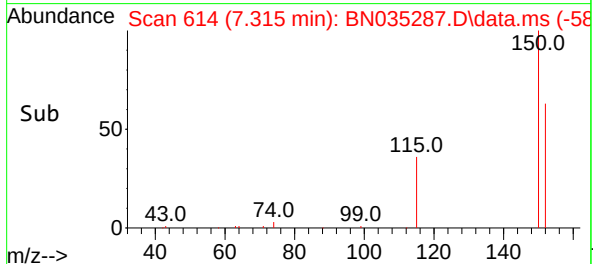
Instrument :
BNA_N
ClientSampleId :
BPOW6-10-20241119



Tgt Ion:152 Resp: 337
Ion Ratio Lower Upper
152 100
150 156.6 124.5 186.7
115 59.0 47.8 71.8

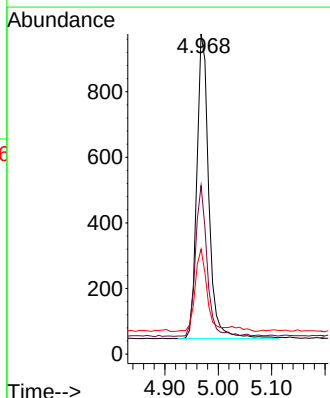
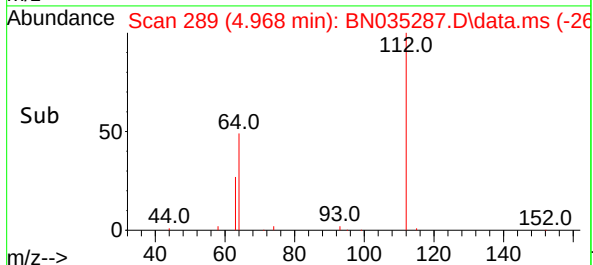
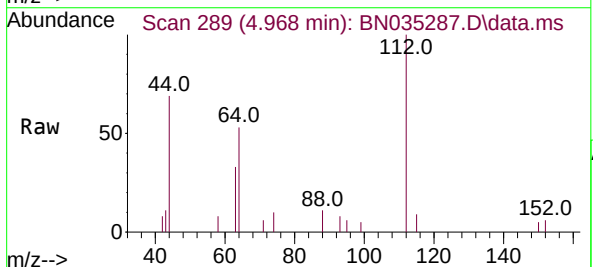
Manual Integrations
APPROVED

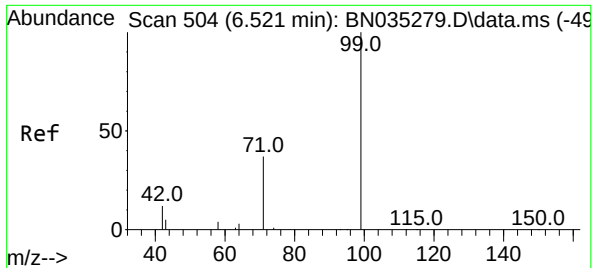
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#4
2-Fluorophenol
Concen: 0.228 ng
RT: 4.968 min Scan# 289
Delta R.T. -0.000 min
Lab File: BN035287.D
Acq: 25 Nov 2024 16:56

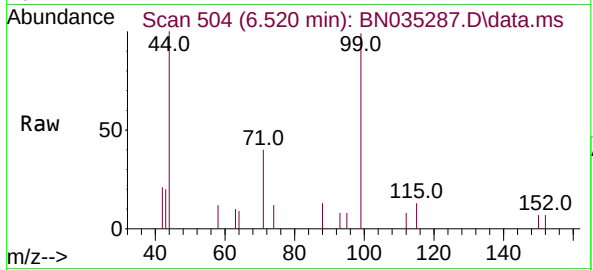
Tgt Ion:112 Resp: 1455
Ion Ratio Lower Upper
112 100
64 48.0 40.4 60.6
63 26.4 23.8 35.8





#5
Phenol-d6
Concen: 0.132 ng
RT: 6.520 min Scan# 504
Delta R.T. -0.000 min
Lab File: BN035287.D
Acq: 25 Nov 2024 16:56

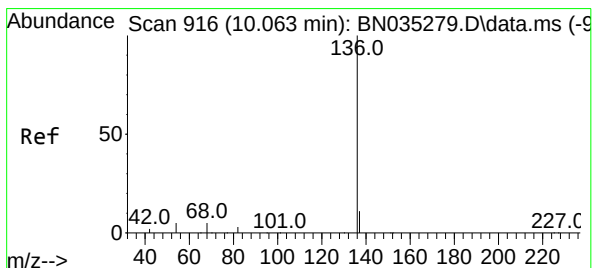
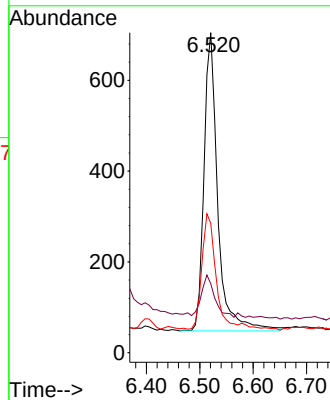
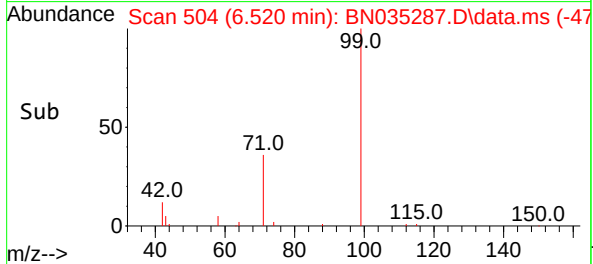
Instrument :
BNA_N
ClientSampleId :
BPOW6-10-20241119



Tgt Ion: 99 Resp: 1180
Ion Ratio Lower Upper
99 100
42 13.6 12.8 19.2
71 41.9 31.4 47.2

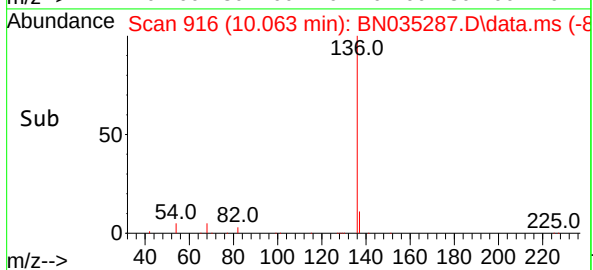
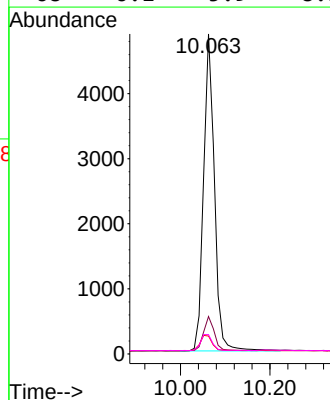
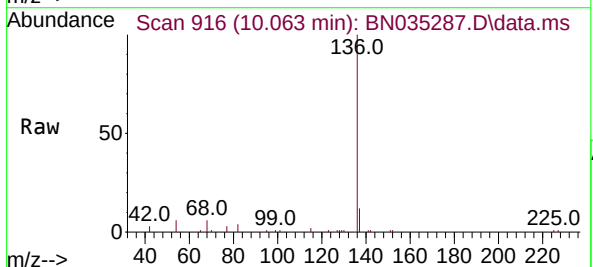
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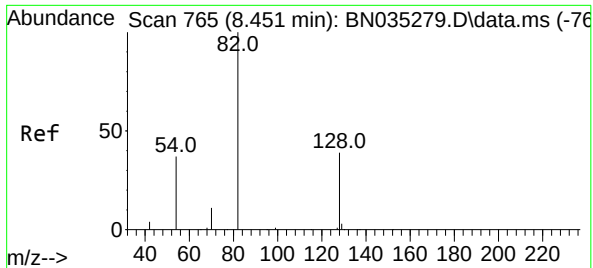
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.063 min Scan# 916
Delta R.T. -0.000 min
Lab File: BN035287.D
Acq: 25 Nov 2024 16:56

Tgt Ion:136 Resp: 8188
Ion Ratio Lower Upper
136 100
137 11.7 9.7 14.5
54 5.6 5.3 7.9
68 6.1 5.9 8.9





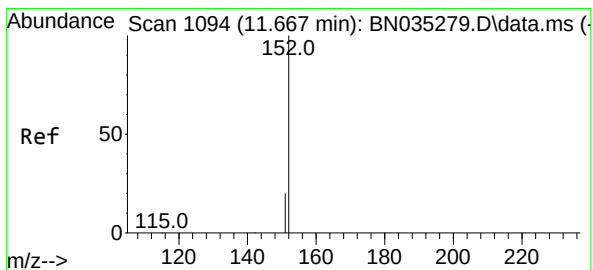
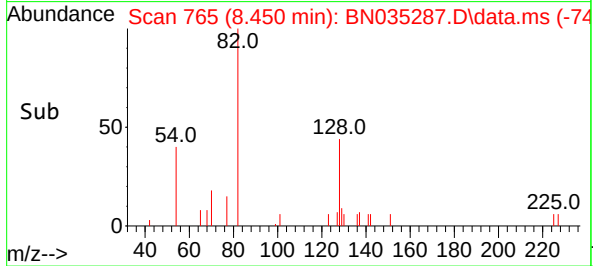
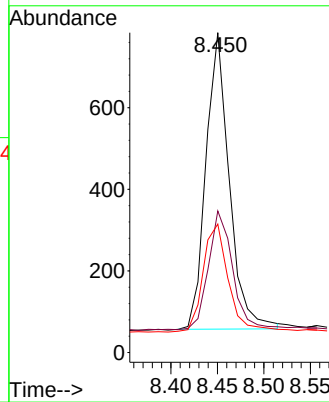
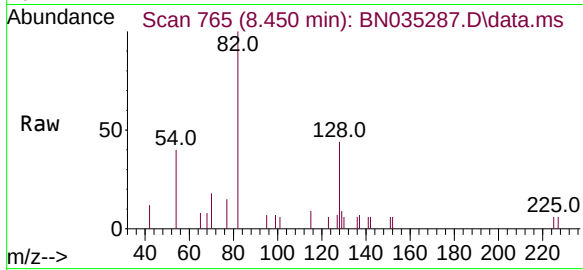
#8
Nitrobenzene-d5
Concen: 0.191 ng m
RT: 8.450 min Scan# 765
Delta R.T. -0.000 min
Lab File: BN035287.D
Acq: 25 Nov 2024 16:56

Instrument :
BNA_N
ClientSampleId :
BPOW6-10-20241119

Tgt Ion: 82 Resp: 127
Ion Ratio Lower Upper
82 100
128 44.3 33.0 49.4
54 40.2 33.3 49.9

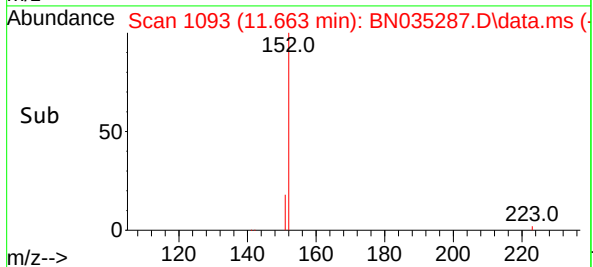
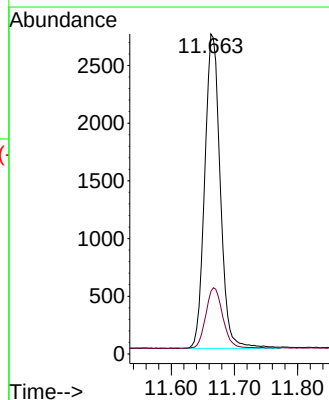
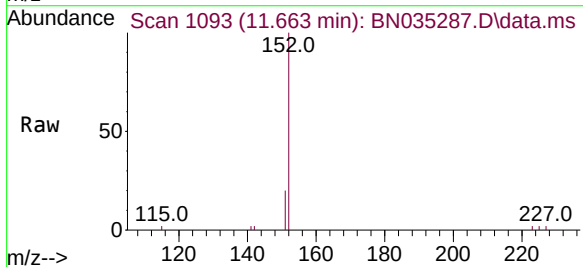
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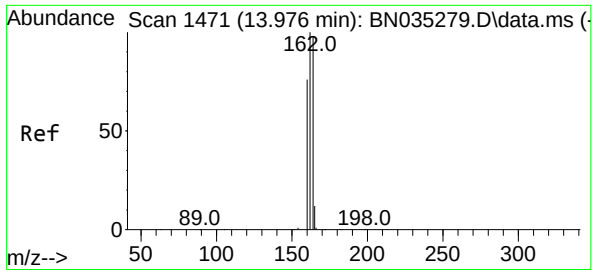
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#11
2-Methylnaphthalene-d10
Concen: 0.405 ng
RT: 11.663 min Scan# 1093
Delta R.T. -0.004 min
Lab File: BN035287.D
Acq: 25 Nov 2024 16:56

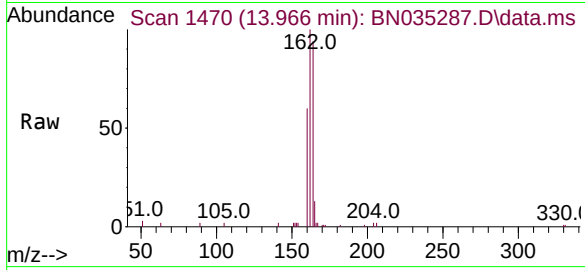
Tgt Ion:152 Resp: 4637
Ion Ratio Lower Upper
152 100
151 21.1 17.2 25.8





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.966 min Scan# 1471
Delta R.T. -0.011 min
Lab File: BN035287.D
Acq: 25 Nov 2024 16:56

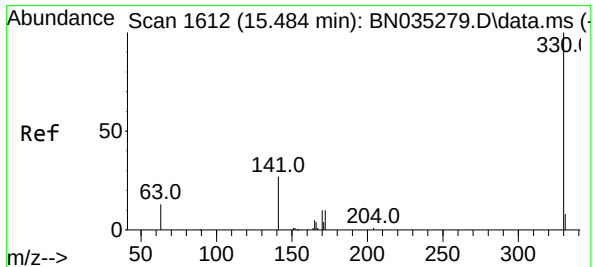
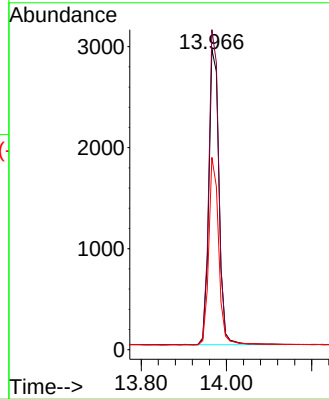
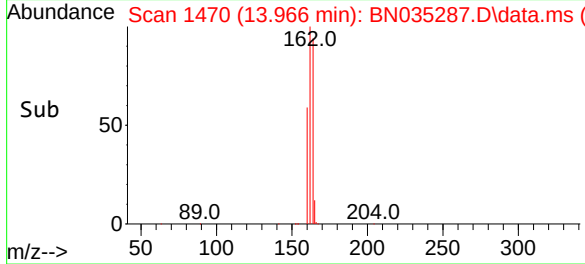
Instrument :
BNA_N
ClientSampleId :
BPOW6-10-20241119



Tgt Ion:164 Resp: 4830
Ion Ratio Lower Upper
164 100
162 106.5 82.0 123.0
160 64.0 63.0 94.4

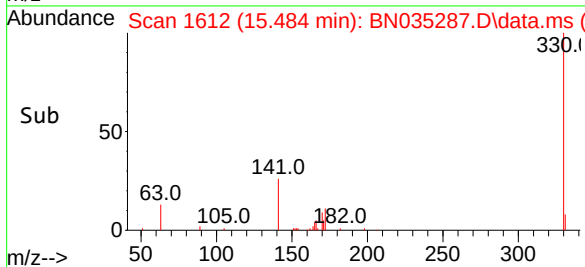
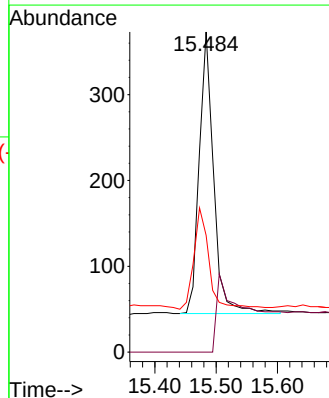
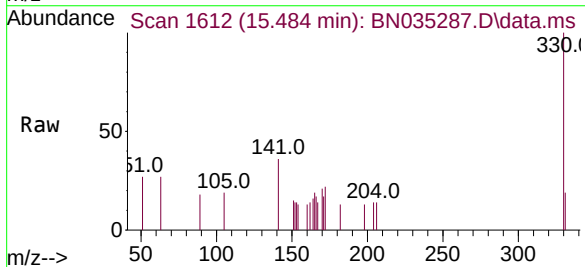
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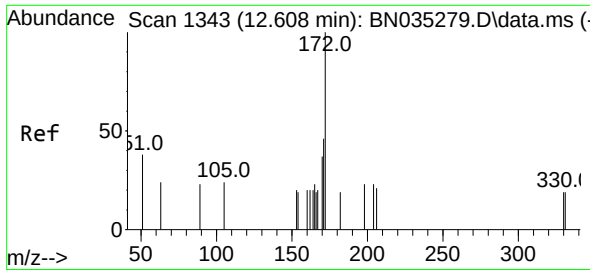
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#14
2,4,6-Tribromophenol
Concen: 0.235 ng
RT: 15.484 min Scan# 1612
Delta R.T. -0.000 min
Lab File: BN035287.D
Acq: 25 Nov 2024 16:56

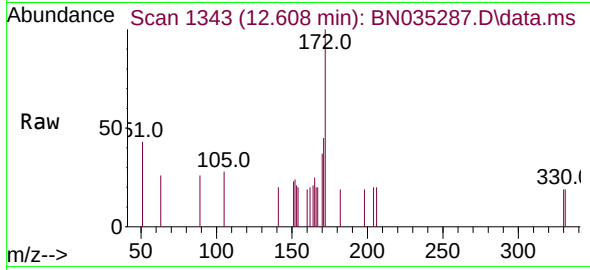
Tgt Ion:330 Resp: 579
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 37.7 32.4 48.6





#15
2-Fluorobiphenyl
Concen: 0.271 ng
RT: 12.608 min Scan# 1343
Delta R.T. -0.000 min
Lab File: BN035287.D
Acq: 25 Nov 2024 16:56

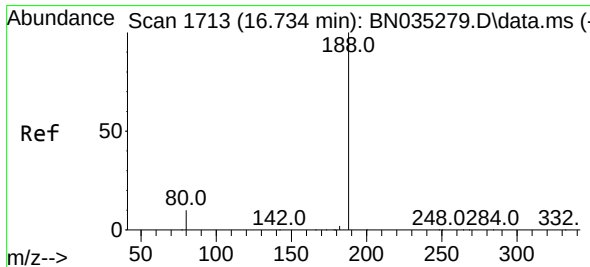
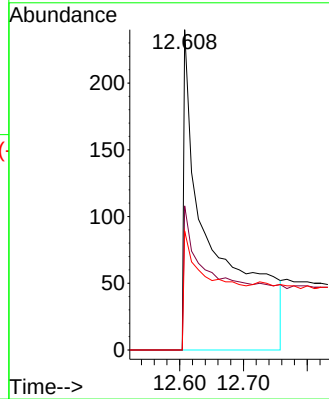
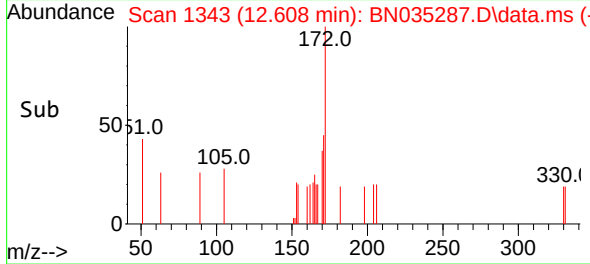
Instrument :
BNA_N
ClientSampleId :
BPOW6-10-20241119



Tgt Ion:172 Resp: 724
Ion Ratio Lower Upper
172 100
171 45.0 36.6 55.0
170 37.1 29.7 44.5

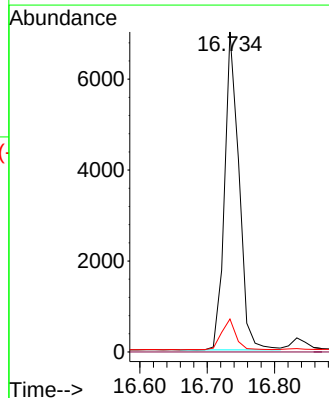
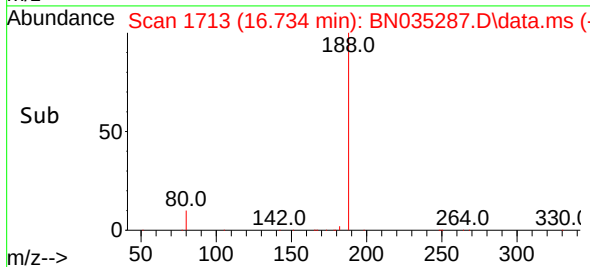
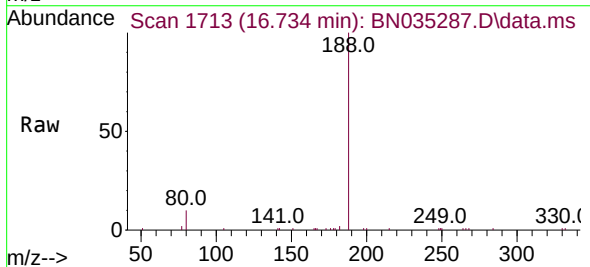
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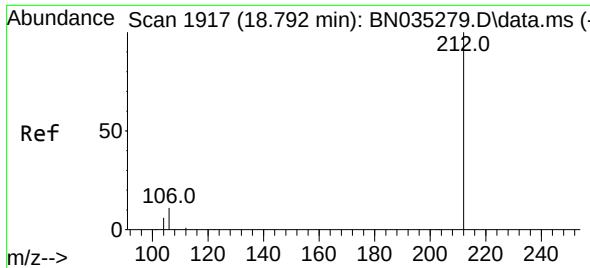
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.734 min Scan# 1713
Delta R.T. -0.000 min
Lab File: BN035287.D
Acq: 25 Nov 2024 16:56

Tgt Ion:188 Resp: 10344
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 10.3 8.9 13.3





#27

Fluoranthene-d10

Concen: 0.405 ng

RT: 18.792 min Scan# 1917

Delta R.T. -0.000 min

Lab File: BN035287.D

Acq: 25 Nov 2024 16:56

Instrument :

BNA_N

ClientSampleId :

BPOW6-10-20241119

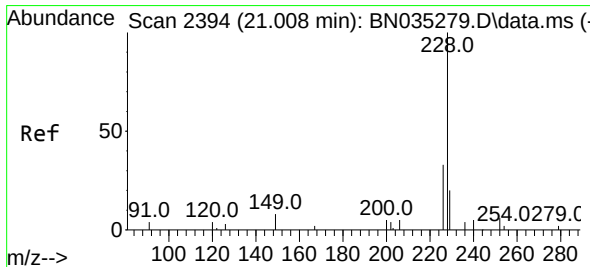
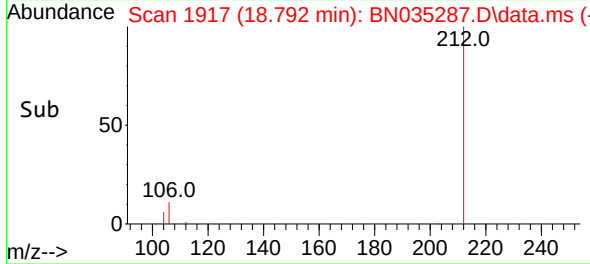
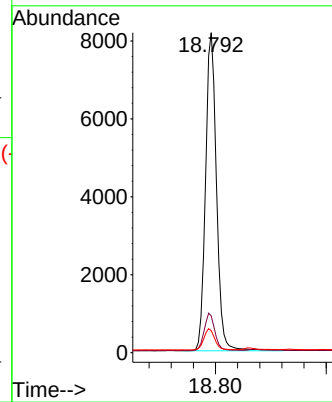
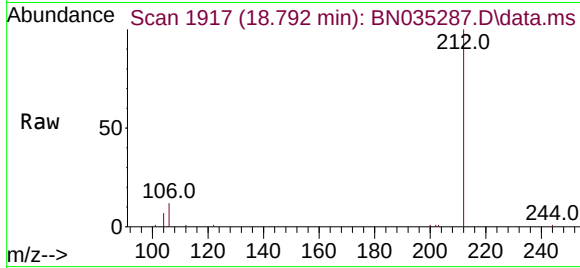
Tgt Ion	Ratio	Lower	Upper
212	100		
106	11.4	9.8	14.8
104	6.8	5.6	8.4

Manual Integrations

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Reviewed By :Yogesh Patel 11/27/2024

Supervised By :mohammad ahmed 11/27/2024



#29

Chrysene-d12

Concen: 0.400 ng

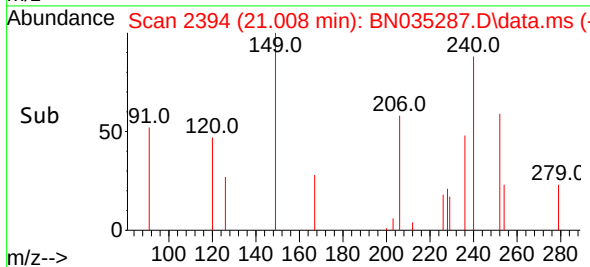
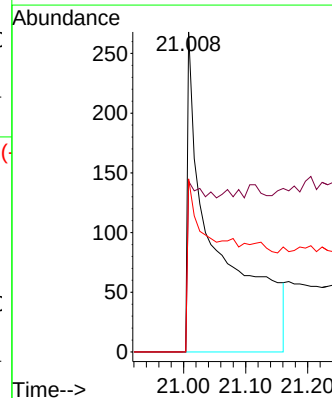
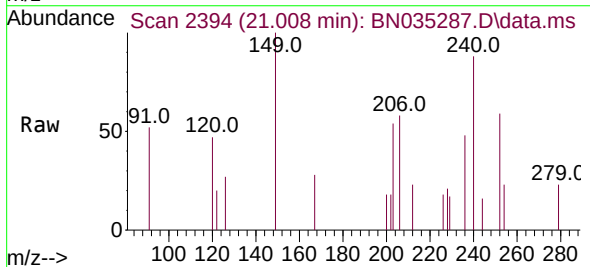
RT: 21.008 min Scan# 2394

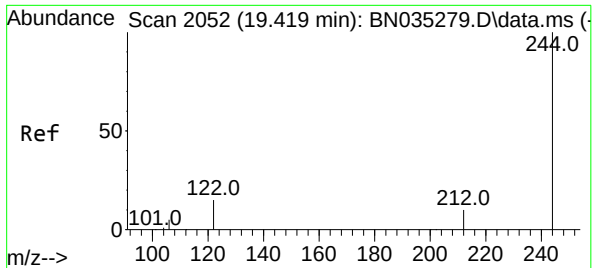
Delta R.T. -0.000 min

Lab File: BN035287.D

Acq: 25 Nov 2024 16:56

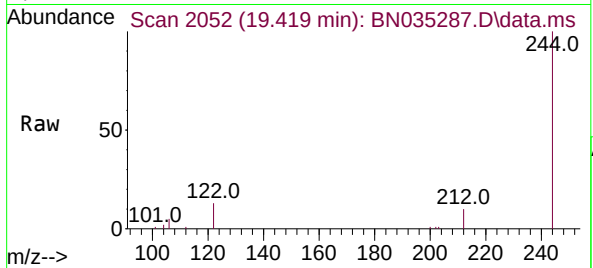
Tgt Ion	Ratio	Lower	Upper
240	100		
120	53.4	54.9	82.3#
236	54.1	54.0	81.0





#31
Terphenyl-d14
Concen: 0.755 ng
RT: 19.419 min Scan# 2052
Delta R.T. 0.000 min
Lab File: BN035287.D
Acq: 25 Nov 2024 16:56

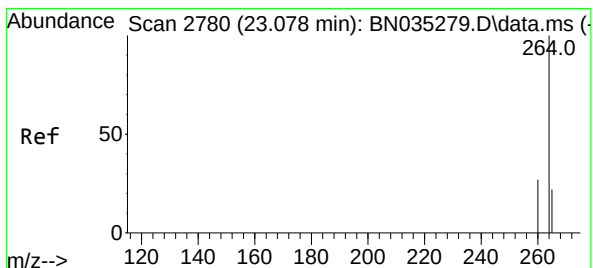
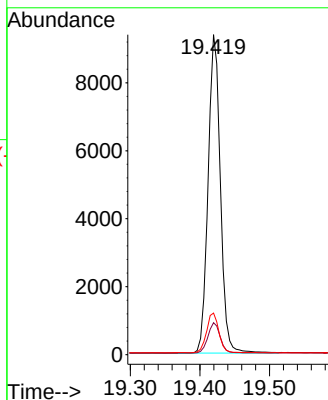
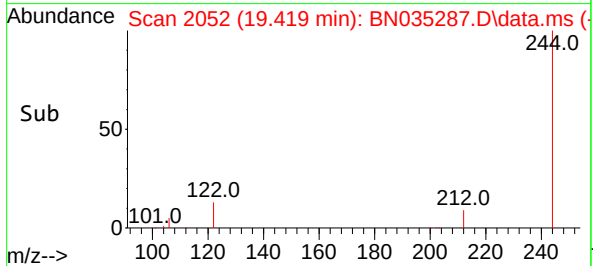
Instrument :
BNA_N
ClientSampleId :
BPOW6-10-20241119



Tgt Ion:244 Resp: 1149
Ion Ratio Lower Upper
244 100
212 10.0 9.4 14.0
122 13.0 13.0 19.4

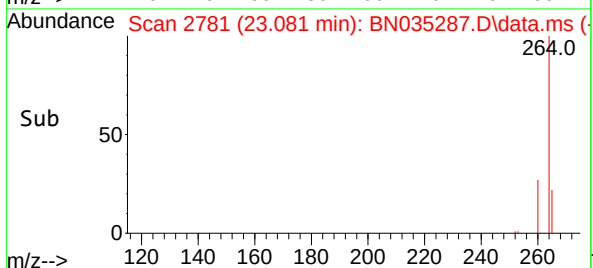
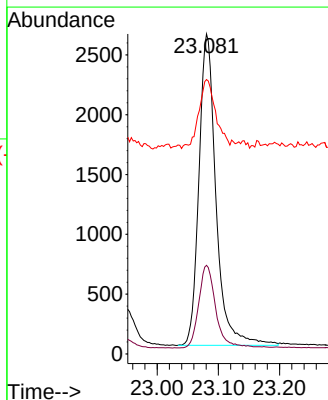
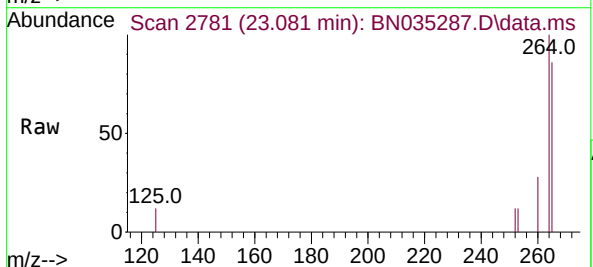
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.081 min Scan# 2781
Delta R.T. 0.003 min
Lab File: BN035287.D
Acq: 25 Nov 2024 16:56

Tgt Ion:264 Resp: 5052
Ion Ratio Lower Upper
264 100
260 27.7 22.3 33.5
265 85.8 68.6 103.0



Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	11/19/24
Project:	CTO WE13		Date Received:	11/20/24
Client Sample ID:	BPOW6-9-20241119		SDG No.:	P4934
Lab Sample ID:	P4934-08		Matrix:	Water
Analytical Method:	SW8270SIM		% 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 :	SW3510C			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035230.D	1	11/21/24 08:27	11/21/24 20:00	PB165150

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.29		30 - 150		72%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.33		30 - 150		83%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.19	*	55 - 111		47%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.072	*	53 - 106		18%	SPK: 0.4
1718-51-0	Terphenyl-d14	2.67	*	58 - 132		668%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2760		7.322			
1146-65-2	Naphthalene-d8	6460		10.073			
15067-26-2	Acenaphthene-d10	4130		13.976			
1517-22-2	Phenanthrene-d10	8430		16.746			
1719-03-5	Chrysene-d12	1400		21.008			
1520-96-3	Perylene-d12	6100		23.095			

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\BN112124\
Data File : BN035230.D
Acq On : 21 Nov 2024 20:00
Operator : RC/JU
Sample : P4934-08
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20241119

Quant Time: Nov 21 23:05:42 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 14:00:03 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.322	152	2756	0.400	ng	0.00
7) Naphthalene-d8	10.073	136	6458	0.400	ng	# 0.00
13) Acenaphthene-d10	13.976	164	4128	0.400	ng	-0.01
19) Phenanthrene-d10	16.746	188	8432	0.400	ng	# 0.00
29) Chrysene-d12	21.008	240	1400	0.400	ng	# 0.00
35) Perylene-d12	23.095	264	6097	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.975	112	1248	0.178	ng	0.00
5) Phenol-d6	6.528	99	968	0.110	ng	0.00
8) Nitrobenzene-d5	8.461	82	1048	0.186	ng	0.00
11) 2-Methylnaphthalene-d10	11.674	152	3291	0.286	ng	0.00
14) 2,4,6-Tribromophenol	15.494	330	704	0.236	ng	0.00
15) 2-Fluorobiphenyl	12.608	172	1204	0.072	ng	0.00
27) Fluoranthene-d10	18.806	212	8578	0.332	ng	0.00
31) Terphenyl-d14	19.433	244	7846	2.671	ng	0.00

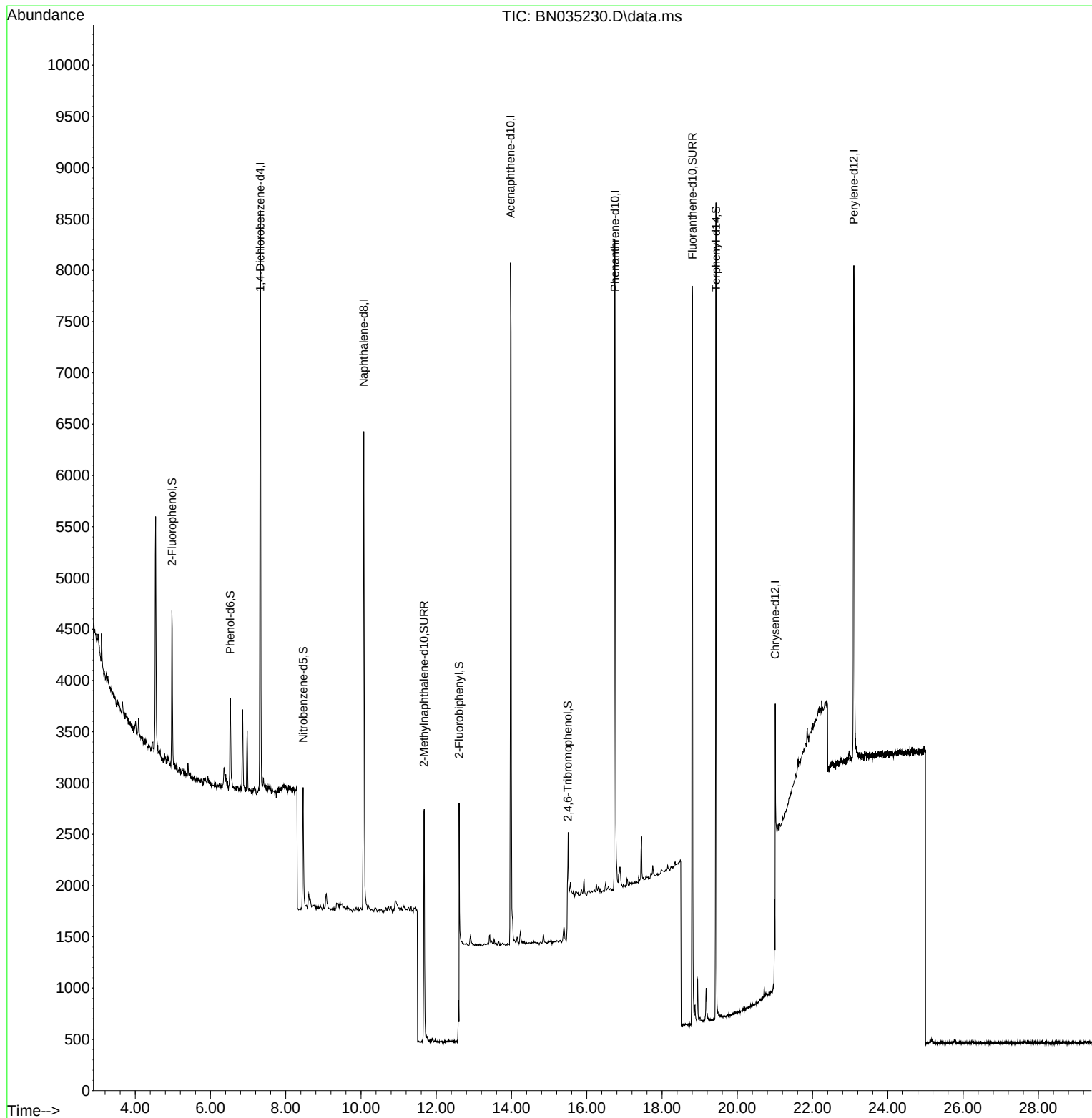
Target Compounds	Qvalue

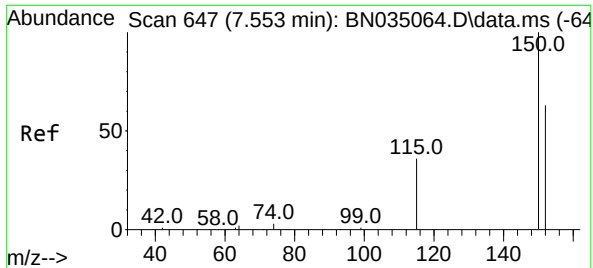
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112124\
Data File : BN035230.D
Acq On : 21 Nov 2024 20:00
Operator : RC/JU
Sample : P4934-08
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20241119

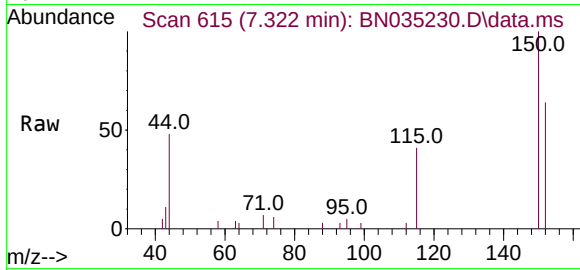
Quant Time: Nov 21 23:05:42 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 14:00:03 2024
Response via : Initial Calibration



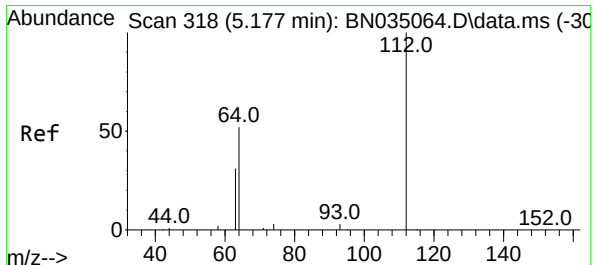
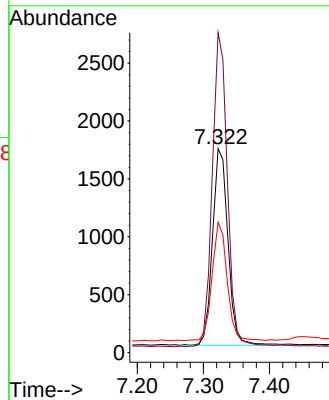
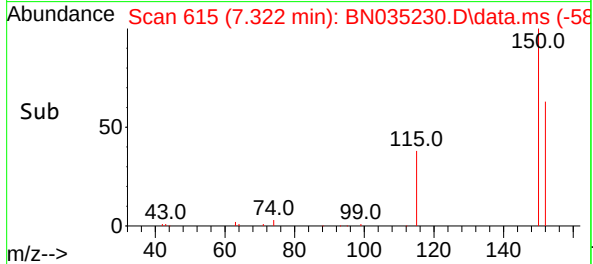


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.322 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN035230.D
Acq: 21 Nov 2024 20:00

Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20241119

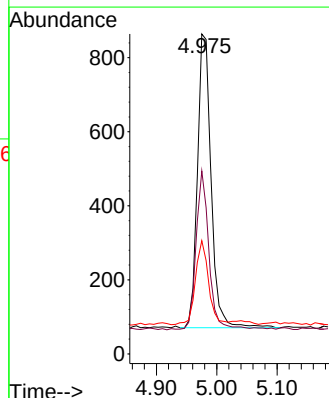
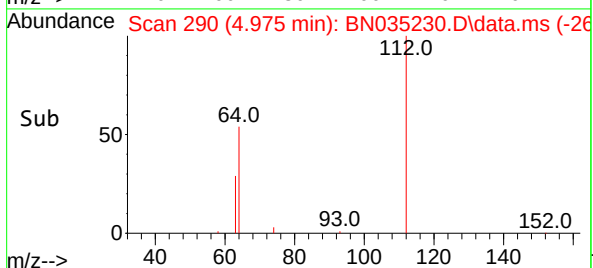
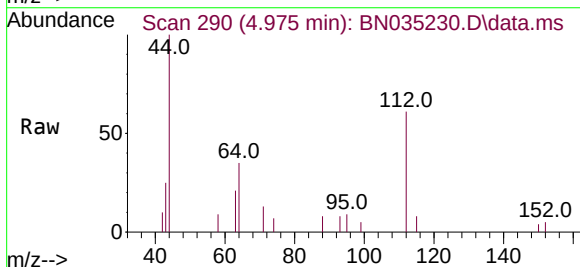


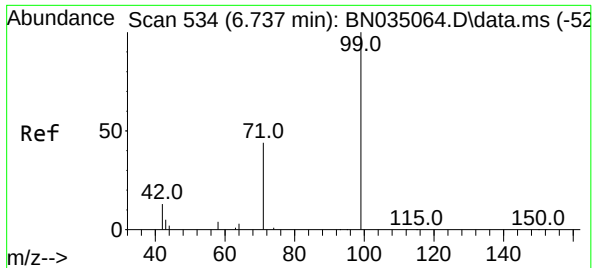
Tgt Ion:152 Resp: 2756
Ion Ratio Lower Upper
152 100
150 156.8 124.5 186.7
115 63.9 47.8 71.6



#4
2-Fluorophenol
Concen: 0.178 ng
RT: 4.975 min Scan# 290
Delta R.T. -0.007 min
Lab File: BN035230.D
Acq: 21 Nov 2024 20:00

Tgt Ion:112 Resp: 1248
Ion Ratio Lower Upper
112 100
64 51.1 39.7 59.5
63 27.4 23.0 34.4

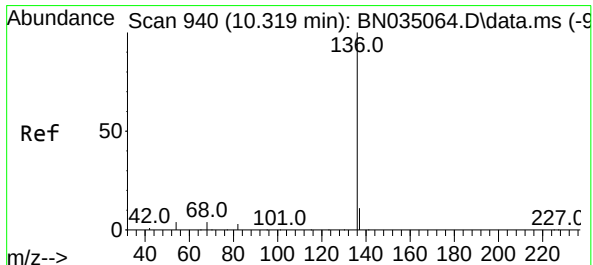
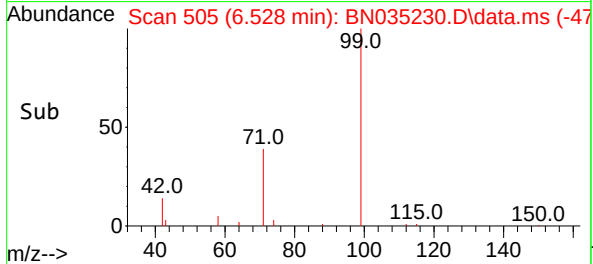
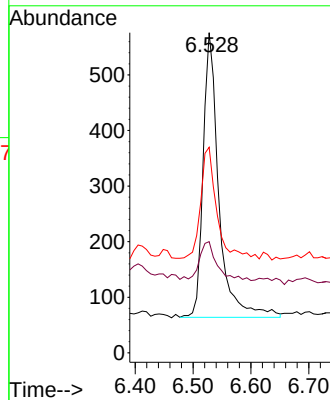
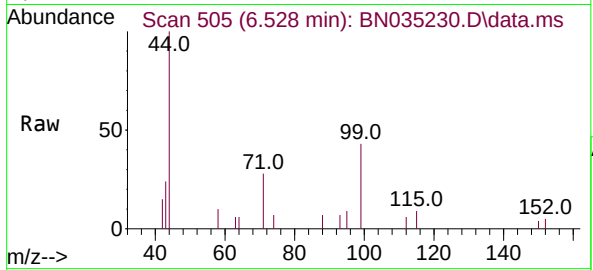




#5
Phenol-d6
Concen: 0.110 ng
RT: 6.528 min Scan# 505
Delta R.T. -0.000 min
Lab File: BN035230.D
Acq: 21 Nov 2024 20:00

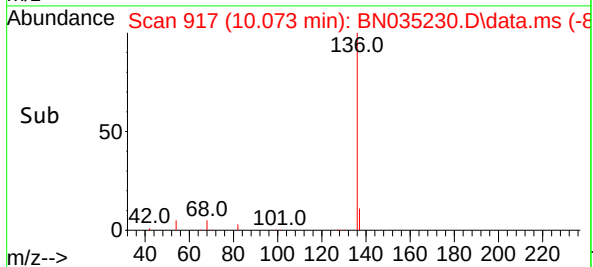
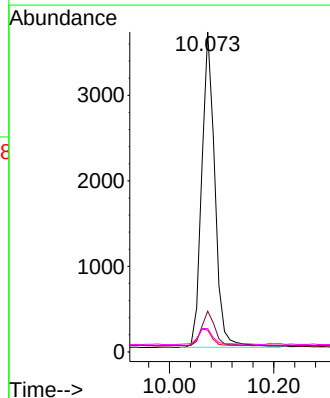
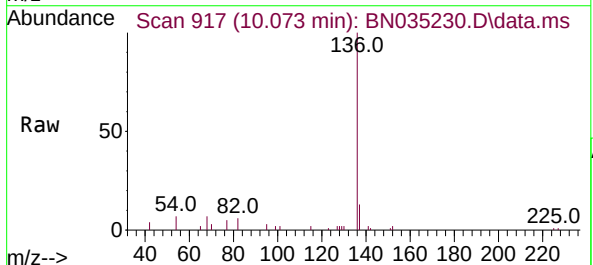
Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20241119

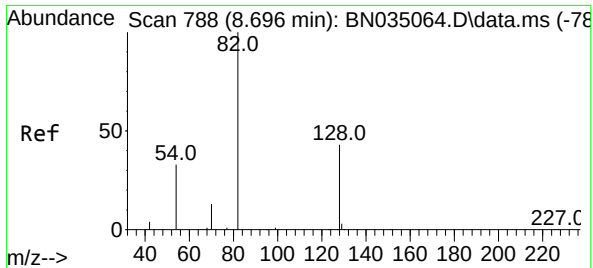
Tgt Ion: 99 Resp: 968
Ion Ratio Lower Upper
99 100
42 16.4 11.4 17.0
71 40.1 34.6 51.8



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.073 min Scan# 917
Delta R.T. -0.000 min
Lab File: BN035230.D
Acq: 21 Nov 2024 20:00

Tgt Ion: 136 Resp: 6458
Ion Ratio Lower Upper
136 100
137 12.8 9.8 14.8
54 6.8 4.0 6.0#
68 7.3 4.2 6.2#

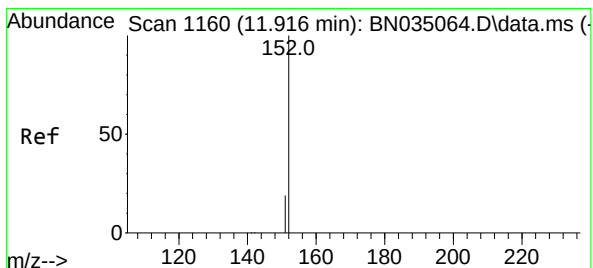
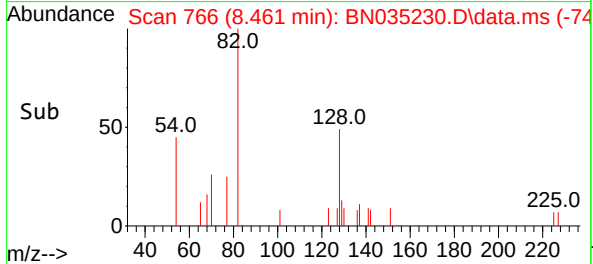
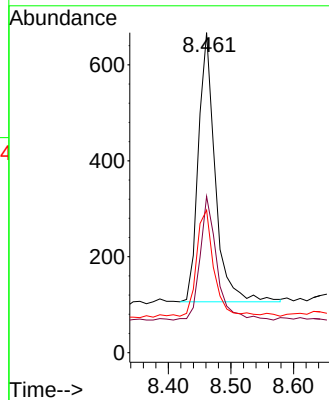
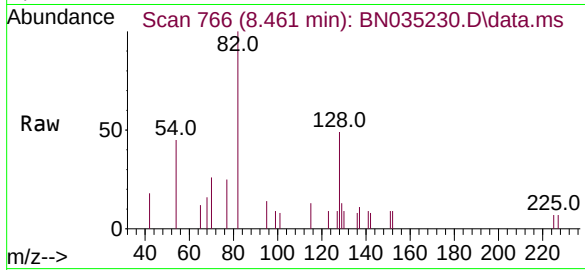




#8
Nitrobenzene-d5
Concen: 0.186 ng
RT: 8.461 min Scan# 70
Delta R.T. -0.000 min
Lab File: BN035230.D
Acq: 21 Nov 2024 20:00

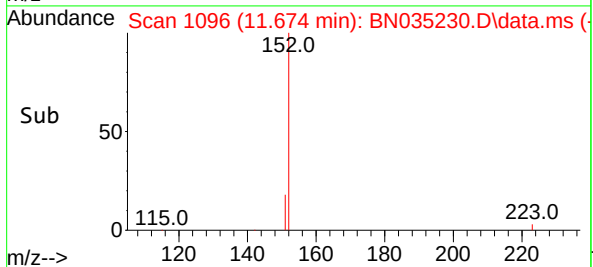
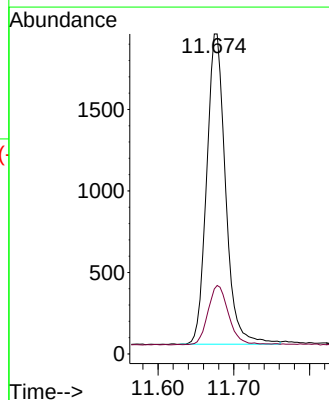
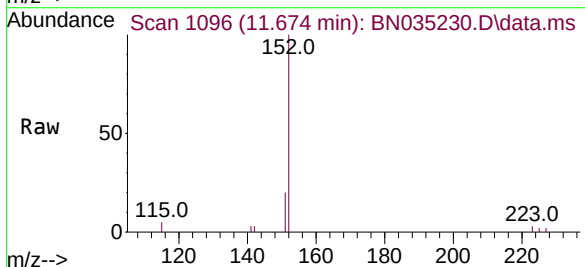
Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20241119

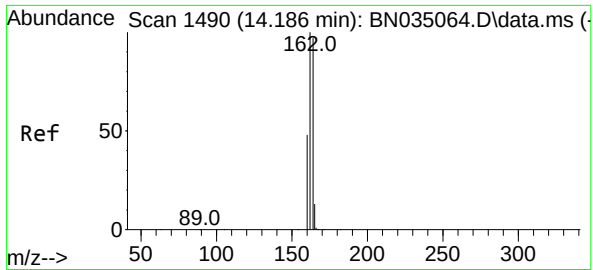
Tgt Ion:	82	Resp:	1048
Ion Ratio	Lower	Upper	
82	100		
128	48.9	36.5	54.7
54	44.5	28.7	43.1



#11
2-Methylnaphthalene-d10
Concen: 0.286 ng
RT: 11.674 min Scan# 1096
Delta R.T. -0.004 min
Lab File: BN035230.D
Acq: 21 Nov 2024 20:00

Tgt Ion:	152	Resp:	3291
Ion Ratio	Lower	Upper	
152	100		
151	20.8	16.2	24.4

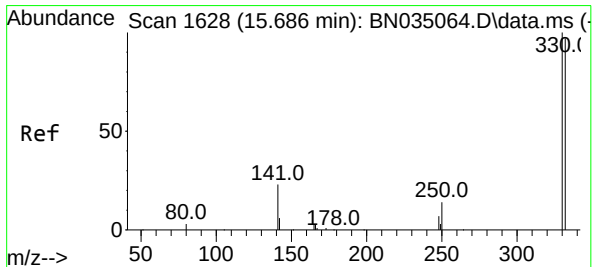
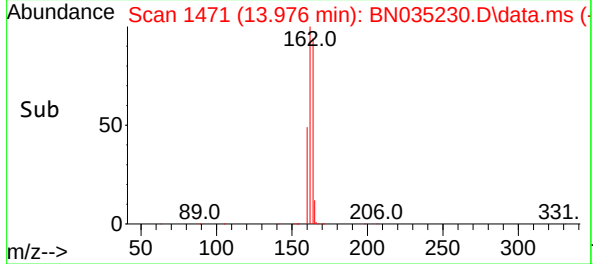
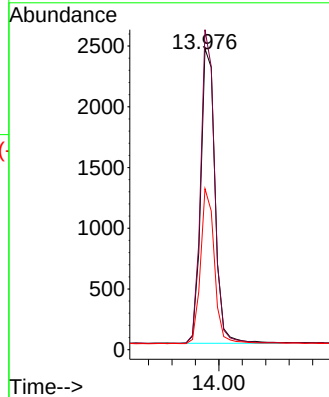
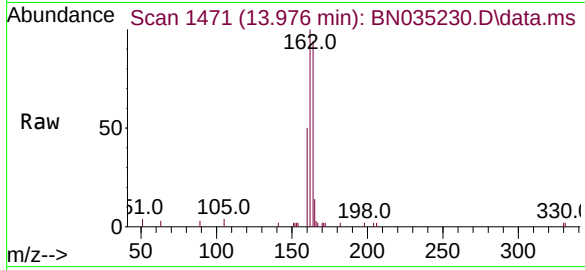




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.976 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035230.D
Acq: 21 Nov 2024 20:00

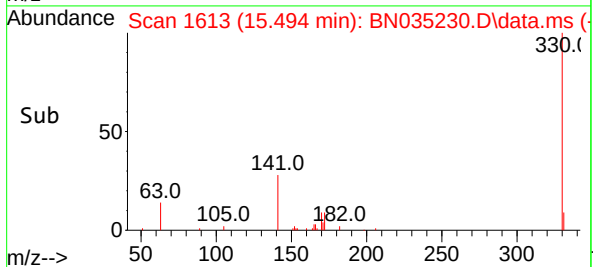
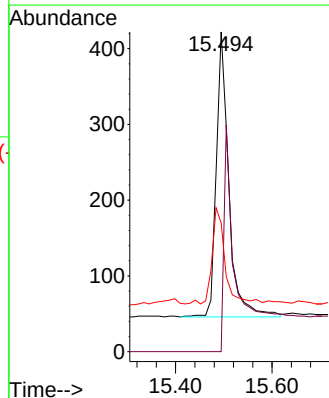
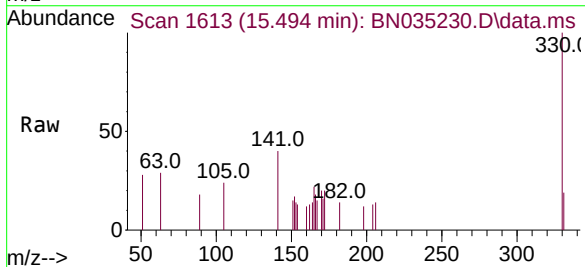
Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20241119

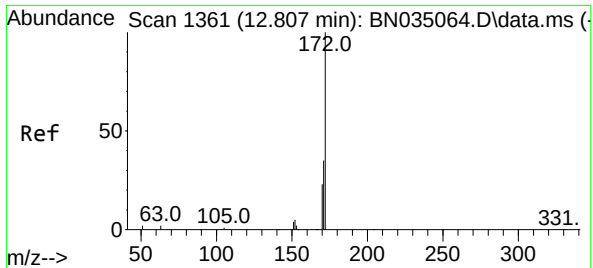
Tgt Ion:164 Resp: 4128
Ion Ratio Lower Upper
164 100
162 106.3 82.2 123.2
160 53.5 40.2 60.4



#14
2,4,6-Tribromophenol
Concen: 0.236 ng
RT: 15.494 min Scan# 1613
Delta R.T. -0.000 min
Lab File: BN035230.D
Acq: 21 Nov 2024 20:00

Tgt Ion:330 Resp: 704
Ion Ratio Lower Upper
330 100
332 94.6 76.9 115.3
141 0.0 29.6 44.4#

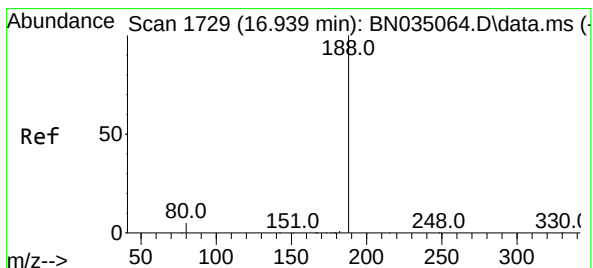
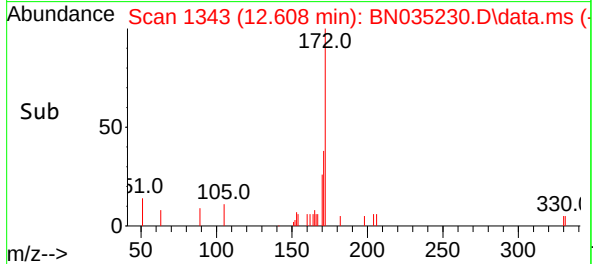
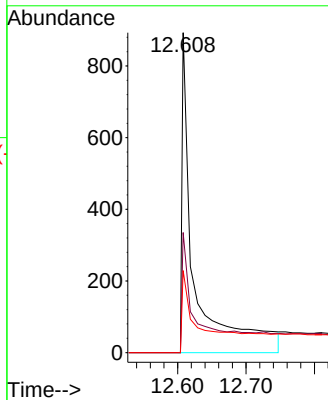
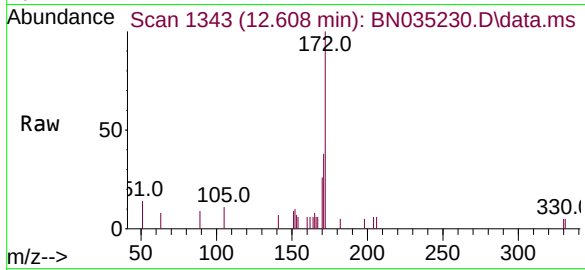




#15
2-Fluorobiphenyl
Concen: 0.072 ng
RT: 12.608 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN035230.D
Acq: 21 Nov 2024 20:00

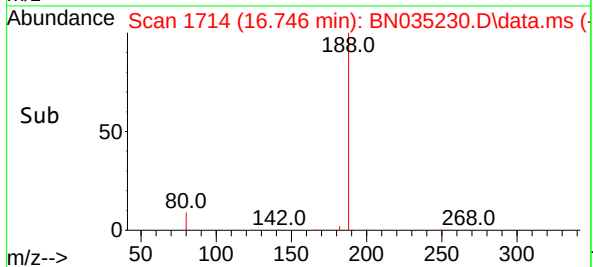
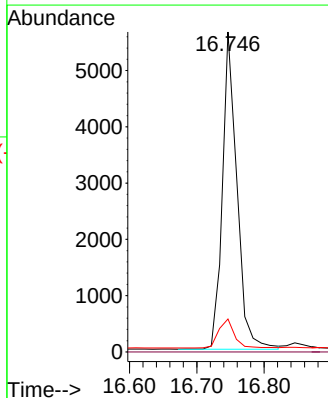
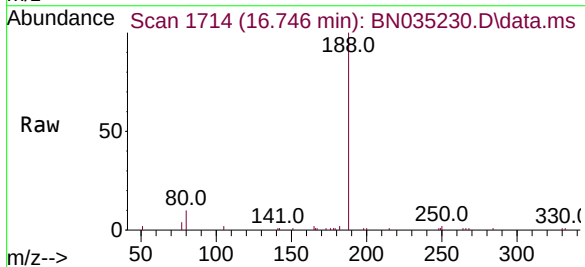
Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20241119

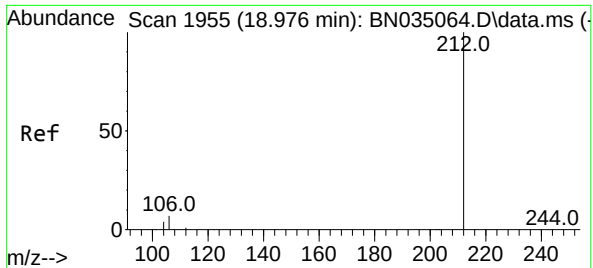
Tgt Ion	Ratio	Lower	Upper
172	100		
171	37.5	28.2	42.4
170	25.6	19.0	28.6



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.746 min Scan# 1714
Delta R.T. -0.000 min
Lab File: BN035230.D
Acq: 21 Nov 2024 20:00

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.3	4.3	6.5

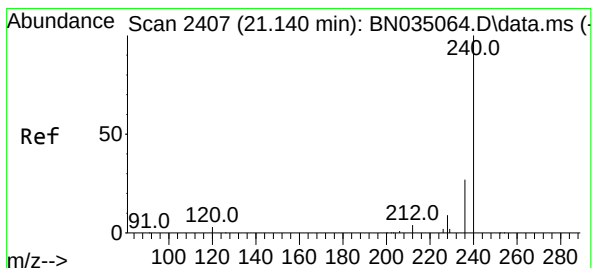
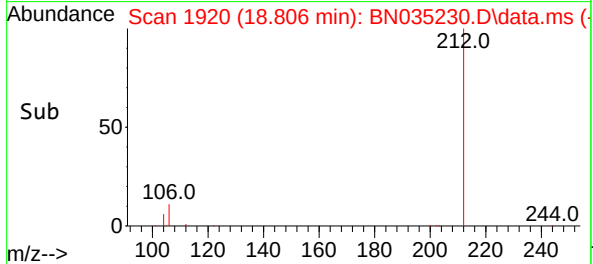
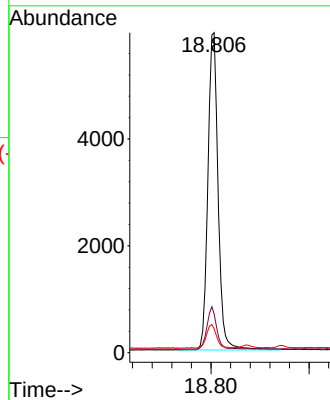
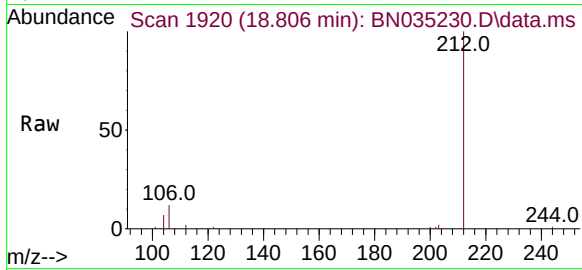




#27
Fluoranthene-d10
Concen: 0.332 ng
RT: 18.806 min Scan# 1955
Delta R.T. -0.000 min
Lab File: BN035230.D
Acq: 21 Nov 2024 20:00

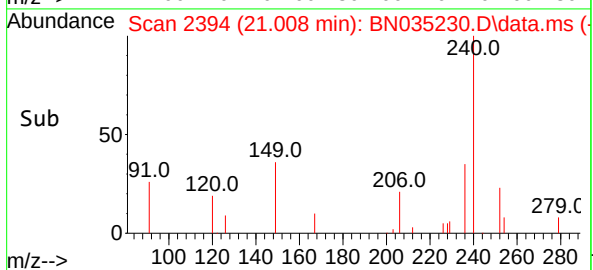
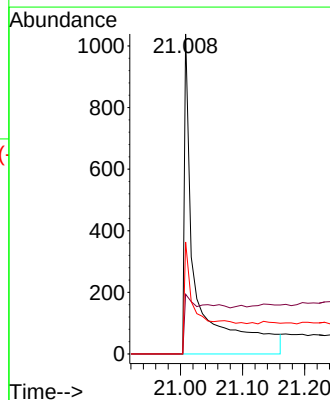
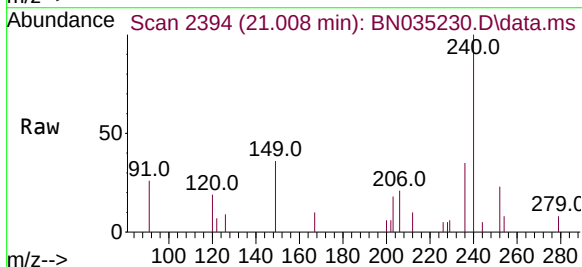
Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20241119

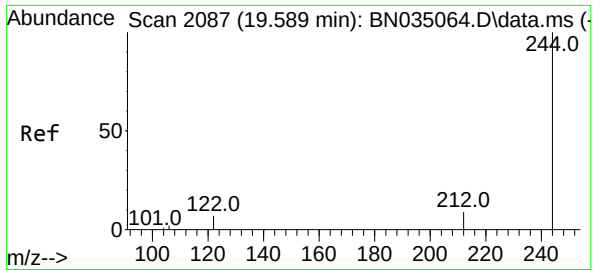
Tgt Ion:212 Resp: 8578
Ion Ratio Lower Upper
212 100
106 12.6 6.0 9.0#
104 7.3 3.5 5.3#



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.008 min Scan# 2394
Delta R.T. -0.000 min
Lab File: BN035230.D
Acq: 21 Nov 2024 20:00

Tgt Ion:240 Resp: 1400
Ion Ratio Lower Upper
240 100
120 18.7 3.8 5.6#
236 35.0 22.2 33.2#

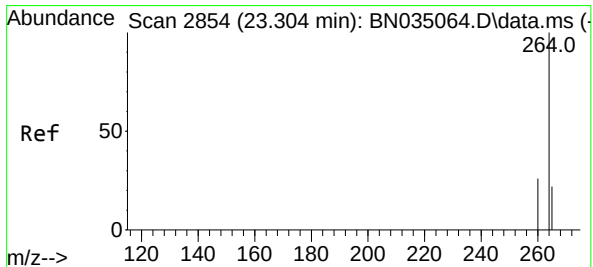
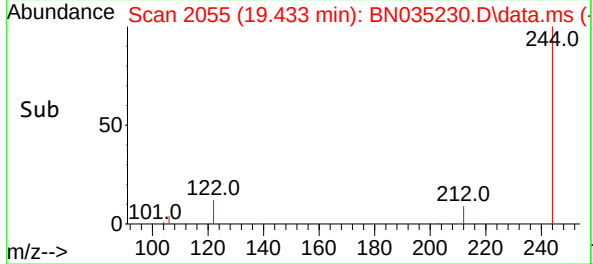
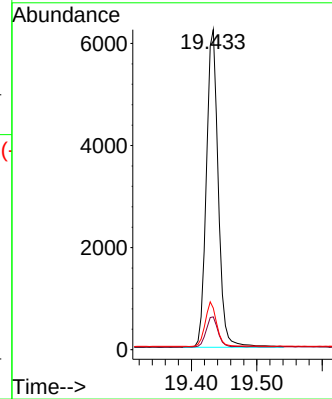
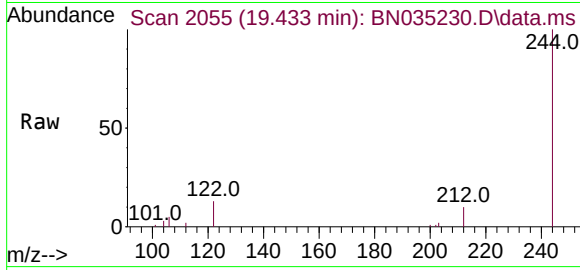




#31
Terphenyl-d14
Concen: 2.671 ng
RT: 19.433 min Scan# 2087
Delta R.T. -0.005 min
Lab File: BN035230.D
Acq: 21 Nov 2024 20:00

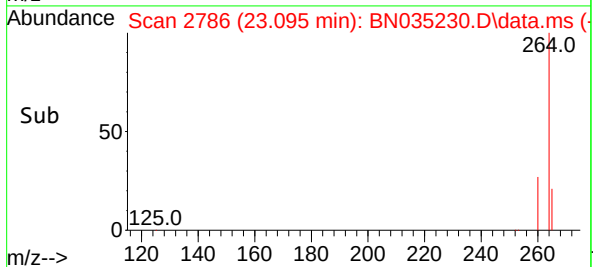
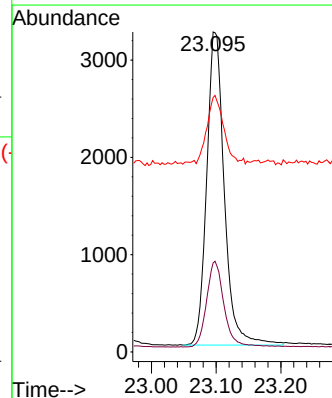
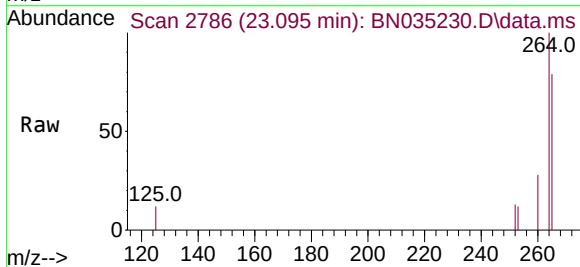
Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20241119

Tgt Ion:244 Resp: 7846
Ion Ratio Lower Upper
244 100
212 10.3 7.6 11.4
122 13.0 6.1 9.1#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.095 min Scan# 2786
Delta R.T. -0.009 min
Lab File: BN035230.D
Acq: 21 Nov 2024 20:00

Tgt Ion:264 Resp: 6097
Ion Ratio Lower Upper
264 100
260 27.8 20.9 31.3
265 79.5 35.4 53.2#



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	11/19/24
Project:	CTO WE13	Date Received:	11/20/24
Client Sample ID:	FB01-20241119	SDG No.:	P4934
Lab Sample ID:	P4934-09	Matrix:	Water
Analytical Method:	SW8270SIM	% 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 :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035231.D	1	11/21/24 08:27	11/21/24 20:36	PB165150

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.33		30 - 150		83%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.40		30 - 150		100%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.21	*	55 - 111		53%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.070	*	53 - 106		17%	SPK: 0.4
1718-51-0	Terphenyl-d14	4.71	*	58 - 132		1178%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2670		7.322			
1146-65-2	Naphthalene-d8	6150		10.073			
15067-26-2	Acenaphthene-d10	3900		13.976			
1517-22-2	Phenanthrene-d10	8030		16.746			
1719-03-5	Chrysene-d12	1050		21.008			
1520-96-3	Perylene-d12	5730		23.098			

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\BN112124\
Data File : BN035231.D
Acq On : 21 Nov 2024 20:36
Operator : RC/JU
Sample : P4934-09
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
FB01-20241119

Quant Time: Nov 21 23:05:55 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 14:00:03 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.322	152	2669	0.400	ng	0.00
7) Naphthalene-d8	10.073	136	6148	0.400	ng	# 0.00
13) Acenaphthene-d10	13.976	164	3898	0.400	ng	-0.01
19) Phenanthrene-d10	16.746	188	8027	0.400	ng	# 0.00
29) Chrysene-d12	21.008	240	1052	0.400	ng	# 0.00
35) Perylene-d12	23.098	264	5733	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.975	112	1436	0.212	ng	0.00
5) Phenol-d6	6.528	99	1074	0.126	ng	0.00
8) Nitrobenzene-d5	8.461	82	1138	0.213	ng	0.00
11) 2-Methylnaphthalene-d10	11.674	152	3659	0.334	ng	0.00
14) 2,4,6-Tribromophenol	15.494	330	822	0.292	ng	0.00
15) 2-Fluorobiphenyl	12.608	172	1115	0.070	ng	0.00
27) Fluoranthene-d10	18.801	212	9815	0.399	ng	0.00
31) Terphenyl-d14	19.429	244	10401	4.712	ng	0.00

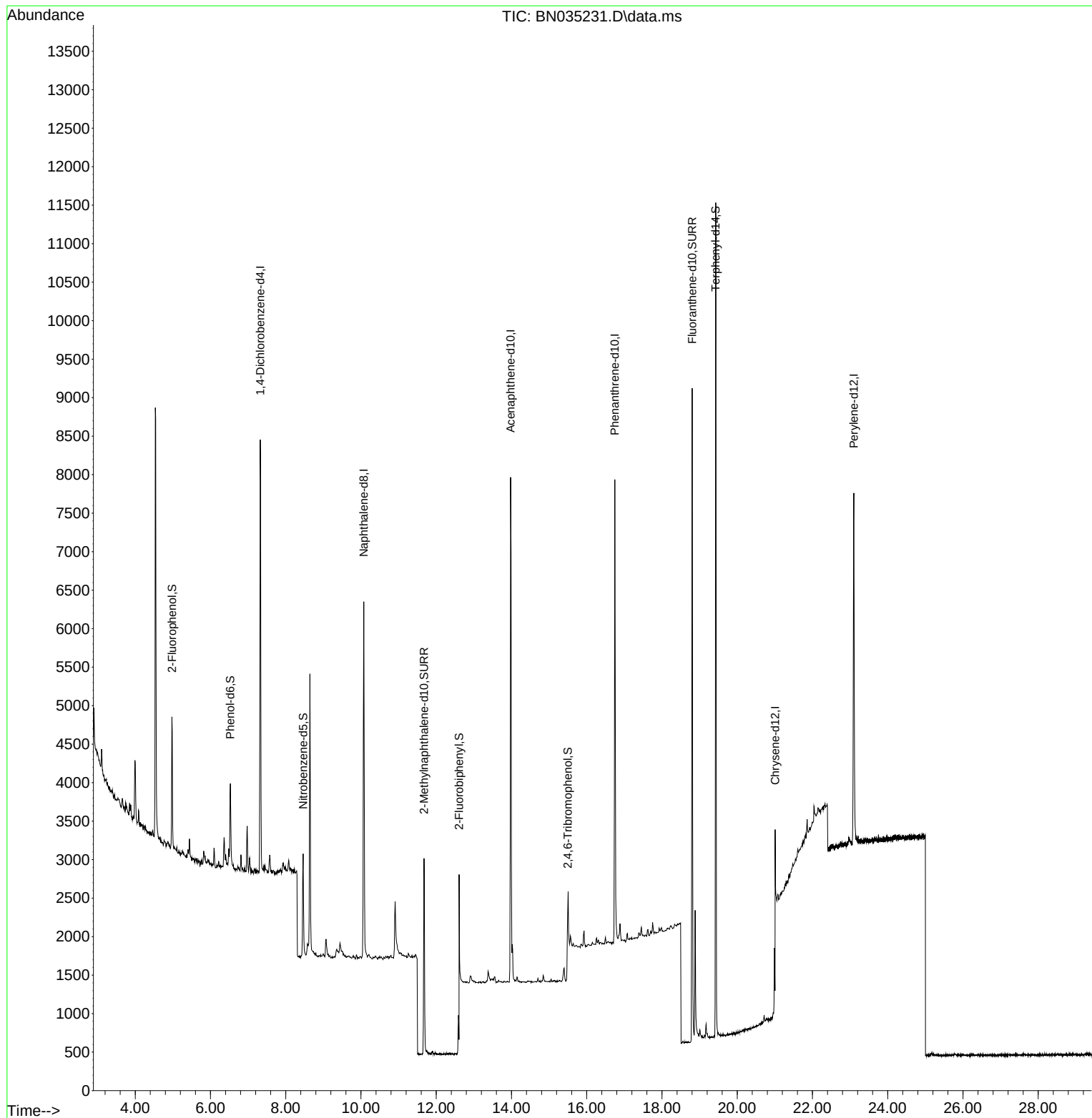
Target Compounds	Qvalue

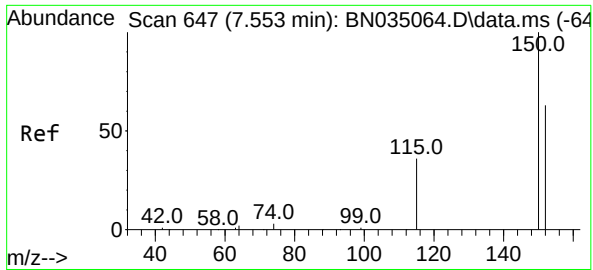
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112124\
Data File : BN035231.D
Acq On : 21 Nov 2024 20:36
Operator : RC/JU
Sample : P4934-09
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
FB01-20241119

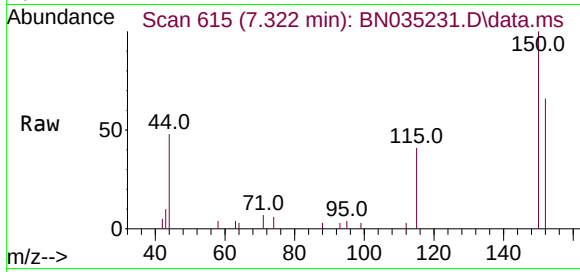
Quant Time: Nov 21 23:05:55 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 14:00:03 2024
Response via : Initial Calibration



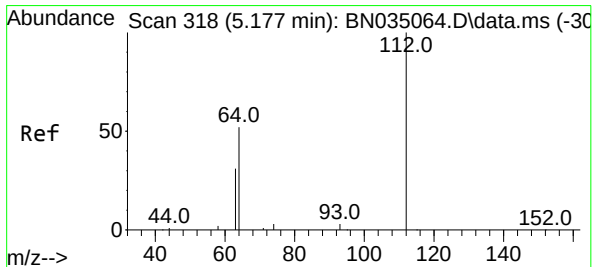
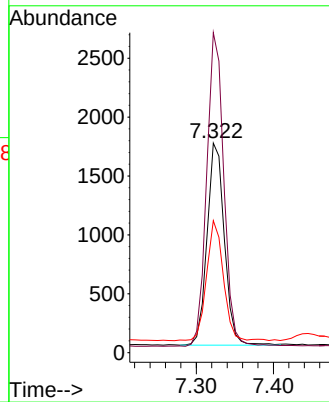
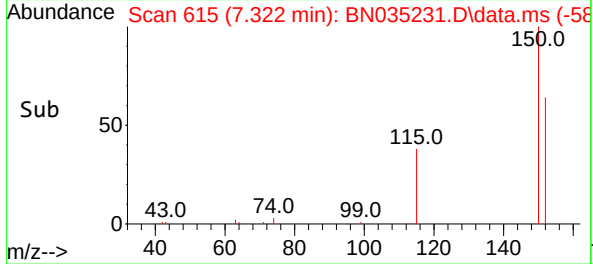


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.322 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN035231.D
Acq: 21 Nov 2024 20:36

Instrument :
BNA_N
ClientSampleId :
FB01-20241119

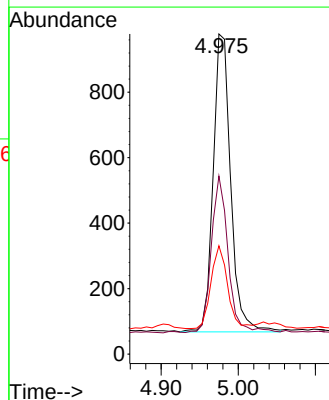
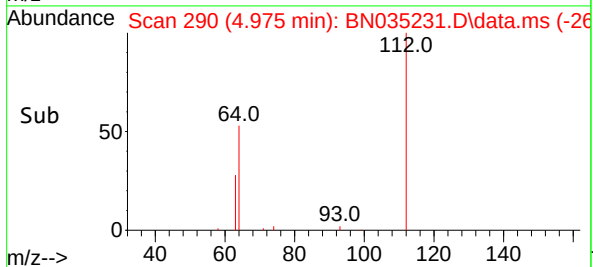
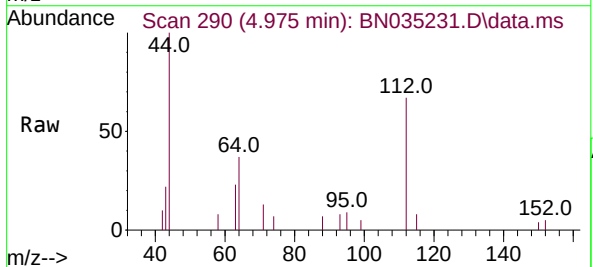


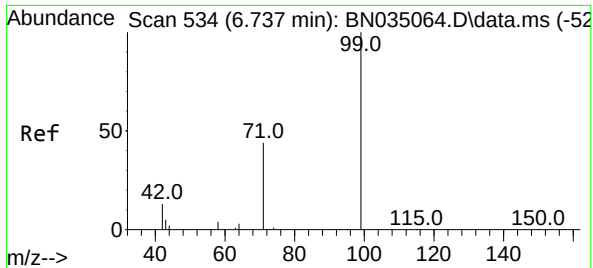
Tgt Ion:152 Resp: 2669
Ion Ratio Lower Upper
152 100
150 152.6 124.5 186.7
115 62.9 47.8 71.6



#4
2-Fluorophenol
Concen: 0.212 ng
RT: 4.975 min Scan# 290
Delta R.T. -0.007 min
Lab File: BN035231.D
Acq: 21 Nov 2024 20:36

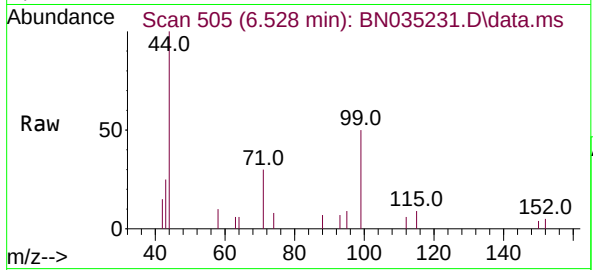
Tgt Ion:112 Resp: 1436
Ion Ratio Lower Upper
112 100
64 50.0 39.7 59.5
63 26.7 23.0 34.4



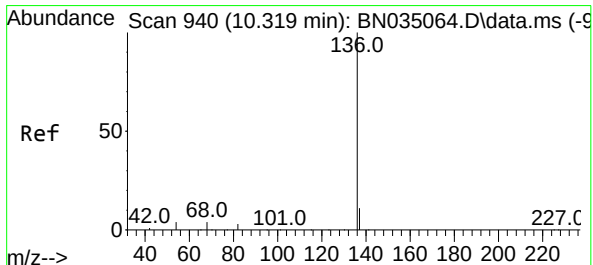
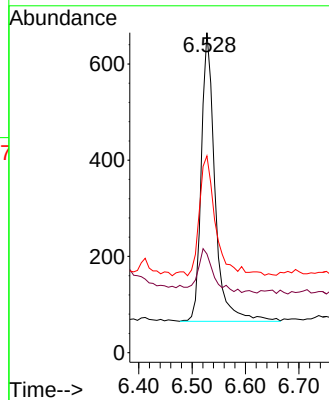
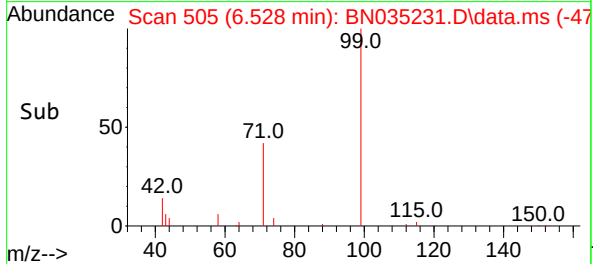


#5
Phenol-d6
Concen: 0.126 ng
RT: 6.528 min Scan# 505
Delta R.T. -0.000 min
Lab File: BN035231.D
Acq: 21 Nov 2024 20:36

Instrument :
BNA_N
ClientSampleId :
FB01-20241119

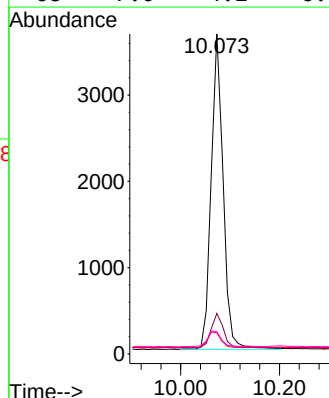
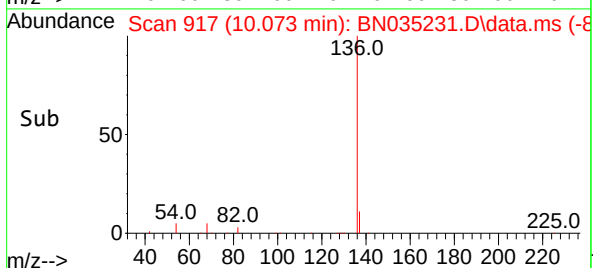
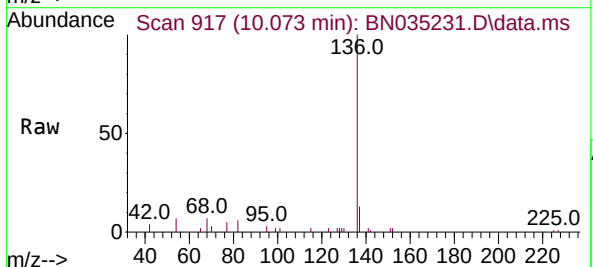


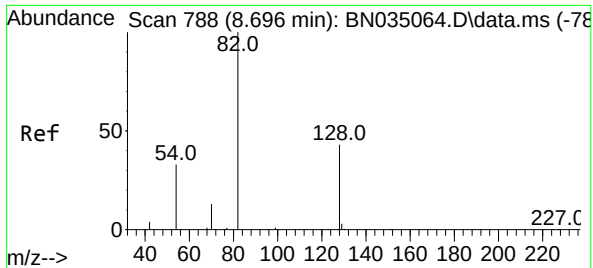
Tgt Ion: 99 Resp: 1074
Ion Ratio Lower Upper
99 100
42 17.7 11.4 17.0#
71 48.1 34.6 51.8



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.073 min Scan# 917
Delta R.T. -0.000 min
Lab File: BN035231.D
Acq: 21 Nov 2024 20:36

Tgt Ion: 136 Resp: 6148
Ion Ratio Lower Upper
136 100
137 12.6 9.8 14.8
54 6.6 4.0 6.0#
68 7.0 4.2 6.2#

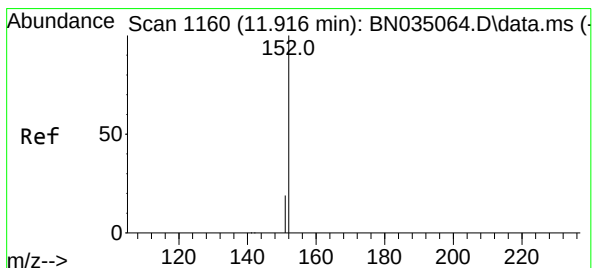
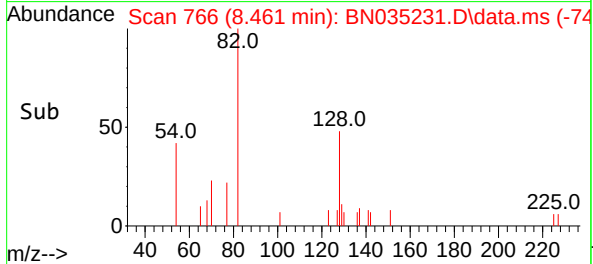
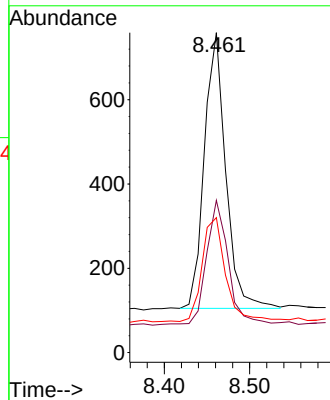
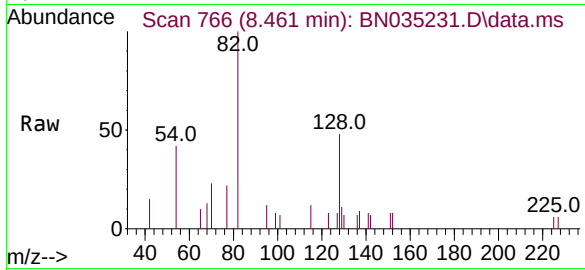




#8
Nitrobenzene-d5
Concen: 0.213 ng
RT: 8.461 min Scan# 70
Delta R.T. -0.000 min
Lab File: BN035231.D
Acq: 21 Nov 2024 20:36

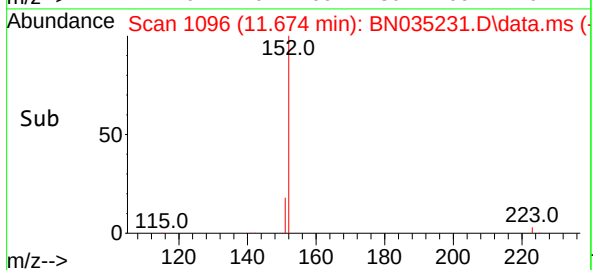
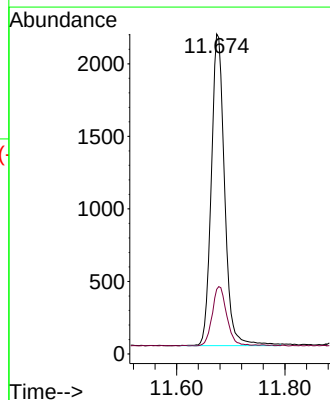
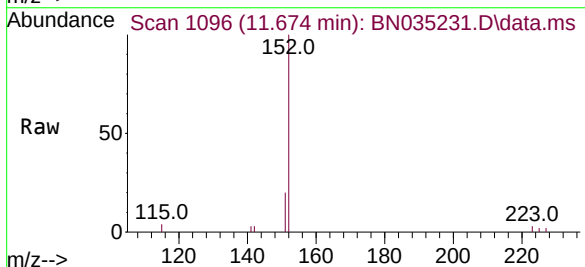
Instrument :
BNA_N
ClientSampleId :
FB01-20241119

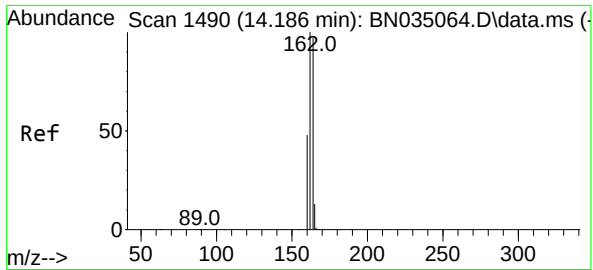
Tgt Ion: 82 Resp: 1138
Ion Ratio Lower Upper
82 100
128 47.6 36.5 54.7
54 42.2 28.7 43.1



#11
2-Methylnaphthalene-d10
Concen: 0.334 ng
RT: 11.674 min Scan# 1096
Delta R.T. -0.004 min
Lab File: BN035231.D
Acq: 21 Nov 2024 20:36

Tgt Ion:152 Resp: 3659
Ion Ratio Lower Upper
152 100
151 20.6 16.2 24.4

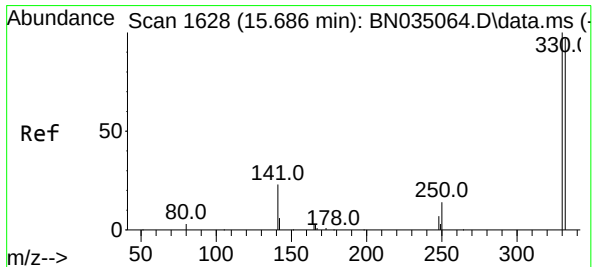
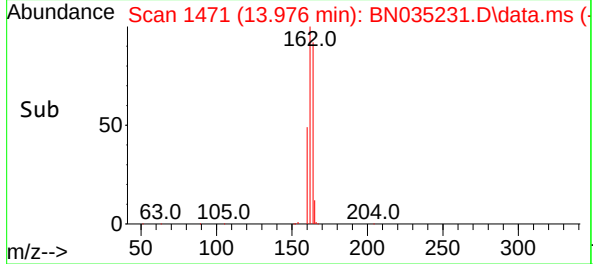
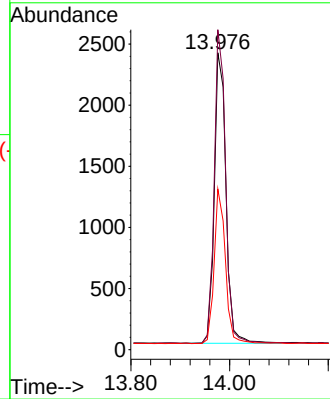
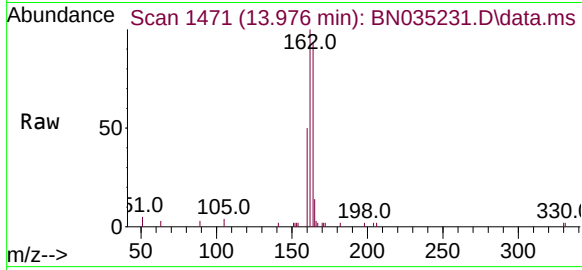




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.976 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035231.D
Acq: 21 Nov 2024 20:36

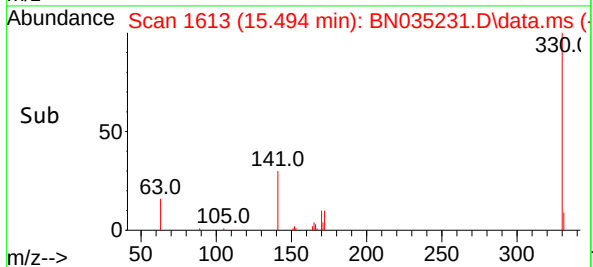
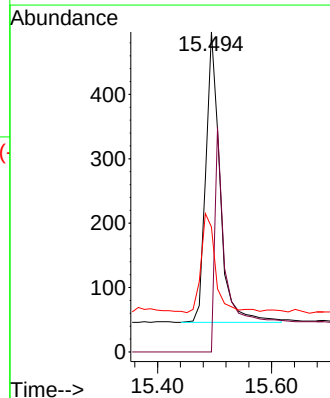
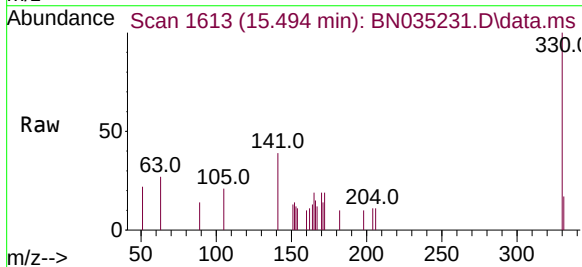
Instrument :
BNA_N
ClientSampleId :
FB01-20241119

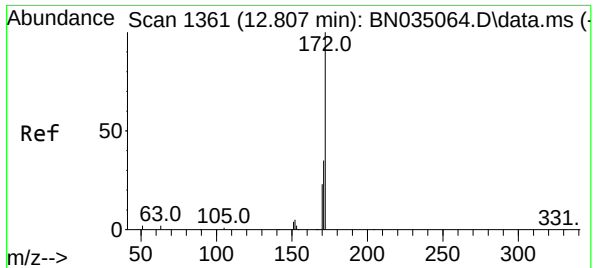
Tgt Ion:164 Resp: 3898
Ion Ratio Lower Upper
164 100
162 107.8 82.2 123.2
160 54.1 40.2 60.4



#14
2,4,6-Tribromophenol
Concen: 0.292 ng
RT: 15.494 min Scan# 1613
Delta R.T. -0.000 min
Lab File: BN035231.D
Acq: 21 Nov 2024 20:36

Tgt Ion:330 Resp: 822
Ion Ratio Lower Upper
330 100
332 86.3 76.9 115.3
141 0.0 29.6 44.4#

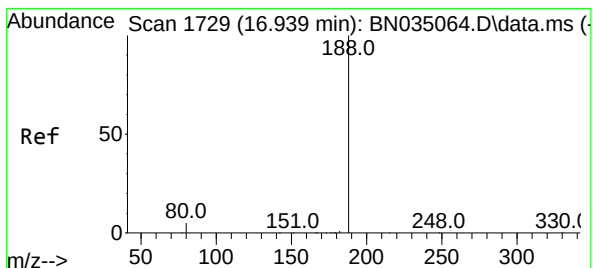
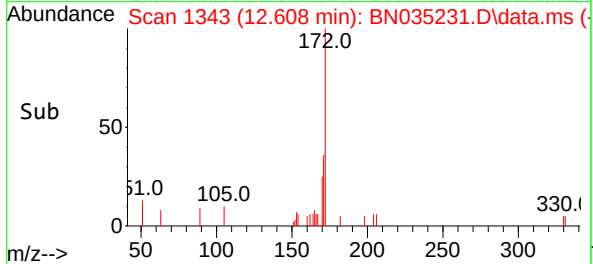
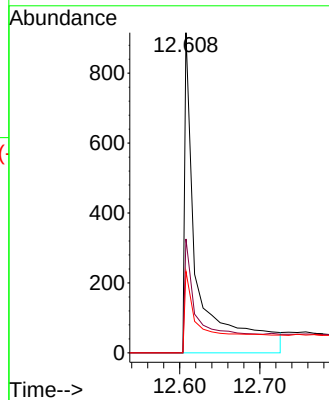
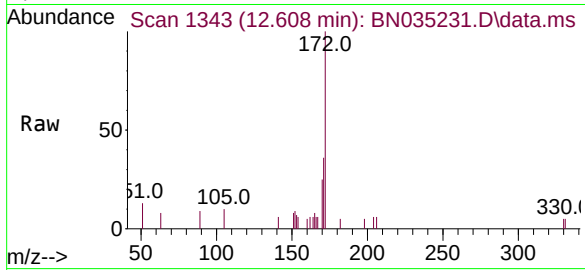




#15
2-Fluorobiphenyl
Concen: 0.070 ng
RT: 12.608 min Scan# 1115
Delta R.T. -0.000 min
Lab File: BN035231.D
Acq: 21 Nov 2024 20:36

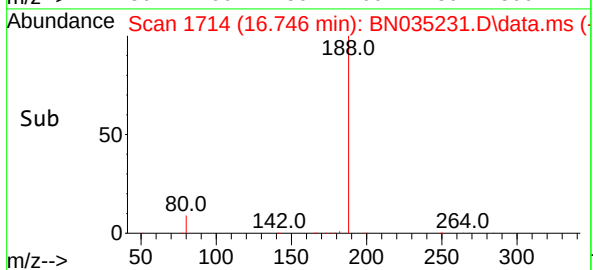
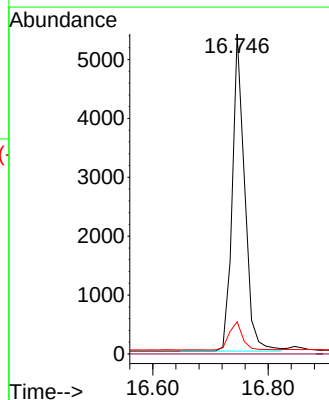
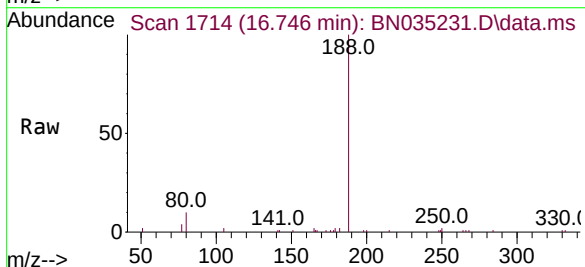
Instrument :
BNA_N
ClientSampleId :
FB01-20241119

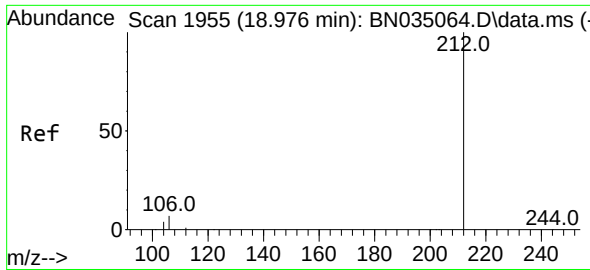
Tgt Ion:	172	Resp:	1115
Ion	Ratio	Lower	Upper
172	100		
171	35.6	28.2	42.4
170	25.4	19.0	28.6



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.746 min Scan# 1714
Delta R.T. -0.000 min
Lab File: BN035231.D
Acq: 21 Nov 2024 20:36

Tgt Ion:	188	Resp:	8027
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.0	4.3	6.5

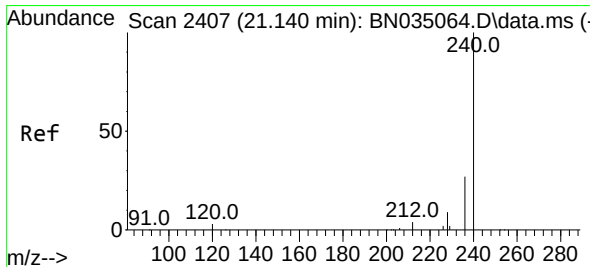
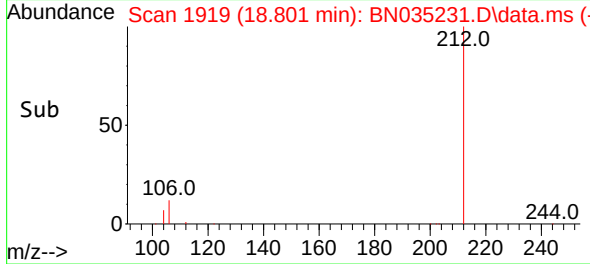
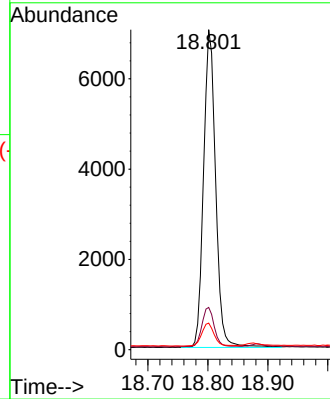
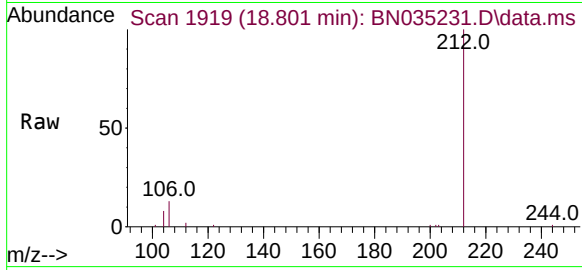




#27
Fluoranthene-d10
Concen: 0.399 ng
RT: 18.801 min Scan# 1919
Delta R.T. -0.005 min
Lab File: BN035231.D
Acq: 21 Nov 2024 20:36

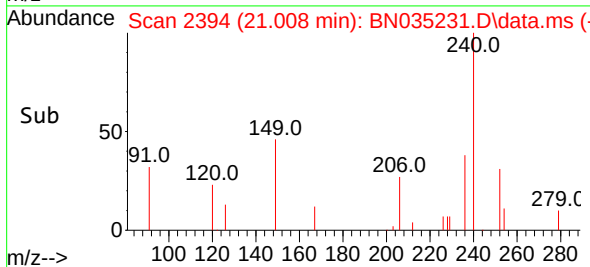
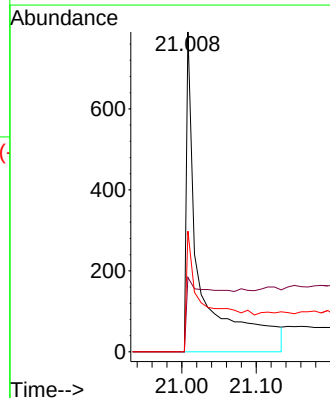
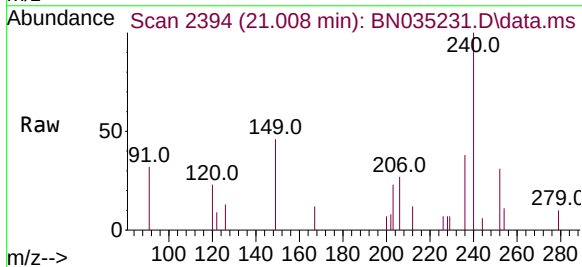
Instrument :
BNA_N
ClientSampleId :
FB01-20241119

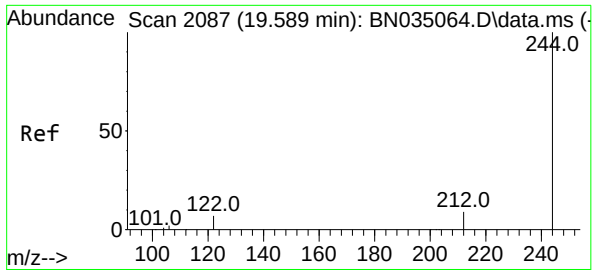
Tgt Ion:212 Resp: 9815
Ion Ratio Lower Upper
212 100
106 12.5 6.0 9.0#
104 7.4 3.5 5.3#



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.008 min Scan# 2394
Delta R.T. -0.000 min
Lab File: BN035231.D
Acq: 21 Nov 2024 20:36

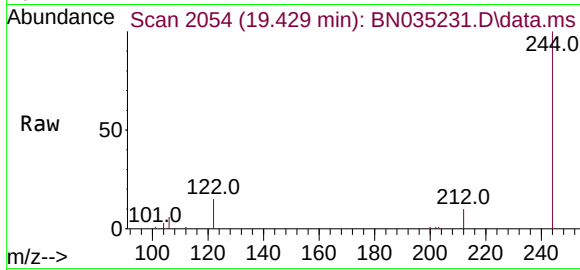
Tgt Ion:240 Resp: 1052
Ion Ratio Lower Upper
240 100
120 23.3 3.8 5.6#
236 37.7 22.2 33.2#



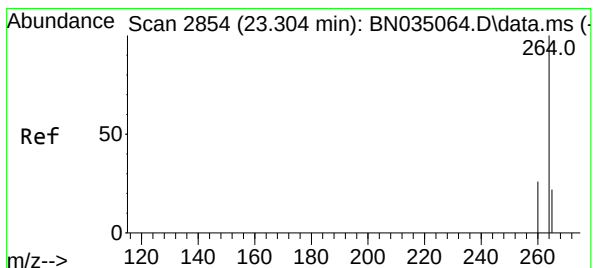
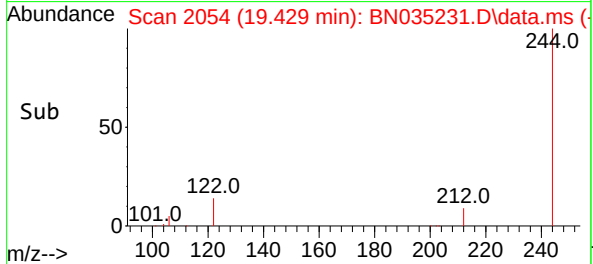
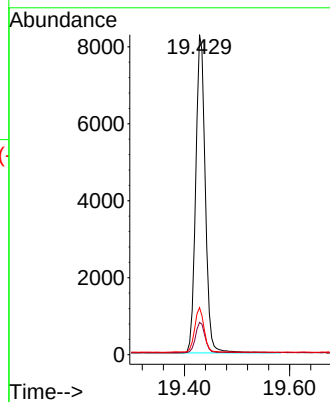


#31
Terphenyl-d14
Concen: 4.712 ng
RT: 19.429 min Scan# 2087
Delta R.T. -0.009 min
Lab File: BN035231.D
Acq: 21 Nov 2024 20:36

Instrument :
BNA_N
ClientSampleId :
FB01-20241119

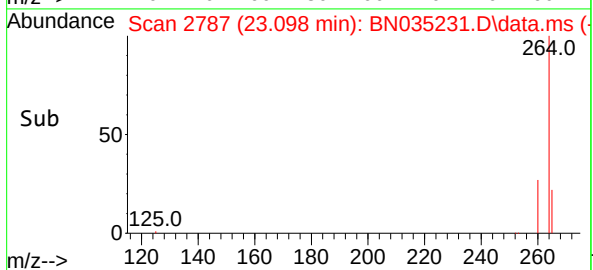
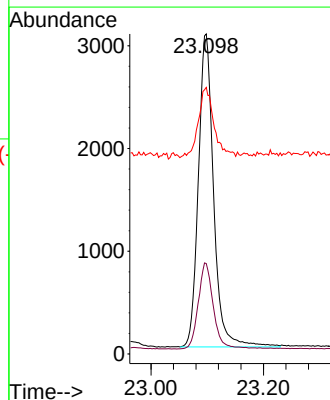
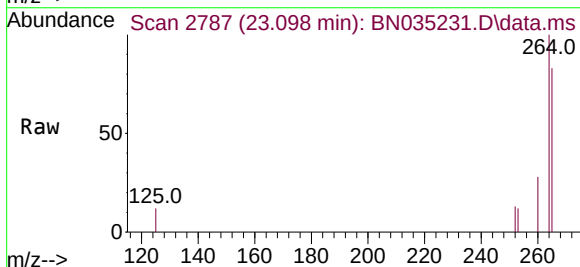


Tgt Ion:244 Resp: 10401
Ion Ratio Lower Upper
244 100
212 10.1 7.6 11.4
122 14.7 6.1 9.1#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.098 min Scan# 2787
Delta R.T. -0.006 min
Lab File: BN035231.D
Acq: 21 Nov 2024 20:36

Tgt Ion:264 Resp: 5733
Ion Ratio Lower Upper
264 100
260 28.3 20.9 31.3
265 83.3 35.4 53.2#



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	11/19/24
Project:	CTO WE13	Date Received:	11/20/24
Client Sample ID:	BPOW6-8-20241119	SDG No.:	P4934
Lab Sample ID:	P4934-10	Matrix:	Water
Analytical Method:	SW8270SIM	% 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 :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035233.D	1	11/21/24 08:27	11/21/24 21:49	PB165150

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.29		30 - 150		72%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.34		30 - 150		84%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.19	*	55 - 111		48%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.083	*	53 - 106		21%	SPK: 0.4
1718-51-0	Terphenyl-d14	3.68	*	58 - 132		919%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2750		7.322			
1146-65-2	Naphthalene-d8	6710		10.073			
15067-26-2	Acenaphthene-d10	4350		13.983			
1517-22-2	Phenanthrene-d10	9380		16.753			
1719-03-5	Chrysene-d12	1390		21.006			
1520-96-3	Perylene-d12	5770		23.096			

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\BN112124\
 Data File : BN035233.D
 Acq On : 21 Nov 2024 21:49
 Operator : RC/JU
 Sample : P4934-10
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 BPOW6-8-20241119

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/22/2024
 Supervised By :mohammad ahmed 11/22/2024

Quant Time: Nov 21 23:06:19 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 21 14:00:03 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.322	152	2753	0.400	ng	0.00
7) Naphthalene-d8	10.073	136	6705	0.400	ng	# 0.00
13) Acenaphthene-d10	13.983	164	4351	0.400	ng	0.00
19) Phenanthrene-d10	16.753	188	9377	0.400	ng	# 0.00
29) Chrysene-d12	21.006	240	1394	0.400	ng	# 0.00
35) Perylene-d12	23.096	264	5766	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.975	112	841	0.120	ng	0.00
5) Phenol-d6	6.528	99	609	0.069	ng	0.00
8) Nitrobenzene-d5	8.461	82	1114m	0.191	ng	0.00
11) 2-Methylnaphthalene-d10	11.674	152	3417	0.286	ng	0.00
14) 2,4,6-Tribromophenol	15.491	330	728	0.232	ng	0.00
15) 2-Fluorobiphenyl	12.604	172	1463	0.083	ng	0.00
27) Fluoranthene-d10	18.799	212	9717	0.338	ng	0.00
31) Terphenyl-d14	19.431	244	10756	3.677	ng	0.00
Target Compounds						Qvalue
30) Pyrene	19.199	202	259	0.056	ng	# 94

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

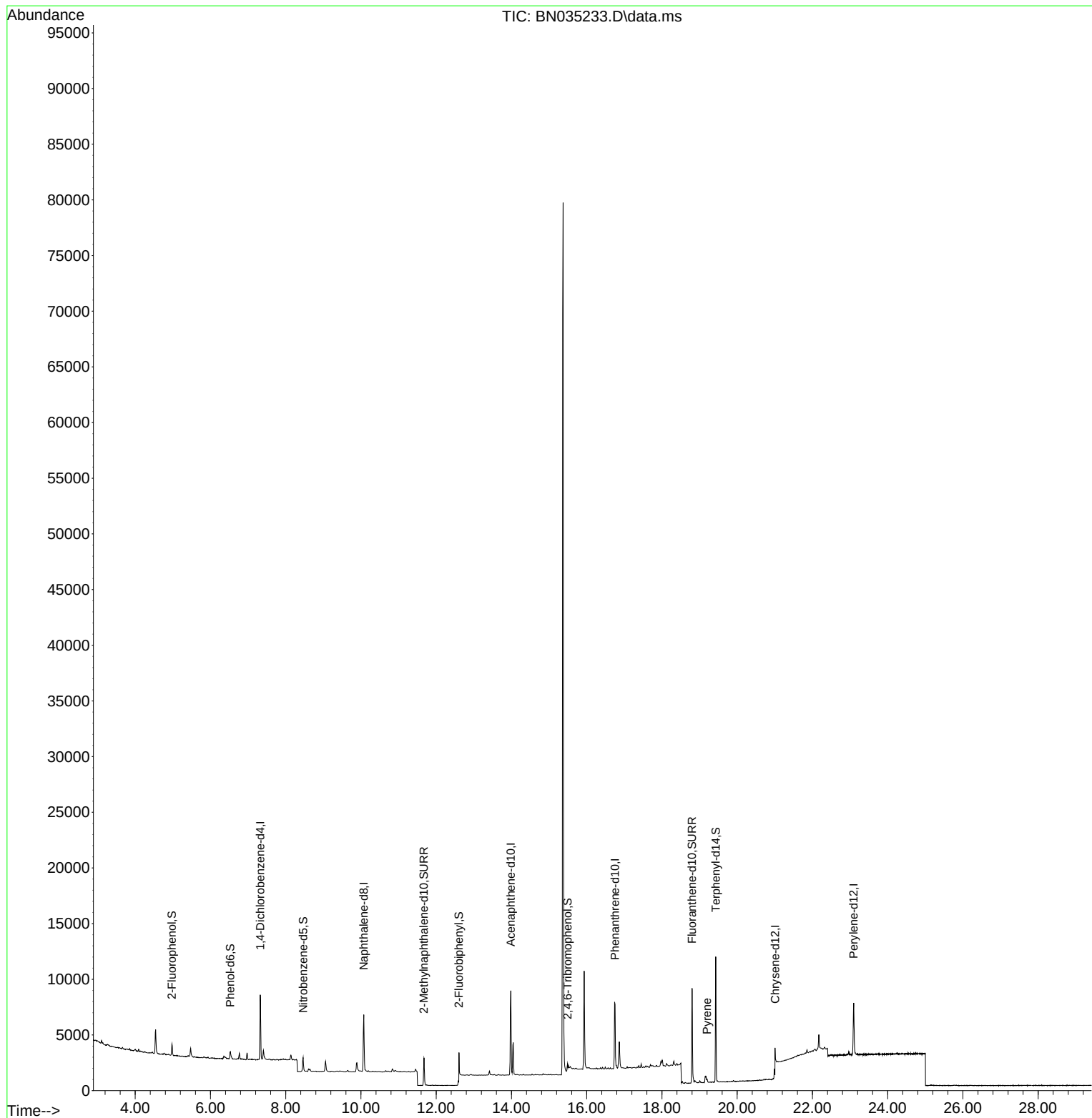
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Data File : BN035233.D
Acq On : 21 Nov 2024 21:49
Operator : RC/JU
Sample : P4934-10
Misc :
ALS Vial : 16 Sample Multiplier: 1

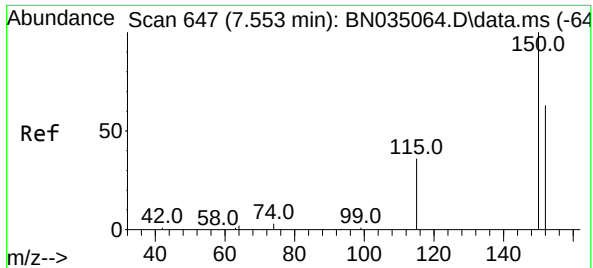
Instrument :
BNA_N
ClientSampleId :
BPOW6-8-20241119

Manual Integrations
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Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024

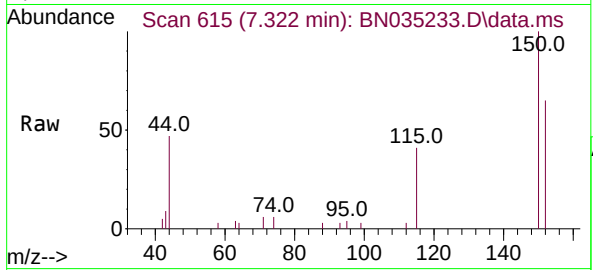
Quant Time: Nov 21 23:06:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 14:00:03 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.322 min Scan# 615
Delta R.T. -0.007 min
Lab File: BN035233.D
Acq: 21 Nov 2024 21:49

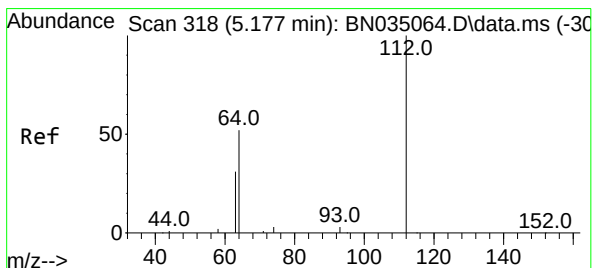
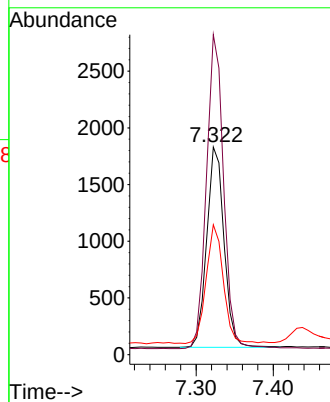
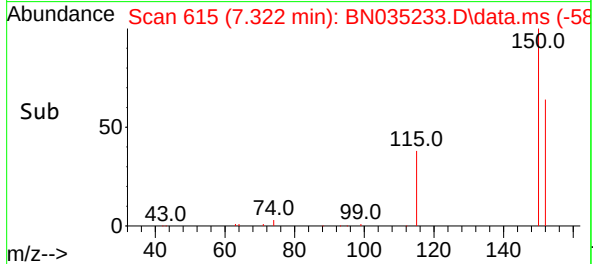
Instrument :
BNA_N
ClientSampleId :
BPOW6-8-20241119



Tgt Ion:152 Resp: 275
Ion Ratio Lower Upper
152 100
150 154.1 124.5 186.7
115 62.5 47.8 71.6

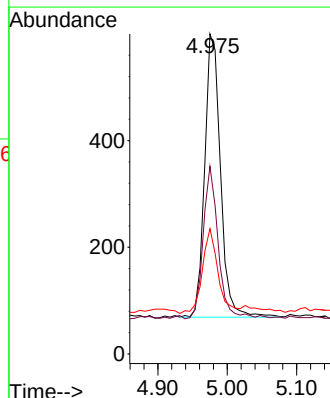
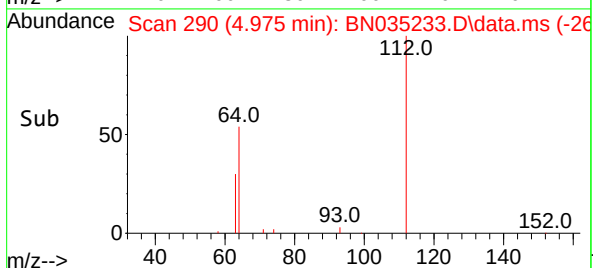
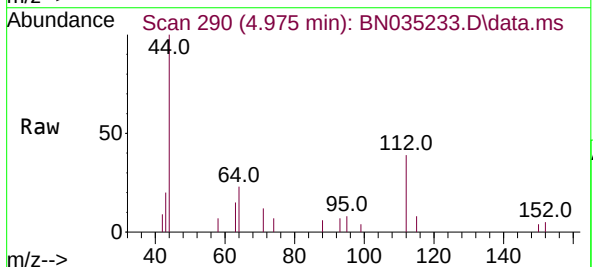
Manual Integrations
APPROVED

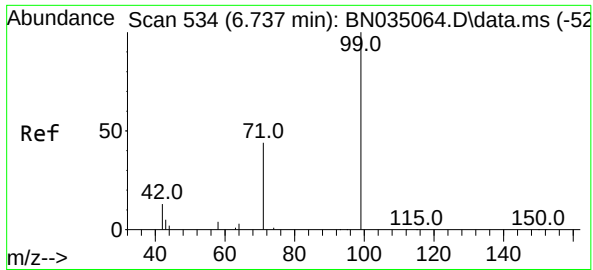
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#4
2-Fluorophenol
Concen: 0.120 ng
RT: 4.975 min Scan# 290
Delta R.T. -0.007 min
Lab File: BN035233.D
Acq: 21 Nov 2024 21:49

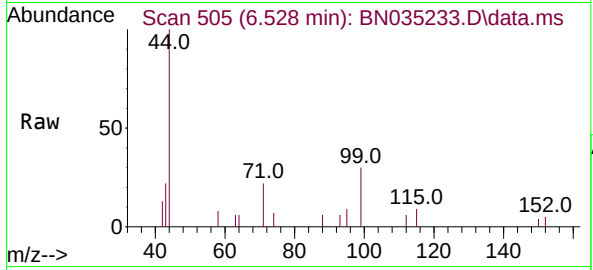
Tgt Ion:112 Resp: 841
Ion Ratio Lower Upper
112 100
64 51.7 39.7 59.5
63 29.6 23.0 34.4





#5
Phenol-d6
Concen: 0.069 ng
RT: 6.528 min Scan# 505
Delta R.T. 0.000 min
Lab File: BN035233.D
Acq: 21 Nov 2024 21:49

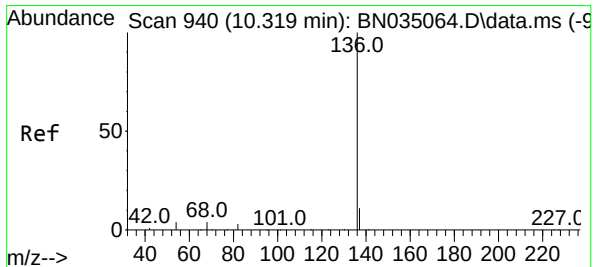
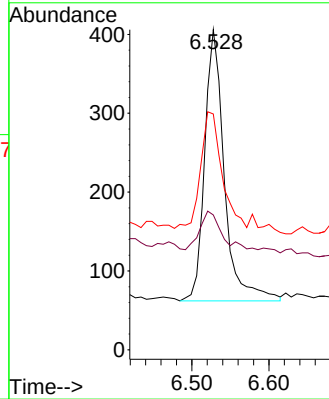
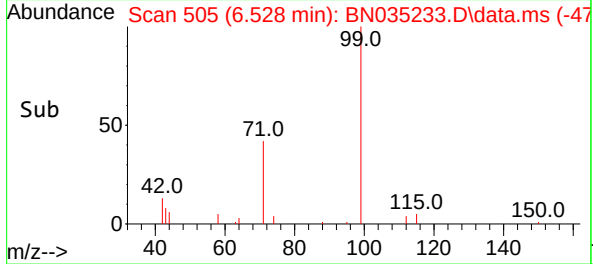
Instrument :
BNA_N
ClientSampleId :
BPOW6-8-20241119



Tgt Ion: 99 Resp: 609
Ion Ratio Lower Upper
99 100
42 15.3 11.4 17.0
71 45.8 34.6 51.8

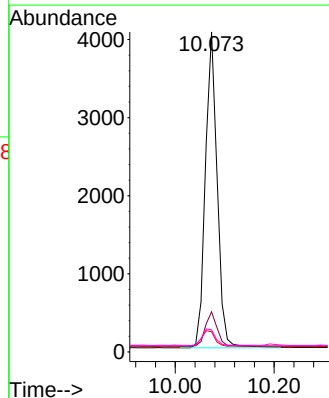
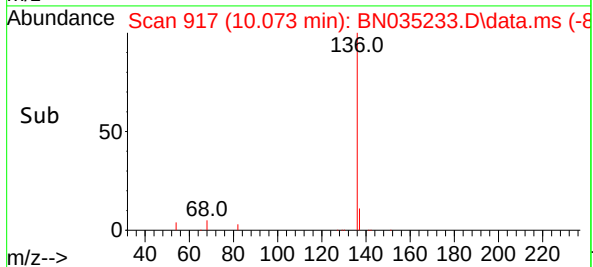
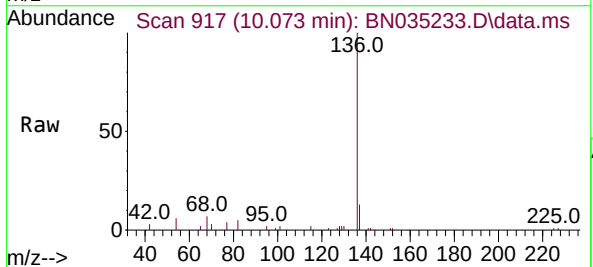
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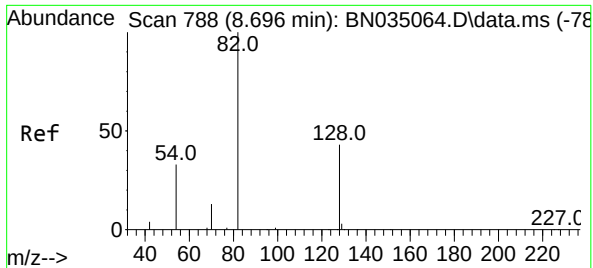
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.073 min Scan# 917
Delta R.T. 0.000 min
Lab File: BN035233.D
Acq: 21 Nov 2024 21:49

Tgt Ion:136 Resp: 6705
Ion Ratio Lower Upper
136 100
137 12.5 9.8 14.8
54 6.3 4.0 6.0#
68 6.9 4.2 6.2#





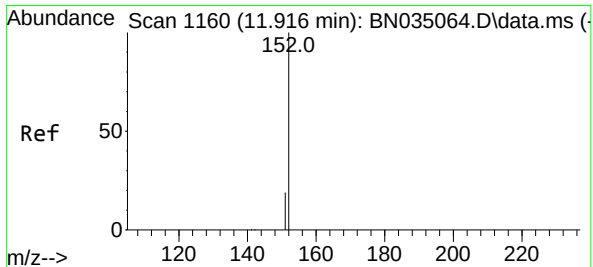
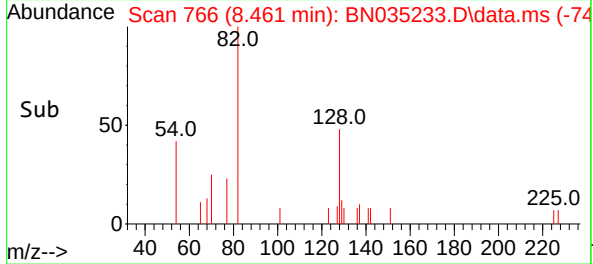
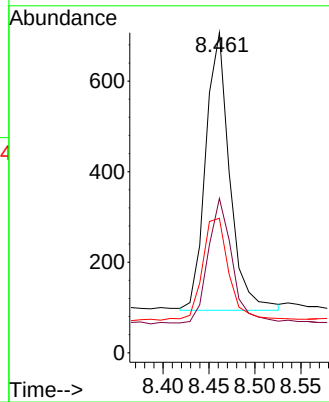
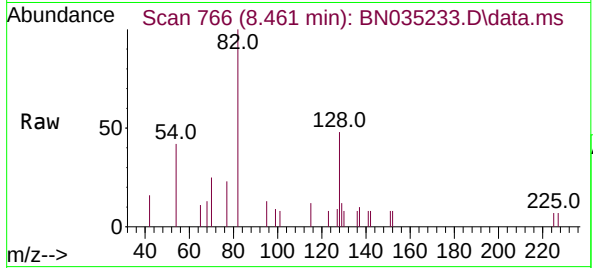
#8
Nitrobenzene-d5
Concen: 0.191 ng m
RT: 8.461 min Scan# 714
Delta R.T. 0.000 min
Lab File: BN035233.D
Acq: 21 Nov 2024 21:49

Instrument :
BNA_N
ClientSampleId :
BPOW6-8-20241119

Tgt Ion: 82 Resp: 1114
Ion Ratio Lower Upper
82 100
128 48.2 36.5 54.7
54 42.0 28.7 43.1

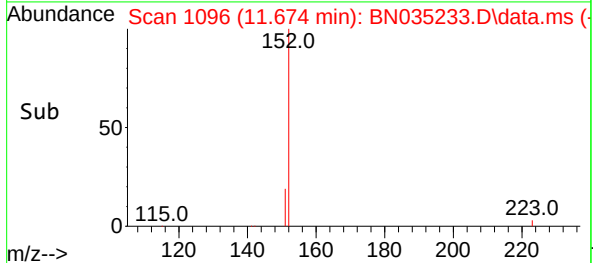
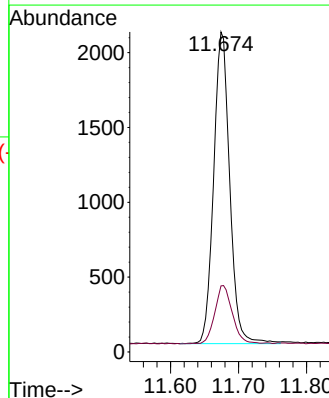
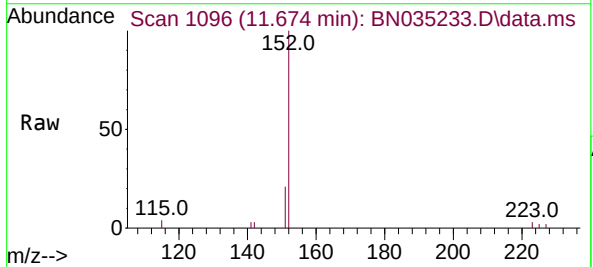
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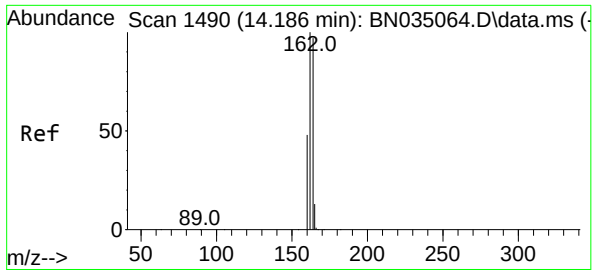
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#11
2-Methylnaphthalene-d10
Concen: 0.286 ng
RT: 11.674 min Scan# 1096
Delta R.T. -0.004 min
Lab File: BN035233.D
Acq: 21 Nov 2024 21:49

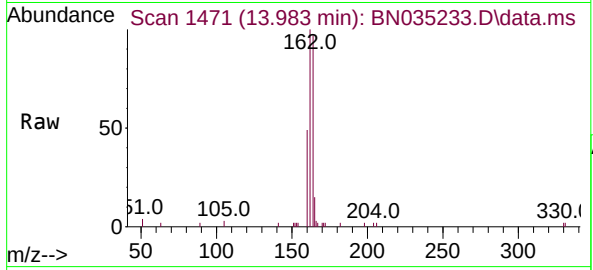
Tgt Ion:152 Resp: 3417
Ion Ratio Lower Upper
152 100
151 20.3 16.2 24.4





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.983 min Scan# 1490
Delta R.T. -0.004 min
Lab File: BN035233.D
Acq: 21 Nov 2024 21:49

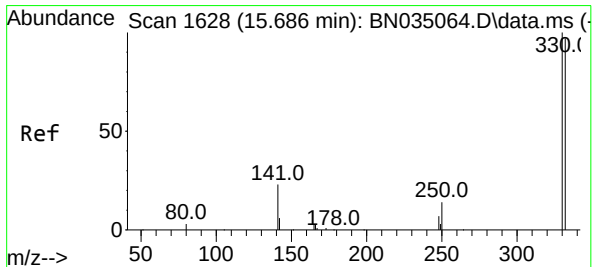
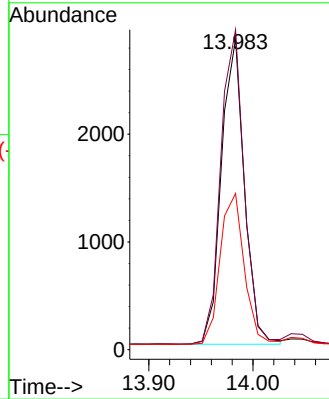
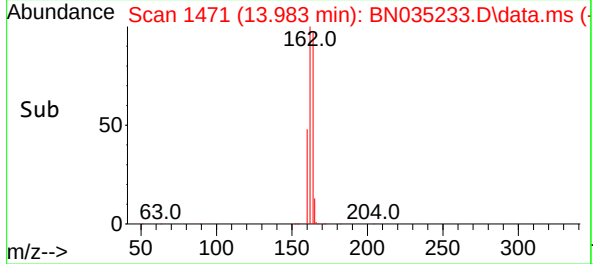
Instrument :
BNA_N
ClientSampleId :
BPOW6-8-20241119



Tgt Ion:164 Resp: 435
Ion Ratio Lower Upper
164 100
162 102.9 82.2 123.2
160 50.2 40.2 60.4

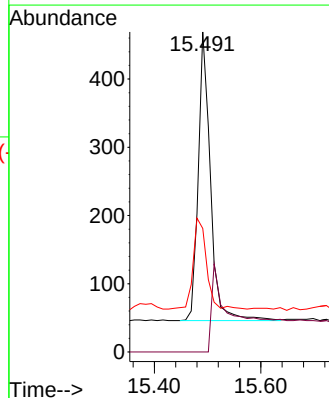
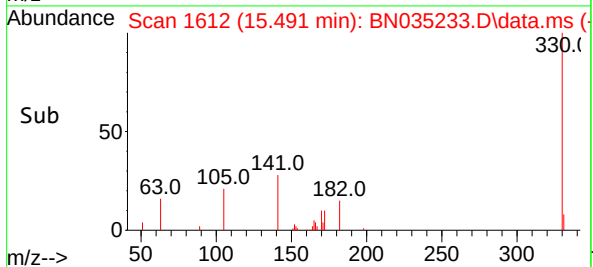
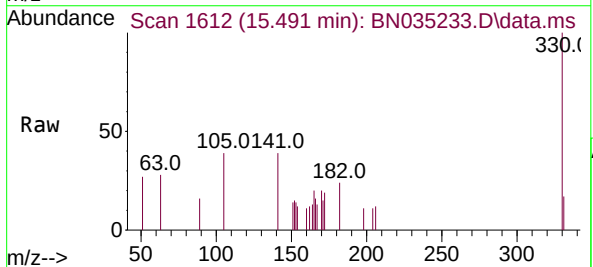
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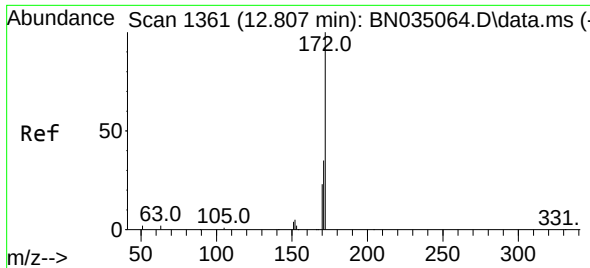
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#14
2,4,6-Tribromophenol
Concen: 0.232 ng
RT: 15.491 min Scan# 1612
Delta R.T. -0.004 min
Lab File: BN035233.D
Acq: 21 Nov 2024 21:49

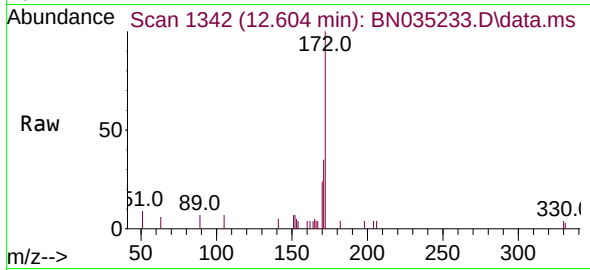
Tgt Ion:330 Resp: 728
Ion Ratio Lower Upper
330 100
332 0.0 76.9 115.3#
141 34.3 29.6 44.4





#15
2-Fluorobiphenyl
Concen: 0.083 ng
RT: 12.604 min Scan# 1714
Delta R.T. -0.004 min
Lab File: BN035233.D
Acq: 21 Nov 2024 21:49

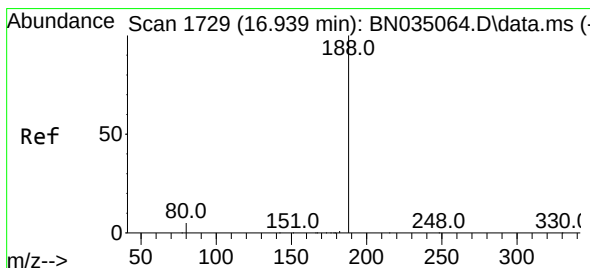
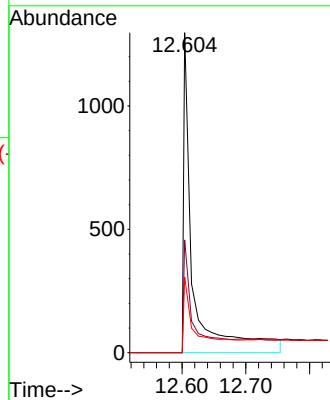
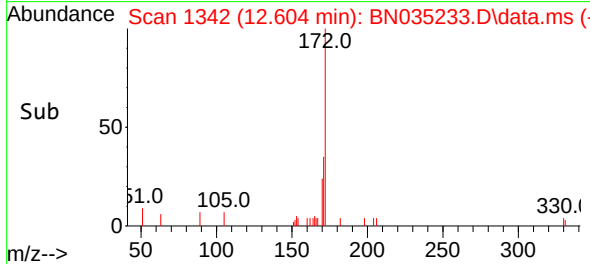
Instrument :
BNA_N
ClientSampleId :
BPOW6-8-20241119



Tgt Ion:172 Resp: 146
Ion Ratio Lower Upper
172 100
171 35.2 28.2 42.4
170 23.7 19.0 28.6

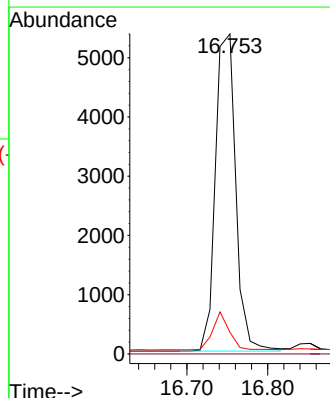
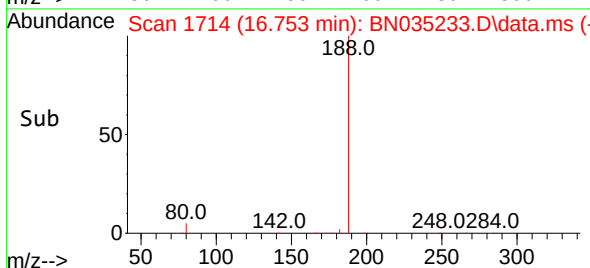
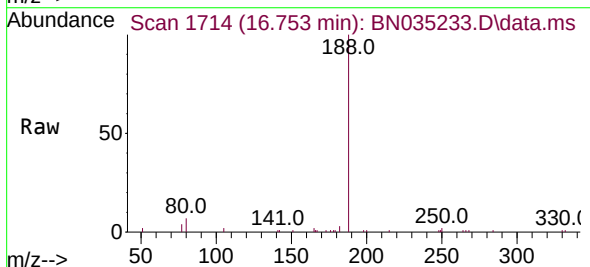
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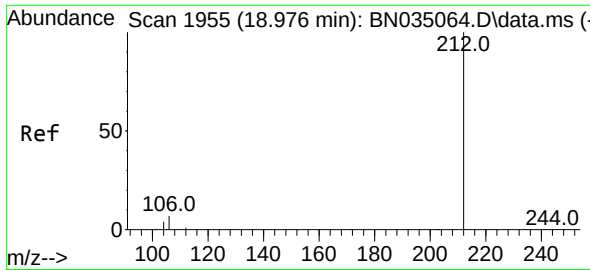
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.753 min Scan# 1714
Delta R.T. 0.007 min
Lab File: BN035233.D
Acq: 21 Nov 2024 21:49

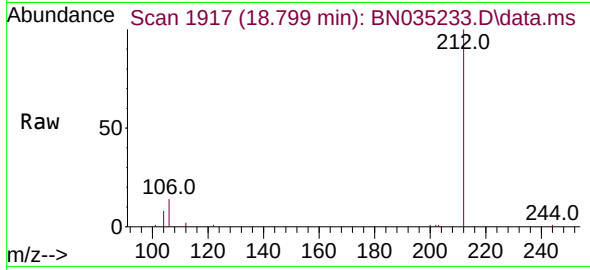
Tgt Ion:188 Resp: 9377
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 6.7 4.3 6.5





#27
Fluoranthene-d10
Concen: 0.338 ng
RT: 18.799 min Scan# 1917
Delta R.T. -0.007 min
Lab File: BN035233.D
Acq: 21 Nov 2024 21:49

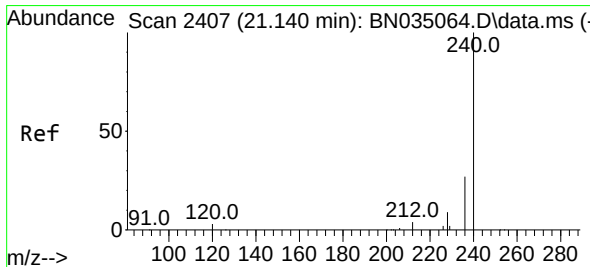
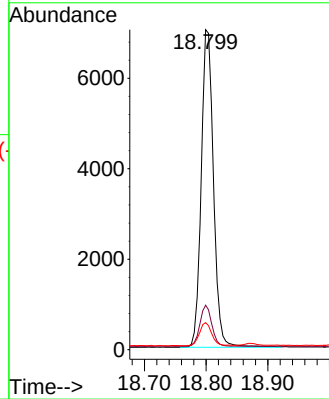
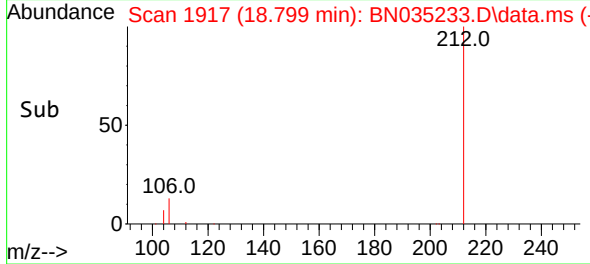
Instrument :
BNA_N
ClientSampleId :
BPOW6-8-20241119



Tgt Ion:212 Resp: 971
Ion Ratio Lower Upper
212 100
106 12.6 6.0 9.0#
104 7.3 3.5 5.3#

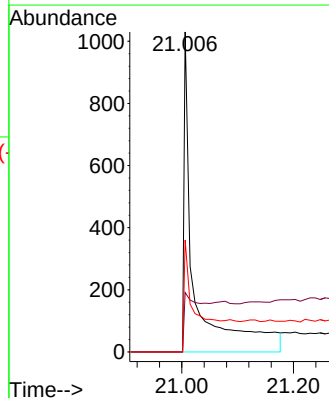
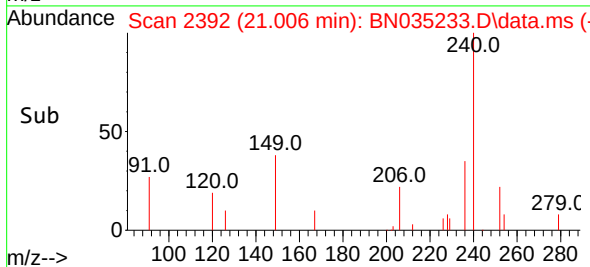
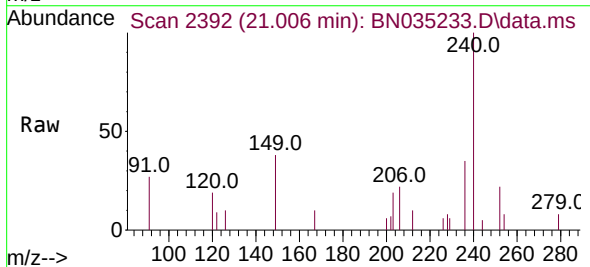
Manual Integrations
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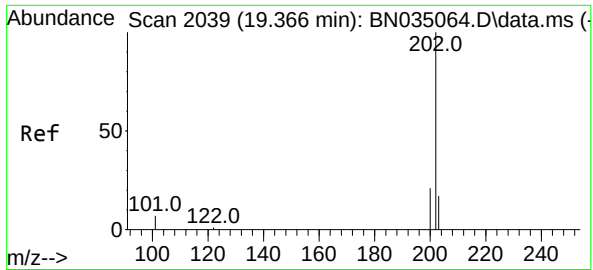
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.006 min Scan# 2392
Delta R.T. -0.002 min
Lab File: BN035233.D
Acq: 21 Nov 2024 21:49

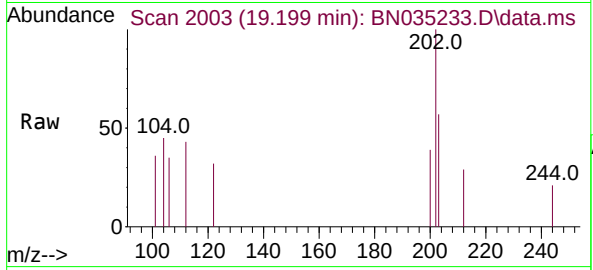
Tgt Ion:240 Resp: 1394
Ion Ratio Lower Upper
240 100
120 18.5 3.8 5.6#
236 35.0 22.2 33.2#





#30
Pyrene
Concen: 0.056 ng
RT: 19.199 min Scan# 2003
Delta R.T. -0.007 min
Lab File: BN035233.D
Acq: 21 Nov 2024 21:49

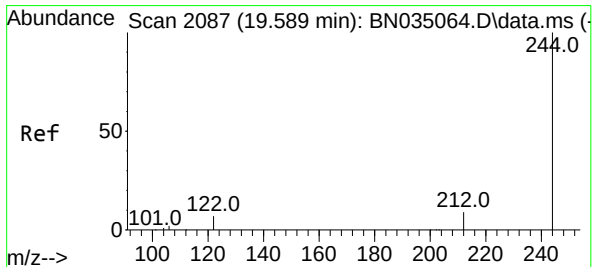
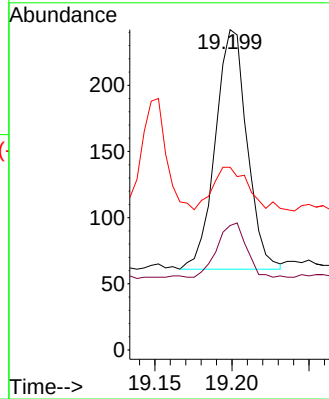
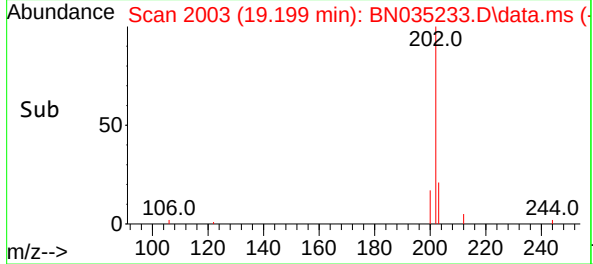
Instrument :
BNA_N
ClientSampleId :
BPOW6-8-20241119



Tgt Ion:202 Resp: 259
Ion Ratio Lower Upper
202 100
200 20.8 16.7 25.1
203 23.9 14.2 21.4

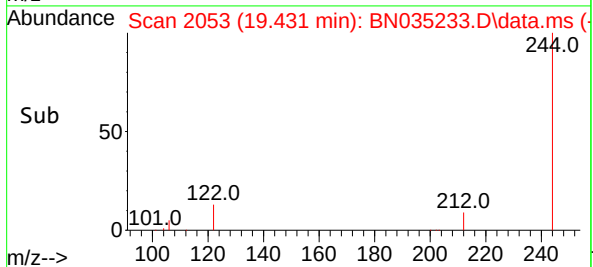
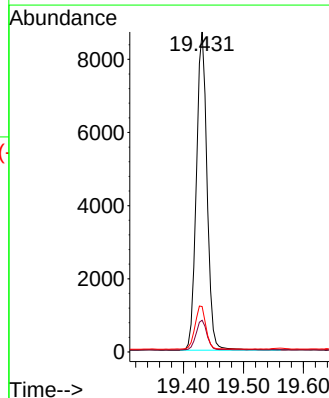
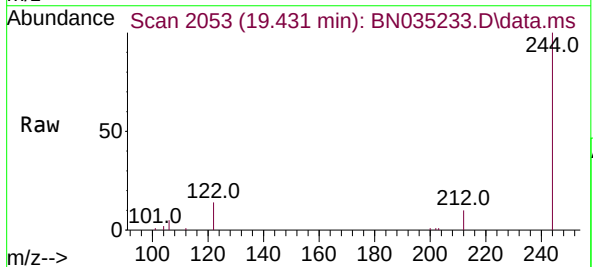
Manual Integrations
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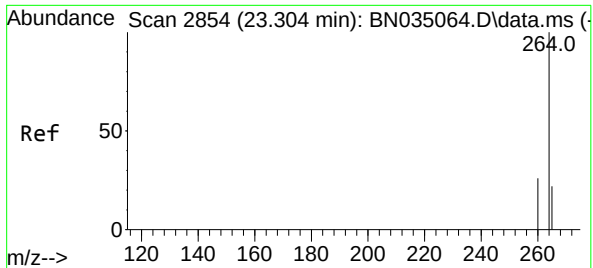
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#31
Terphenyl-d14
Concen: 3.677 ng
RT: 19.431 min Scan# 2053
Delta R.T. -0.007 min
Lab File: BN035233.D
Acq: 21 Nov 2024 21:49

Tgt Ion:244 Resp: 10756
Ion Ratio Lower Upper
244 100
212 9.9 7.6 11.4
122 14.2 6.1 9.1





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.096 min Scan# 21

Delta R.T. -0.008 min

Lab File: BN035233.D

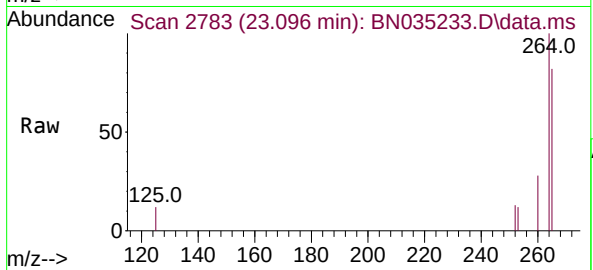
Acq: 21 Nov 2024 21:49

Instrument :

BNA_N

ClientSampleId :

BPOW6-8-20241119



Tgt Ion:264 Resp: 5760

Ion Ratio Lower Upper

264 100

260 28.2 20.9 31.3

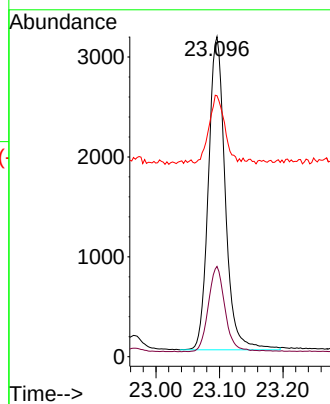
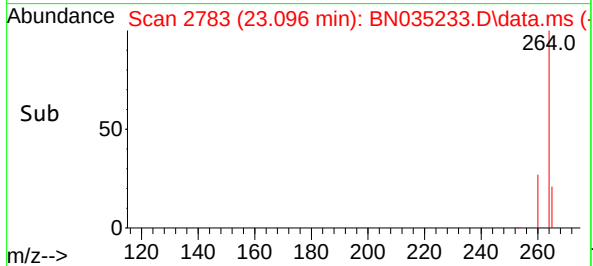
265 81.6 35.4 53.2

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Supervised By :mohammad ahmed 11/22/2024



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	11/19/24
Project:	CTO WE13	Date Received:	11/20/24
Client Sample ID:	RB01-20241119	SDG No.:	P4934
Lab Sample ID:	P4934-11	Matrix:	Water
Analytical Method:	SW8270SIM	% 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 :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035232.D	1	11/21/24 08:27	11/21/24 21:12	PB165150

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.29		30 - 150		72%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.35		30 - 150		88%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.20	*	55 - 111		49%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.063	*	53 - 106		16%	SPK: 0.4
1718-51-0	Terphenyl-d14	4.19	*	58 - 132		1048%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2950		7.322			
1146-65-2	Naphthalene-d8	7120		10.073			
15067-26-2	Acenaphthene-d10	4660		13.976			
1517-22-2	Phenanthrene-d10	9460		16.746			
1719-03-5	Chrysene-d12	1180		21.008			
1520-96-3	Perylene-d12	6120		23.095			

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\BN112124\
 Data File : BN035232.D
 Acq On : 21 Nov 2024 21:12
 Operator : RC/JU
 Sample : P4934-11
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RB01-20241119

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 Supervised By :mohammad ahmed 11/22/2024

Quant Time: Nov 21 23:06:07 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 21 14:00:03 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.322	152	2945	0.400	ng	0.00
7) Naphthalene-d8	10.073	136	7124	0.400	ng	# 0.00
13) Acenaphthene-d10	13.976	164	4659	0.400	ng	-0.01
19) Phenanthrene-d10	16.746	188	9464	0.400	ng	# 0.00
29) Chrysene-d12	21.008	240	1183	0.400	ng	# 0.00
35) Perylene-d12	23.095	264	6123	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.975	112	880	0.118	ng	0.00
5) Phenol-d6	6.528	99	602	0.064	ng	0.00
8) Nitrobenzene-d5	8.461	82	1221m	0.197	ng	0.00
11) 2-Methylnaphthalene-d10	11.674	152	3635	0.286	ng	0.00
14) 2,4,6-Tribromophenol	15.494	330	812	0.242	ng	0.00
15) 2-Fluorobiphenyl	12.608	172	1183	0.063	ng	0.00
27) Fluoranthene-d10	18.801	212	10201	0.352	ng	0.00
31) Terphenyl-d14	19.429	244	10405	4.192	ng	0.00

Target Compounds Qvalue

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

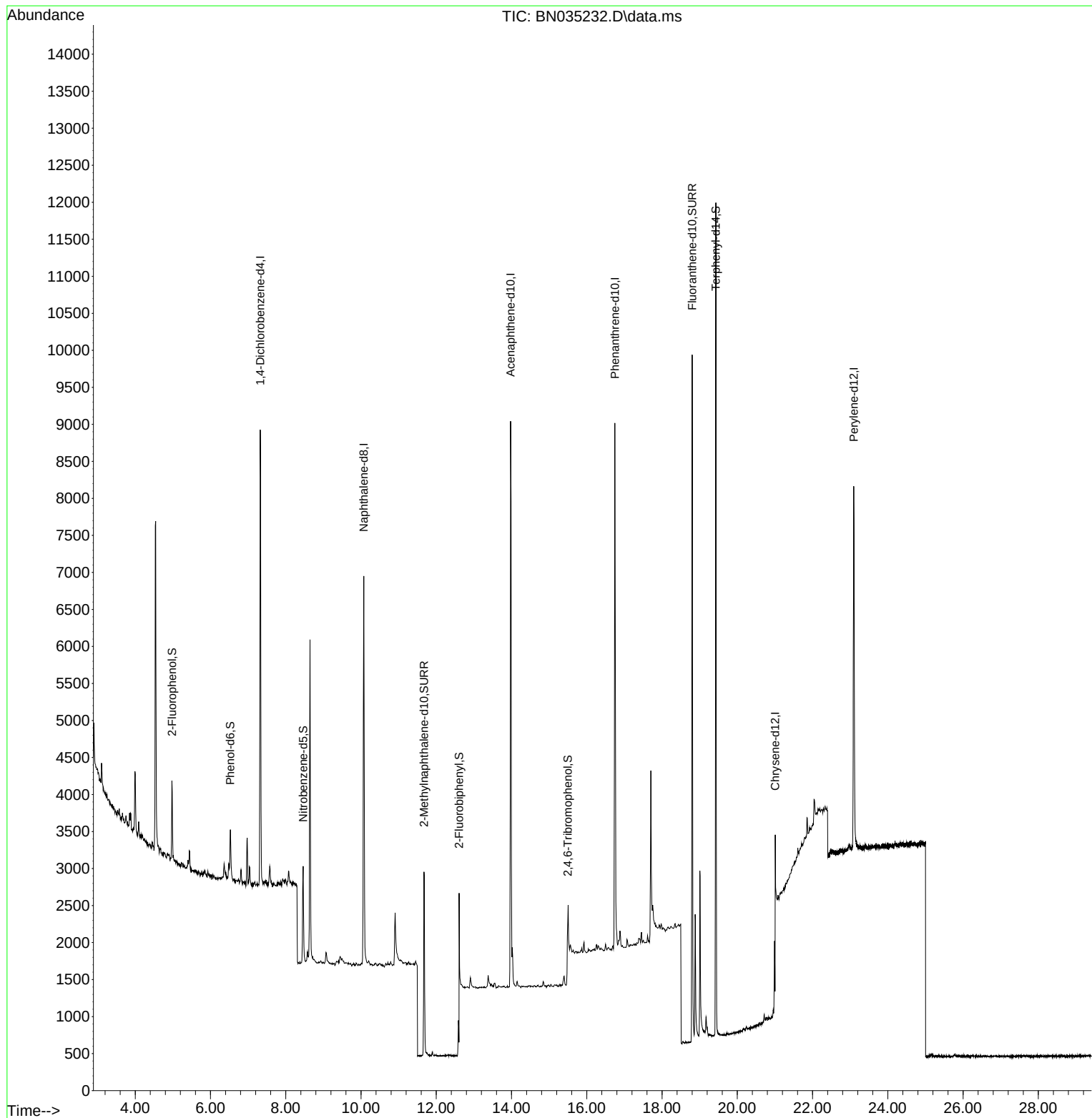
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Data File : BN035232.D
Acq On : 21 Nov 2024 21:12
Operator : RC/JU
Sample : P4934-11
Misc :
ALS Vial : 15 Sample Multiplier: 1

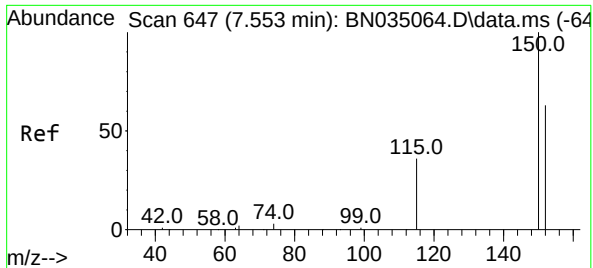
Instrument :
BNA_N
ClientSampleId :
RB01-20241119

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Supervised By :mohammad ahmed 11/22/2024

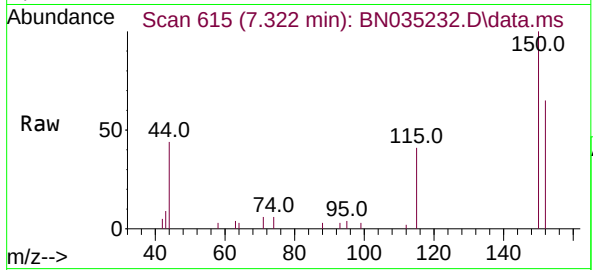
Quant Time: Nov 21 23:06:07 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 14:00:03 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.322 min Scan# 615
Delta R.T. -0.007 min
Lab File: BN035232.D
Acq: 21 Nov 2024 21:12

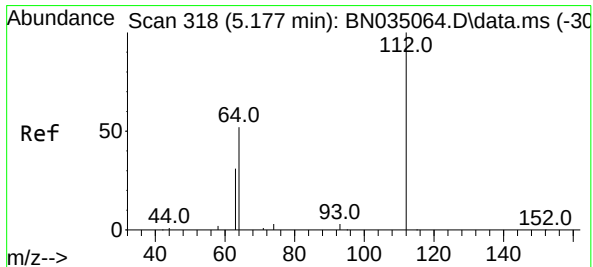
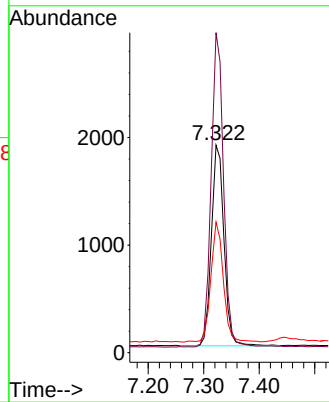
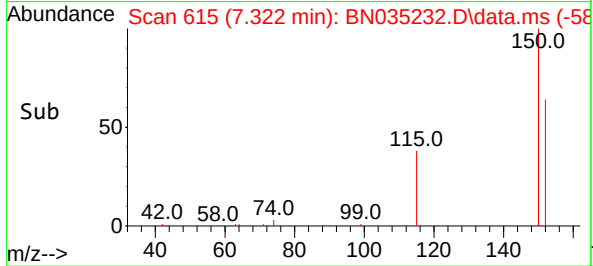
Instrument :
BNA_N
ClientSampleId :
RB01-20241119



Tgt Ion:152 Resp: 294.5
Ion Ratio Lower Upper
152 100
150 154.2 124.5 186.7
115 62.9 47.8 71.6

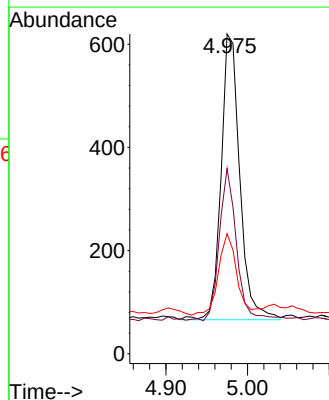
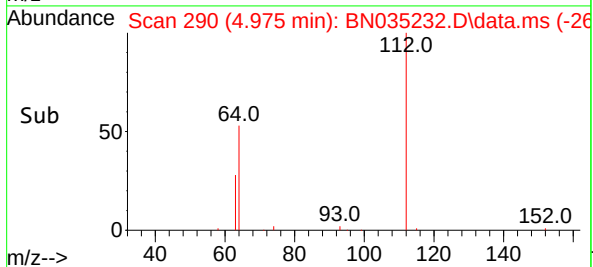
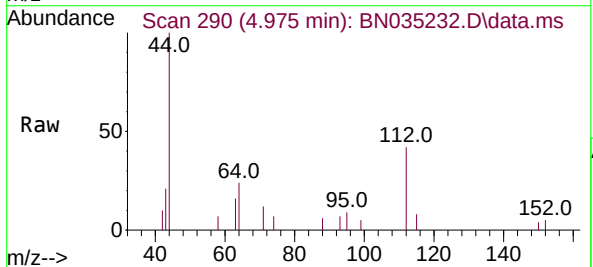
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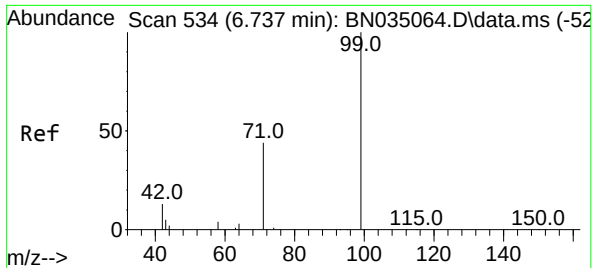
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#4
2-Fluorophenol
Concen: 0.118 ng
RT: 4.975 min Scan# 290
Delta R.T. -0.007 min
Lab File: BN035232.D
Acq: 21 Nov 2024 21:12

Tgt Ion:112 Resp: 880
Ion Ratio Lower Upper
112 100
64 48.5 39.7 59.5
63 28.0 23.0 34.4





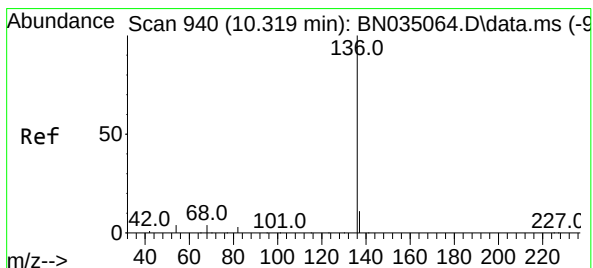
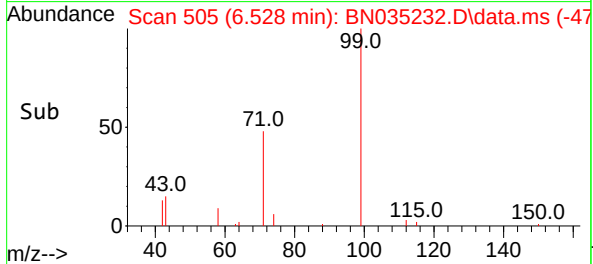
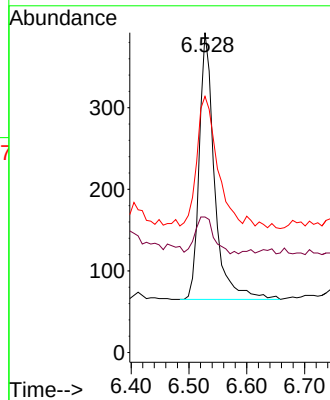
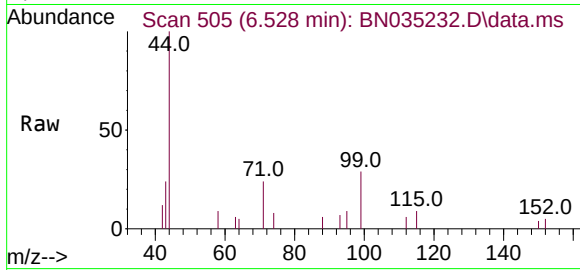
#5
Phenol-d6
Concen: 0.064 ng
RT: 6.528 min Scan# 505
Delta R.T. -0.000 min
Lab File: BN035232.D
Acq: 21 Nov 2024 21:12

Instrument :
BNA_N
ClientSampleId :
RB01-20241119

Tgt Ion: 99 Resp: 602
Ion Ratio Lower Upper
99 100
42 16.9 11.4 17.0
71 63.8 34.6 51.8

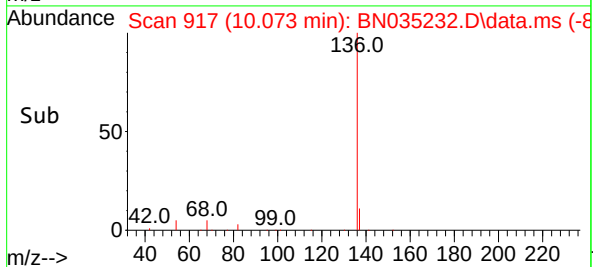
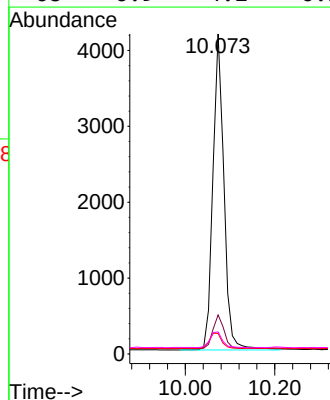
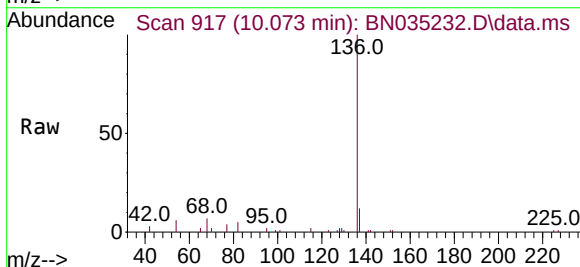
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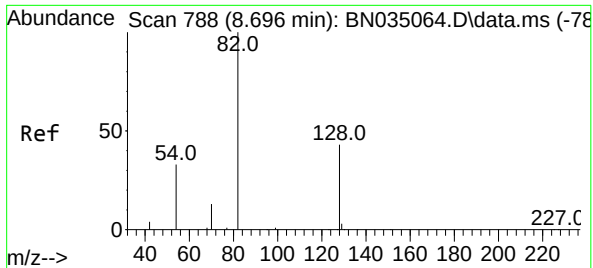
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.073 min Scan# 917
Delta R.T. -0.000 min
Lab File: BN035232.D
Acq: 21 Nov 2024 21:12

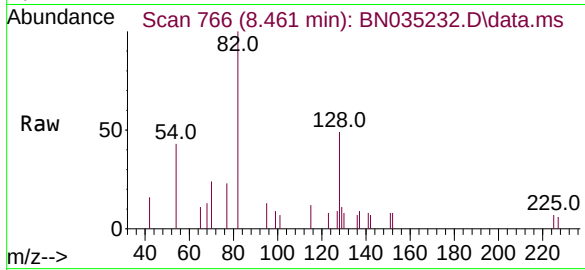
Tgt Ion:136 Resp: 7124
Ion Ratio Lower Upper
136 100
137 12.2 9.8 14.8
54 6.4 4.0 6.0#
68 6.9 4.2 6.2#





#8
Nitrobenzene-d5
Concen: 0.197 ng m
RT: 8.461 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN035232.D
Acq: 21 Nov 2024 21:12

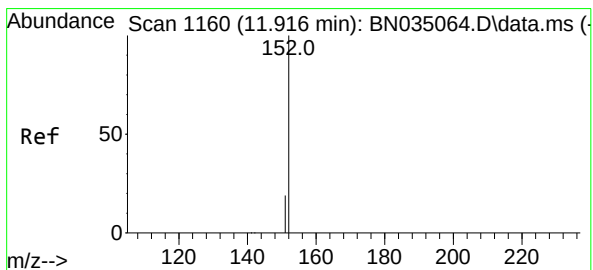
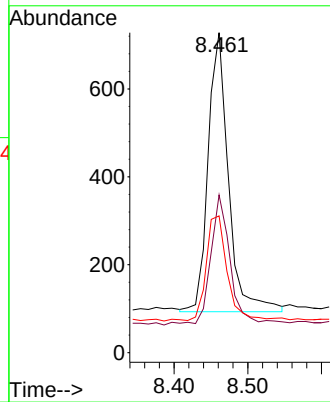
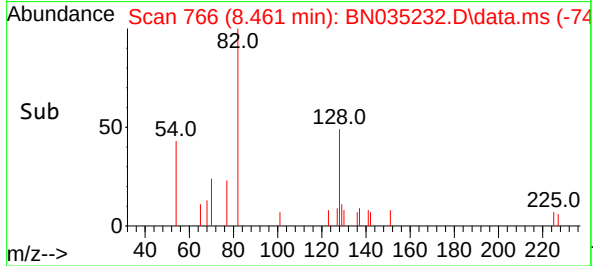
Instrument :
BNA_N
ClientSampleId :
RB01-20241119



Tgt Ion: 82 Resp: 122
Ion Ratio Lower Upper
82 100
128 49.3 36.5 54.7
54 42.7 28.7 43.1

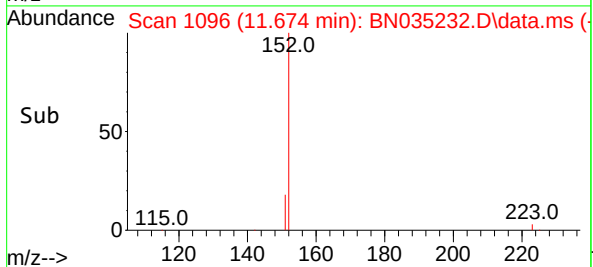
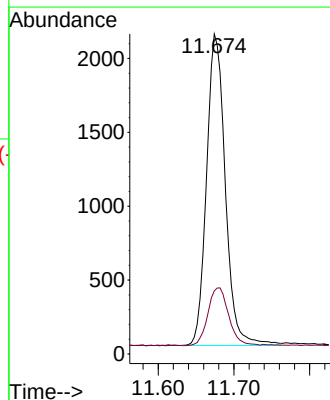
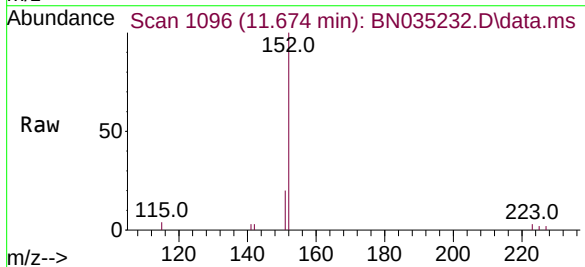
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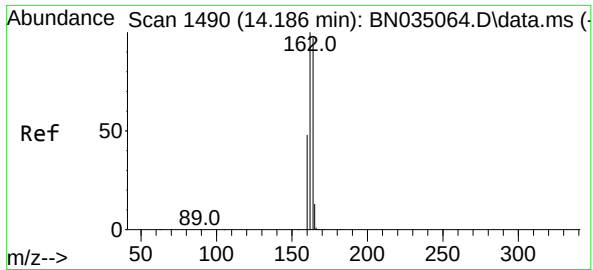
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#11
2-Methylnaphthalene-d10
Concen: 0.286 ng
RT: 11.674 min Scan# 1096
Delta R.T. -0.004 min
Lab File: BN035232.D
Acq: 21 Nov 2024 21:12

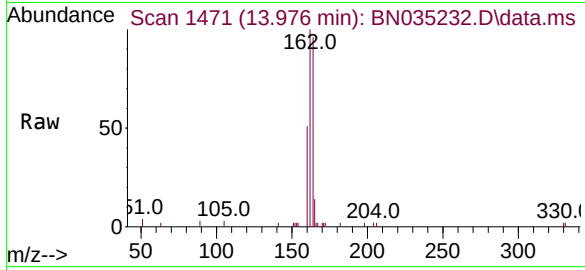
Tgt Ion:152 Resp: 3635
Ion Ratio Lower Upper
152 100
151 20.6 16.2 24.4





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.976 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035232.D
Acq: 21 Nov 2024 21:12

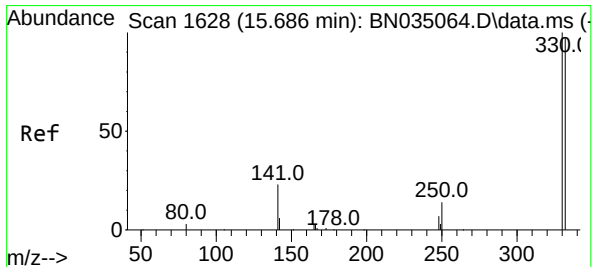
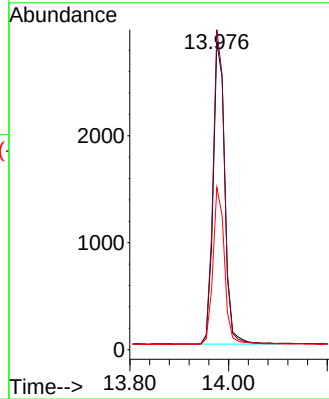
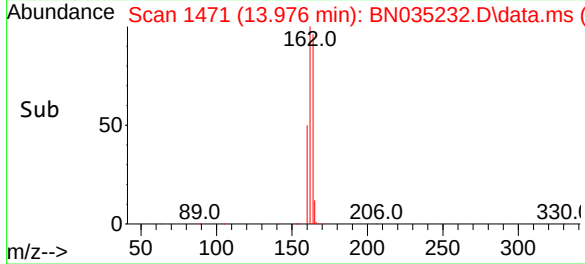
Instrument :
BNA_N
ClientSampleId :
RB01-20241119



Tgt Ion:164 Resp: 4659
Ion Ratio Lower Upper
164 100
162 103.9 82.2 123.2
160 52.7 40.2 60.4

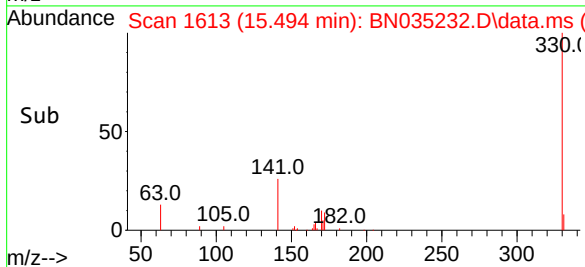
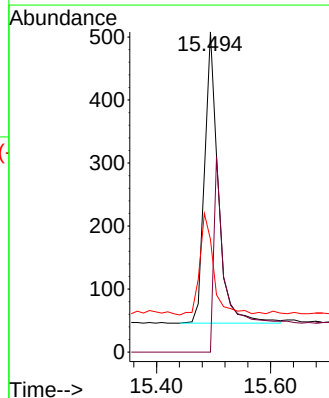
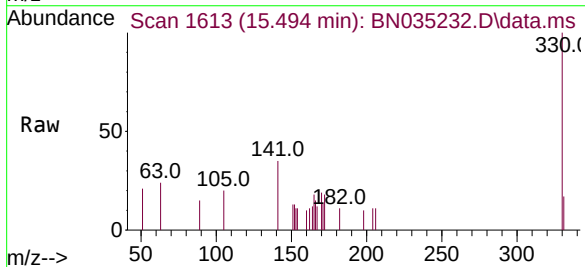
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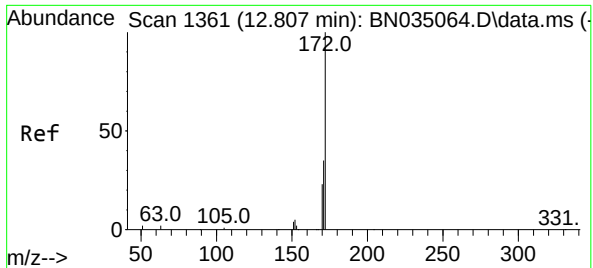
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#14
2,4,6-Tribromophenol
Concen: 0.242 ng
RT: 15.494 min Scan# 1613
Delta R.T. -0.000 min
Lab File: BN035232.D
Acq: 21 Nov 2024 21:12

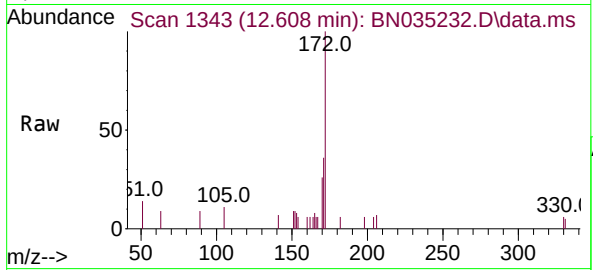
Tgt Ion:330 Resp: 812
Ion Ratio Lower Upper
330 100
332 0.0 76.9 115.3#
141 36.2 29.6 44.4





#15
2-Fluorobiphenyl
Concen: 0.063 ng
RT: 12.608 min Scan# 111
Delta R.T. -0.000 min
Lab File: BN035232.D
Acq: 21 Nov 2024 21:12

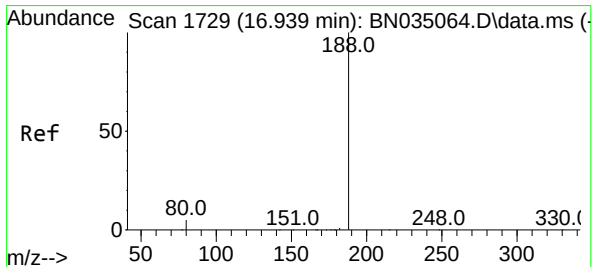
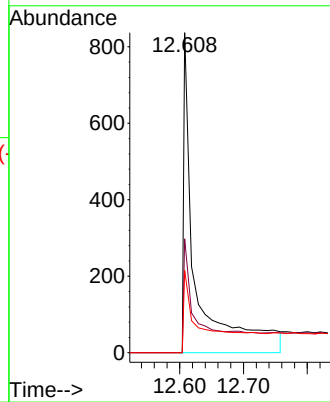
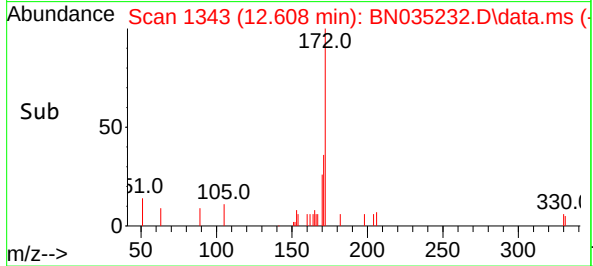
Instrument :
BNA_N
ClientSampleId :
RB01-20241119



Tgt Ion:172 Resp: 118
Ion Ratio Lower Upper
172 100
171 35.6 28.2 42.4
170 25.7 19.0 28.6

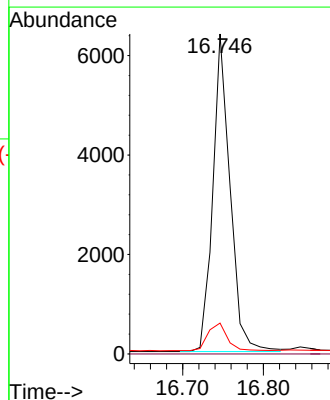
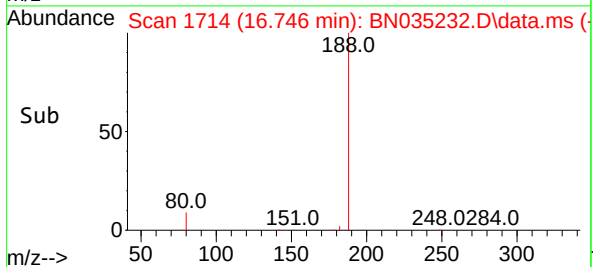
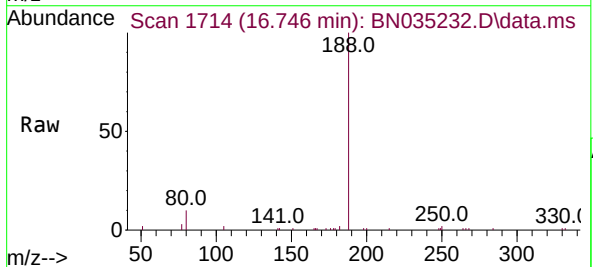
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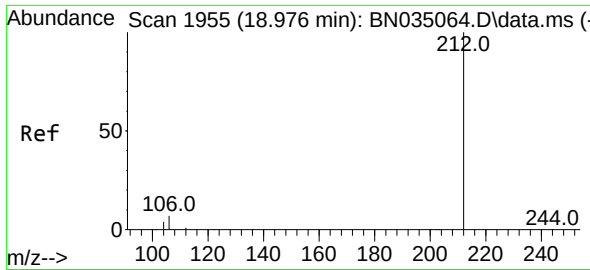
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.746 min Scan# 1714
Delta R.T. -0.000 min
Lab File: BN035232.D
Acq: 21 Nov 2024 21:12

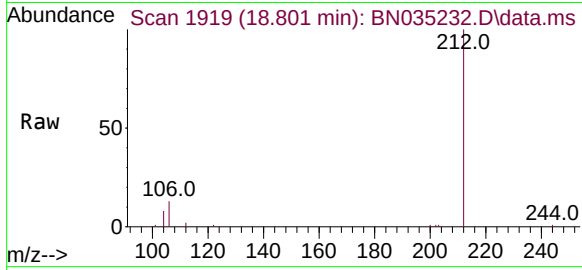
Tgt Ion:188 Resp: 9464
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 9.6 4.3 6.5





#27
Fluoranthene-d10
Concen: 0.352 ng
RT: 18.801 min Scan# 1919
Delta R.T. -0.005 min
Lab File: BN035232.D
Acq: 21 Nov 2024 21:12

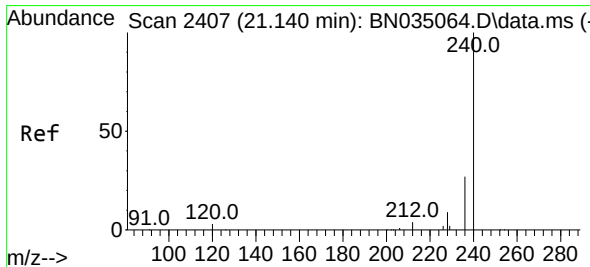
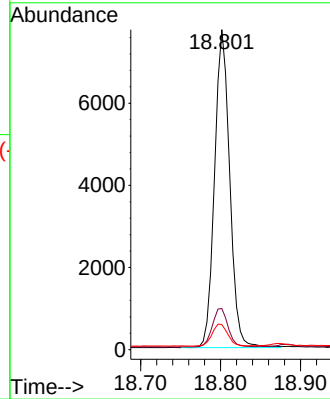
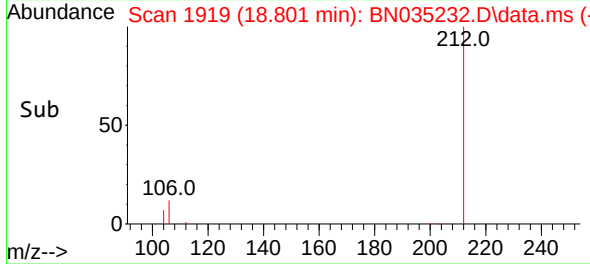
Instrument :
BNA_N
ClientSampleId :
RB01-20241119



Tgt Ion:212 Resp: 1020
Ion Ratio Lower Upper
212 100
106 12.7 6.0 9.0#
104 7.2 3.5 5.3#

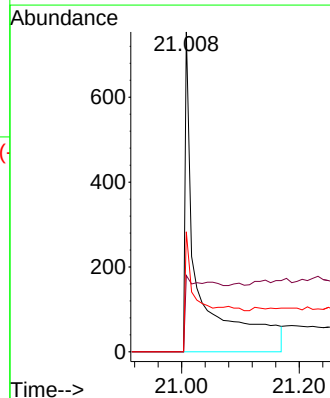
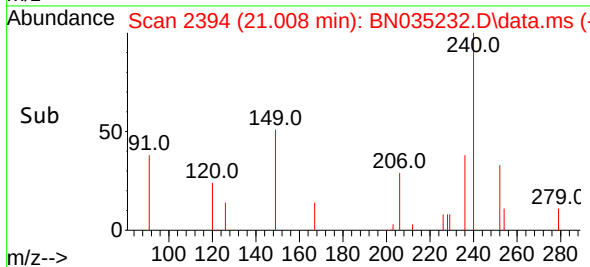
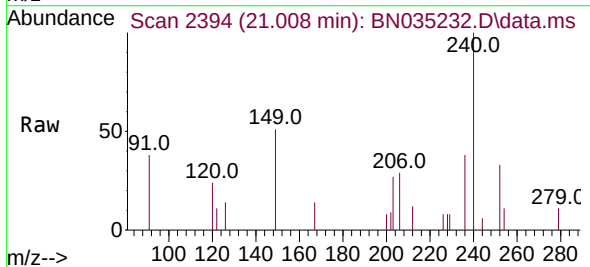
Manual Integrations
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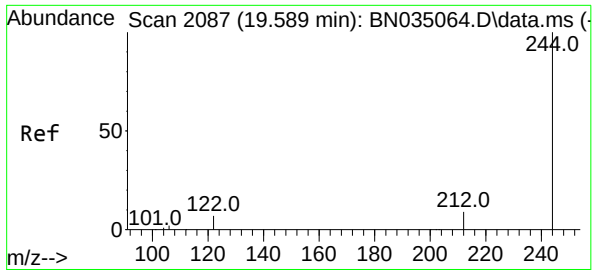
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.008 min Scan# 2394
Delta R.T. -0.000 min
Lab File: BN035232.D
Acq: 21 Nov 2024 21:12

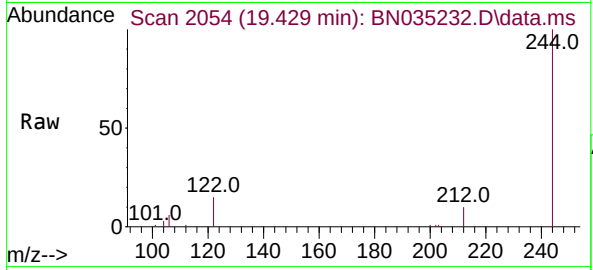
Tgt Ion:240 Resp: 1183
Ion Ratio Lower Upper
240 100
120 23.9 3.8 5.6#
236 37.5 22.2 33.2#





#31
Terphenyl-d14
Concen: 4.192 ng
RT: 19.429 min Scan# 2087
Delta R.T. -0.009 min
Lab File: BN035232.D
Acq: 21 Nov 2024 21:12

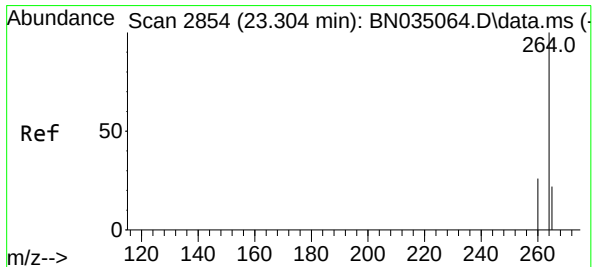
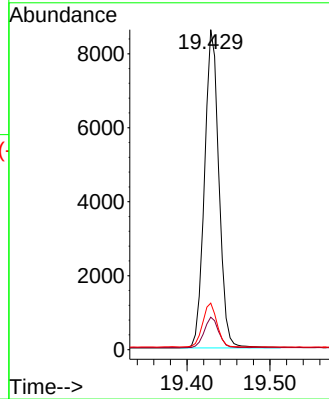
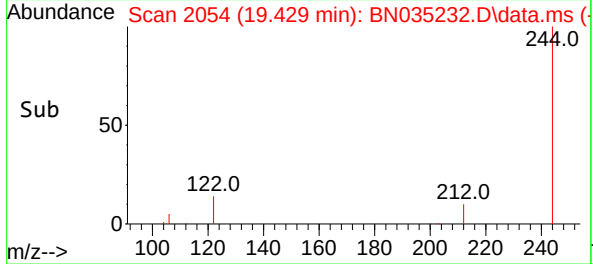
Instrument :
BNA_N
ClientSampleId :
RB01-20241119



Tgt Ion:244 Resp: 1040
Ion Ratio Lower Upper
244 100
212 10.1 7.6 11.4
122 14.5 6.1 9.1

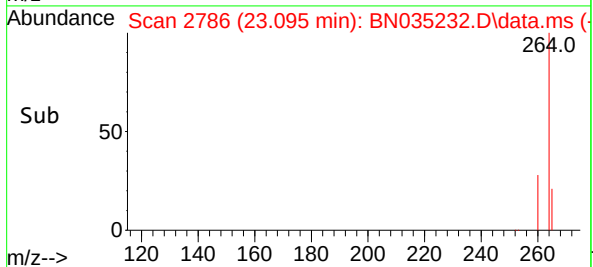
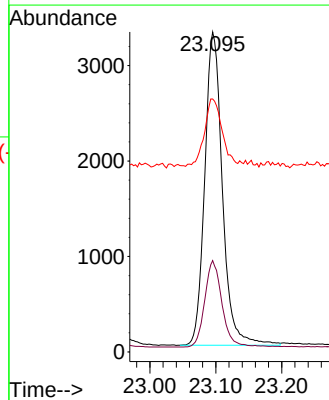
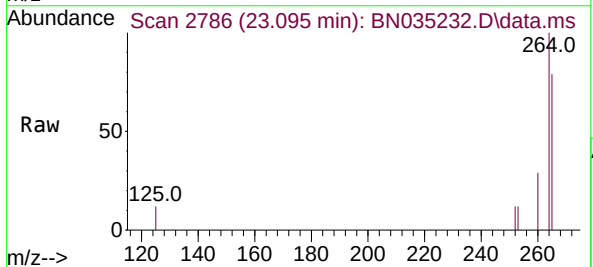
Manual Integrations
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Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.095 min Scan# 2786
Delta R.T. -0.009 min
Lab File: BN035232.D
Acq: 21 Nov 2024 21:12

Tgt Ion:264 Resp: 6123
Ion Ratio Lower Upper
264 100
260 28.5 20.9 31.3
265 79.1 35.4 53.2



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	11/19/24
Project:	CTO WE13	Date Received:	11/20/24
Client Sample ID:	DUP02-20241119	SDG No.:	P4934
Lab Sample ID:	P4934-12	Matrix:	Water
Analytical Method:	SW8270SIM	% 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 :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035234.D	1	11/21/24 08:27	11/21/24 22:25	PB165150

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.27		30 - 150		68%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.36		30 - 150		90%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.19	*	55 - 111		47%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.063	*	53 - 106		16%	SPK: 0.4
1718-51-0	Terphenyl-d14	4.65	*	58 - 132		1163%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2770		7.322			
1146-65-2	Naphthalene-d8	6430		10.073			
15067-26-2	Acenaphthene-d10	3950		13.976			
1517-22-2	Phenanthrene-d10	8350		16.746			
1719-03-5	Chrysene-d12	946		21.008			
1520-96-3	Perylene-d12	7190		23.095			

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\BN112124\
 Data File : BN035234.D
 Acq On : 21 Nov 2024 22:25
 Operator : RC/JU
 Sample : P4934-12
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 DUP02-20241119

Manual Integrations
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Reviewed By :Yogesh Patel 11/22/2024
 Supervised By :mohammad ahmed 11/22/2024

Quant Time: Nov 21 23:06:32 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 21 14:00:03 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.322	152	2771	0.400	ng	0.00
7) Naphthalene-d8	10.073	136	6431	0.400	ng	# 0.00
13) Acenaphthene-d10	13.976	164	3947	0.400	ng	-0.01
19) Phenanthrene-d10	16.746	188	8351	0.400	ng	# 0.00
29) Chrysene-d12	21.008	240	946	0.400	ng	# 0.00
35) Perylene-d12	23.095	264	7194	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.975	112	860	0.122	ng	0.00
5) Phenol-d6	6.528	99	592	0.067	ng	0.00
8) Nitrobenzene-d5	8.461	82	1060m	0.189	ng	0.00
11) 2-Methylnaphthalene-d10	11.674	152	3096	0.270	ng	0.00
14) 2,4,6-Tribromophenol	15.494	330	720	0.253	ng	0.00
15) 2-Fluorobiphenyl	12.608	172	1009	0.063	ng	0.00
27) Fluoranthene-d10	18.801	212	9165	0.358	ng	0.00
31) Terphenyl-d14	19.429	244	9237	4.653	ng	0.00
Target Compounds						Qvalue
30) Pyrene	19.201	202	225	0.071	ng	# 95

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

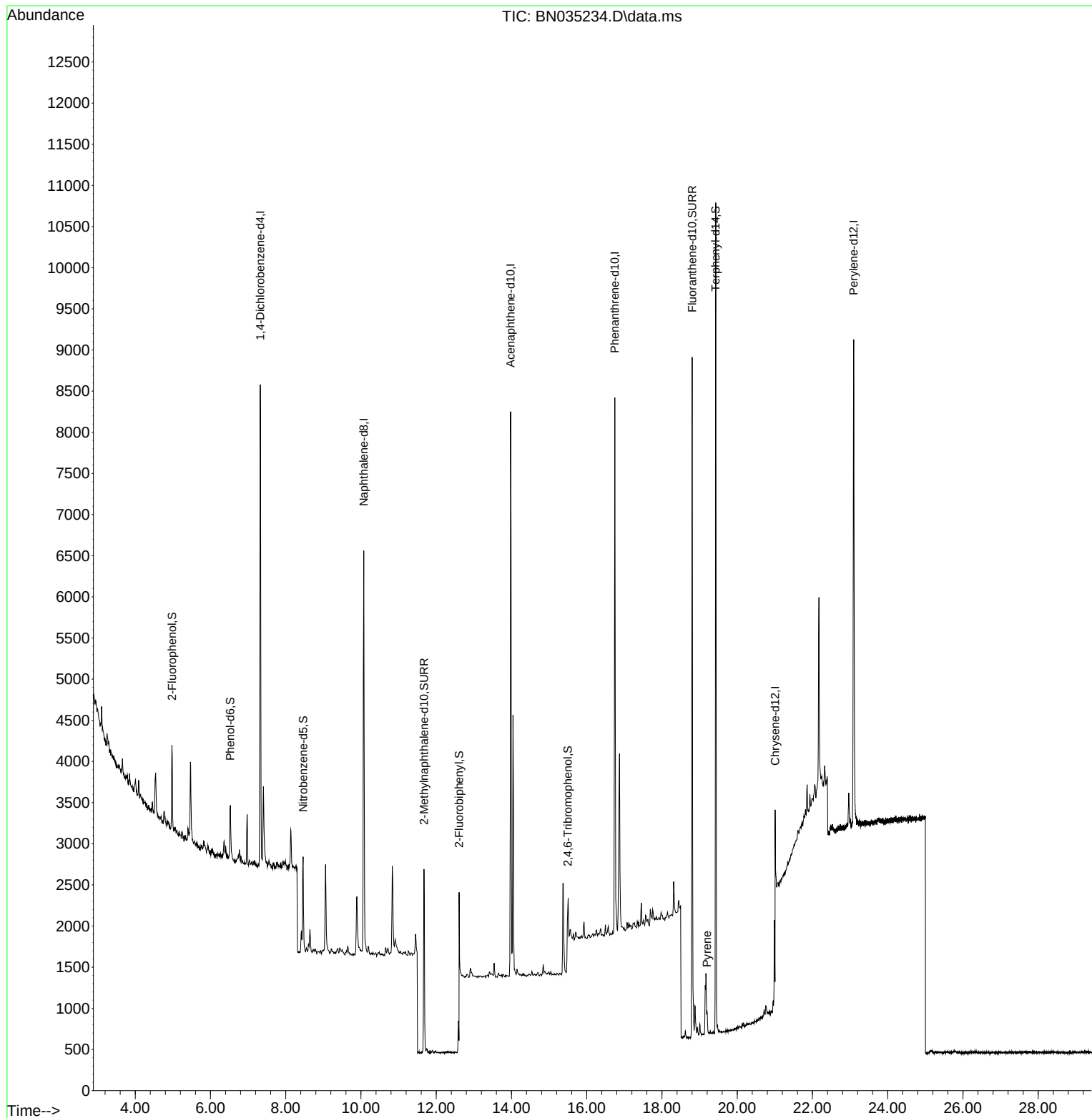
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Data File : BN035234.D
Acq On : 21 Nov 2024 22:25
Operator : RC/JU
Sample : P4934-12
Misc :
ALS Vial : 17 Sample Multiplier: 1

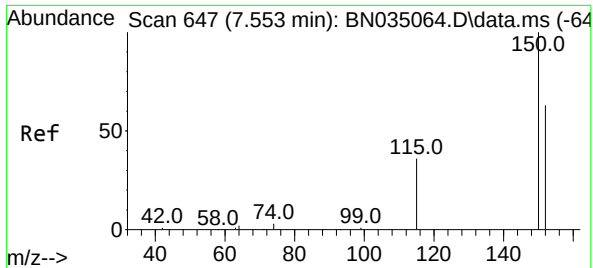
Instrument :
BNA_N
ClientSampleId :
DUP02-20241119

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024

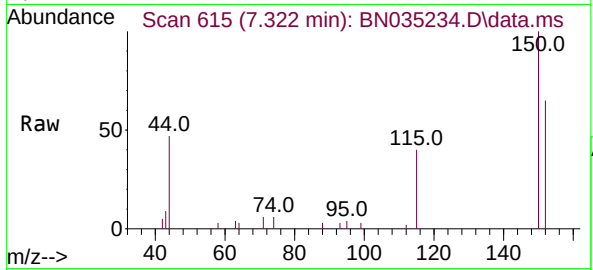
Quant Time: Nov 21 23:06:32 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 14:00:03 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.322 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN035234.D
Acq: 21 Nov 2024 22:25

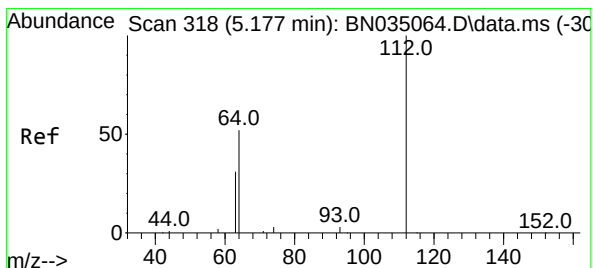
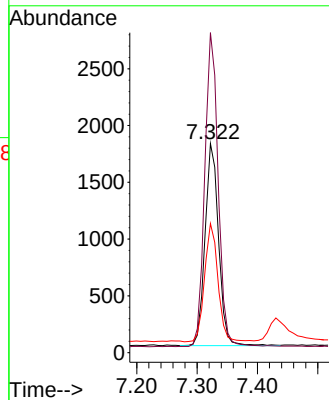
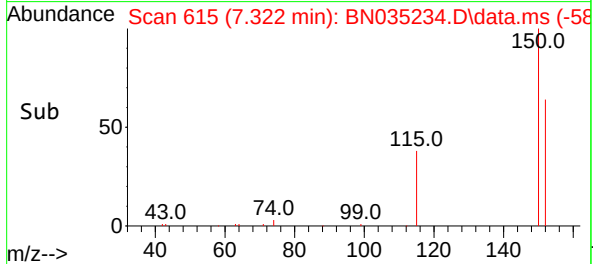
Instrument :
BNA_N
ClientSampleId :
DUP02-20241119



Tgt Ion:152 Resp: 277
Ion Ratio Lower Upper
152 100
150 153.1 124.5 186.7
115 61.8 47.8 71.6

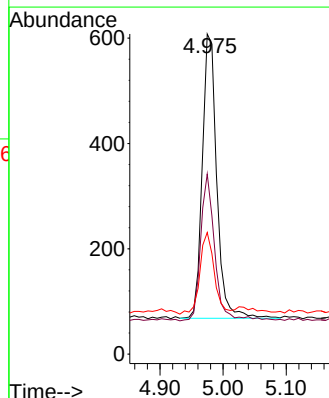
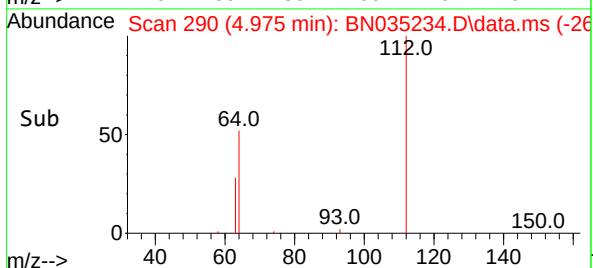
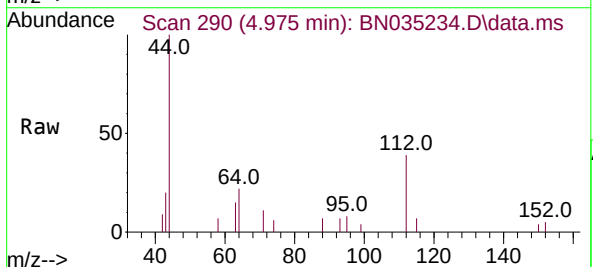
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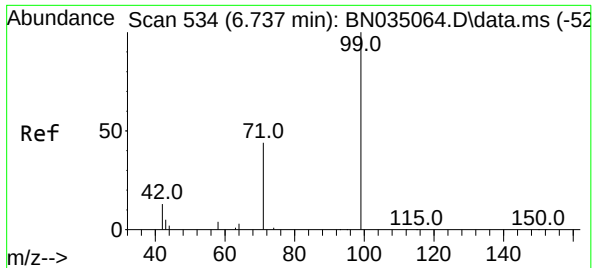
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#4
2-Fluorophenol
Concen: 0.122 ng
RT: 4.975 min Scan# 290
Delta R.T. -0.007 min
Lab File: BN035234.D
Acq: 21 Nov 2024 22:25

Tgt Ion:112 Resp: 860
Ion Ratio Lower Upper
112 100
64 50.8 39.7 59.5
63 28.3 23.0 34.4





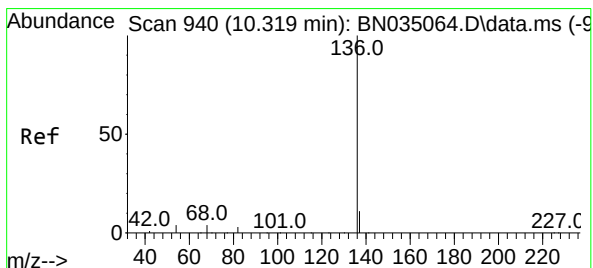
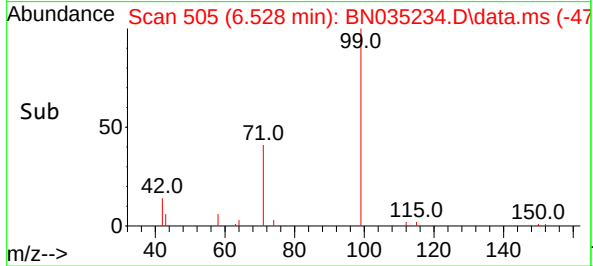
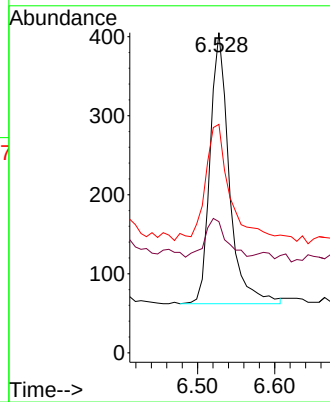
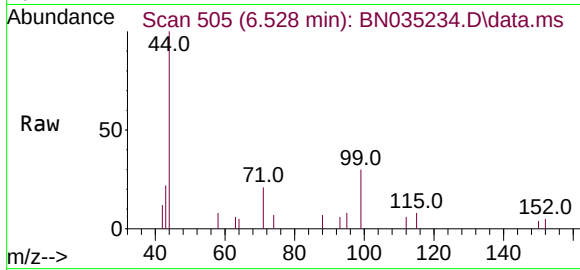
#5
Phenol-d6
Concen: 0.067 ng
RT: 6.528 min Scan# 50
Delta R.T. -0.000 min
Lab File: BN035234.D
Acq: 21 Nov 2024 22:25

Instrument :
BNA_N
ClientSampleId :
DUP02-20241119

Tgt Ion: 99 Resp: 592
Ion Ratio Lower Upper
99 100
42 16.0 11.4 17.0
71 63.2 34.6 51.8

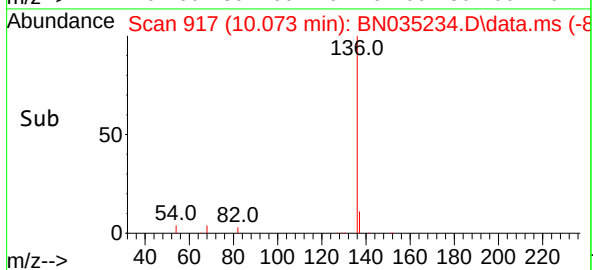
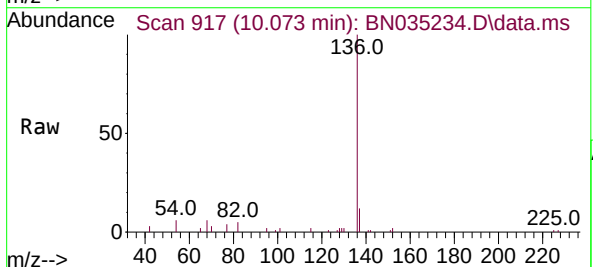
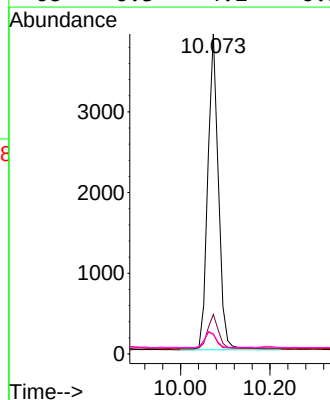
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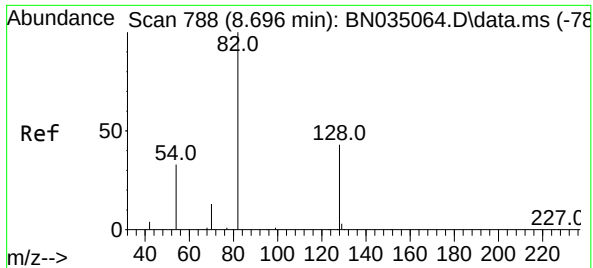
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.073 min Scan# 917
Delta R.T. -0.000 min
Lab File: BN035234.D
Acq: 21 Nov 2024 22:25

Tgt Ion:136 Resp: 6431
Ion Ratio Lower Upper
136 100
137 12.3 9.8 14.8
54 6.1 4.0 6.0#
68 6.3 4.2 6.2#





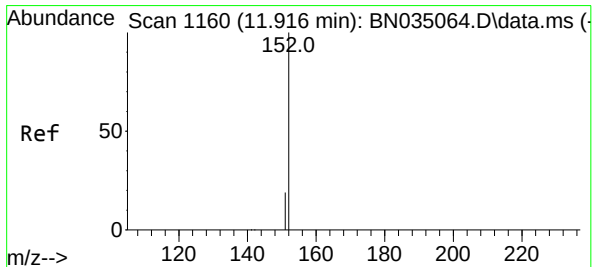
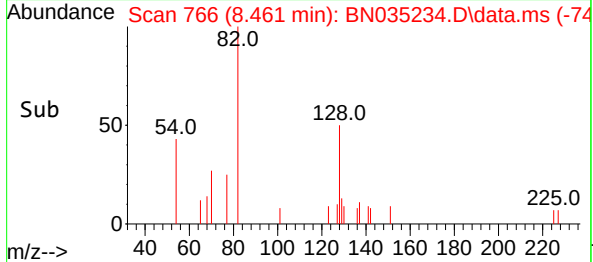
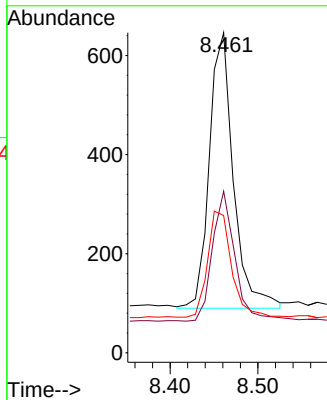
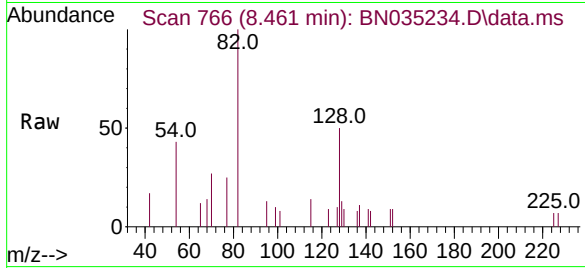
#8
Nitrobenzene-d5
Concen: 0.189 ng m
RT: 8.461 min Scan# 710
Delta R.T. -0.000 min
Lab File: BN035234.D
Acq: 21 Nov 2024 22:25

Instrument :
BNA_N
ClientSampleId :
DUP02-20241119

Tgt Ion: 82 Resp: 1060
Ion Ratio Lower Upper
82 100
128 50.5 36.5 54.7
54 42.9 28.7 43.1

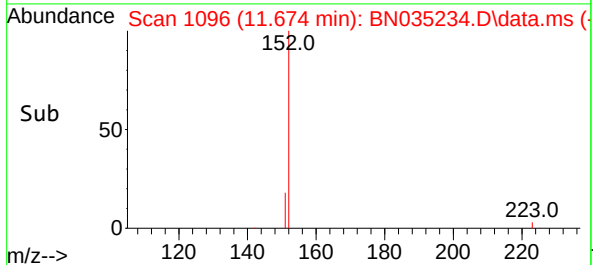
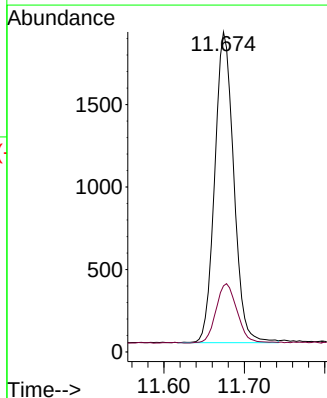
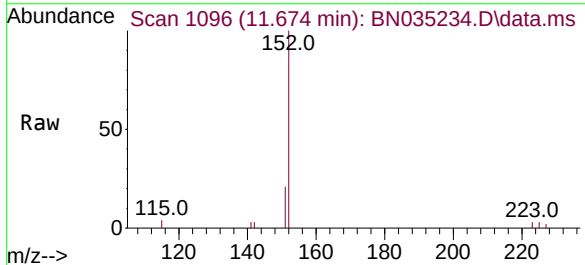
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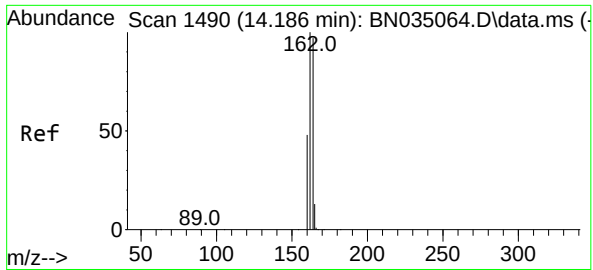
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#11
2-Methylnaphthalene-d10
Concen: 0.270 ng
RT: 11.674 min Scan# 1096
Delta R.T. -0.004 min
Lab File: BN035234.D
Acq: 21 Nov 2024 22:25

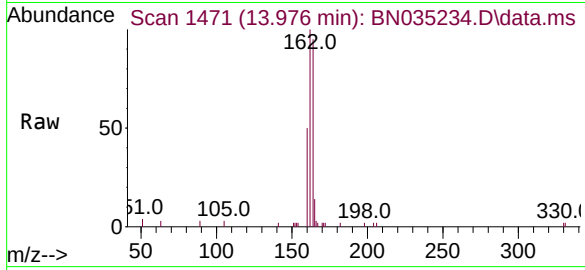
Tgt Ion:152 Resp: 3096
Ion Ratio Lower Upper
152 100
151 21.1 16.2 24.4





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.976 min Scan# 1490
Delta R.T. -0.011 min
Lab File: BN035234.D
Acq: 21 Nov 2024 22:25

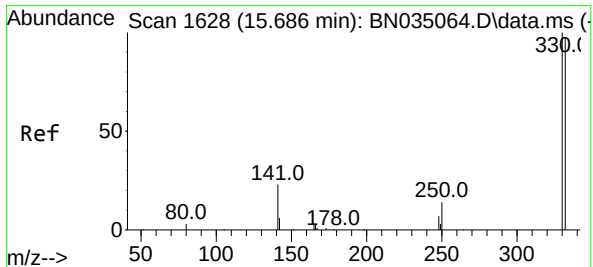
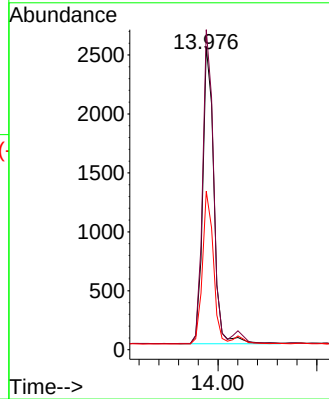
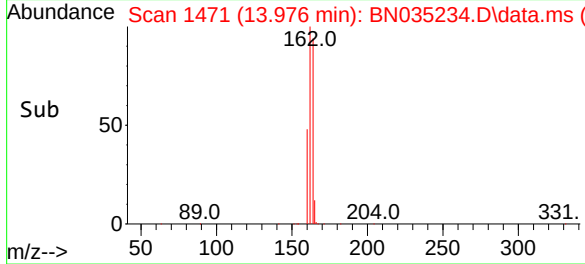
Instrument :
BNA_N
ClientSampleId :
DUP02-20241119



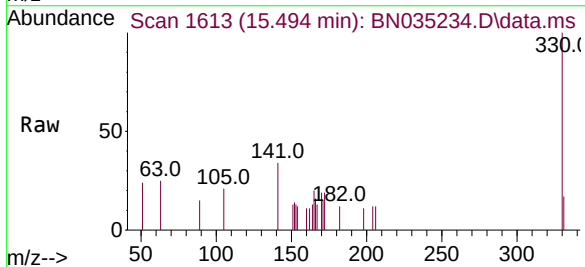
Tgt Ion:164 Resp: 394
Ion Ratio Lower Upper
164 100
162 105.6 82.2 123.2
160 52.3 40.2 60.4

Manual Integrations
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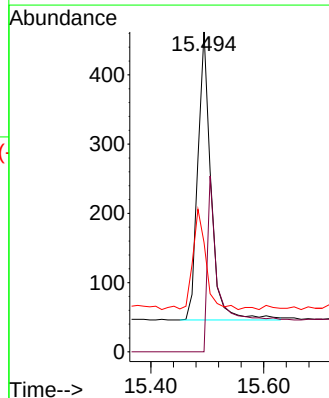
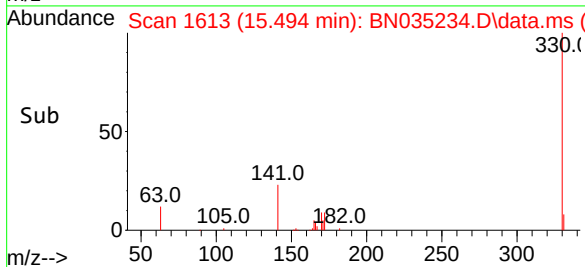
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024

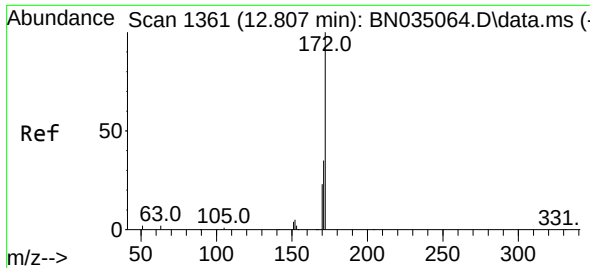


#14
2,4,6-Tribromophenol
Concen: 0.253 ng
RT: 15.494 min Scan# 1613
Delta R.T. -0.000 min
Lab File: BN035234.D
Acq: 21 Nov 2024 22:25



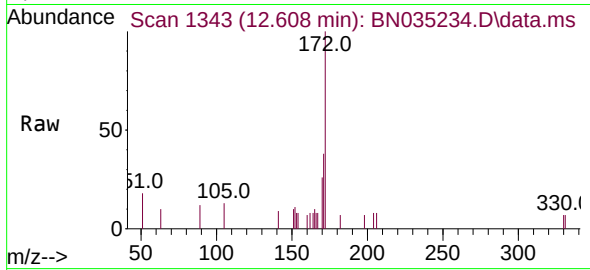
Tgt Ion:330 Resp: 720
Ion Ratio Lower Upper
330 100
332 82.5 76.9 115.3
141 0.0 29.6 44.4#





#15
2-Fluorobiphenyl
Concen: 0.063 ng
RT: 12.608 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN035234.D
Acq: 21 Nov 2024 22:25

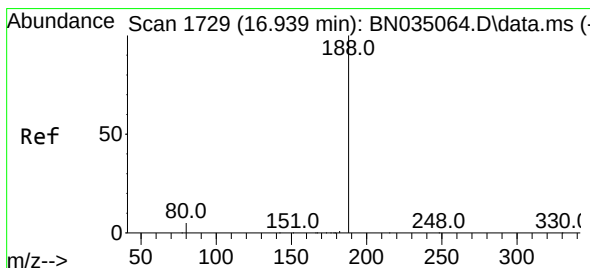
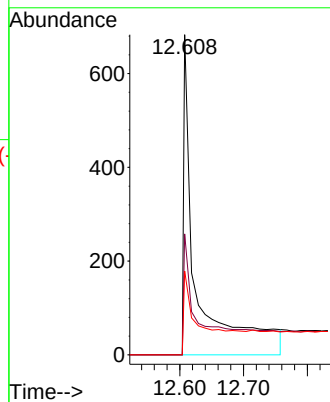
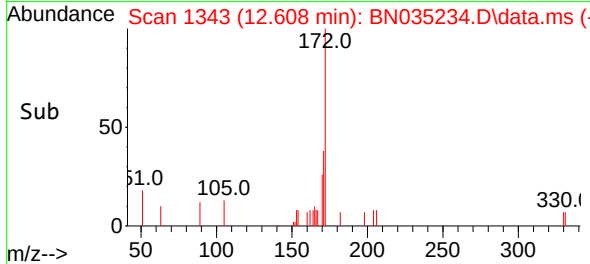
Instrument :
BNA_N
ClientSampleId :
DUP02-20241119



Tgt Ion:172 Resp: 1009
Ion Ratio Lower Upper
172 100
171 37.8 28.2 42.4
170 26.2 19.0 28.6

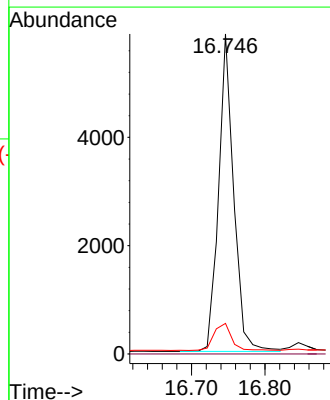
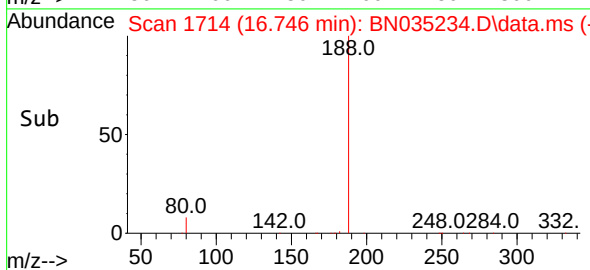
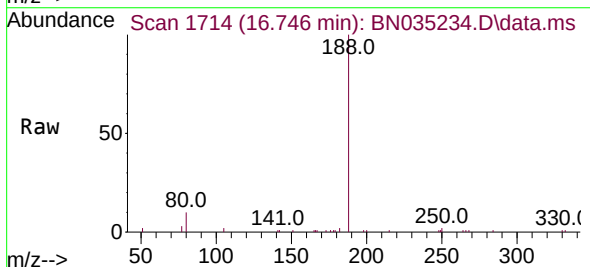
Manual Integrations
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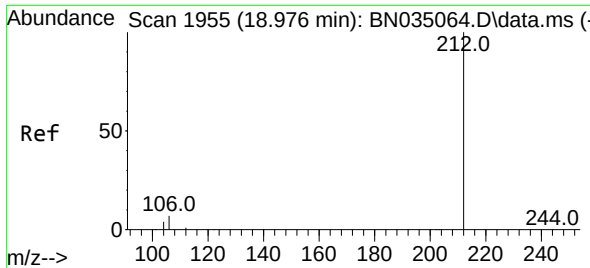
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.746 min Scan# 1714
Delta R.T. -0.000 min
Lab File: BN035234.D
Acq: 21 Nov 2024 22:25

Tgt Ion:188 Resp: 8351
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 9.6 4.3 6.5#





#27

Fluoranthene-d10

Concen: 0.358 ng

RT: 18.801 min Scan# 1919

Delta R.T. -0.005 min

Lab File: BN035234.D

Acq: 21 Nov 2024 22:25

Instrument :

BNA_N

ClientSampleId :

DUP02-20241119

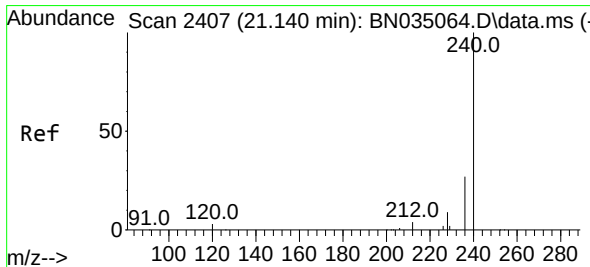
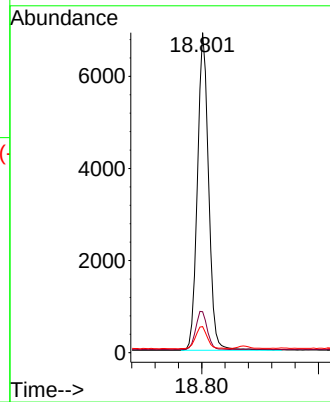
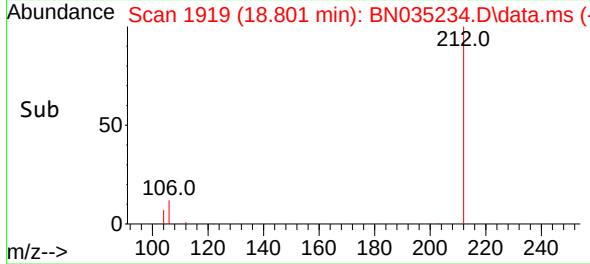
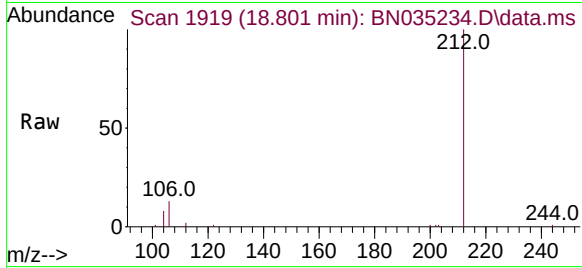
Tgt Ion:	212	Resp:	916
Ion Ratio	Lower	Upper	
212	100		
106	12.5	6.0	9.0
104	7.5	3.5	5.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/22/2024

Supervised By :mohammad ahmed 11/22/2024



#29

Chrysene-d12

Concen: 0.400 ng

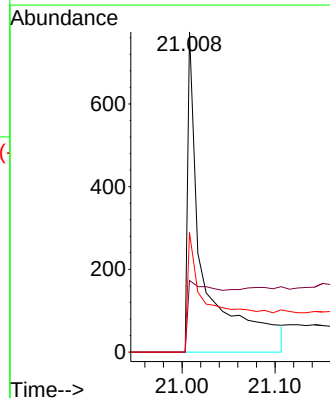
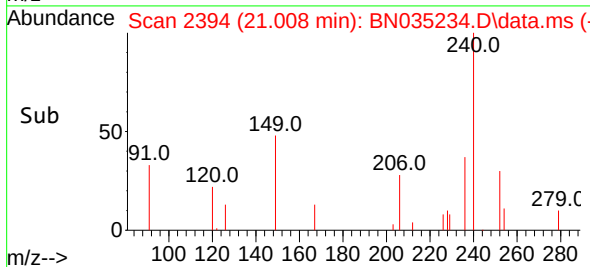
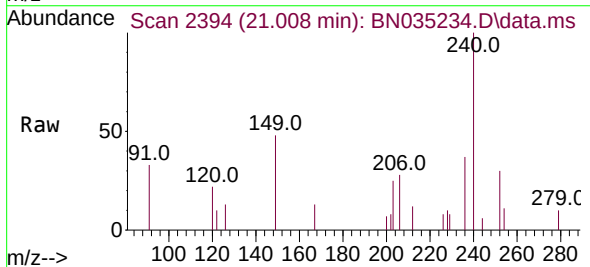
RT: 21.008 min Scan# 2394

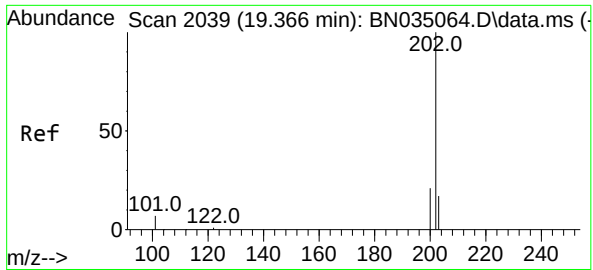
Delta R.T. -0.000 min

Lab File: BN035234.D

Acq: 21 Nov 2024 22:25

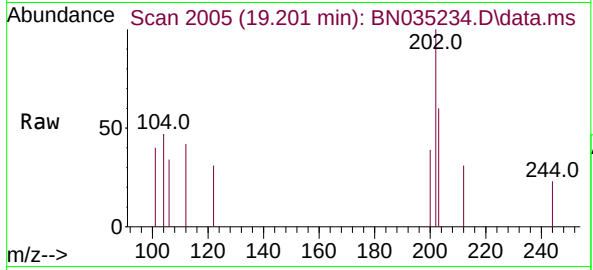
Tgt Ion:	240	Resp:	946
Ion Ratio	Lower	Upper	
240	100		
120	22.4	3.8	5.6
236	37.3	22.2	33.2





#30
Pyrene
Concen: 0.071 ng
RT: 19.201 min Scan# 2005
Delta R.T. -0.005 min
Lab File: BN035234.D
Acq: 21 Nov 2024 22:25

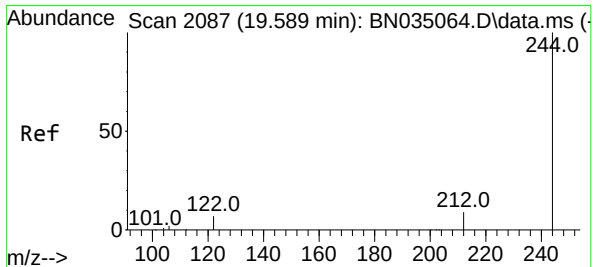
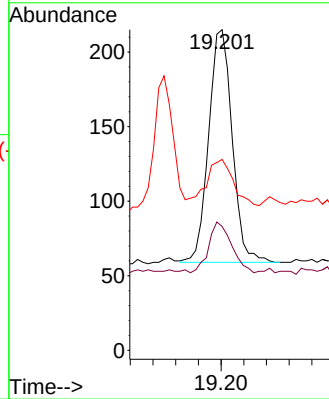
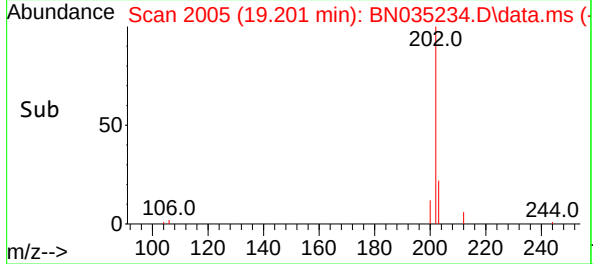
Instrument :
BNA_N
ClientSampleId :
DUP02-20241119



Tgt Ion:202 Resp: 225
Ion Ratio Lower Upper
202 100
200 20.9 16.7 25.1
203 22.7 14.2 21.4

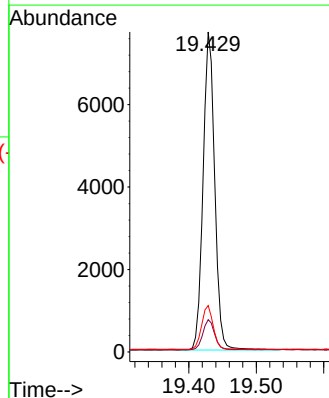
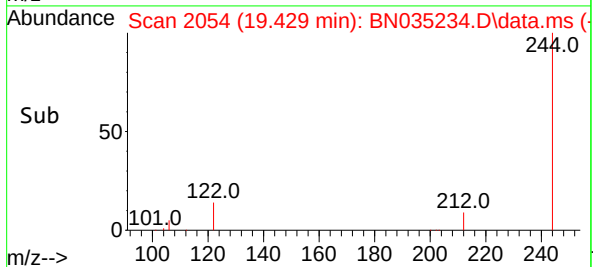
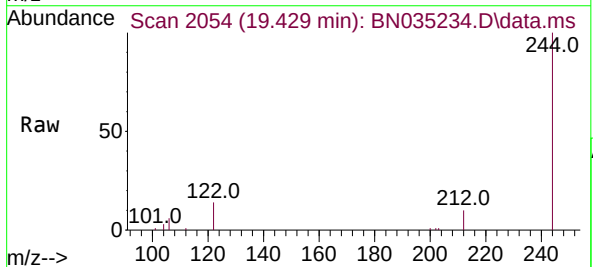
Manual Integrations
APPROVED

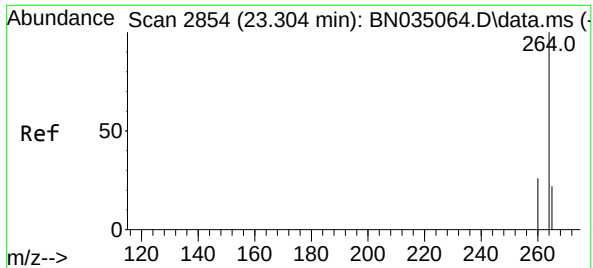
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#31
Terphenyl-d14
Concen: 4.653 ng
RT: 19.429 min Scan# 2054
Delta R.T. -0.009 min
Lab File: BN035234.D
Acq: 21 Nov 2024 22:25

Tgt Ion:244 Resp: 9237
Ion Ratio Lower Upper
244 100
212 10.1 7.6 11.4
122 14.5 6.1 9.1





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.095 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035234.D

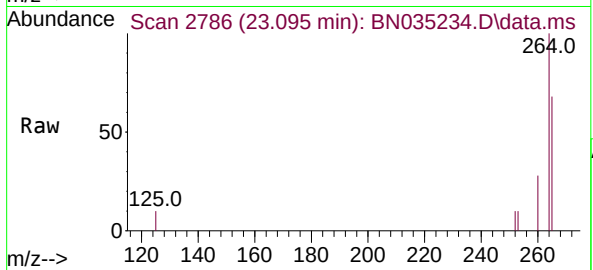
Acq: 21 Nov 2024 22:25

Instrument :

BNA_N

ClientSampleId :

DUP02-20241119



Tgt Ion:264 Resp: 7194

Ion Ratio Lower Upper

264 100

260 28.1 20.9 31.3

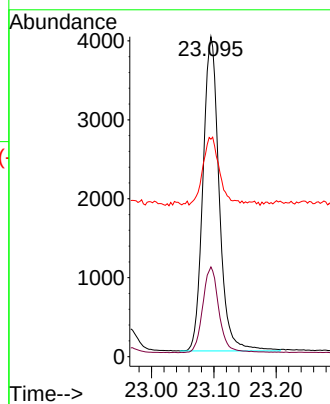
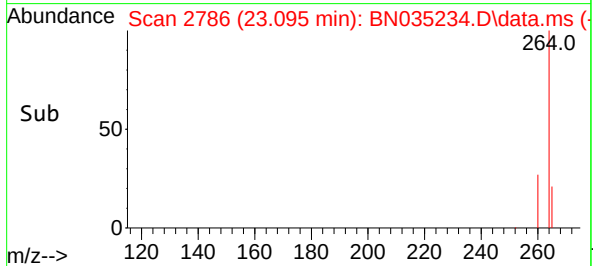
265 67.9 35.4 53.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/22/2024

Supervised By :mohammad ahmed 11/22/2024





CALIBRATION SUMMARY

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
 Method File : 8270-SIM-BN111324.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Wed Nov 13 17:18:14 2024
 Response Via : Initial Calibration

Calibration Files

0.1 =BN035062.D 0.2 =BN035063.D 0.4 =BN035064.D 0.8 =BN035065.D 1.6 =BN035066.D 3.2 =BN035067.D 5.0 =BN035068.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	0.410	0.382	0.335	0.371	0.367	0.348	0.329	0.363	7.76
3)	n-Nitrosodimet...	0.366	0.328	0.326	0.360	0.347	0.321	0.322	0.339	5.51
4) S	2-Fluorophenol	1.073	1.039	0.949	1.086	1.034	0.966	0.961	1.015	5.54
5) S	Phenol-d6	1.264	1.279	1.159	1.355	1.318	1.255	1.282	1.273	4.79
6)	bis(2-Chloroet...	0.972	0.949	0.893	1.027	0.995	0.925	0.929	0.956	4.77
7) I	Naphthalene-d8	-----ISTD-----								
8) S	Nitrobenzene-d5	0.358	0.338	0.320	0.368	0.356	0.344	0.353	0.348	4.53
9)	Naphthalene	1.088	1.009	0.977	1.116	1.085	1.010	1.027	1.044	4.96
10)	Hexachlorobuta...	0.324	0.305	0.293	0.326	0.315	0.289	0.291	0.306	5.12
11) SURR2	Methylnaphth...	0.694	0.683	0.664	0.762	0.753	0.703	0.731	0.713	5.13
12)	2-Methylnaphth...	0.742	0.748	0.711	0.823	0.815	0.765	0.789	0.770	5.29
13) I	Acenaphthene-d10	-----ISTD-----								
14) S	2,4,6-Tribromo...	0.281	0.262	0.240	0.300	0.299	0.308	0.331	0.289	10.57
15) S	2-Fluorobiphenyl	1.701	1.576	1.460	1.735	1.687	1.599	1.614	1.624	5.73
16)	Acenaphthylene	1.715	1.616	1.488	1.822	1.775	1.756	1.795	1.709	6.93
17)	Acenaphthene	1.129	1.079	1.000	1.202	1.157	1.130	1.146	1.120	5.76
18)	Fluorene	1.704	1.591	1.463	1.755	1.708	1.656	1.659	1.648	5.86
19) I	Phenanthrene-d10	-----ISTD-----								
20)	4,6-Dinitro-2-...	0.068	0.067	0.073	0.087	0.088	0.095	0.105	0.083	17.50
21)	4-Bromophenyl-...	0.256	0.240	0.246	0.272	0.267	0.252	0.252	0.255	4.41
22)	Hexachlorobenzene	0.275	0.259	0.253	0.277	0.273	0.258	0.258	0.264	3.79
23)	Atrazine	0.227	0.227	0.217	0.244	0.238	0.223	0.225	0.229	3.95
24)	Pentachlorophenol	0.106	0.101	0.104	0.130	0.130	0.141	0.154	0.124	16.69
25)	Phenanthrene	1.069	1.013	1.004	1.115	1.096	1.034	1.036	1.053	3.97
26)	Anthracene	0.917	0.904	0.920	1.024	1.016	0.986	1.001	0.967	5.32
27) SURR	Fluoranthene-d10	1.196	1.178	1.169	1.288	1.284	1.222	1.240	1.225	3.91
28)	Fluoranthene	1.396	1.376	1.386	1.543	1.527	1.453	1.453	1.448	4.63
29) I	Chrysene-d12	-----ISTD-----								
30)	Pyrene	1.339	1.290	1.288	1.424	1.367	1.301	1.317	1.332	3.70
31) S	Terphenyl-d14	0.838	0.819	0.810	0.894	0.867	0.817	0.831	0.839	3.63
32)	Benzo(a)anthra...	1.421	1.368	1.328	1.464	1.416	1.355	1.396	1.393	3.31
33)	Chrysene	1.409	1.366	1.332	1.479	1.420	1.331	1.321	1.380	4.27
34)	Bis(2-ethylhex...	0.809	0.753	0.647	0.768	0.702	0.693	0.742	0.731	7.38
35) I	Perylene-d12	-----ISTD-----								

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

Method File : 8270-SIM-BN111324.M

36)	Indeno(1,2,3-c...	1.609	1.515	1.522	1.730	1.659	1.550	1.585	1.596	4.88
37)	Benzo(b)fluora...	1.326	1.272	1.279	1.439	1.418	1.327	1.359	1.346	4.77
38)	Benzo(k)fluora...	1.342	1.288	1.287	1.418	1.410	1.323	1.358	1.347	3.94
39) C	Benzo(a)pyrene	1.172	1.134	1.123	1.247	1.240	1.167	1.207	1.184	4.12
40)	Dibenzo(a,h)an...	1.248	1.195	1.210	1.375	1.322	1.235	1.265	1.264	5.06
41)	Benzo(g,h,i)pe...	1.380	1.288	1.286	1.452	1.386	1.294	1.328	1.345	4.71

(#) = Out of Range

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
 Data File : BN035062.D
 Acq On : 13 Nov 2024 12:40
 Operator : RC/JU
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

Quant Time: Nov 13 16:42:46 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 16:42:01 2024
 Response via : Initial Calibration

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

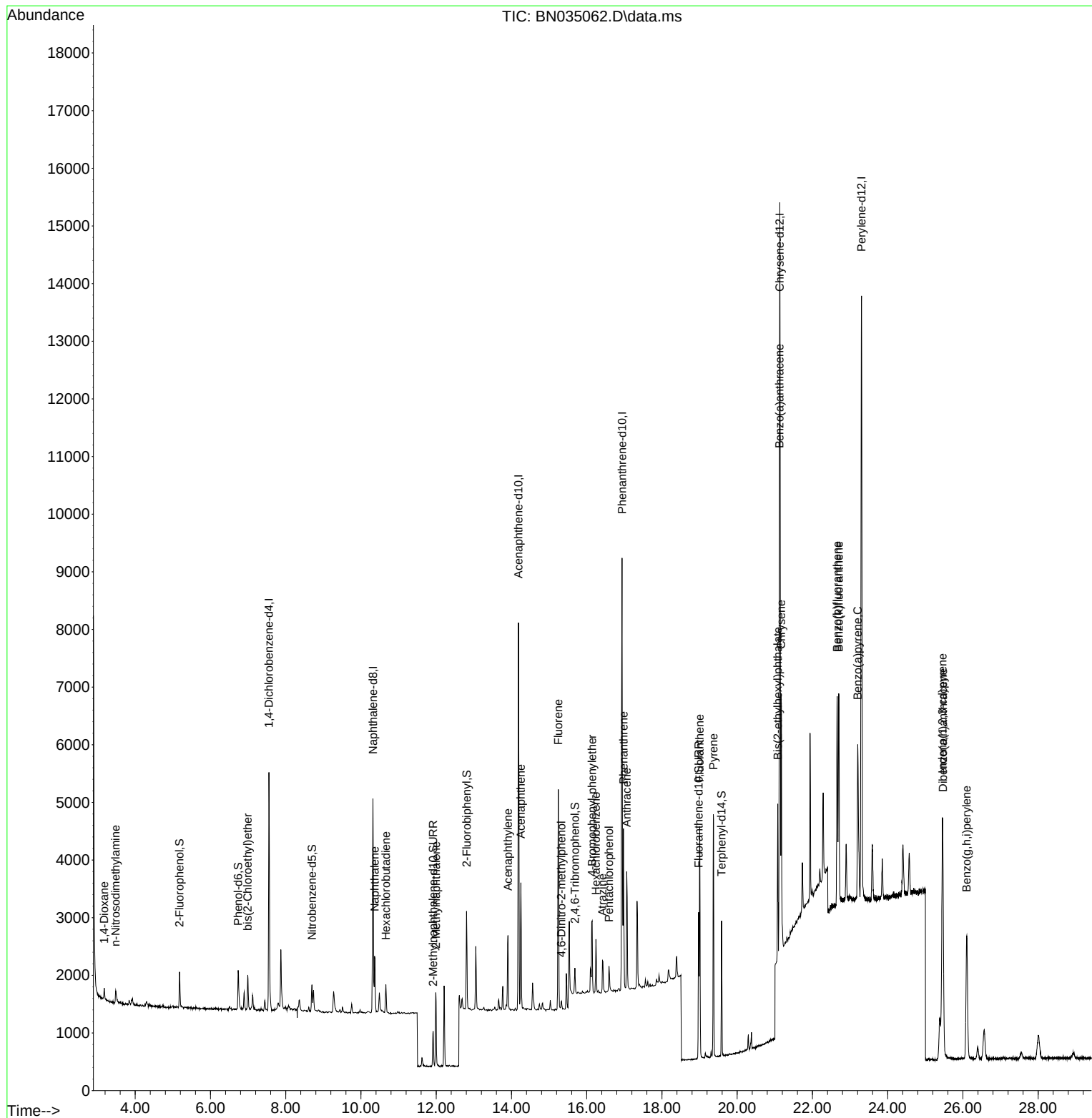
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.553	152	1991	0.400	ng	0.00
7) Naphthalene-d8	10.319	136	4930	0.400	ng	0.00
13) Acenaphthene-d10	14.186	164	3629	0.400	ng	0.00
19) Phenanthrene-d10	16.939	188	10187	0.400	ng	0.00
29) Chrysene-d12	21.131	240	11121	0.400	ng	# 0.00
35) Perylene-d12	23.304	264	13104	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	534	0.106	ng	0.00
5) Phenol-d6	6.737	99	629	0.099	ng	0.00
8) Nitrobenzene-d5	8.696	82	441	0.103	ng	0.00
11) 2-Methylnaphthalene-d10	11.916	152	855	0.097	ng	0.00
14) 2,4,6-Tribromophenol	15.686	330	255	0.097	ng	0.00
15) 2-Fluorobiphenyl	12.807	172	1543	0.105	ng	0.00
27) Fluoranthene-d10	18.976	212	3046	0.098	ng	0.00
31) Terphenyl-d14	19.584	244	2331	0.100	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.177	88	204	0.113	ng	93
3) n-Nitrosodimethylamine	3.480	42	182	0.108	ng	# 90
6) bis(2-Chloroethyl)ether	6.990	93	484	0.102	ng	99
9) Naphthalene	10.362	128	1341	0.104	ng	# 89
10) Hexachlorobutadiene	10.660	225	399	0.106	ng	# 99
12) 2-Methylnaphthalene	11.992	142	914	0.096	ng	96
16) Acenaphthylene	13.908	152	1556	0.100	ng	99
17) Acenaphthene	14.250	154	1024	0.101	ng	98
18) Fluorene	15.245	166	1546	0.103	ng	99
20) 4,6-Dinitro-2-methylph...	15.330	198	172	0.081	ng	# 1
21) 4-Bromophenyl-phenylether	16.145	248	651	0.100	ng	97
22) Hexachlorobenzene	16.244	284	701	0.104	ng	98
23) Atrazine	16.418	200	577	0.099	ng	# 91
24) Pentachlorophenol	16.592	266	269	0.085	ng	94
25) Phenanthrene	16.977	178	2723	0.102	ng	100
26) Anthracene	17.063	178	2335	0.095	ng	98
28) Fluoranthene	19.003	202	3554	0.096	ng	100
30) Pyrene	19.366	202	3722	0.101	ng	98
32) Benzo(a)anthracene	21.122	228	3952	0.102	ng	97
33) Chrysene	21.167	228	3918	0.102	ng	96
34) Bis(2-ethylhexyl)phtha...	21.077	149	2250	0.112	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.455	276	5271	0.101	ng	96
37) Benzo(b)fluoranthene	22.657	252	4345	0.099	ng	# 82
38) Benzo(k)fluoranthene	22.701	252	4395	0.100	ng	# 78
39) Benzo(a)pyrene	23.204	252	3841	0.099	ng	# 77
40) Dibenzo(a,h)anthracene	25.467	278	4089	0.099	ng	# 85
41) Benzo(g,h,i)perylene	26.099	276	4521	0.103	ng	# 94

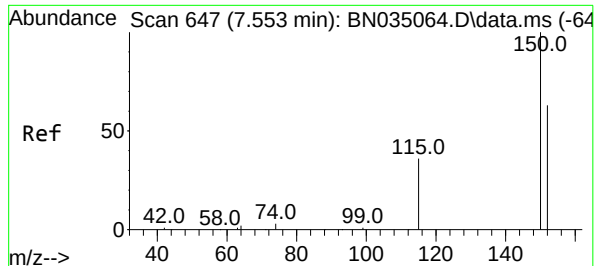
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
Data File : BN035062.D
Acq On : 13 Nov 2024 12:40
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Quant Time: Nov 13 16:42:46 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 16:42:01 2024
Response via : Initial Calibration

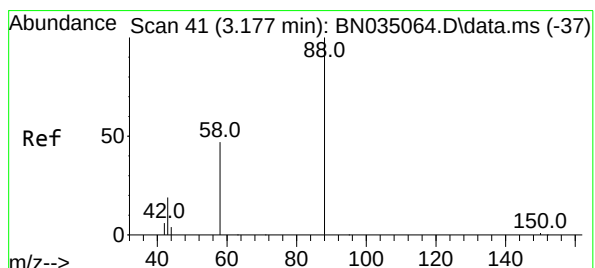
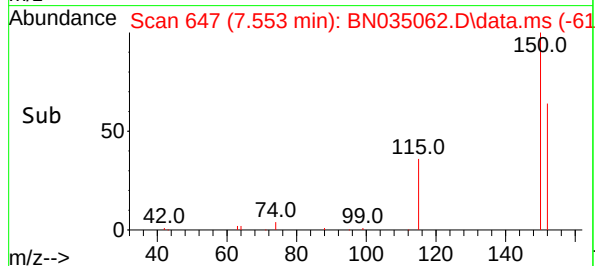
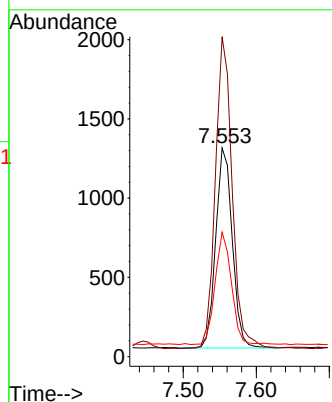
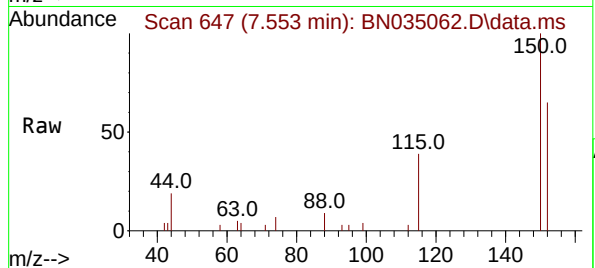




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.553 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

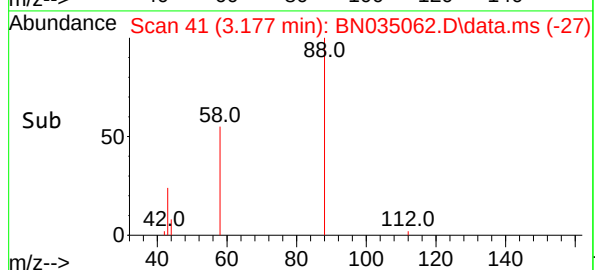
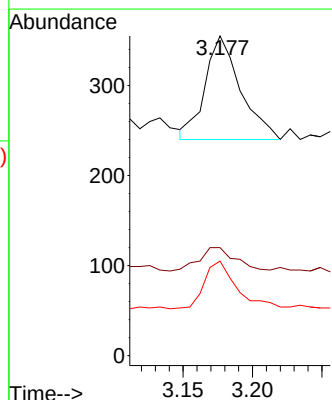
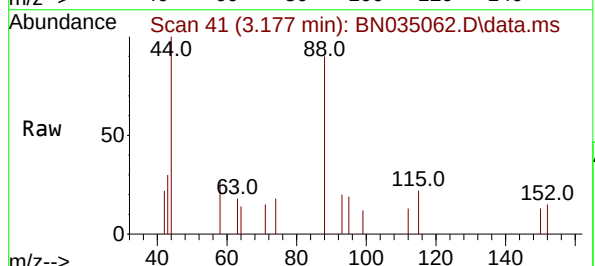
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

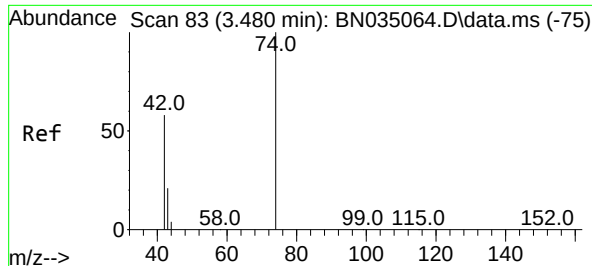
Tgt Ion:152 Resp: 1991
Ion Ratio Lower Upper
152 100
150 153.3 124.5 186.7
115 59.6 47.8 71.6



#2
1,4-Dioxane
Concen: 0.113 ng
RT: 3.177 min Scan# 41
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

Tgt Ion: 88 Resp: 204
Ion Ratio Lower Upper
88 100
43 23.0 16.9 25.3
58 42.6 39.0 58.4

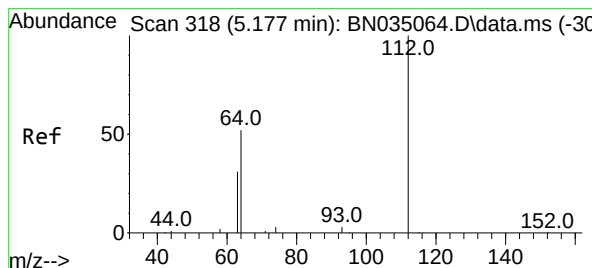
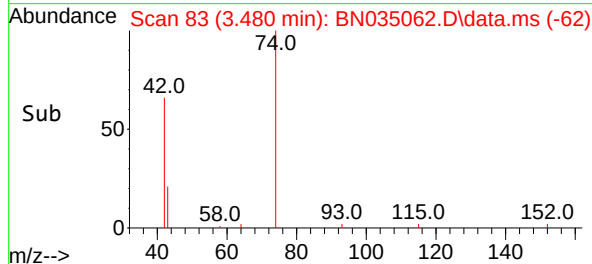
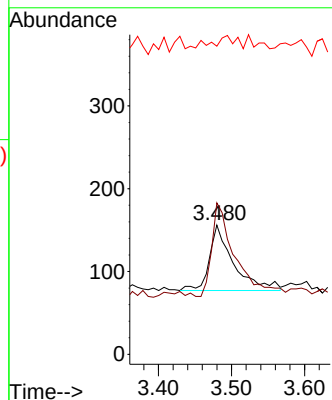
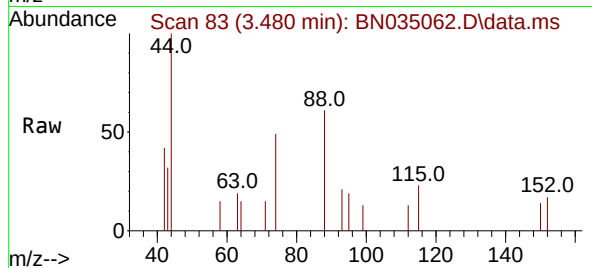




#3
n-Nitrosodimethylamine
Concen: 0.108 ng
RT: 3.480 min Scan# 81
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

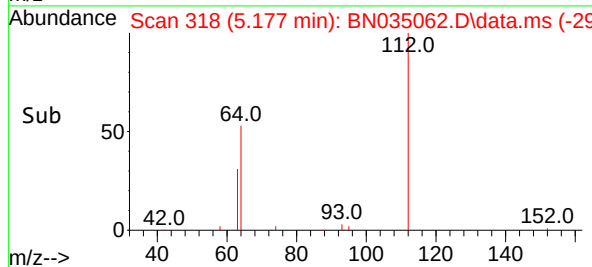
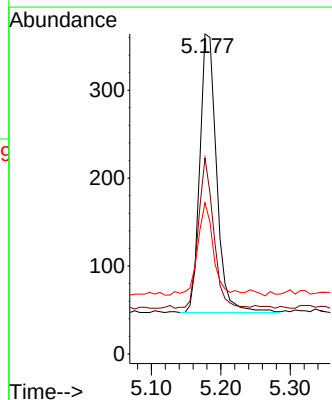
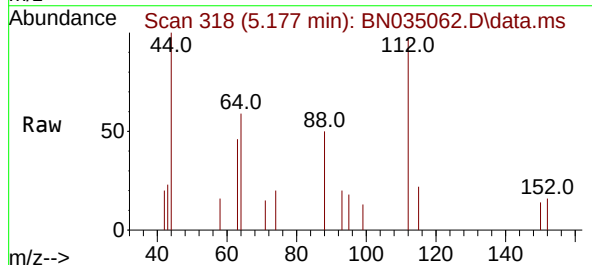
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

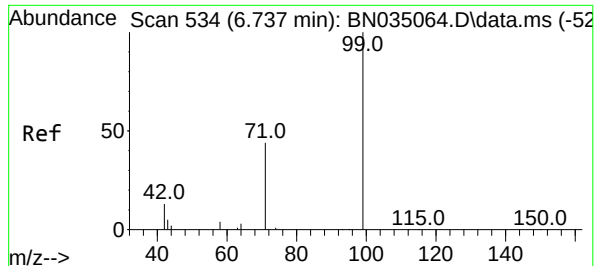
Tgt Ion: 42 Resp: 182
Ion Ratio Lower Upper
42 100
74 139.0 120.8 181.2
44 12.6 2.9 4.3#



#4
2-Fluorophenol
Concen: 0.106 ng
RT: 5.177 min Scan# 318
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

Tgt Ion: 112 Resp: 534
Ion Ratio Lower Upper
112 100
64 48.9 39.7 59.5
63 31.1 23.0 34.4

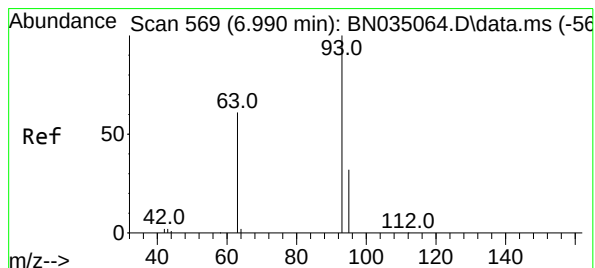
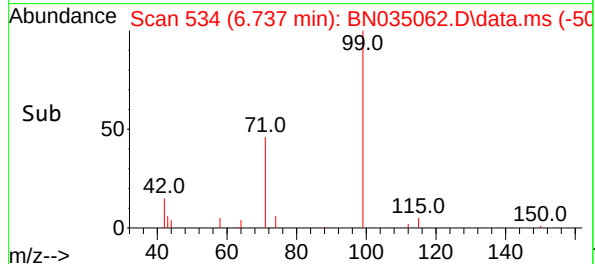
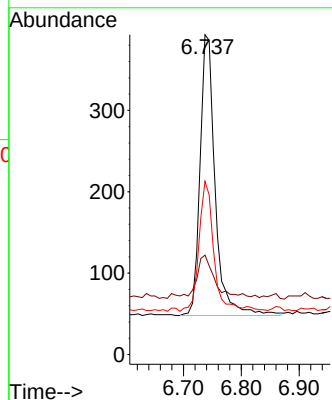
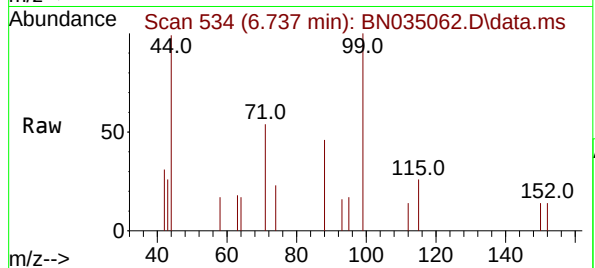




#5
Phenol-d6
Concen: 0.099 ng
RT: 6.737 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

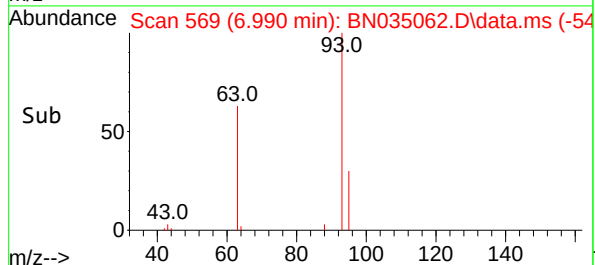
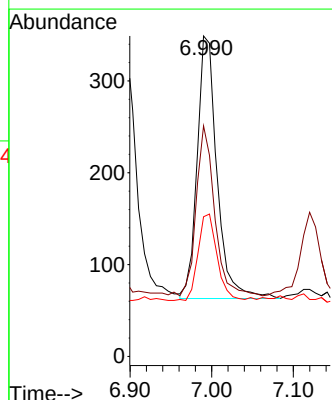
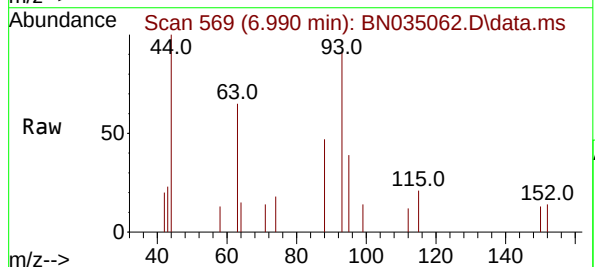
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

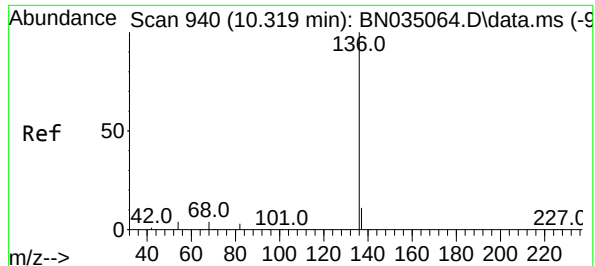
Tgt Ion: 99 Resp: 629
Ion Ratio Lower Upper
99 100
42 19.6 11.4 17.0#
71 44.5 34.6 51.8



#6
bis(2-Chloroethyl)ether
Concen: 0.102 ng
RT: 6.990 min Scan# 569
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

Tgt Ion: 93 Resp: 484
Ion Ratio Lower Upper
93 100
63 60.1 47.4 71.2
95 31.8 26.2 39.4

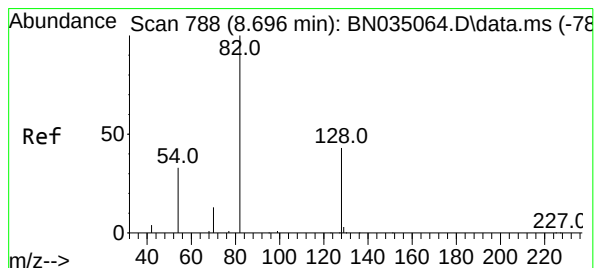
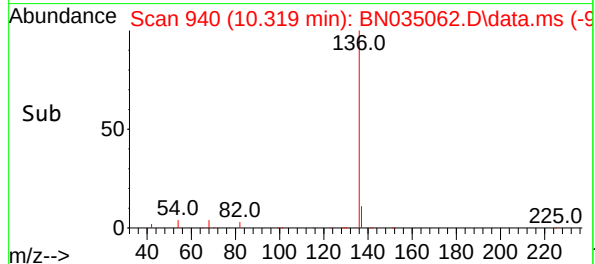
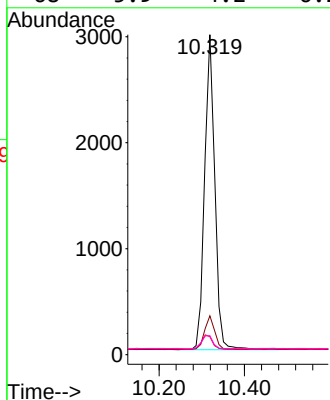
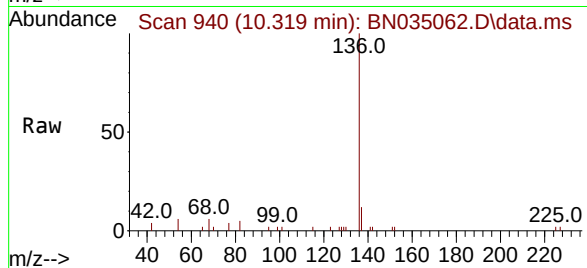




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.319 min Scan# 940
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

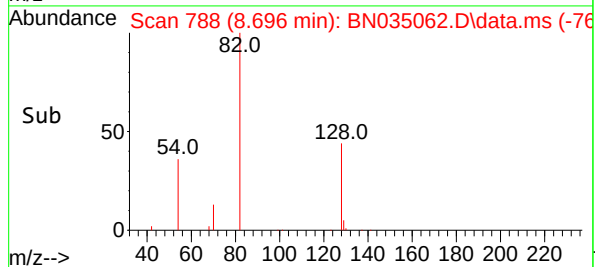
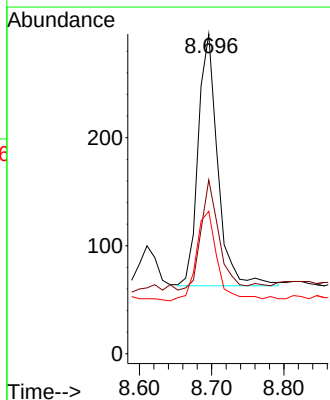
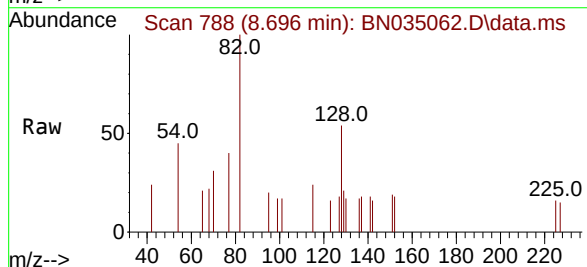
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

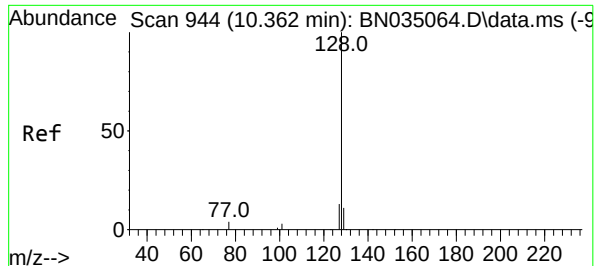
Tgt Ion:136	Resp:	4930
Ion	Ratio	Lower Upper
136	100	
137	12.2	9.8 14.8
54	5.6	4.0 6.0
68	5.9	4.2 6.2



#8
Nitrobenzene-d5
Concen: 0.103 ng
RT: 8.696 min Scan# 788
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

Tgt Ion: 82	Resp:	441
Ion	Ratio	Lower Upper
82	100	
128	54.4	36.5 54.7
54	44.6	28.7 43.1

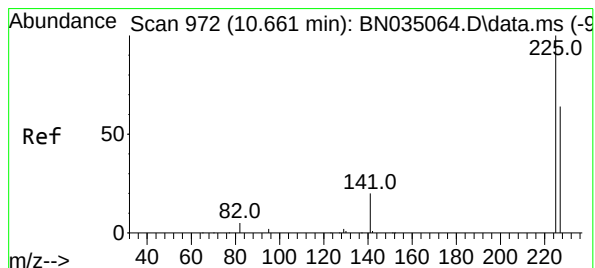
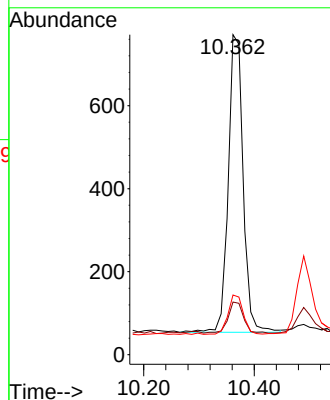
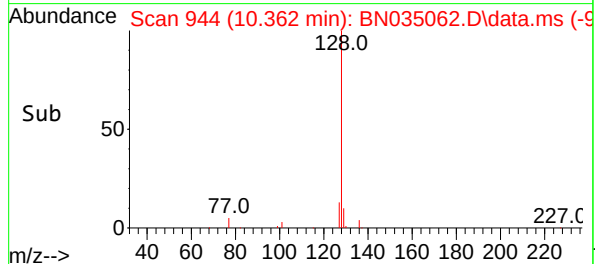
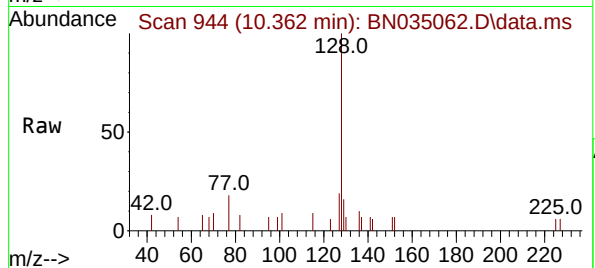




#9
Naphthalene
Concen: 0.104 ng
RT: 10.362 min Scan# 944
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

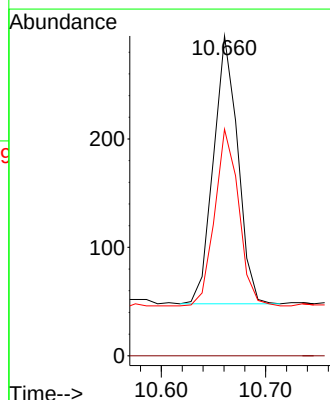
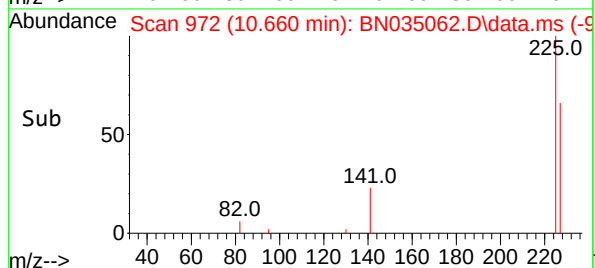
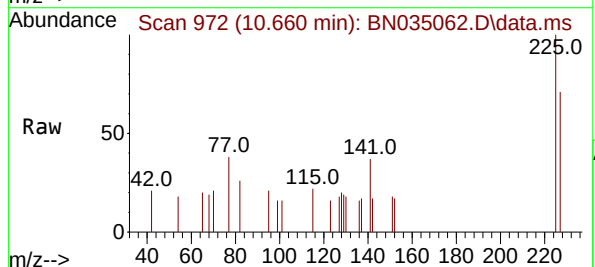
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

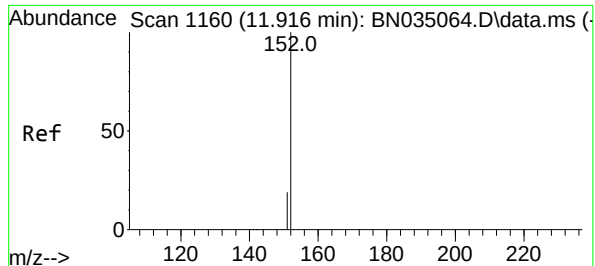
Tgt Ion:128 Resp: 1341
Ion Ratio Lower Upper
128 100
129 16.5 9.6 14.4#
127 18.7 11.6 17.4#



#10
Hexachlorobutadiene
Concen: 0.106 ng
RT: 10.660 min Scan# 972
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

Tgt Ion:225 Resp: 399
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 65.4 51.5 77.3

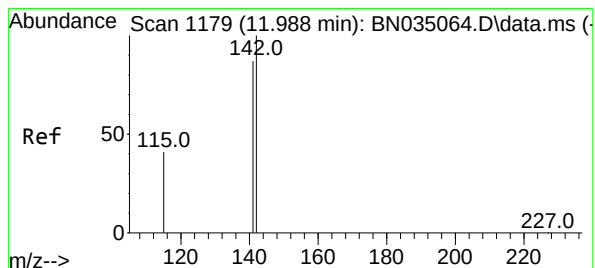
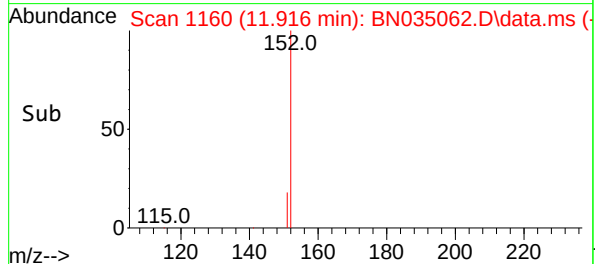
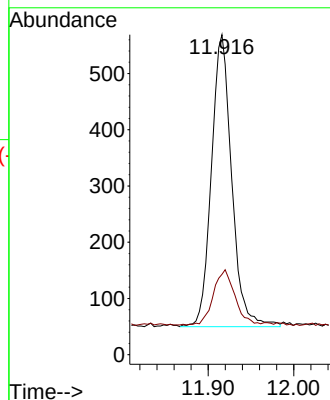
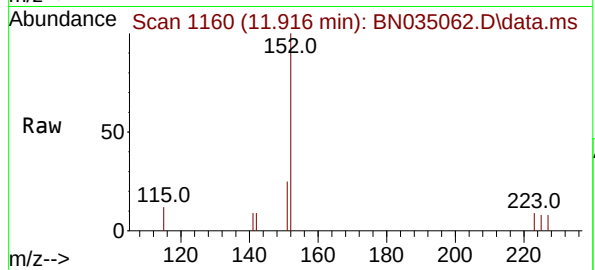




#11
2-Methylnaphthalene-d10
Concen: 0.097 ng
RT: 11.916 min Scan# 1160
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

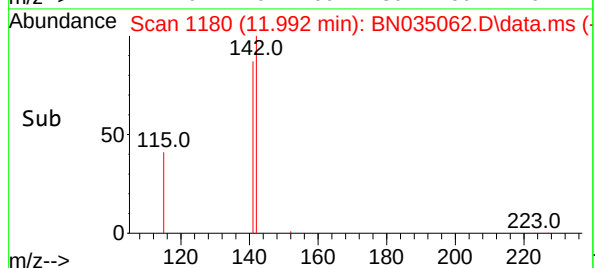
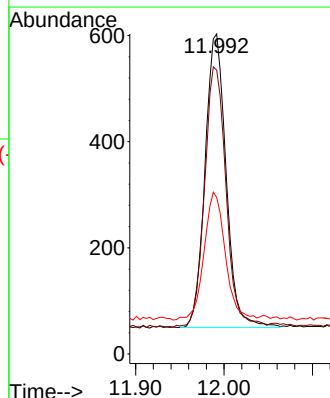
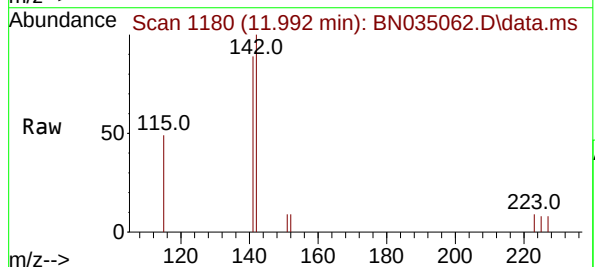
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

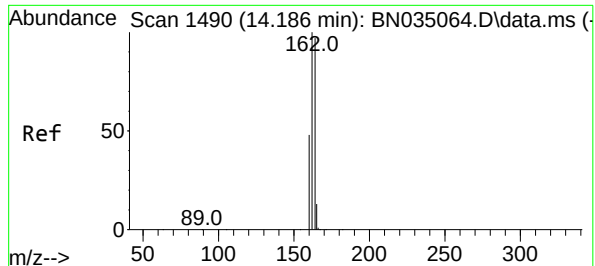
Tgt Ion:152 Resp: 855
Ion Ratio Lower Upper
152 100
151 20.2 16.2 24.4



#12
2-Methylnaphthalene
Concen: 0.096 ng
RT: 11.992 min Scan# 1180
Delta R.T. 0.004 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

Tgt Ion:142 Resp: 914
Ion Ratio Lower Upper
142 100
141 88.7 70.1 105.1
115 48.9 34.4 51.6

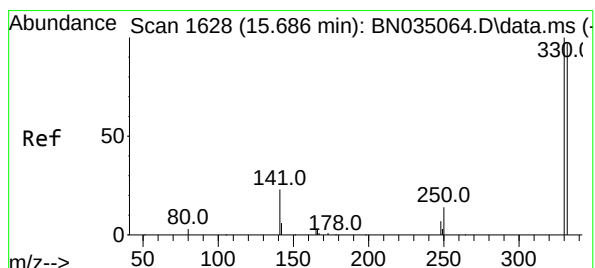
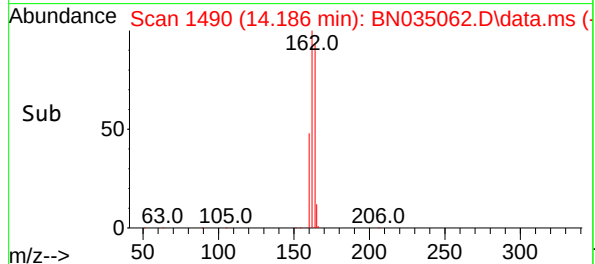
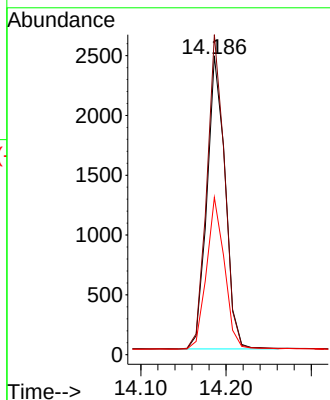
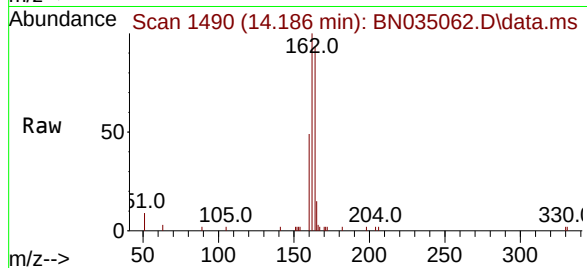




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.186 min Scan# 1490
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

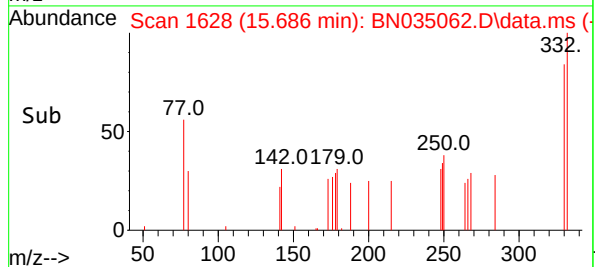
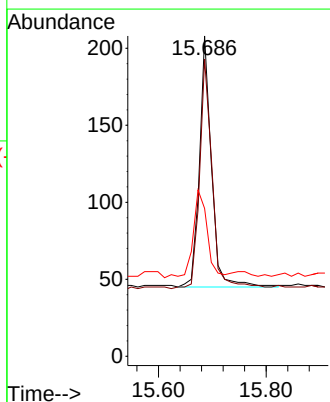
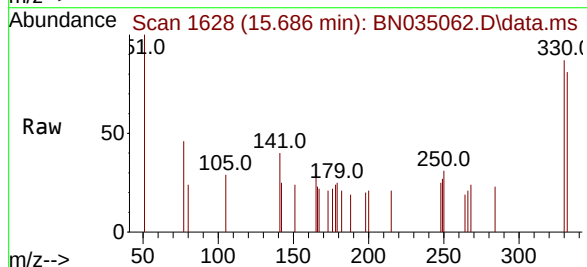
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

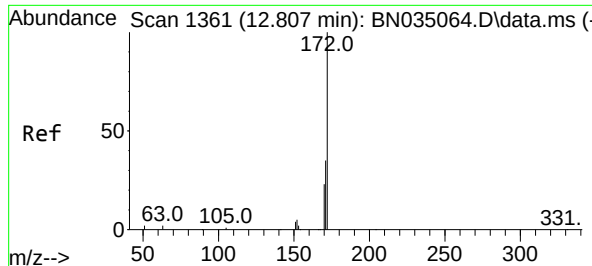
Tgt Ion:164 Resp: 3629
Ion Ratio Lower Upper
164 100
162 107.1 82.2 123.2
160 52.6 40.2 60.4



#14
2,4,6-Tribromophenol
Concen: 0.097 ng
RT: 15.686 min Scan# 1628
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

Tgt Ion:330 Resp: 255
Ion Ratio Lower Upper
330 100
332 90.6 76.9 115.3
141 37.6 29.6 44.4

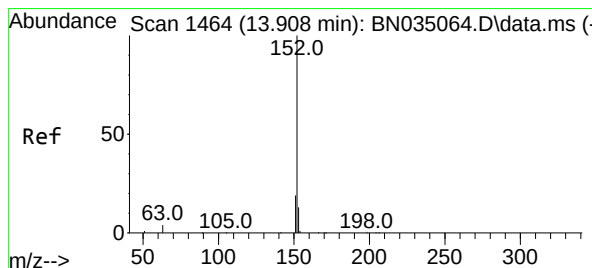
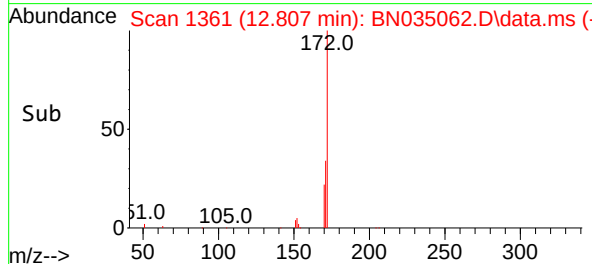
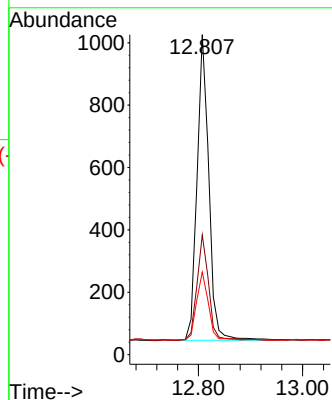
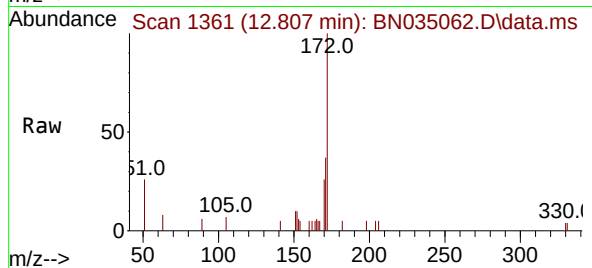




#15
2-Fluorobiphenyl
Concen: 0.105 ng
RT: 12.807 min Scan# 1361
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

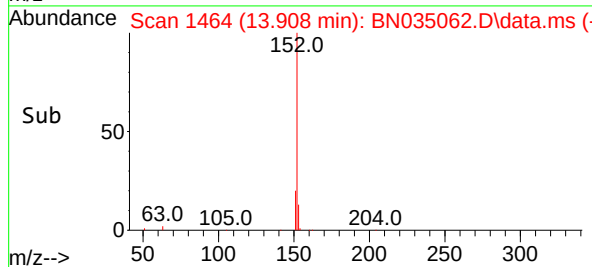
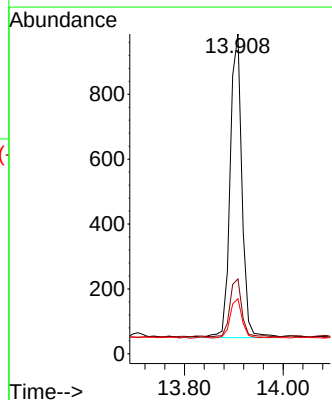
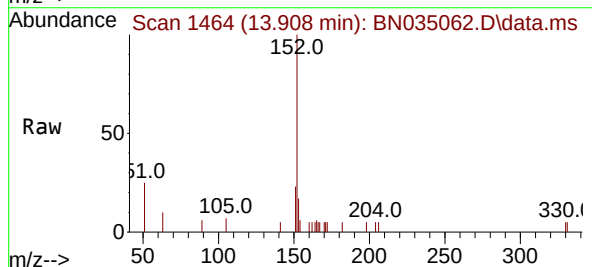
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

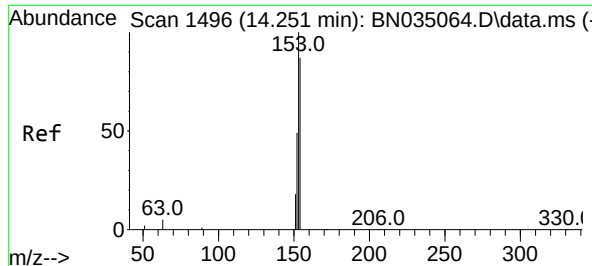
Tgt Ion	Ratio	Lower	Upper
172	100		
171	37.4	28.2	42.4
170	25.8	19.0	28.6



#16
Acenaphthylene
Concen: 0.100 ng
RT: 13.908 min Scan# 1464
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.2	15.8	23.8
153	13.2	10.2	15.4

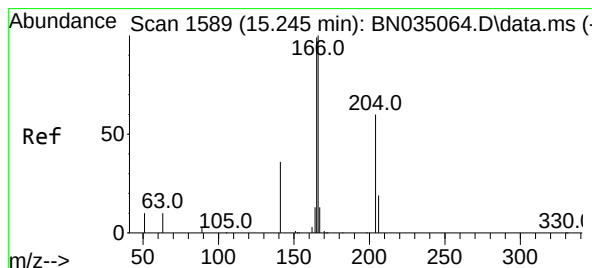
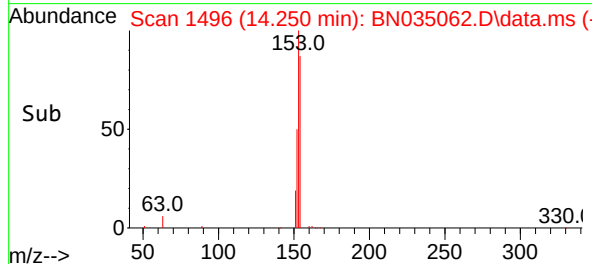
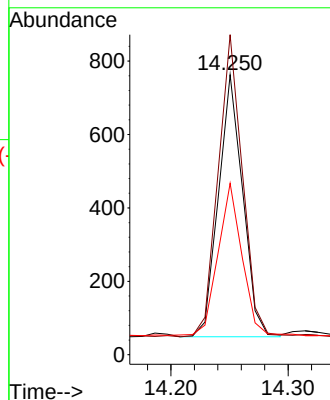
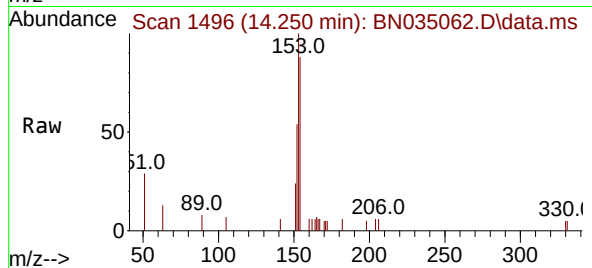




#17
Acenaphthene
Concen: 0.101 ng
RT: 14.250 min Scan# 1496
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

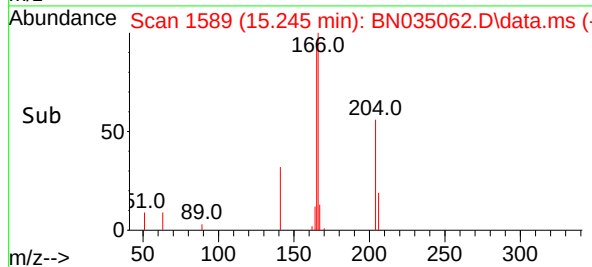
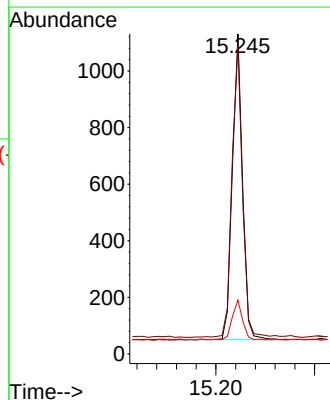
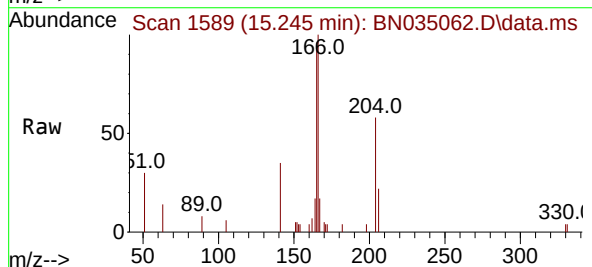
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

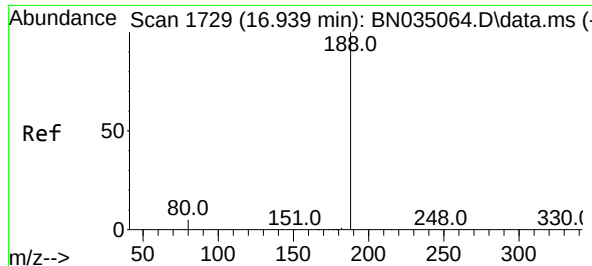
Tgt Ion	154	153	152
Resp:	1024		
Ion Ratio	100	116.6	57.9
Lower		91.6	45.8
Upper		137.4	68.6



#18
Fluorene
Concen: 0.103 ng
RT: 15.245 min Scan# 1589
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

Tgt Ion	166	165	167
Resp:	1546		
Ion Ratio	100	97.9	12.9
Lower		79.1	10.6
Upper		118.7	16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.939 min Scan# 1729

Delta R.T. -0.000 min

Lab File: BN035062.D

Acq: 13 Nov 2024 12:40

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

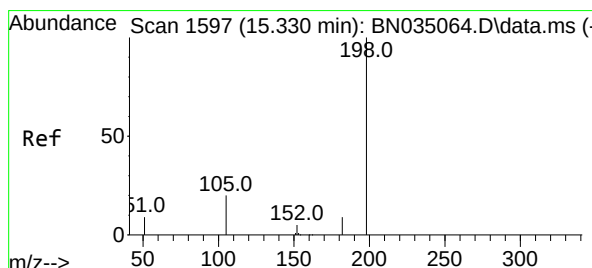
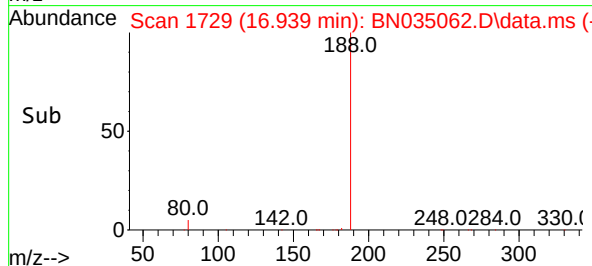
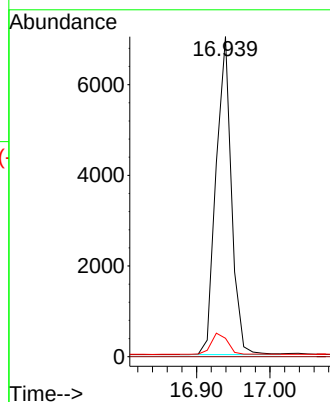
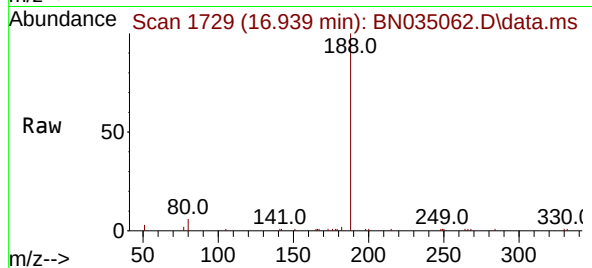
Tgt Ion:188 Resp: 10187

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 5.7 4.3 6.5



#20

4,6-Dinitro-2-methylphenol

Concen: 0.081 ng

RT: 15.330 min Scan# 1597

Delta R.T. -0.000 min

Lab File: BN035062.D

Acq: 13 Nov 2024 12:40

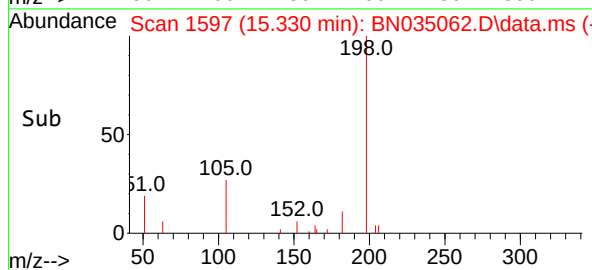
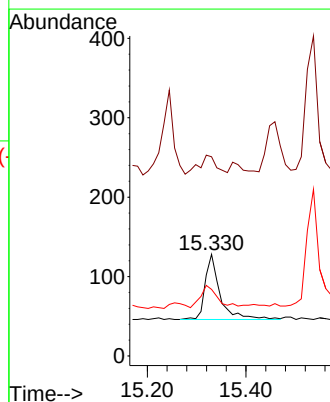
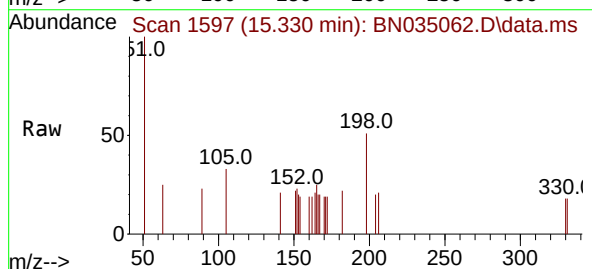
Tgt Ion:198 Resp: 172

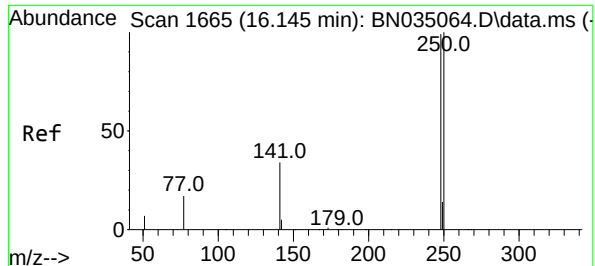
Ion Ratio Lower Upper

198 100

51 196.1 29.9 44.9#

105 65.6 23.7 35.5#

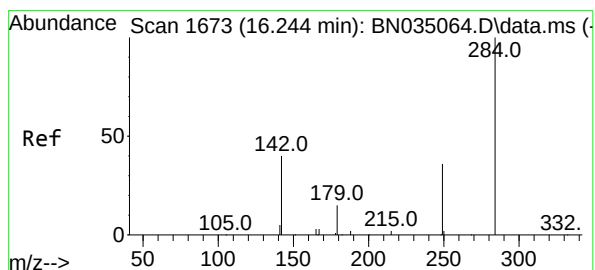
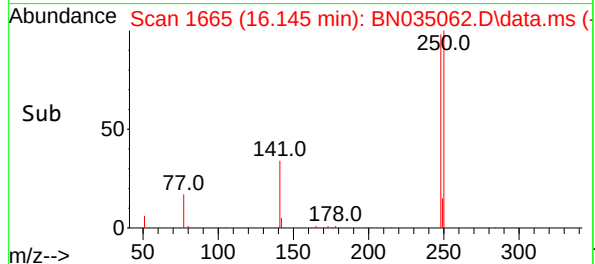
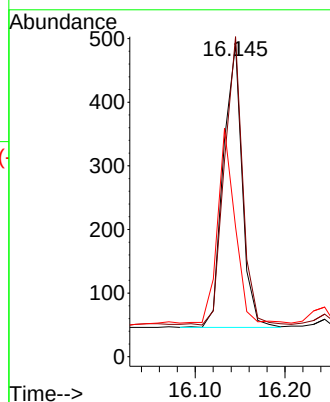
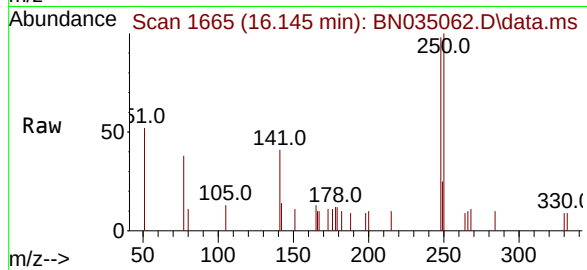




#21
4-Bromophenyl-phenylether
Concen: 0.100 ng
RT: 16.145 min Scan# 1665
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

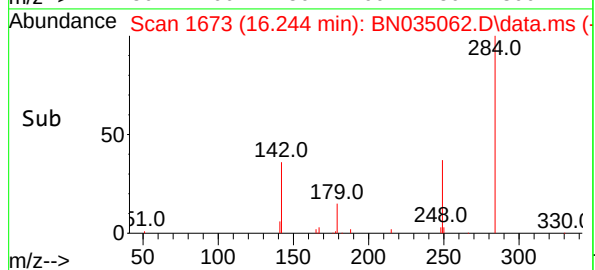
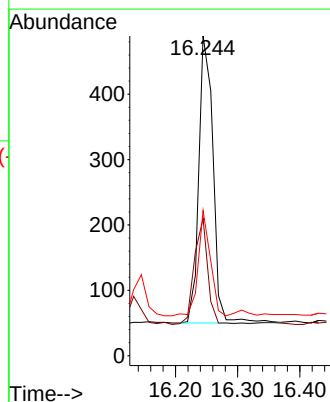
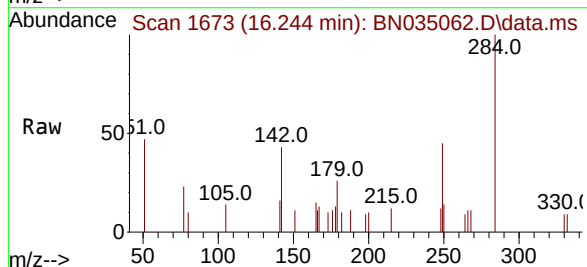
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

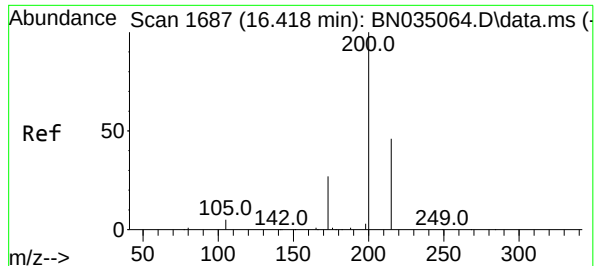
Tgt Ion	Ratio	Lower	Upper
248	100		
250	102.4	81.2	121.8
141	41.5	29.1	43.7



#22
Hexachlorobenzene
Concen: 0.104 ng
RT: 16.244 min Scan# 1673
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

Tgt Ion	Ratio	Lower	Upper
284	100		
142	34.5	28.2	42.4
249	31.4	26.2	39.2





#23

Atrazine

Concen: 0.099 ng

RT: 16.418 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN035062.D

Acq: 13 Nov 2024 12:40

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

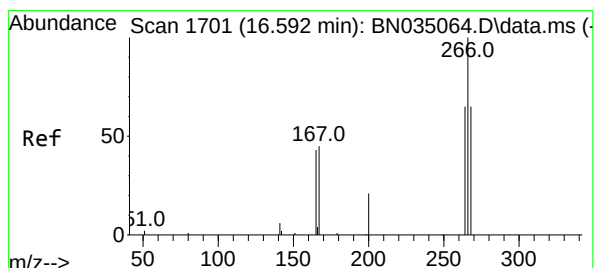
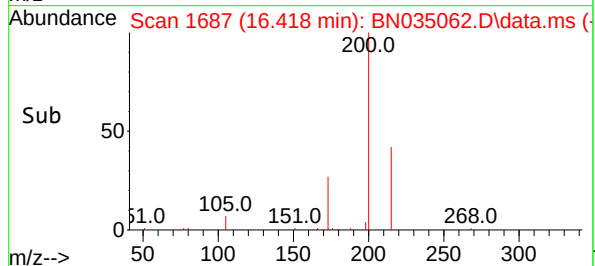
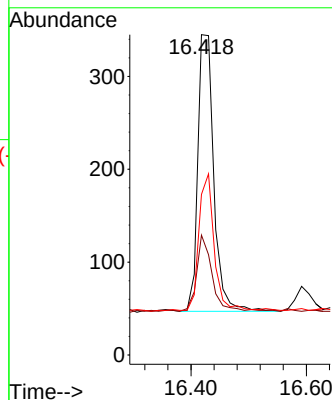
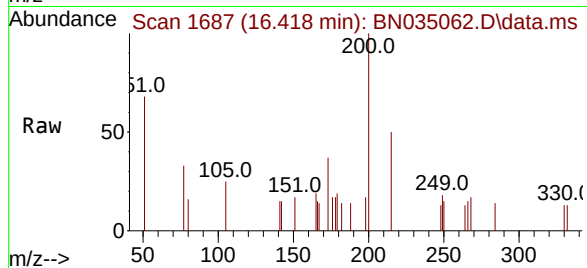
Tgt Ion:200 Resp: 577

Ion Ratio Lower Upper

200 100

173 37.4 22.6 33.8#

215 50.1 37.8 56.6



#24

Pentachlorophenol

Concen: 0.085 ng

RT: 16.592 min Scan# 1701

Delta R.T. -0.000 min

Lab File: BN035062.D

Acq: 13 Nov 2024 12:40

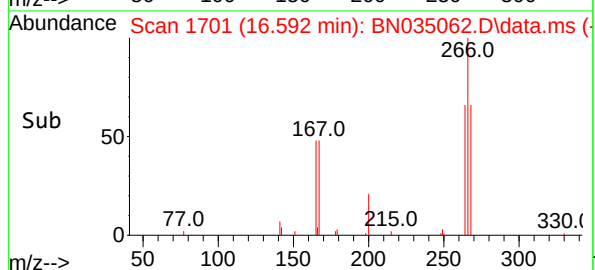
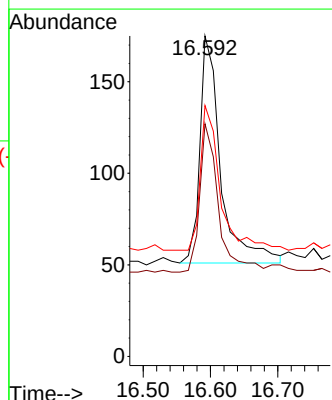
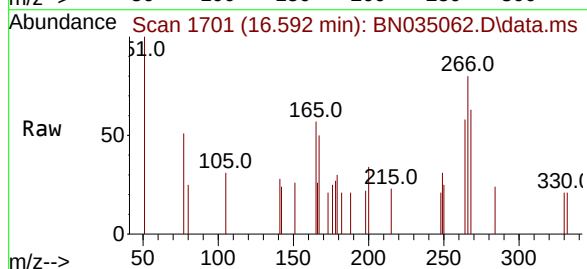
Tgt Ion:266 Resp: 269

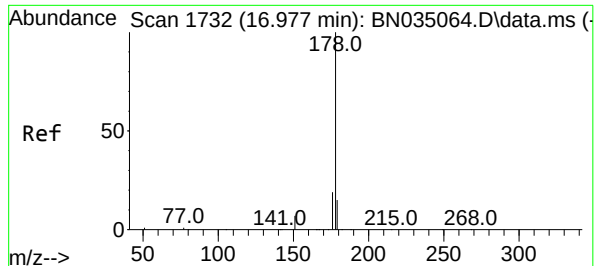
Ion Ratio Lower Upper

266 100

264 58.4 49.4 74.0

268 60.2 52.6 79.0

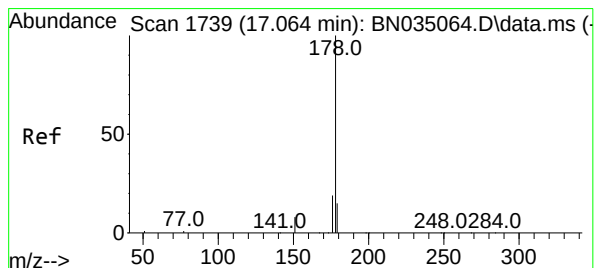
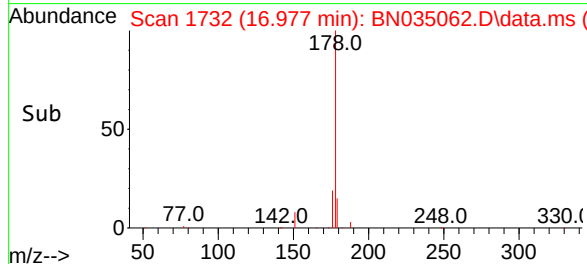
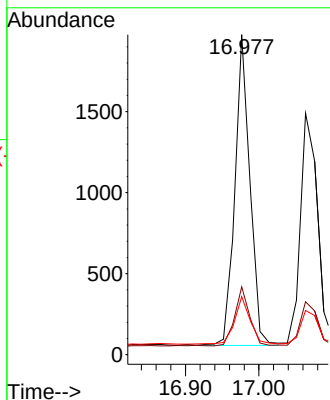
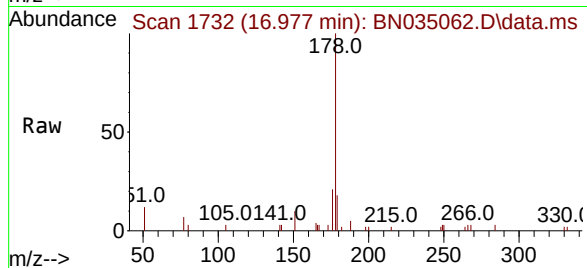




#25
Phenanthrene
Concen: 0.102 ng
RT: 16.977 min Scan# 1732
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

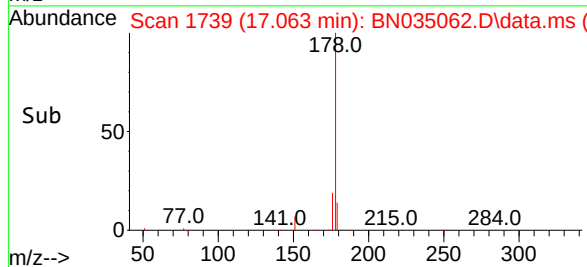
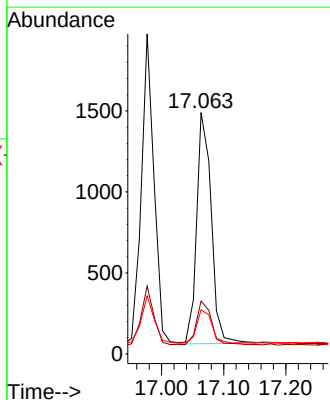
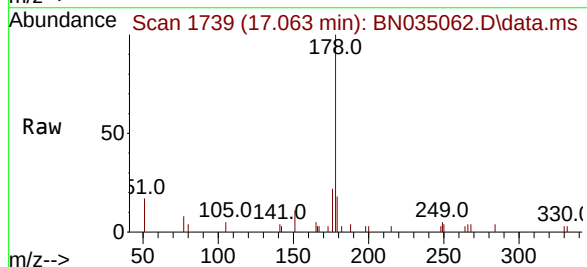
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

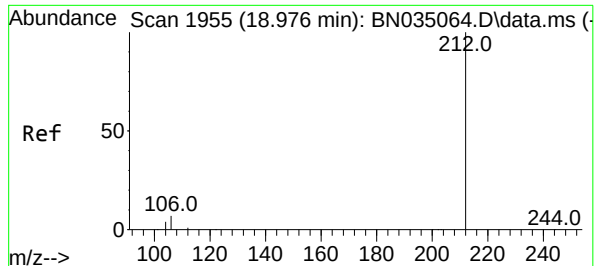
Tgt Ion:178 Resp: 2723
Ion Ratio Lower Upper
178 100
176 18.9 15.2 22.8
179 15.9 12.6 18.8



#26
Anthracene
Concen: 0.095 ng
RT: 17.063 min Scan# 1739
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

Tgt Ion:178 Resp: 2335
Ion Ratio Lower Upper
178 100
176 19.6 14.6 22.0
179 14.8 12.2 18.2





#27

Fluoranthene-d10

Concen: 0.098 ng

RT: 18.976 min Scan# 1955

Delta R.T. -0.000 min

Lab File: BN035062.D

Acq: 13 Nov 2024 12:40

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

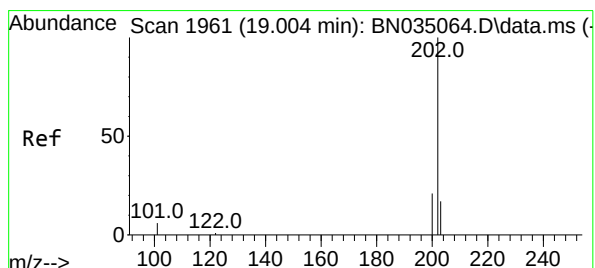
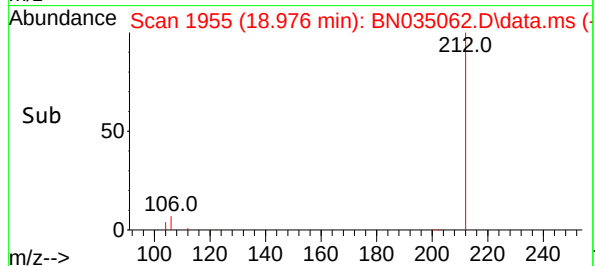
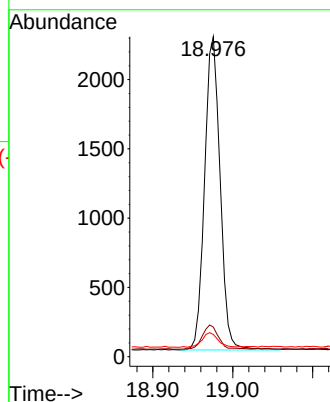
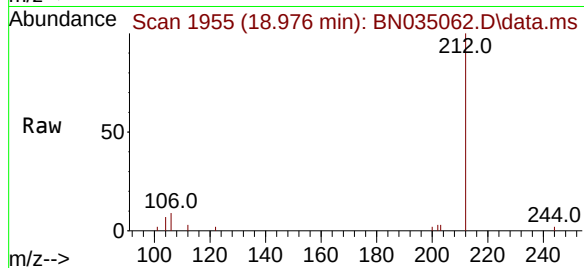
Tgt Ion:212 Resp: 3046

Ion Ratio Lower Upper

212 100

106 7.8 6.0 9.0

104 4.8 3.5 5.3



#28

Fluoranthene

Concen: 0.096 ng

RT: 19.003 min Scan# 1961

Delta R.T. -0.000 min

Lab File: BN035062.D

Acq: 13 Nov 2024 12:40

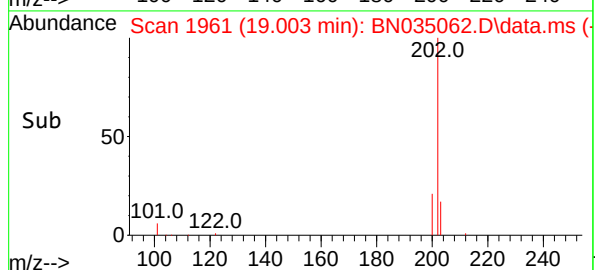
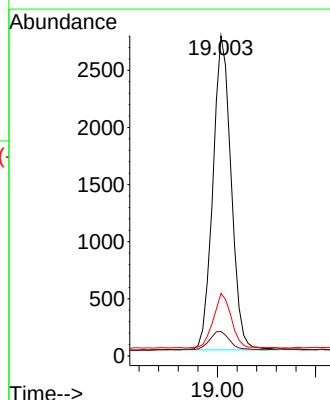
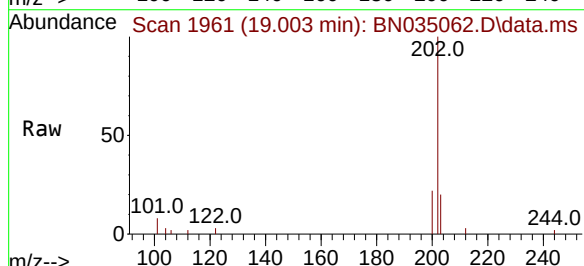
Tgt Ion:202 Resp: 3554

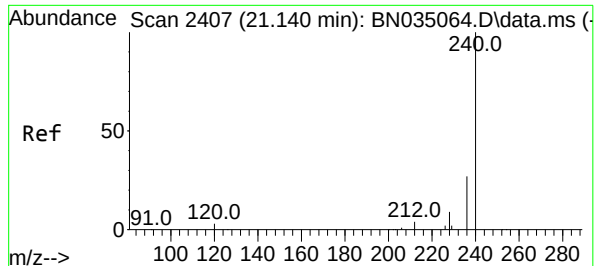
Ion Ratio Lower Upper

202 100

101 6.7 5.2 7.8

203 17.2 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.131 min Scan# 2406

Delta R.T. -0.009 min

Lab File: BN035062.D

Acq: 13 Nov 2024 12:40

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

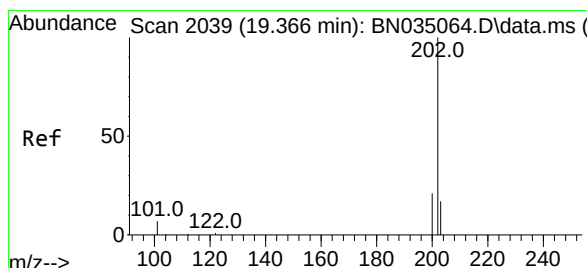
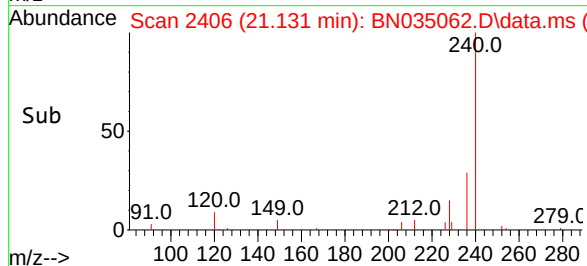
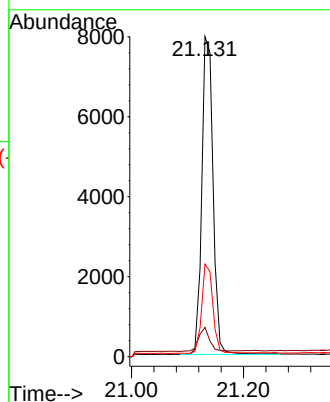
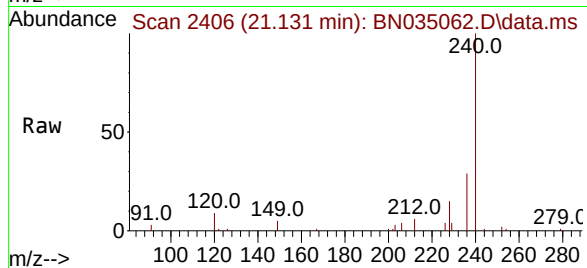
Tgt Ion:240 Resp: 11121

Ion Ratio Lower Upper

240 100

120 9.1 3.8 5.6#

236 28.9 22.2 33.2



#30

Pyrene

Concen: 0.101 ng

RT: 19.366 min Scan# 2039

Delta R.T. -0.000 min

Lab File: BN035062.D

Acq: 13 Nov 2024 12:40

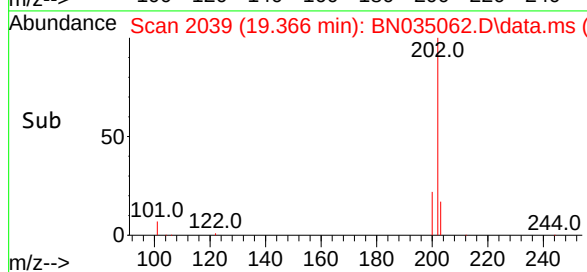
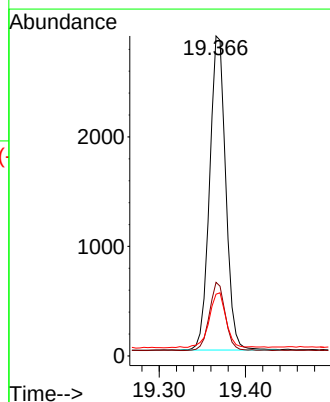
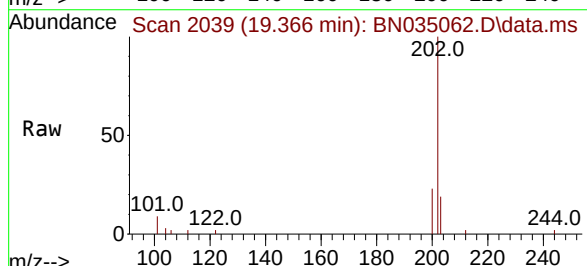
Tgt Ion:202 Resp: 3722

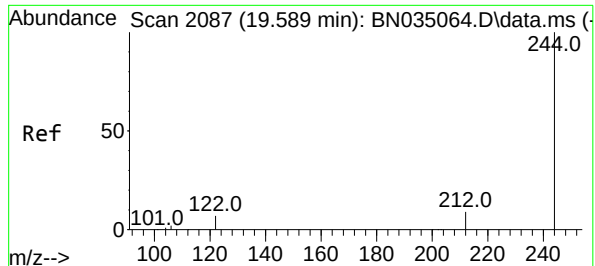
Ion Ratio Lower Upper

202 100

200 21.3 16.7 25.1

203 18.8 14.2 21.4

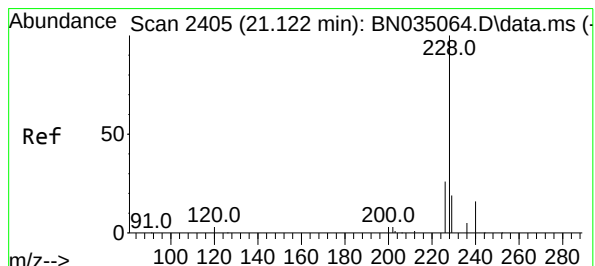
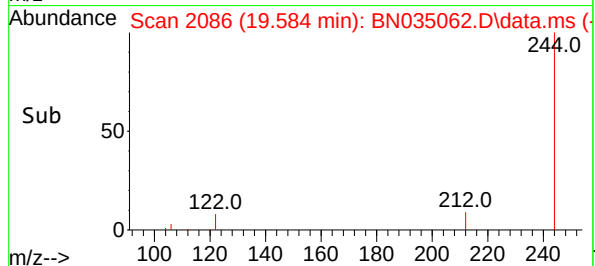
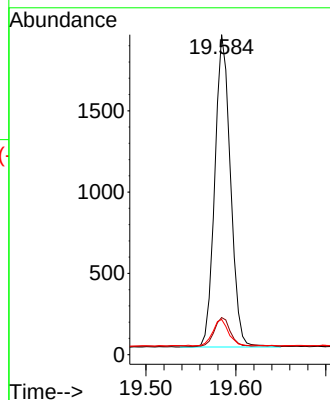
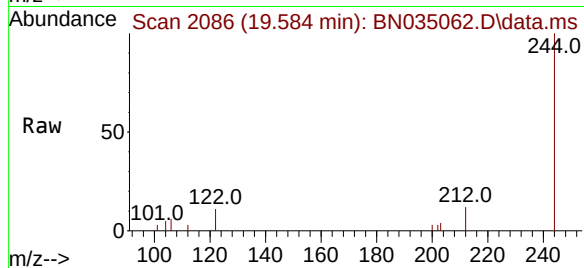




#31
Terphenyl-d14
Concen: 0.100 ng
RT: 19.584 min Scan# 2086
Delta R.T. -0.005 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

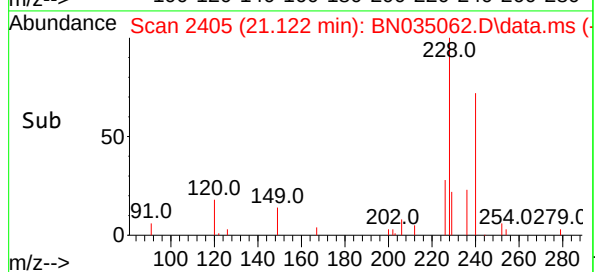
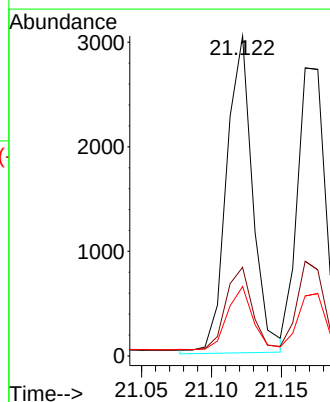
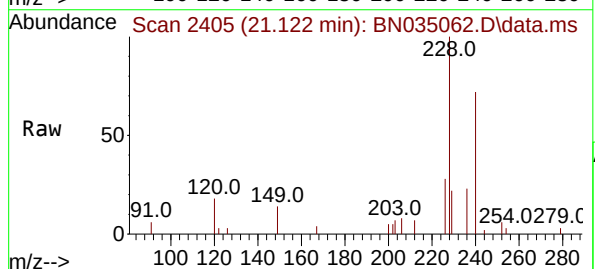
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

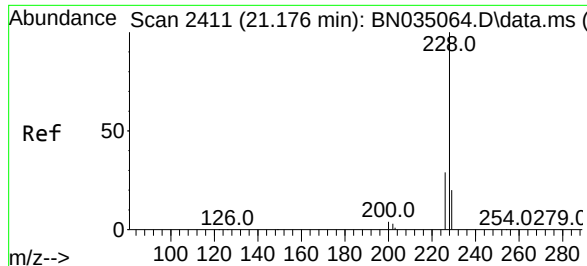
Tgt Ion:244 Resp: 2331
Ion Ratio Lower Upper
244 100
212 11.6 7.6 11.4#
122 11.0 6.1 9.1#



#32
Benzo(a)anthracene
Concen: 0.102 ng
RT: 21.122 min Scan# 2405
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

Tgt Ion:228 Resp: 3952
Ion Ratio Lower Upper
228 100
226 27.7 21.4 32.0
229 21.7 15.7 23.5





#33

Chrysene

Concen: 0.102 ng

RT: 21.167 min Scan# 2411

Delta R.T. -0.009 min

Lab File: BN035062.D

Acq: 13 Nov 2024 12:40

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

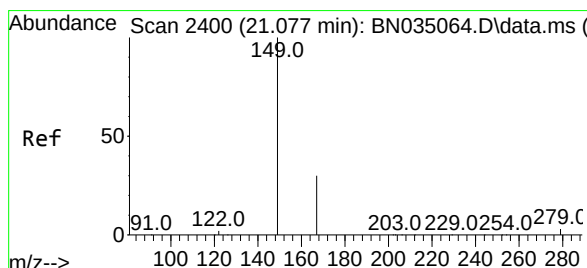
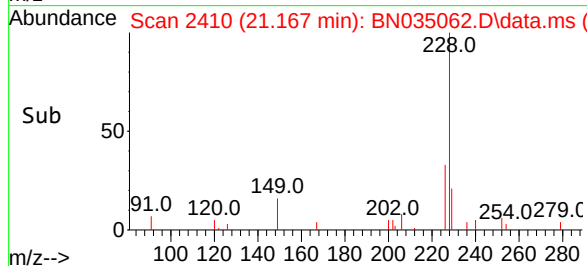
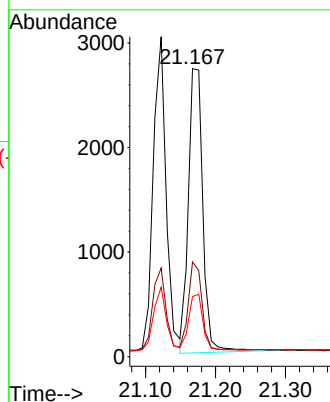
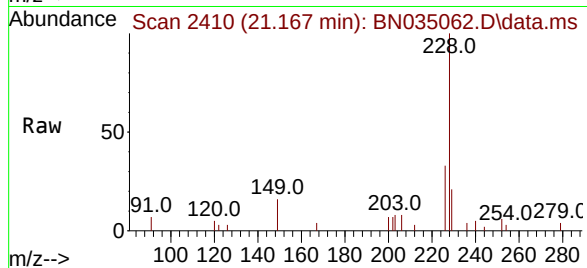
Tgt Ion:228 Resp: 3918

Ion Ratio Lower Upper

228 100

226 32.9 23.7 35.5

229 20.8 16.2 24.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.112 ng

RT: 21.077 min Scan# 2400

Delta R.T. -0.000 min

Lab File: BN035062.D

Acq: 13 Nov 2024 12:40

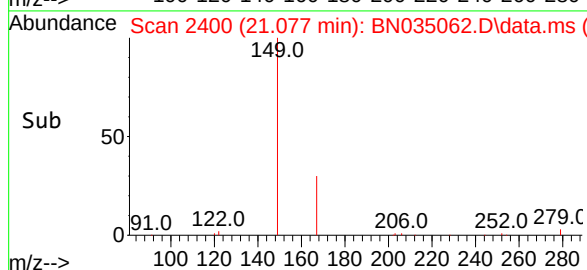
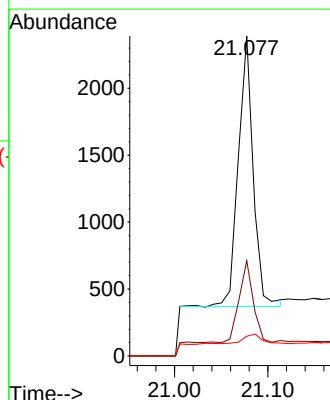
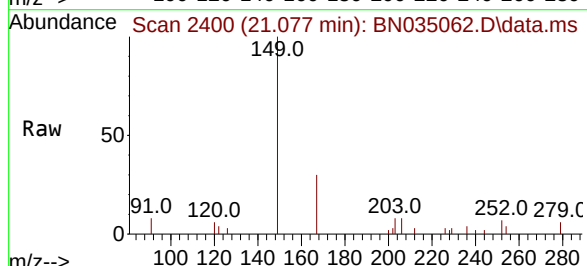
Tgt Ion:149 Resp: 2250

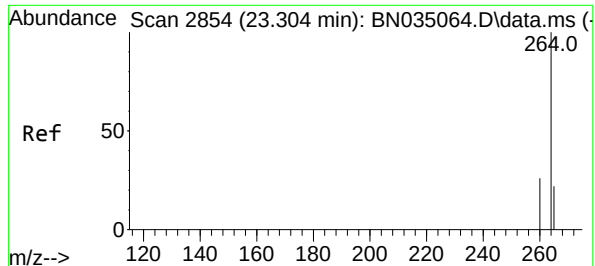
Ion Ratio Lower Upper

149 100

167 29.3 23.2 34.8

279 5.8 3.2 4.8#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.304 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035062.D

Acq: 13 Nov 2024 12:40

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

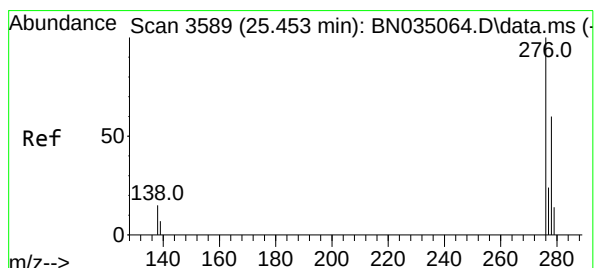
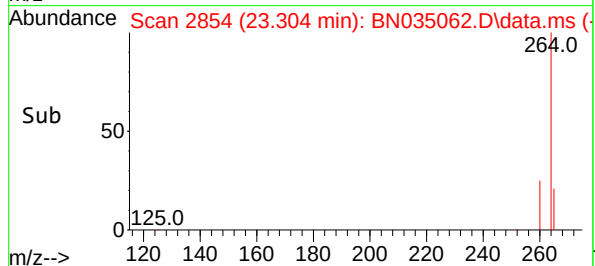
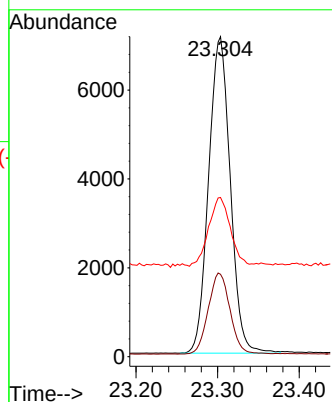
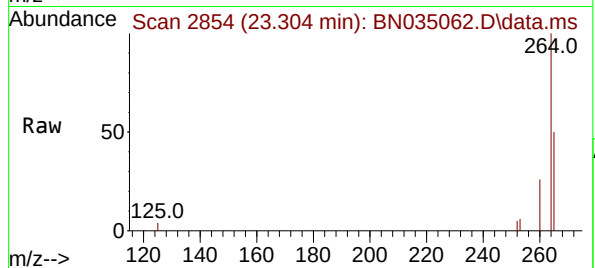
Tgt Ion:264 Resp: 13104

Ion Ratio Lower Upper

264 100

260 25.7 20.9 31.3

265 49.8 35.4 53.2



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.101 ng

RT: 25.455 min Scan# 3590

Delta R.T. 0.003 min

Lab File: BN035062.D

Acq: 13 Nov 2024 12:40

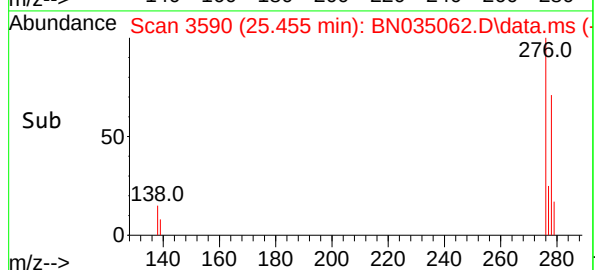
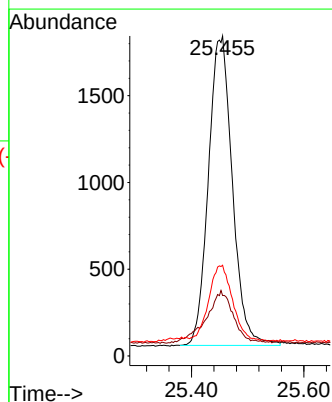
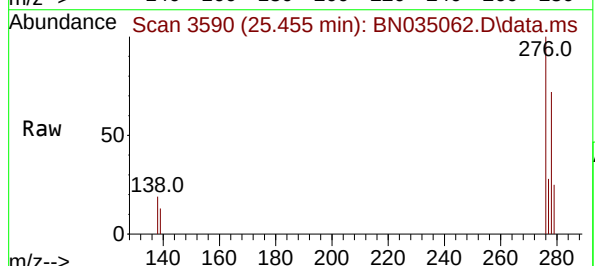
Tgt Ion:276 Resp: 5271

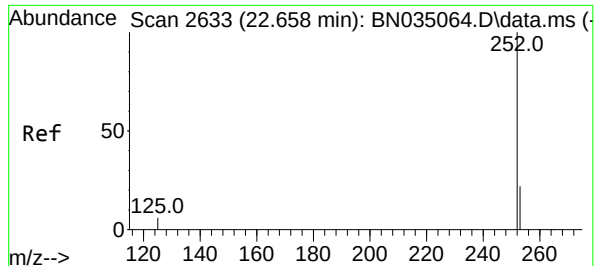
Ion Ratio Lower Upper

276 100

138 19.3 13.0 19.4

277 23.9 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.099 ng

RT: 22.657 min Scan# 2633

Delta R.T. -0.000 min

Lab File: BN035062.D

Acq: 13 Nov 2024 12:40

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

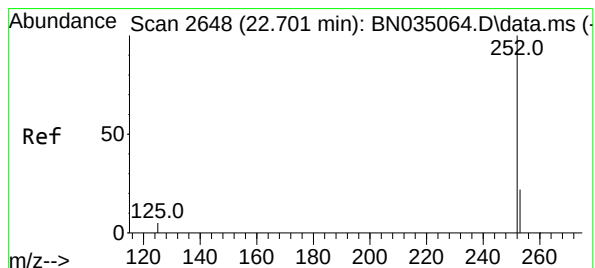
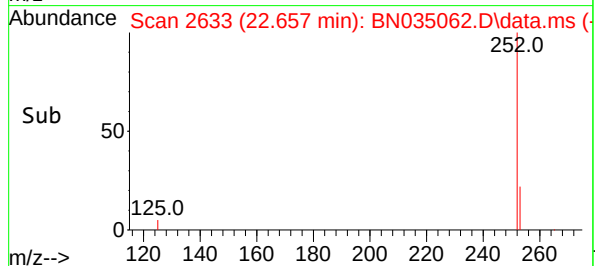
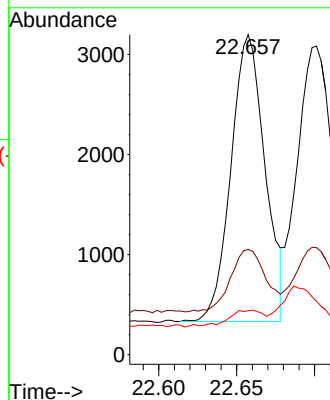
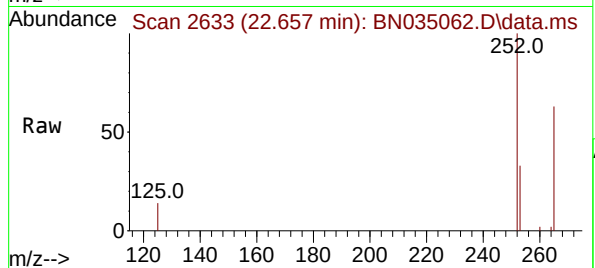
Tgt Ion:252 Resp: 4345

Ion Ratio Lower Upper

252 100

253 32.9 19.3 28.9#

125 13.8 6.2 9.2#



#38

Benzo(k)fluoranthene

Concen: 0.100 ng

RT: 22.701 min Scan# 2648

Delta R.T. -0.000 min

Lab File: BN035062.D

Acq: 13 Nov 2024 12:40

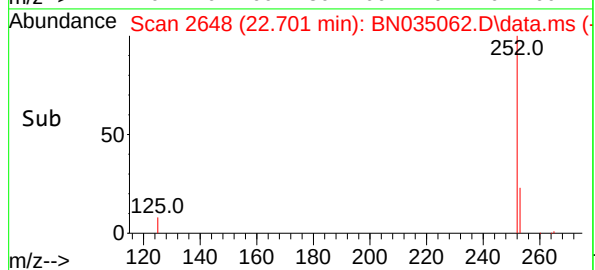
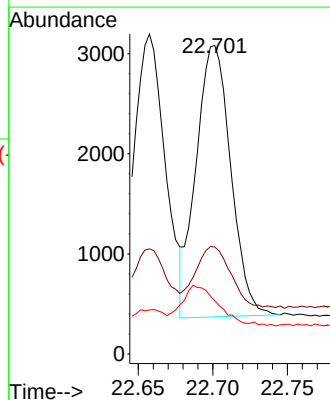
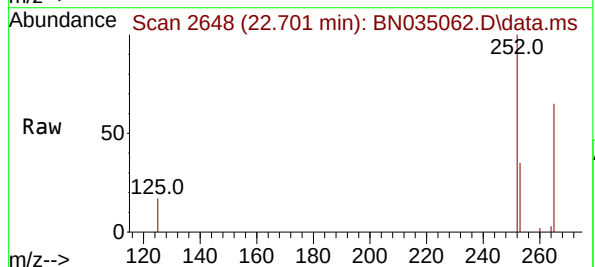
Tgt Ion:252 Resp: 4395

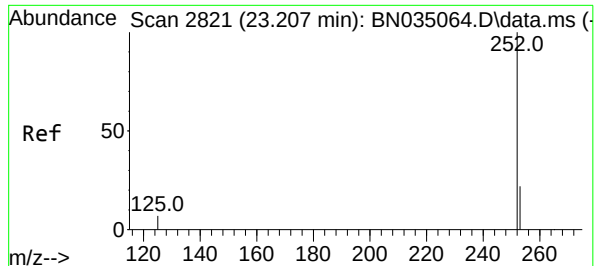
Ion Ratio Lower Upper

252 100

253 34.7 19.5 29.3#

125 17.3 6.5 9.7#





#39

Benzo(a)pyrene

Concen: 0.099 ng

RT: 23.204 min Scan# 2820

Delta R.T. -0.003 min

Lab File: BN035062.D

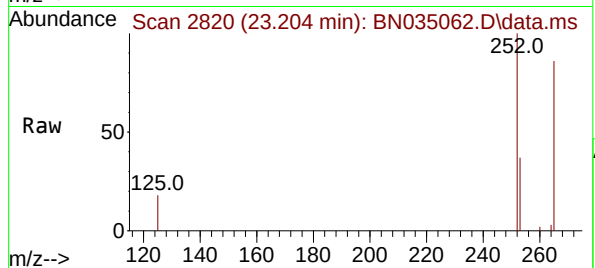
Acq: 13 Nov 2024 12:40

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1



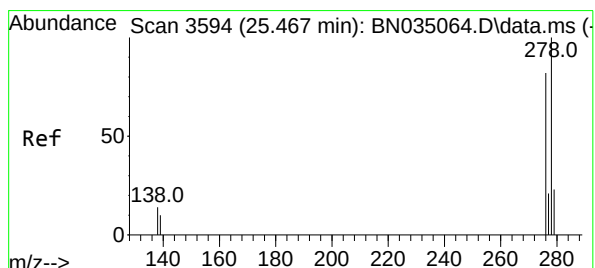
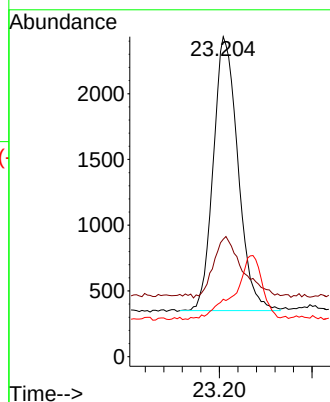
Tgt Ion:252 Resp: 3841

Ion Ratio Lower Upper

252 100

253 36.7 20.1 30.1#

125 18.0 7.5 11.3#



#40

Dibenzo(a,h)anthracene

Concen: 0.099 ng

RT: 25.467 min Scan# 3594

Delta R.T. -0.000 min

Lab File: BN035062.D

Acq: 13 Nov 2024 12:40

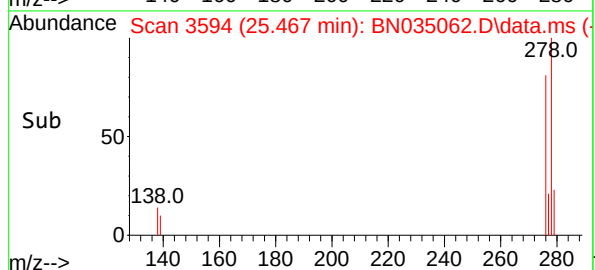
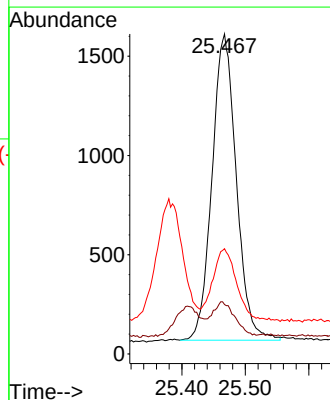
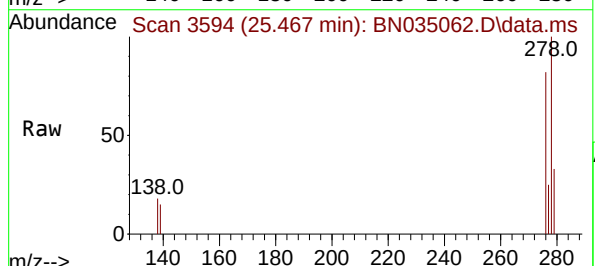
Tgt Ion:278 Resp: 4089

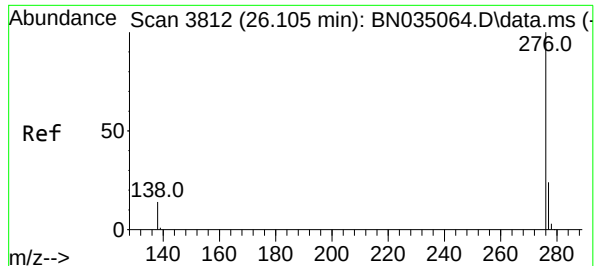
Ion Ratio Lower Upper

278 100

139 15.4 9.3 13.9#

279 32.9 19.7 29.5#





#41

Benzo(g,h,i)perylene

Concen: 0.103 ng

RT: 26.099 min Scan# 3810

Delta R.T. -0.006 min

Lab File: BN035062.D

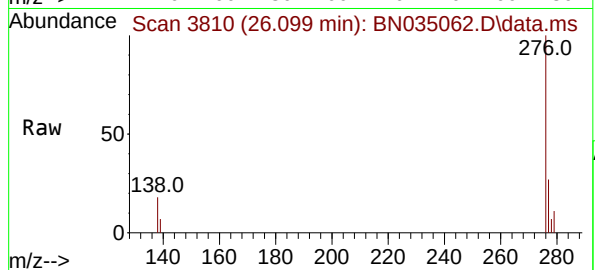
Acq: 13 Nov 2024 12:40

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1



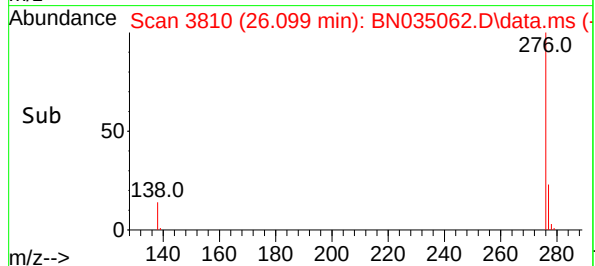
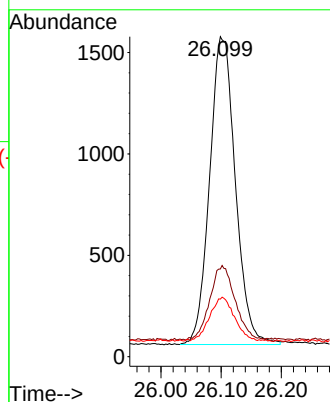
Tgt Ion:276 Resp: 4521

Ion Ratio Lower Upper

276 100

277 27.4 19.9 29.9

138 18.0 11.6 17.4#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
 Data File : BN035063.D
 Acq On : 13 Nov 2024 13:16
 Operator : RC/JU
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

Quant Time: Nov 13 16:43:13 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 16:42:01 2024
 Response via : Initial Calibration

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

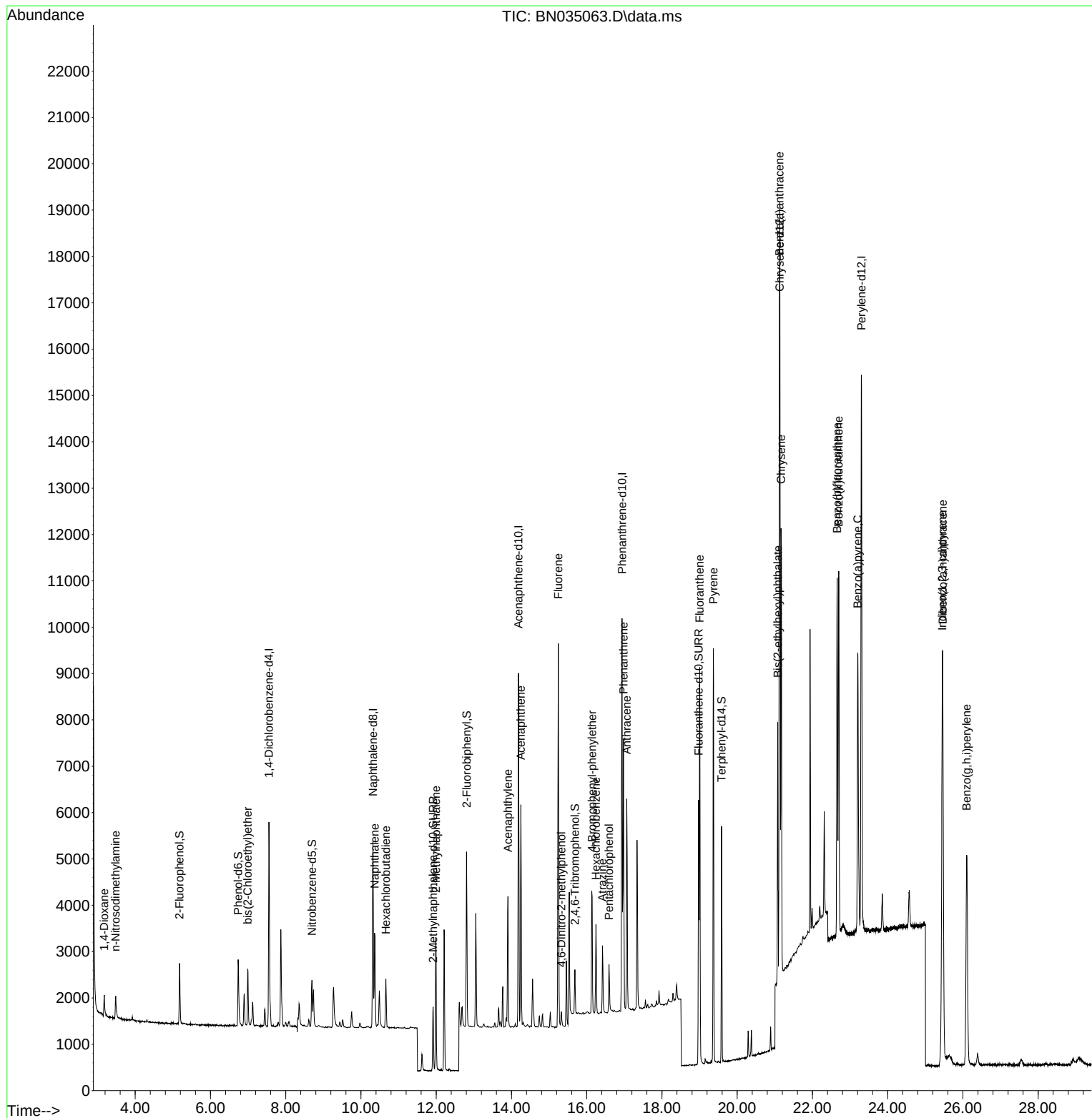
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.553	152	2177	0.400	ng	0.00
7) Naphthalene-d8	10.319	136	5449	0.400	ng	0.00
13) Acenaphthene-d10	14.186	164	4114	0.400	ng	0.00
19) Phenanthrene-d10	16.939	188	11179	0.400	ng	0.00
29) Chrysene-d12	21.131	240	12508	0.400	ng	# 0.00
35) Perylene-d12	23.301	264	14643	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	1131	0.205	ng	0.00
5) Phenol-d6	6.737	99	1392	0.201	ng	0.00
8) Nitrobenzene-d5	8.696	82	921	0.195	ng	0.00
11) 2-Methylnaphthalene-d10	11.916	152	1861	0.192	ng	0.00
14) 2,4,6-Tribromophenol	15.686	330	538	0.181	ng	0.00
15) 2-Fluorobiphenyl	12.807	172	3241	0.194	ng	0.00
27) Fluoranthene-d10	18.976	212	6587	0.192	ng	0.00
31) Terphenyl-d14	19.584	244	5123	0.195	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.177	88	416	0.210	ng	94
3) n-Nitrosodimethylamine	3.480	42	357	0.194	ng	# 97
6) bis(2-Chloroethyl)ether	6.990	93	1033	0.199	ng	99
9) Naphthalene	10.362	128	2748	0.193	ng	96
10) Hexachlorobutadiene	10.661	225	832	0.200	ng	# 99
12) 2-Methylnaphthalene	11.992	142	2039	0.194	ng	97
16) Acenaphthylene	13.908	152	3325	0.189	ng	100
17) Acenaphthene	14.251	154	2219	0.193	ng	99
18) Fluorene	15.245	166	3273	0.193	ng	99
20) 4,6-Dinitro-2-methylph...	15.330	198	376	0.162	ng	# 44
21) 4-Bromophenyl-phenylether	16.145	248	1341	0.188	ng	97
22) Hexachlorobenzene	16.244	284	1445	0.195	ng	99
23) Atrazine	16.418	200	1271	0.199	ng	96
24) Pentachlorophenol	16.592	266	562	0.163	ng	99
25) Phenanthrene	16.977	178	5664	0.193	ng	99
26) Anthracene	17.064	178	5051	0.187	ng	98
28) Fluoranthene	19.004	202	7690	0.190	ng	100
30) Pyrene	19.366	202	8067	0.194	ng	99
32) Benzo(a)anthracene	21.122	228	8558	0.196	ng	99
33) Chrysene	21.167	228	8540	0.198	ng	97
34) Bis(2-ethylhexyl)phtha...	21.077	149	4712	0.208	ng	99
36) Indeno(1,2,3-cd)pyrene	25.450	276	11095	0.190	ng	99
37) Benzo(b)fluoranthene	22.657	252	9315	0.189	ng	# 94
38) Benzo(k)fluoranthene	22.698	252	9432	0.191	ng	# 92
39) Benzo(a)pyrene	23.204	252	8302	0.192	ng	# 92
40) Dibenzo(a,h)anthracene	25.464	278	8750	0.189	ng	95
41) Benzo(g,h,i)perylene	26.099	276	9431	0.192	ng	98

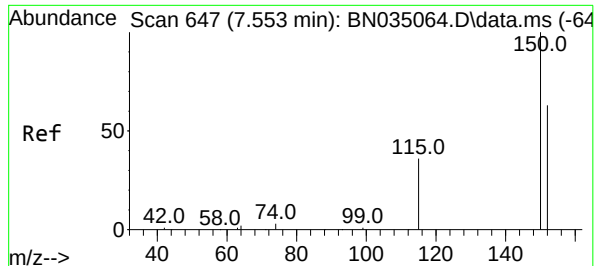
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
Data File : BN035063.D
Acq On : 13 Nov 2024 13:16
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Nov 13 16:43:13 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 16:42:01 2024
Response via : Initial Calibration

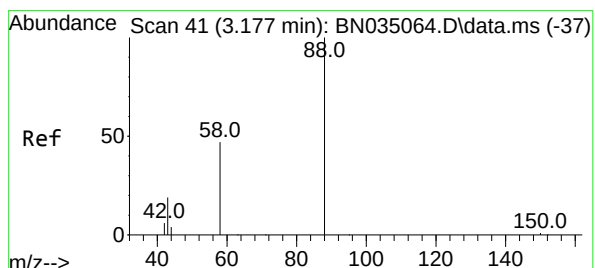
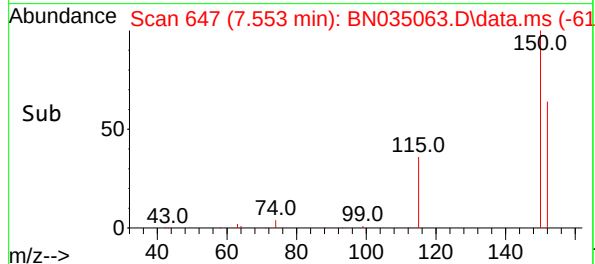
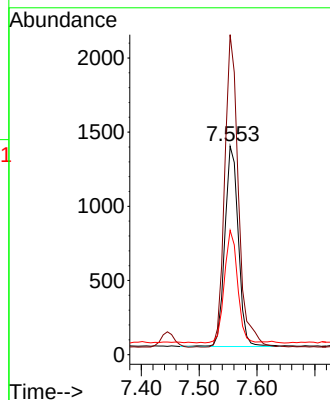
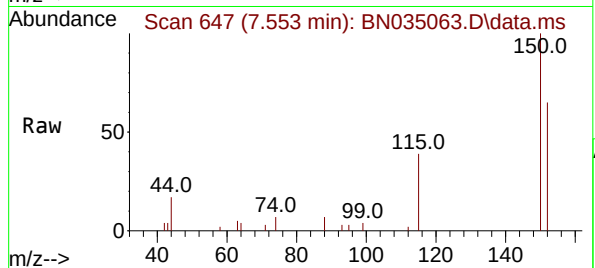




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.553 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

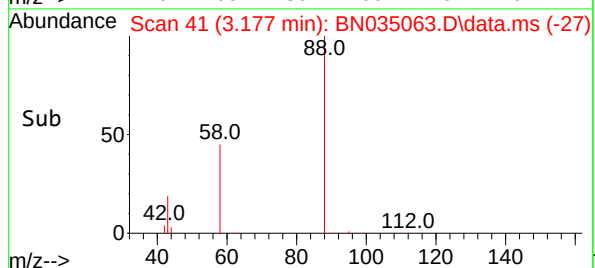
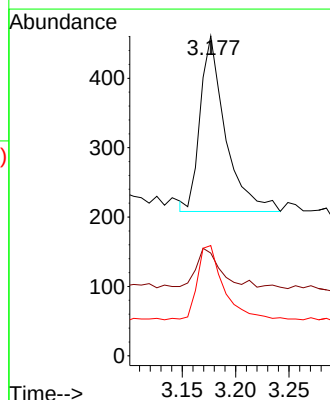
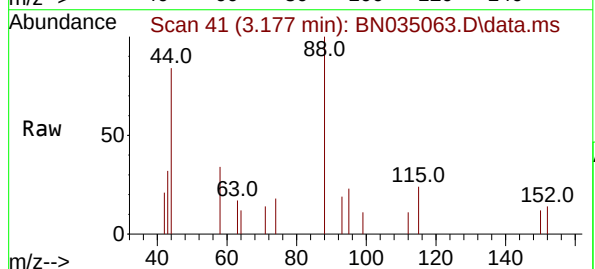
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

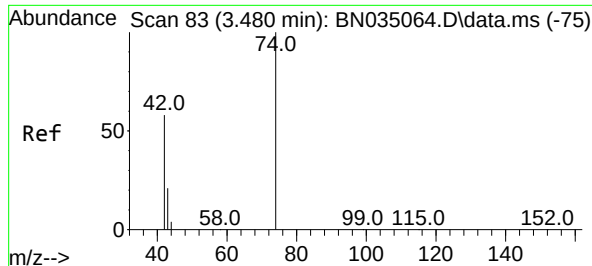
Tgt Ion:152 Resp: 2177
Ion Ratio Lower Upper
152 100
150 153.5 124.5 186.7
115 59.6 47.8 71.6



#2
1,4-Dioxane
Concen: 0.210 ng
RT: 3.177 min Scan# 41
Delta R.T. 0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Tgt Ion: 88 Resp: 416
Ion Ratio Lower Upper
88 100
43 24.3 16.9 25.3
58 44.5 39.0 58.4

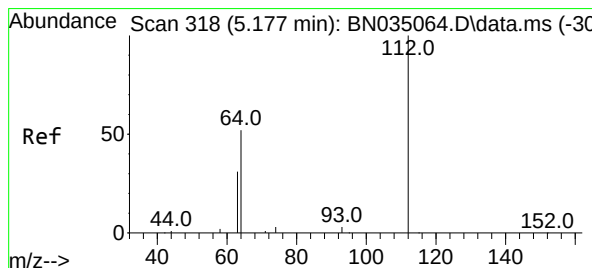
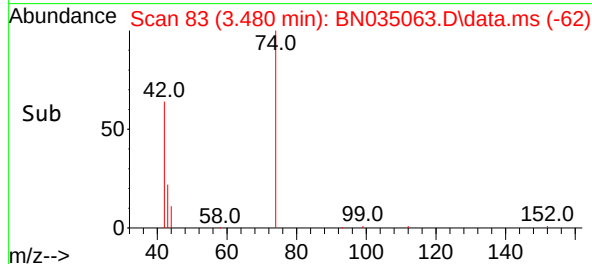
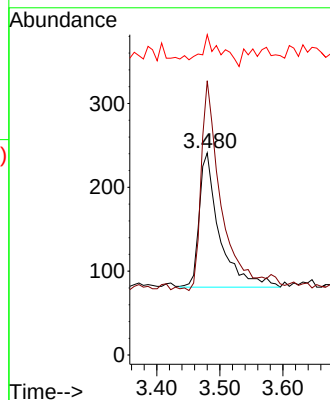
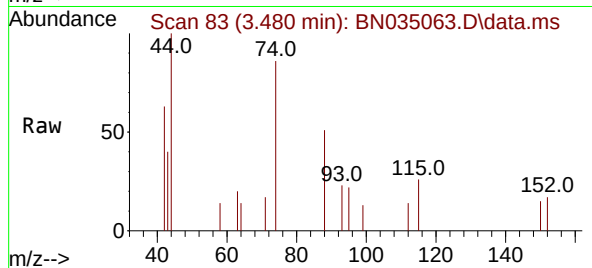




#3
n-Nitrosodimethylamine
Concen: 0.194 ng
RT: 3.480 min Scan# 81
Delta R.T. 0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

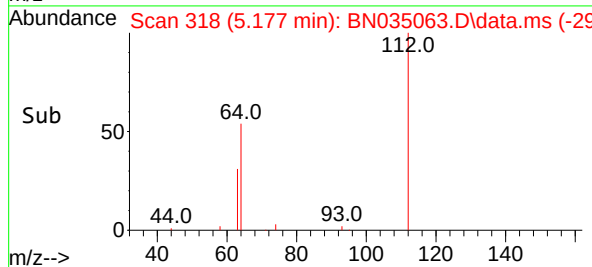
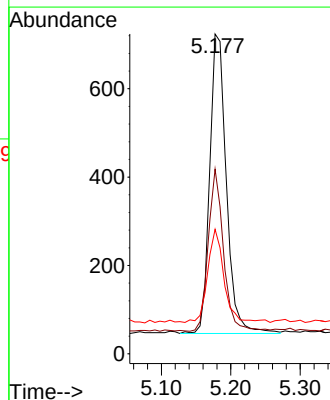
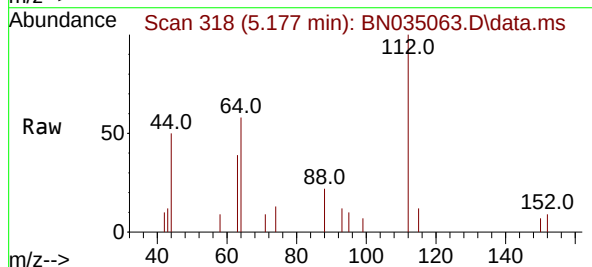
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

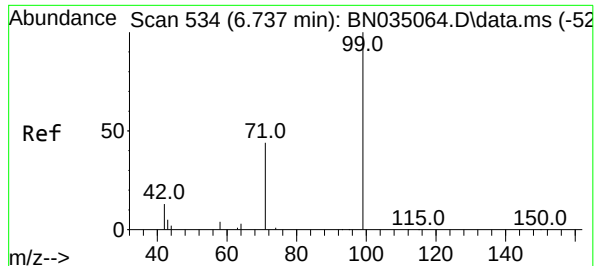
Tgt Ion: 42 Resp: 357
Ion Ratio Lower Upper
42 100
74 149.3 120.8 181.2
44 22.1 2.9 4.3#



#4
2-Fluorophenol
Concen: 0.205 ng
RT: 5.177 min Scan# 318
Delta R.T. -0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Tgt Ion: 112 Resp: 1131
Ion Ratio Lower Upper
112 100
64 49.8 39.7 59.5
63 30.4 23.0 34.4

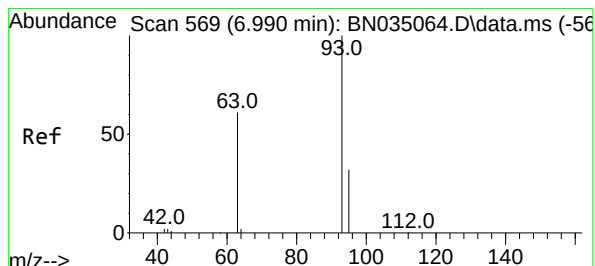
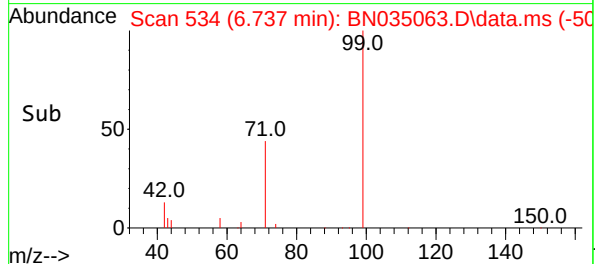
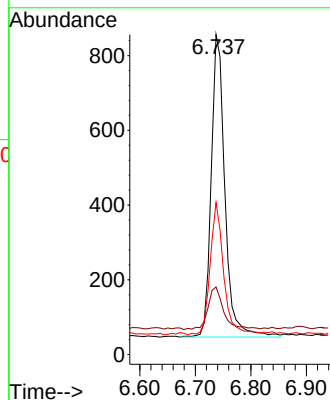
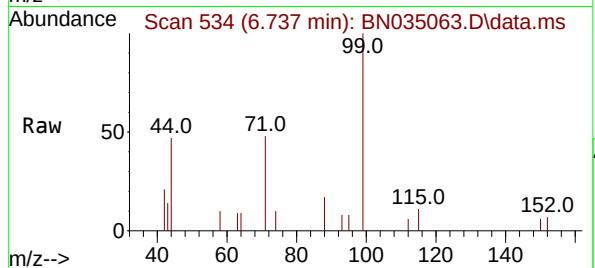




#5
Phenol-d6
Concen: 0.201 ng
RT: 6.737 min Scan# 511
Delta R.T. -0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

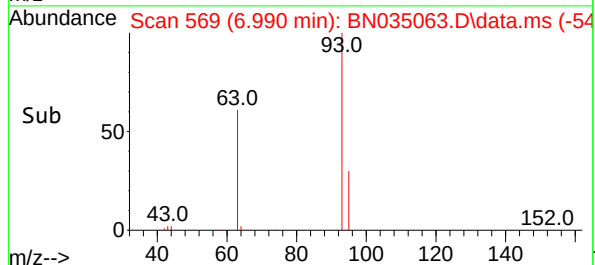
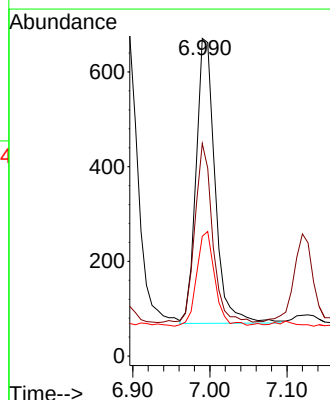
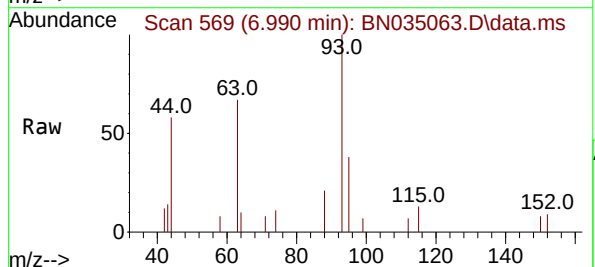
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

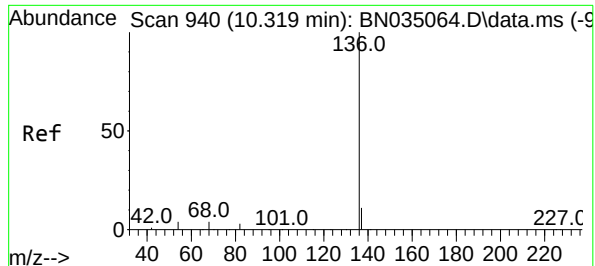
Tgt Ion: 99 Resp: 1392
Ion Ratio Lower Upper
99 100
42 16.1 11.4 17.0
71 43.0 34.6 51.8



#6
bis(2-Chloroethyl)ether
Concen: 0.199 ng
RT: 6.990 min Scan# 569
Delta R.T. 0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Tgt Ion: 93 Resp: 1033
Ion Ratio Lower Upper
93 100
63 58.2 47.4 71.2
95 32.1 26.2 39.4

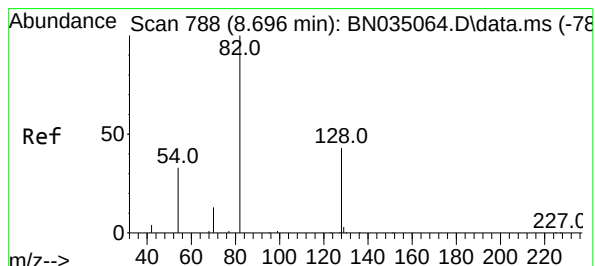
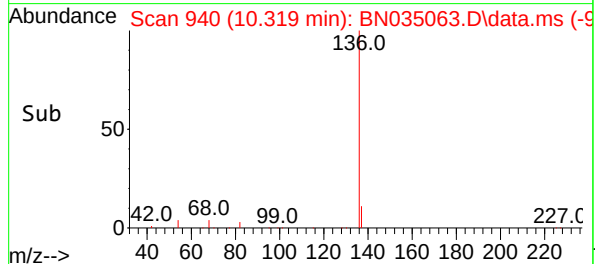
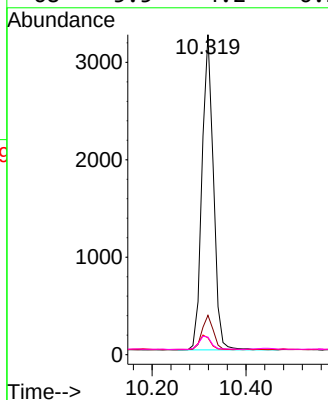
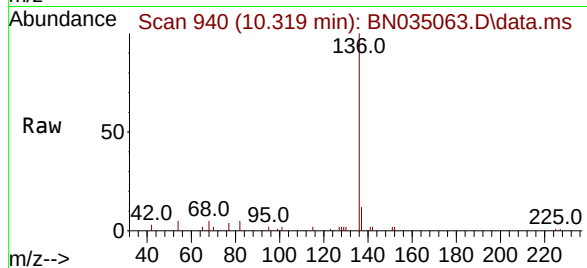




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.319 min Scan# 940
Delta R.T. -0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

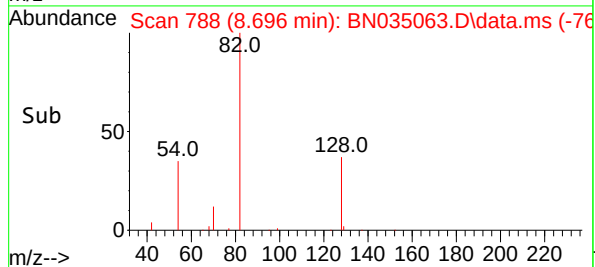
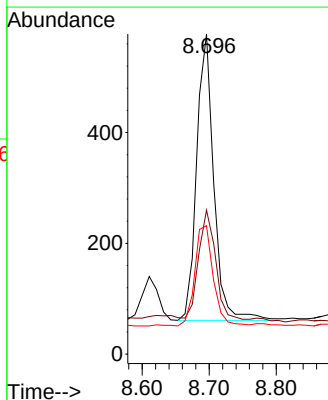
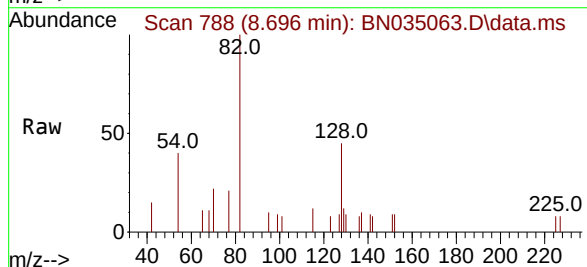
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

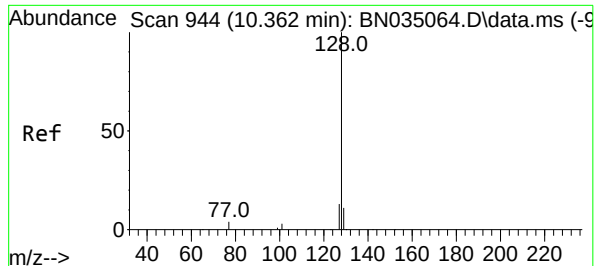
Tgt Ion:	136	Resp:	5449
Ion	Ratio	Lower	Upper
136	100		
137	12.3	9.8	14.8
54	5.2	4.0	6.0
68	5.5	4.2	6.2



#8
Nitrobenzene-d5
Concen: 0.195 ng
RT: 8.696 min Scan# 788
Delta R.T. 0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Tgt Ion:	82	Resp:	921
Ion	Ratio	Lower	Upper
82	100		
128	45.0	36.5	54.7
54	40.1	28.7	43.1

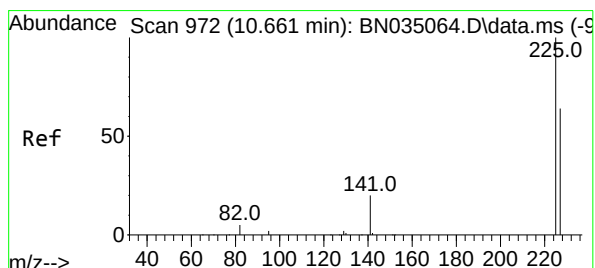
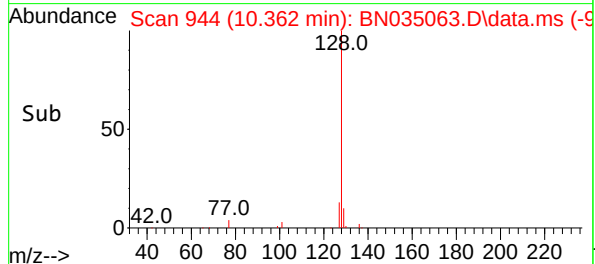
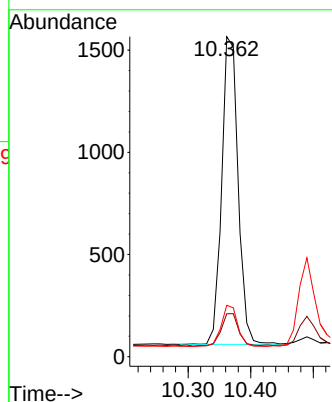
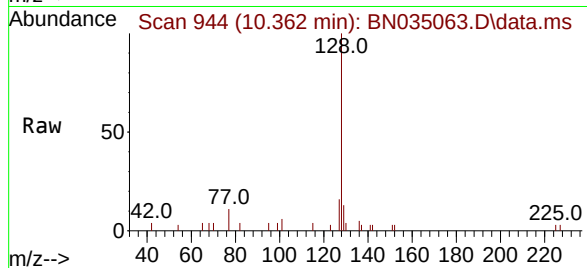




#9
Naphthalene
Concen: 0.193 ng
RT: 10.362 min Scan# 944
Delta R.T. -0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

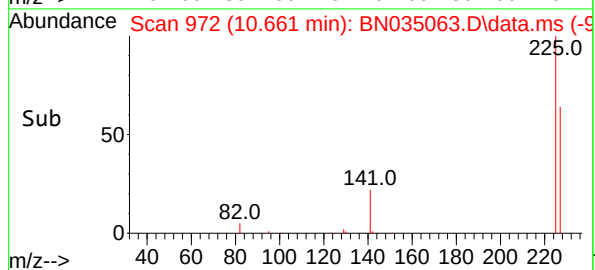
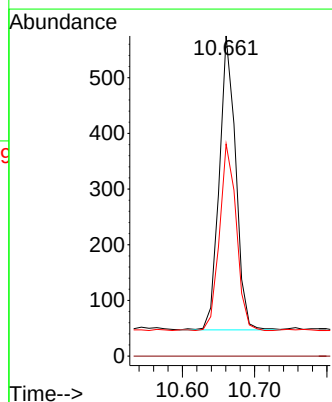
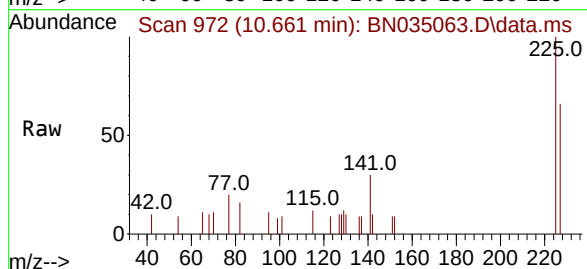
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

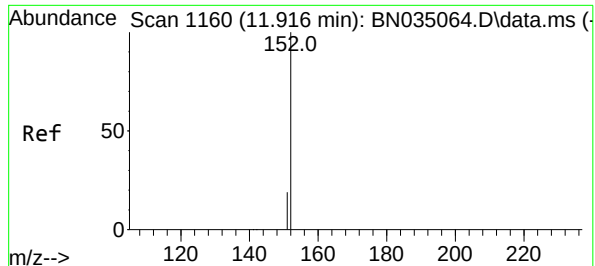
Tgt Ion:128 Resp: 2748
Ion Ratio Lower Upper
128 100
129 13.4 9.6 14.4
127 16.0 11.6 17.4



#10
Hexachlorobutadiene
Concen: 0.200 ng
RT: 10.661 min Scan# 972
Delta R.T. 0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Tgt Ion:225 Resp: 832
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 65.1 51.5 77.3

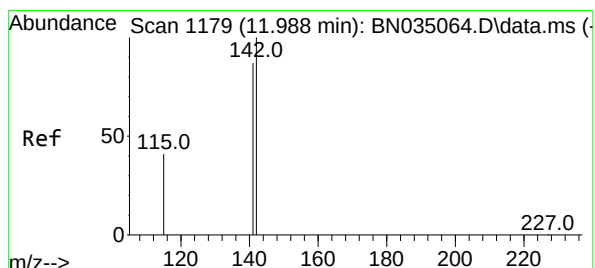
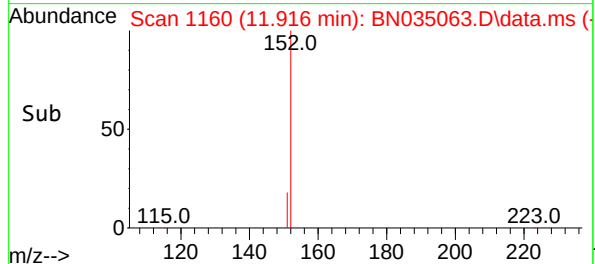
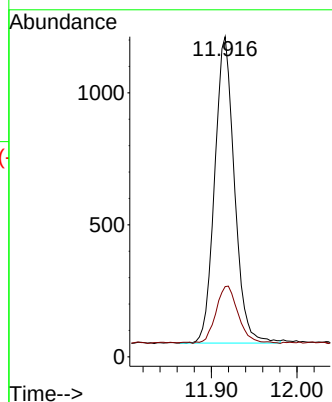
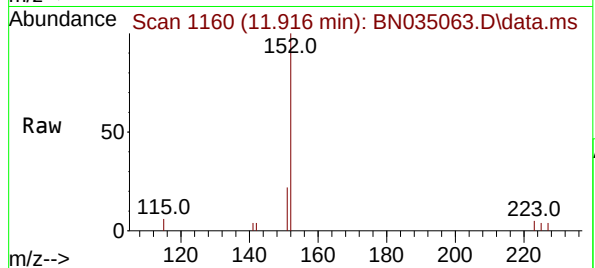




#11
2-Methylnaphthalene-d10
Concen: 0.192 ng
RT: 11.916 min Scan# 1160
Delta R.T. 0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

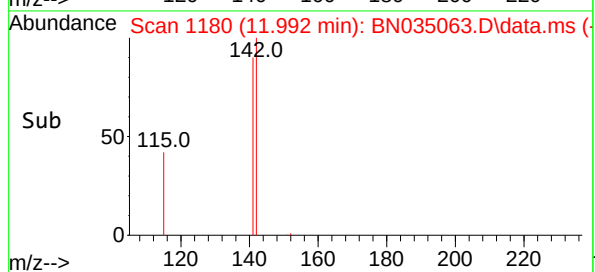
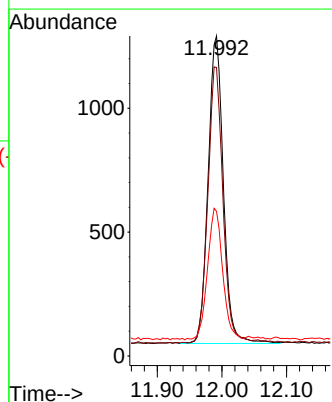
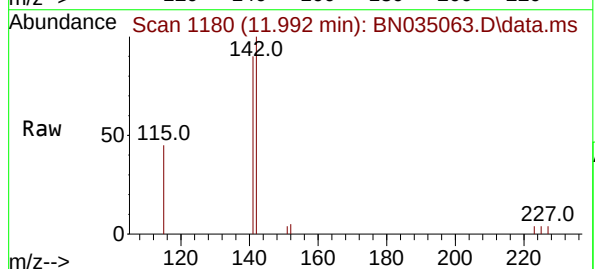
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

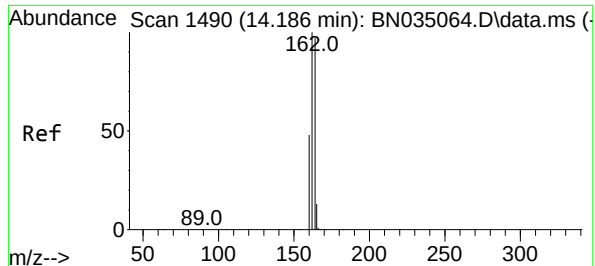
Tgt Ion:152 Resp: 1861
Ion Ratio Lower Upper
152 100
151 21.1 16.2 24.4



#12
2-Methylnaphthalene
Concen: 0.194 ng
RT: 11.992 min Scan# 1180
Delta R.T. 0.004 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Tgt Ion:142 Resp: 2039
Ion Ratio Lower Upper
142 100
141 90.2 70.1 105.1
115 45.2 34.4 51.6

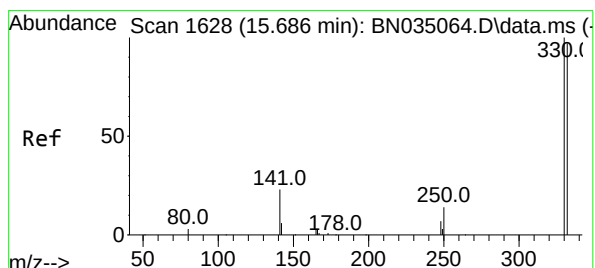
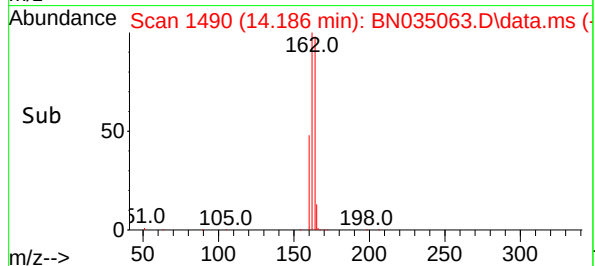
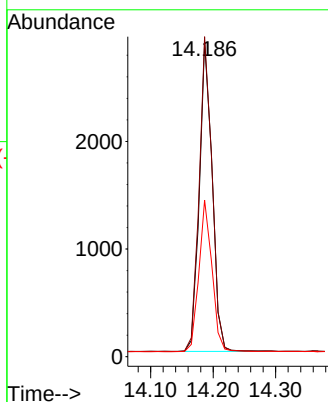
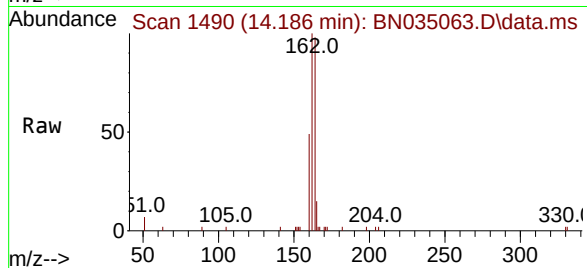




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.186 min Scan# 1490
Delta R.T. -0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

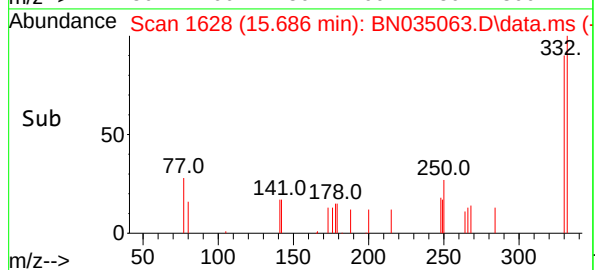
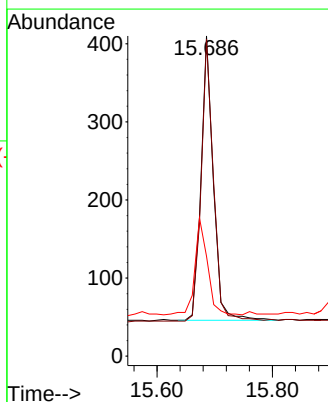
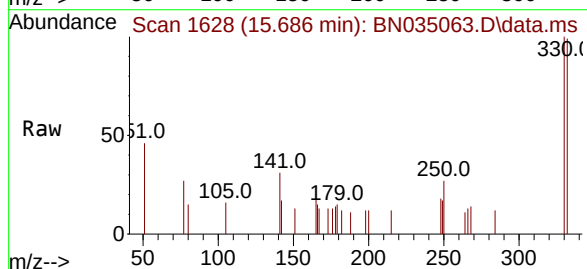
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

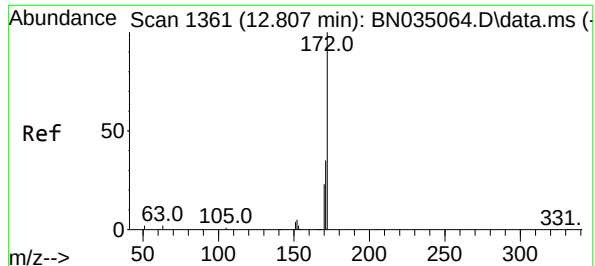
Tgt Ion:164 Resp: 4114
Ion Ratio Lower Upper
164 100
162 101.7 82.2 123.2
160 49.8 40.2 60.4



#14
2,4,6-Tribromophenol
Concen: 0.181 ng
RT: 15.686 min Scan# 1628
Delta R.T. 0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Tgt Ion:330 Resp: 538
Ion Ratio Lower Upper
330 100
332 99.1 76.9 115.3
141 34.8 29.6 44.4

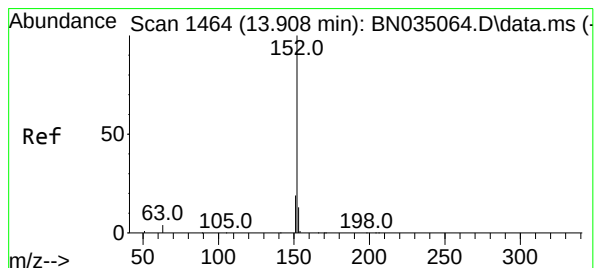
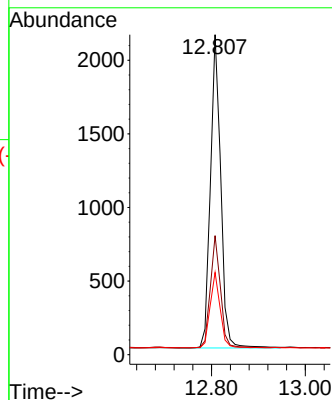
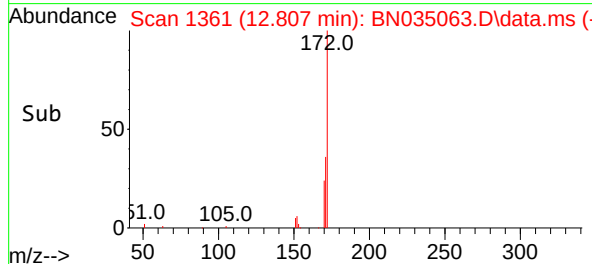
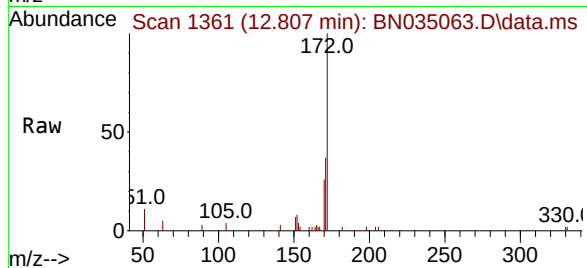




#15
2-Fluorobiphenyl
Concen: 0.194 ng
RT: 12.807 min Scan# 1361
Delta R.T. -0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

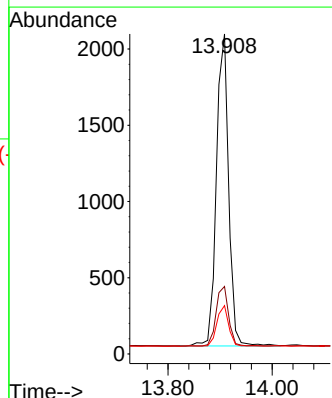
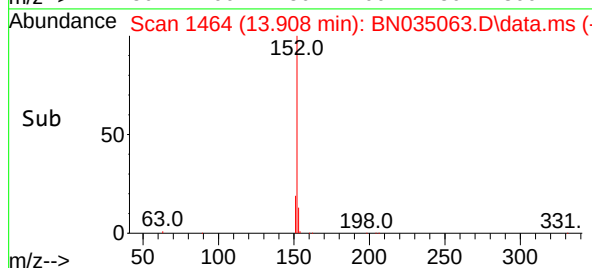
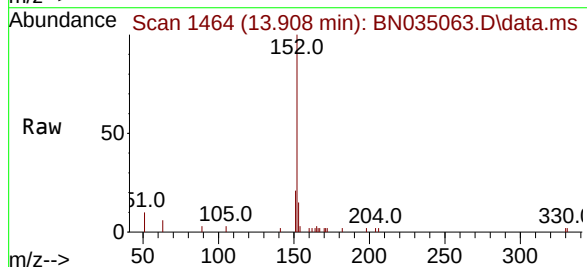
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

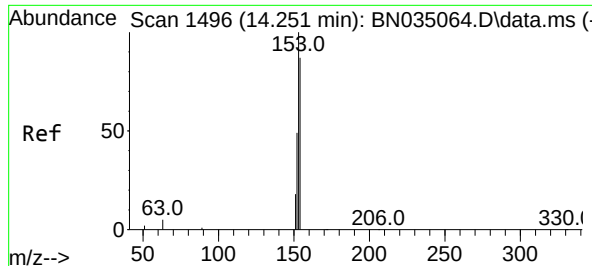
Tgt Ion	Ratio	Lower	Upper
172	100		
171	37.2	28.2	42.4
170	25.7	19.0	28.6



#16
Acenaphthylene
Concen: 0.189 ng
RT: 13.908 min Scan# 1464
Delta R.T. -0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.6	15.8	23.8
153	13.0	10.2	15.4

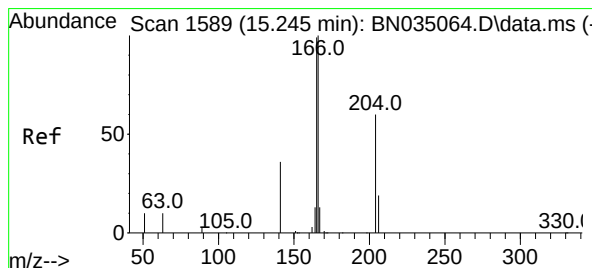
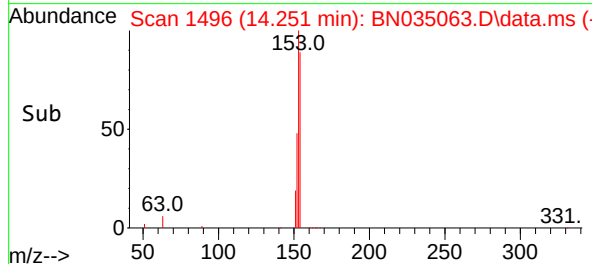
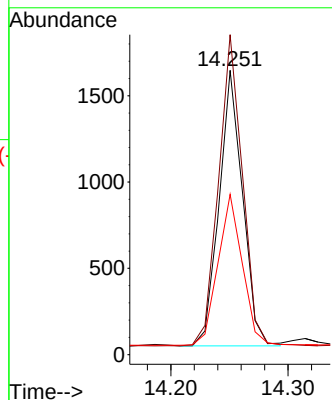
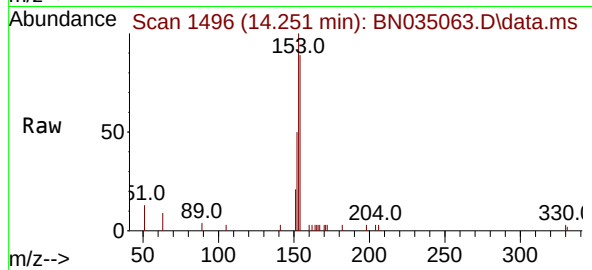




#17
Acenaphthene
Concen: 0.193 ng
RT: 14.251 min Scan# 1496
Delta R.T. 0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

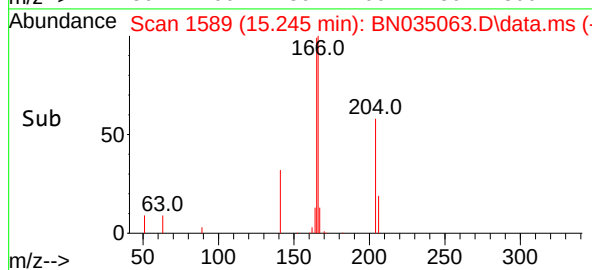
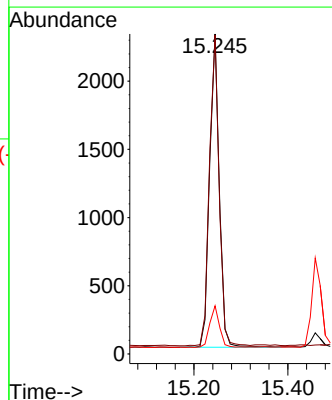
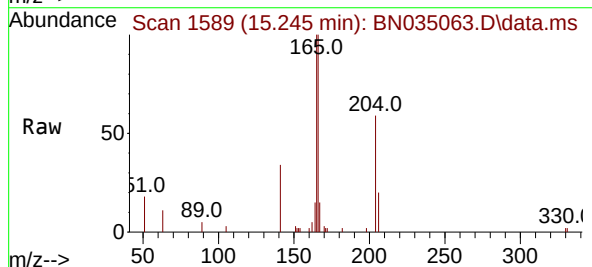
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

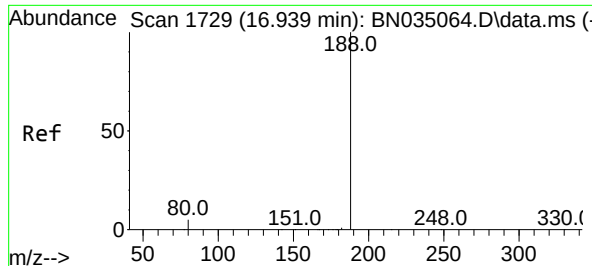
Tgt Ion	154	153	152
Resp:	2219		
Ion Ratio	100	114.9	57.9
Lower		91.6	45.8
Upper		137.4	68.6



#18
Fluorene
Concen: 0.193 ng
RT: 15.245 min Scan# 1589
Delta R.T. -0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Tgt Ion	166	165	167
Resp:	3273		
Ion Ratio	100	99.5	13.4
Lower		79.1	10.6
Upper		118.7	16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.939 min Scan# 1729

Delta R.T. 0.000 min

Lab File: BN035063.D

Acq: 13 Nov 2024 13:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

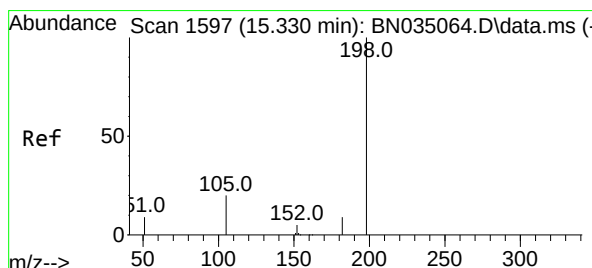
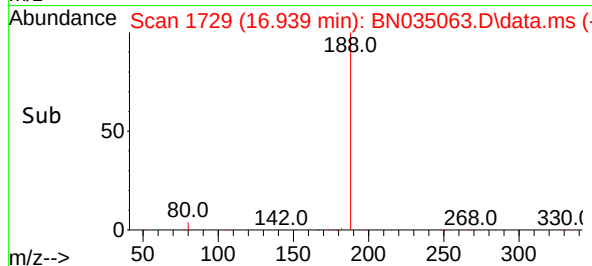
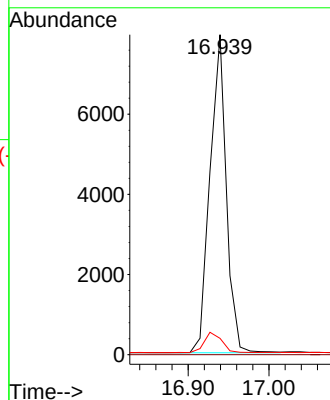
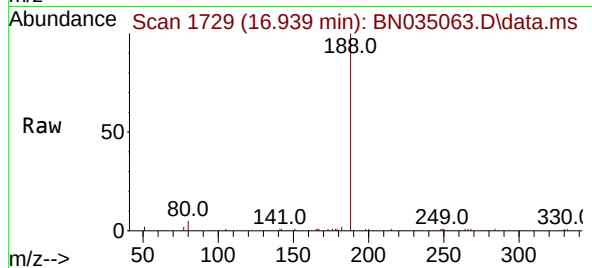
Tgt Ion:188 Resp: 11179

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 5.1 4.3 6.5



#20

4,6-Dinitro-2-methylphenol

Concen: 0.162 ng

RT: 15.330 min Scan# 1597

Delta R.T. 0.000 min

Lab File: BN035063.D

Acq: 13 Nov 2024 13:16

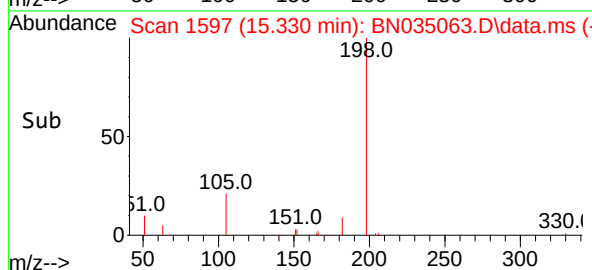
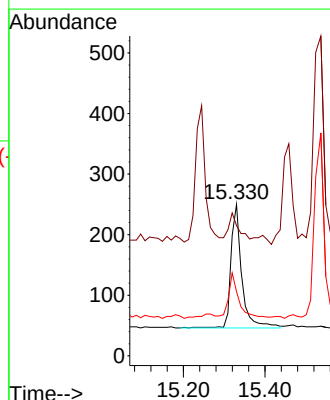
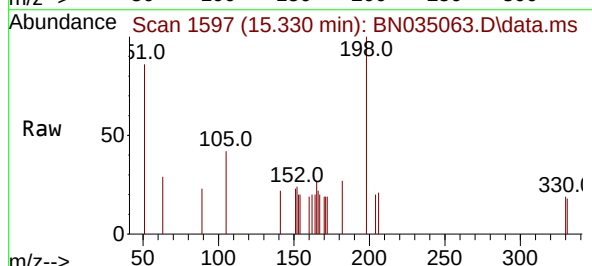
Tgt Ion:198 Resp: 376

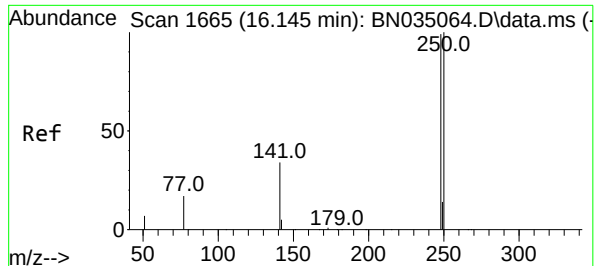
Ion Ratio Lower Upper

198 100

51 86.0 29.9 44.9#

105 42.4 23.7 35.5#

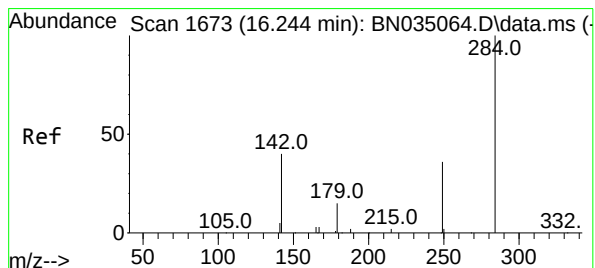
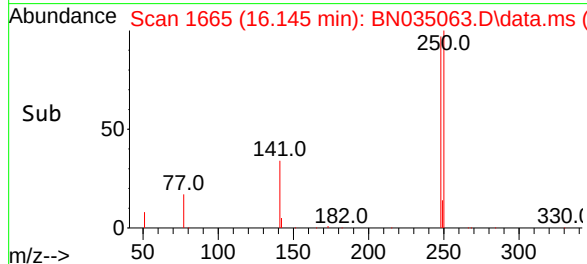
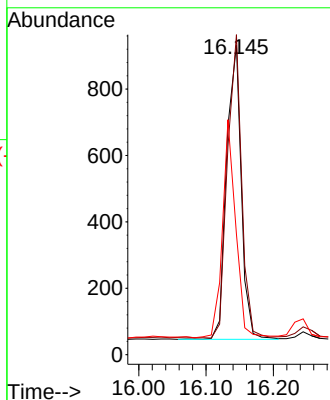
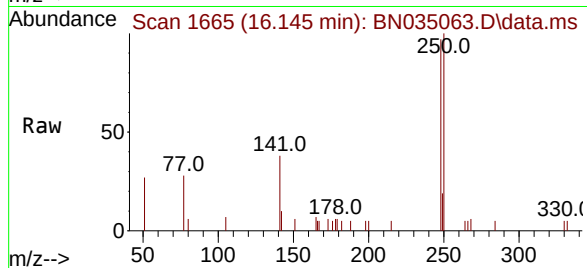




#21
4-Bromophenyl-phenylether
Concen: 0.188 ng
RT: 16.145 min Scan# 1665
Delta R.T. -0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

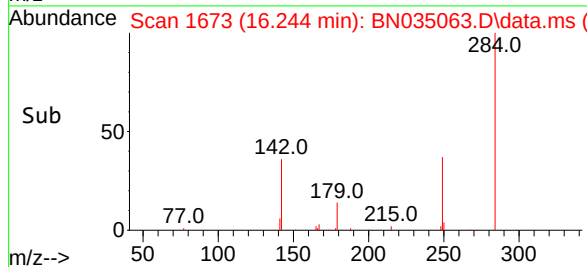
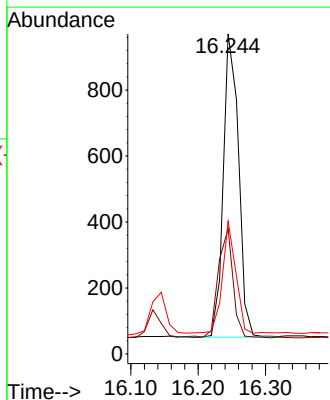
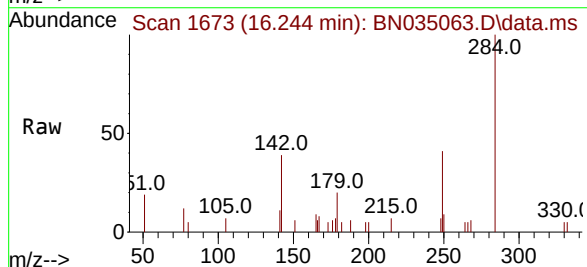
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

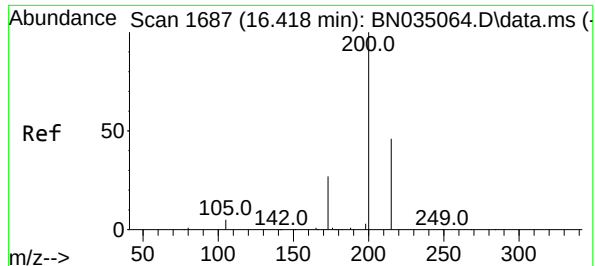
Tgt Ion	Ratio	Lower	Upper
248	100		
250	103.4	81.2	121.8
141	38.9	29.1	43.7



#22
Hexachlorobenzene
Concen: 0.195 ng
RT: 16.244 min Scan# 1673
Delta R.T. -0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Tgt Ion	Ratio	Lower	Upper
284	100		
142	34.7	28.2	42.4
249	32.9	26.2	39.2

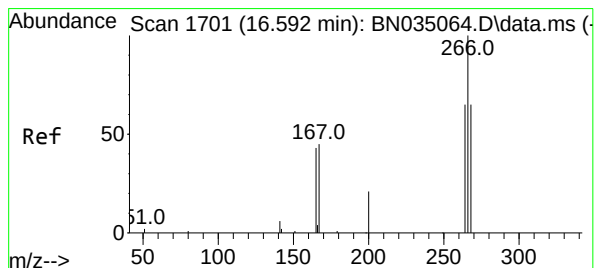
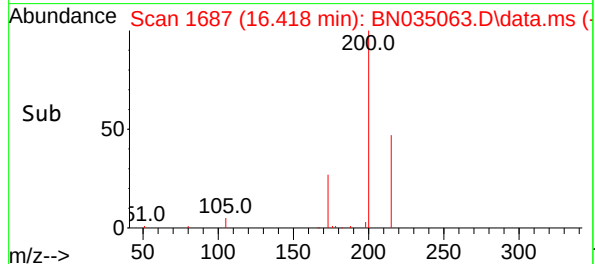
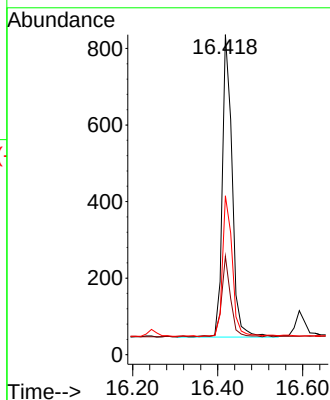
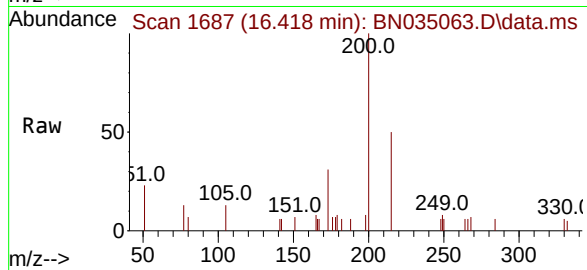




#23
Atrazine
Concen: 0.199 ng
RT: 16.418 min Scan# 1687
Delta R.T. -0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

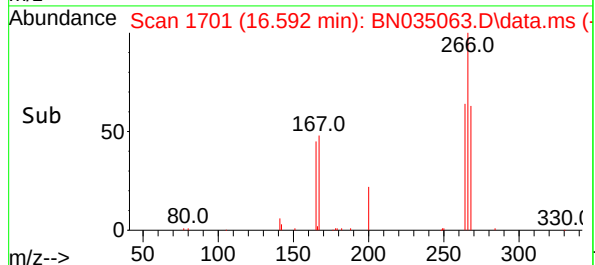
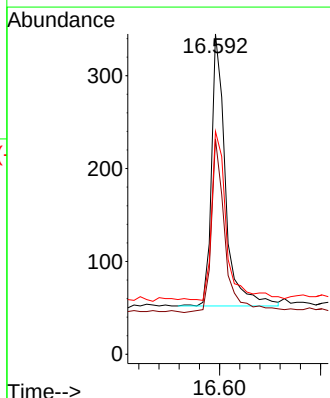
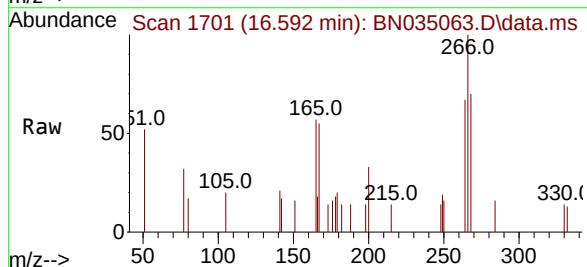
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

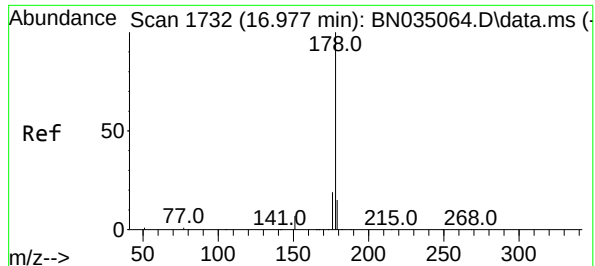
Tgt Ion:200 Resp: 1271
Ion Ratio Lower Upper
200 100
173 30.7 22.6 33.8
215 49.6 37.8 56.6



#24
Pentachlorophenol
Concen: 0.163 ng
RT: 16.592 min Scan# 1701
Delta R.T. 0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Tgt Ion:266 Resp: 562
Ion Ratio Lower Upper
266 100
264 63.3 49.4 74.0
268 65.1 52.6 79.0

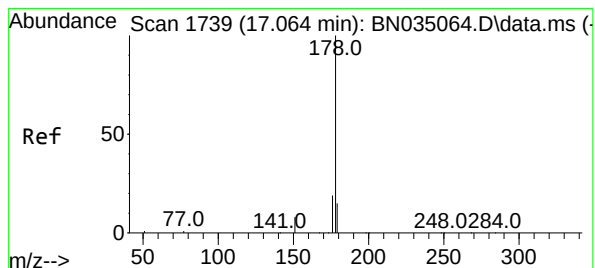
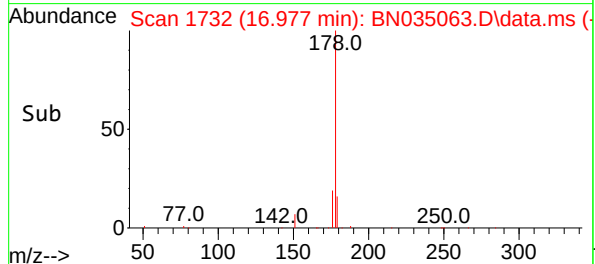
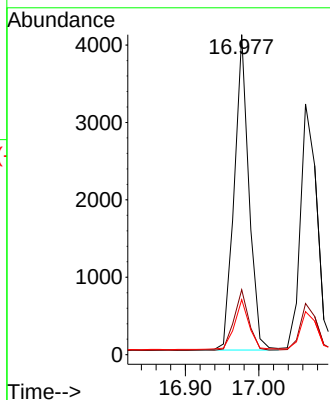
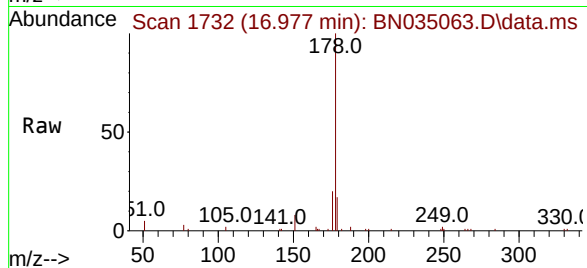




#25
Phenanthrene
Concen: 0.193 ng
RT: 16.977 min Scan# 1732
Delta R.T. 0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

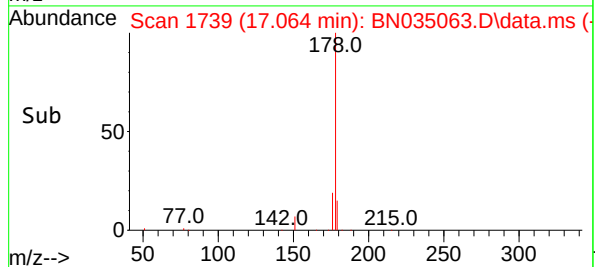
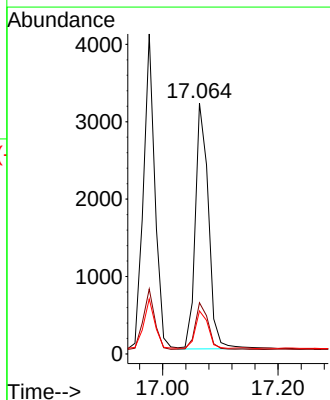
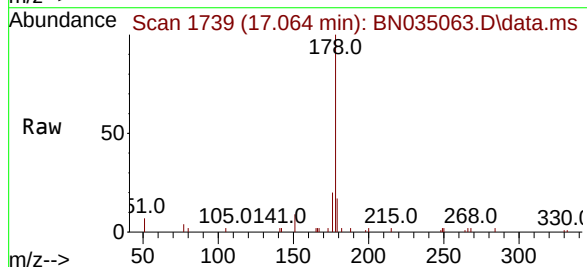
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

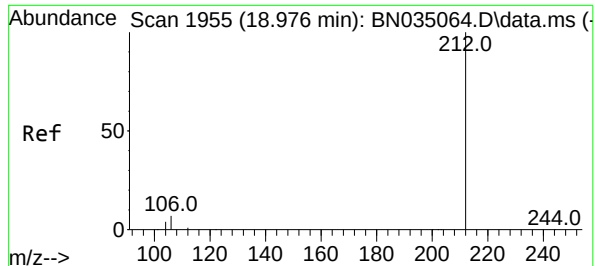
Tgt Ion:178 Resp: 5664
Ion Ratio Lower Upper
178 100
176 19.4 15.2 22.8
179 16.3 12.6 18.8



#26
Anthracene
Concen: 0.187 ng
RT: 17.064 min Scan# 1739
Delta R.T. -0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Tgt Ion:178 Resp: 5051
Ion Ratio Lower Upper
178 100
176 19.2 14.6 22.0
179 14.6 12.2 18.2





#27

Fluoranthene-d10

Concen: 0.192 ng

RT: 18.976 min Scan# 1955

Delta R.T. -0.000 min

Lab File: BN035063.D

Acq: 13 Nov 2024 13:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

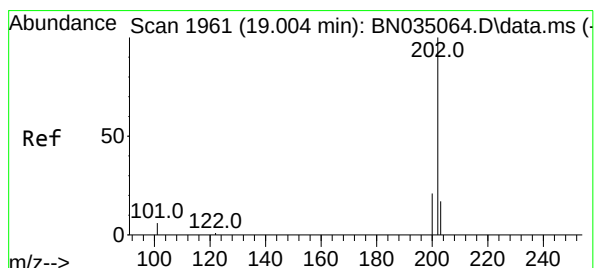
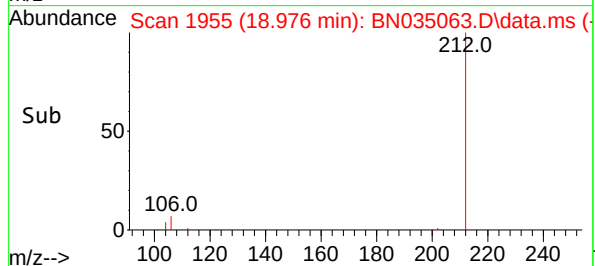
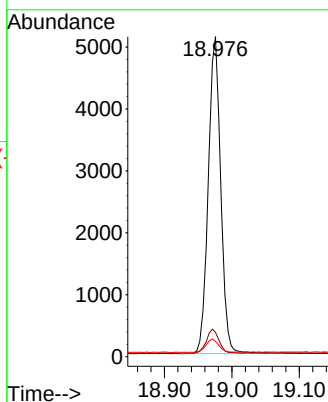
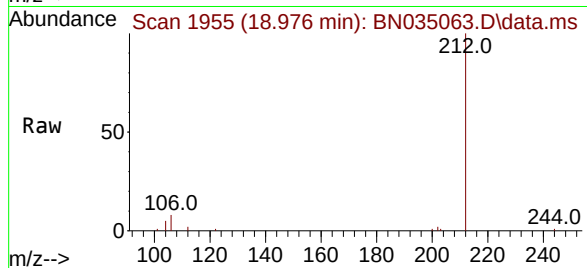
Tgt Ion:212 Resp: 6587

Ion Ratio Lower Upper

212 100

106 7.6 6.0 9.0

104 4.4 3.5 5.3



#28

Fluoranthene

Concen: 0.190 ng

RT: 19.004 min Scan# 1961

Delta R.T. 0.000 min

Lab File: BN035063.D

Acq: 13 Nov 2024 13:16

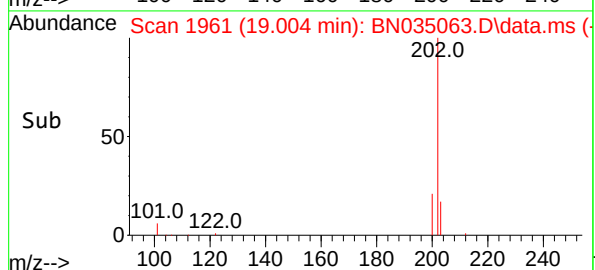
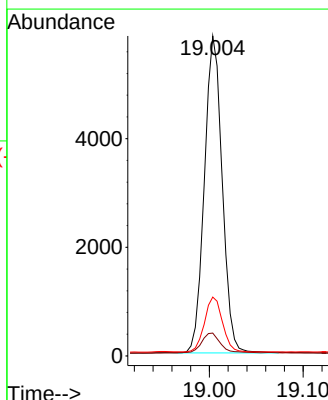
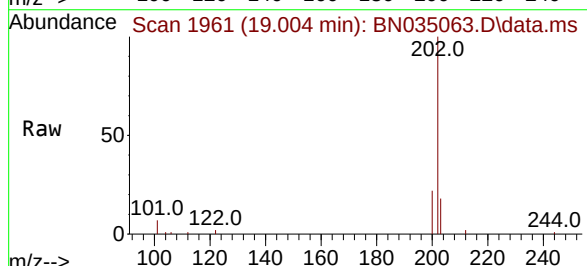
Tgt Ion:202 Resp: 7690

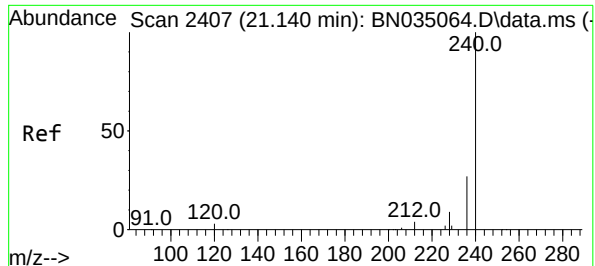
Ion Ratio Lower Upper

202 100

101 7.0 5.2 7.8

203 17.3 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.131 min Scan# 2406

Delta R.T. -0.009 min

Lab File: BN035063.D

Acq: 13 Nov 2024 13:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

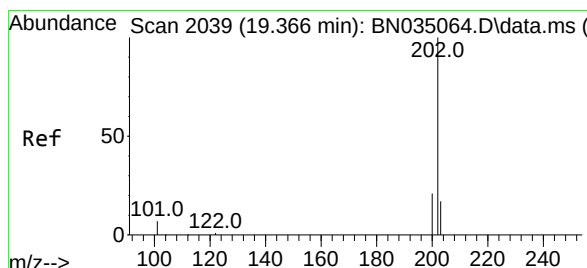
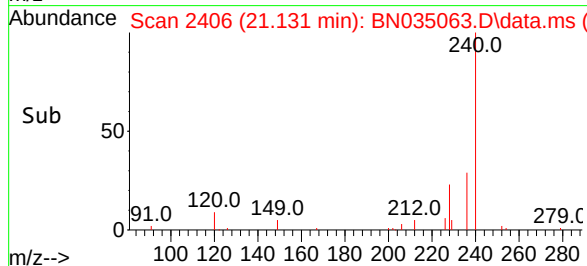
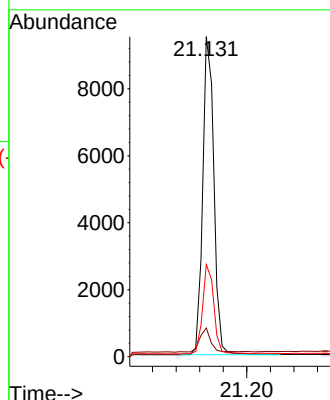
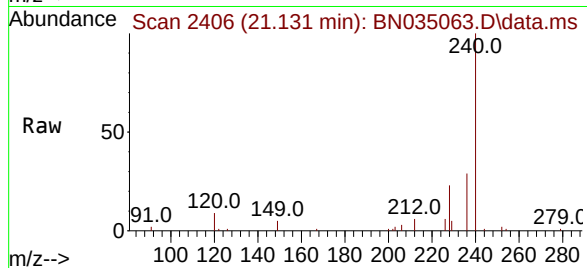
Tgt Ion:240 Resp: 12508

Ion Ratio Lower Upper

240 100

120 9.0 3.8 5.6#

236 28.8 22.2 33.2



#30

Pyrene

Concen: 0.194 ng

RT: 19.366 min Scan# 2039

Delta R.T. -0.000 min

Lab File: BN035063.D

Acq: 13 Nov 2024 13:16

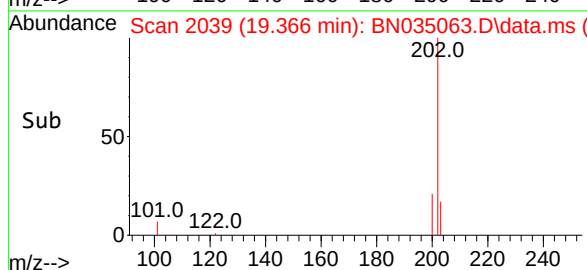
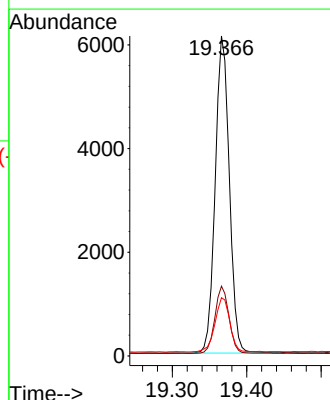
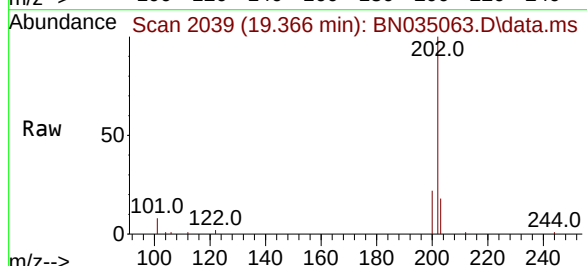
Tgt Ion:202 Resp: 8067

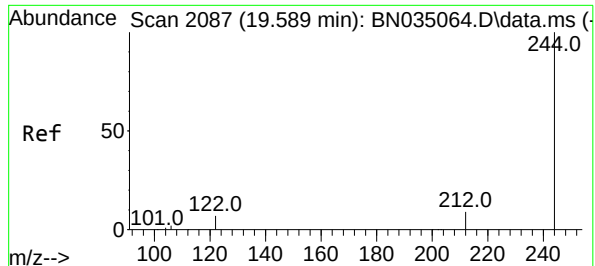
Ion Ratio Lower Upper

202 100

200 21.1 16.7 25.1

203 18.1 14.2 21.4

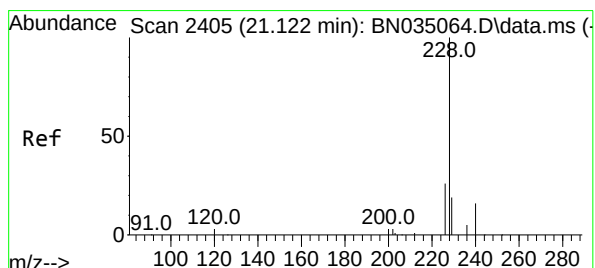
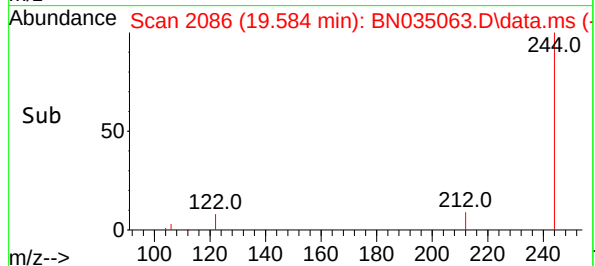
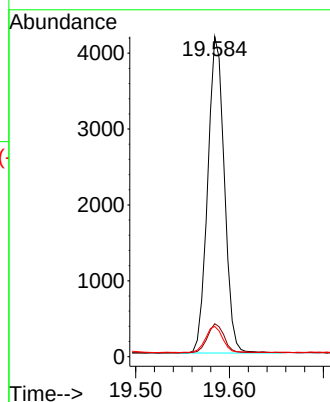
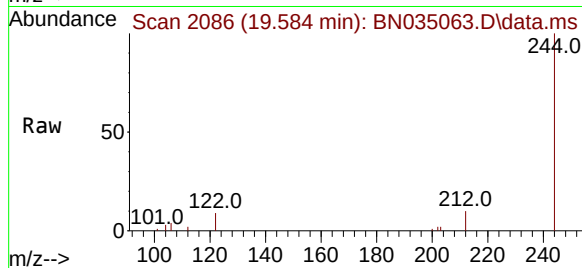




#31
Terphenyl-d14
Concen: 0.195 ng
RT: 19.584 min Scan# 2086
Delta R.T. -0.005 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

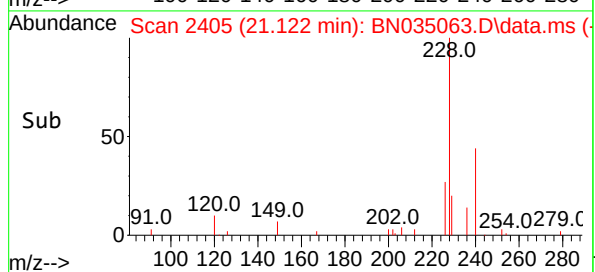
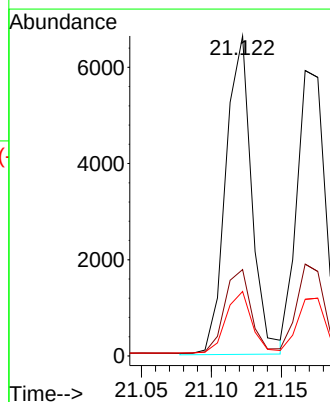
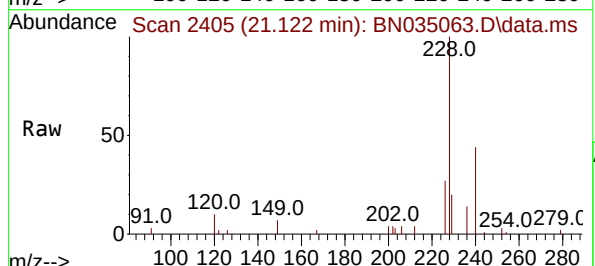
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

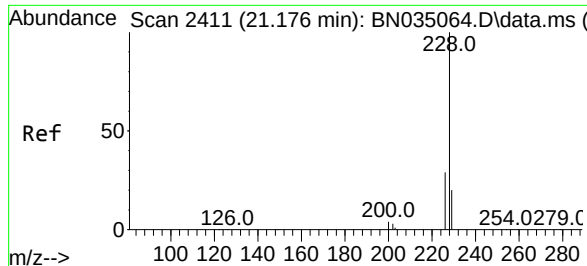
Tgt Ion:244 Resp: 5123
Ion Ratio Lower Upper
244 100
212 10.3 7.6 11.4
122 9.5 6.1 9.1#



#32
Benzo(a)anthracene
Concen: 0.196 ng
RT: 21.122 min Scan# 2405
Delta R.T. -0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Tgt Ion:228 Resp: 8558
Ion Ratio Lower Upper
228 100
226 27.0 21.4 32.0
229 20.1 15.7 23.5





#33

Chrysene

Concen: 0.198 ng

RT: 21.167 min Scan# 2411

Delta R.T. -0.009 min

Lab File: BN035063.D

Acq: 13 Nov 2024 13:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

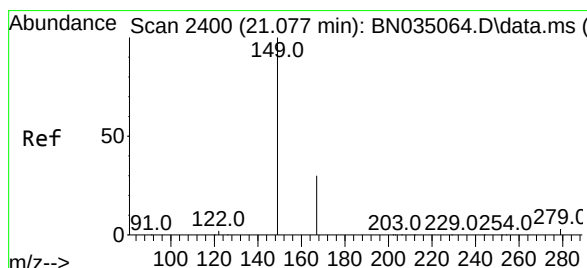
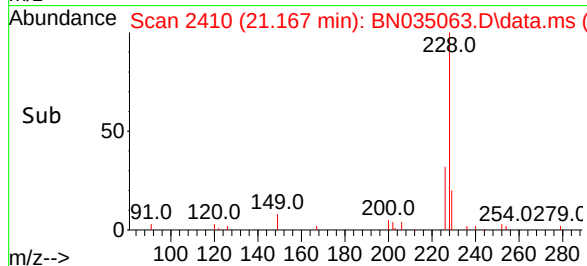
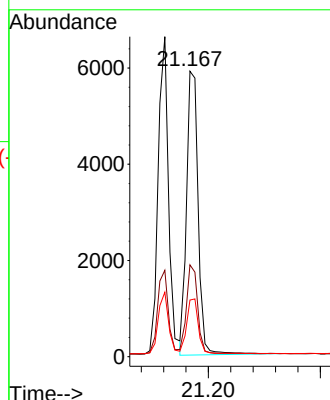
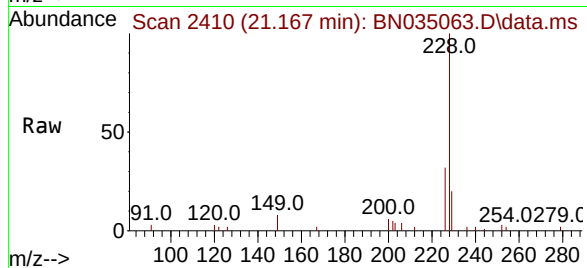
Tgt Ion:228 Resp: 8540

Ion Ratio Lower Upper

228 100

226 32.2 23.7 35.5

229 19.9 16.2 24.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.208 ng

RT: 21.077 min Scan# 2400

Delta R.T. -0.000 min

Lab File: BN035063.D

Acq: 13 Nov 2024 13:16

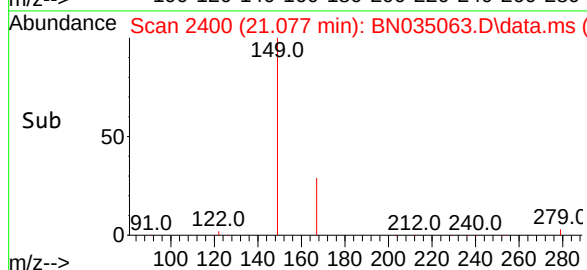
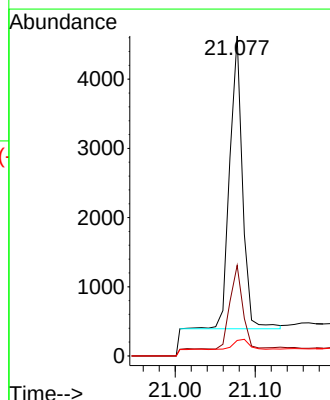
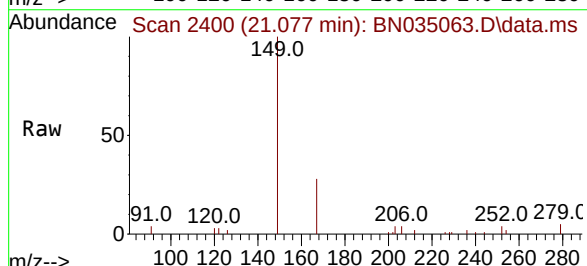
Tgt Ion:149 Resp: 4712

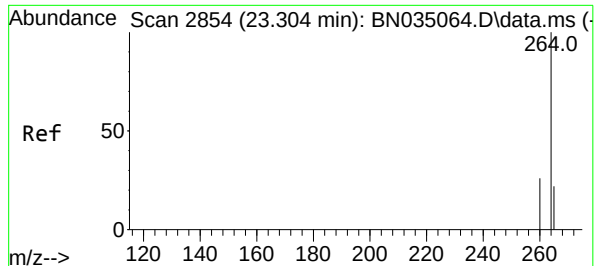
Ion Ratio Lower Upper

149 100

167 28.3 23.2 34.8

279 3.9 3.2 4.8





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.301 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN035063.D

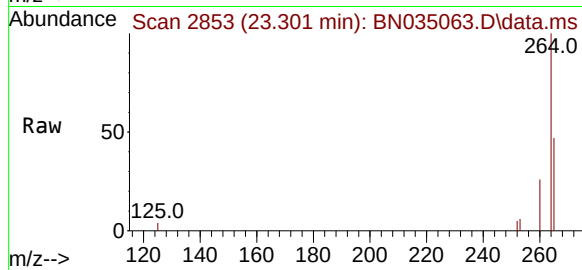
Acq: 13 Nov 2024 13:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



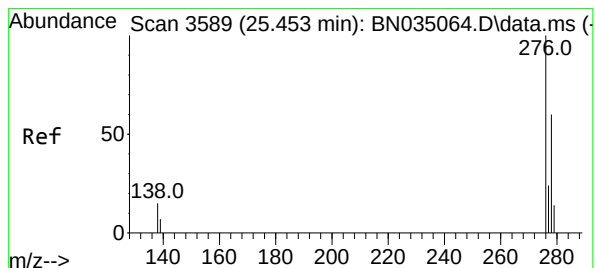
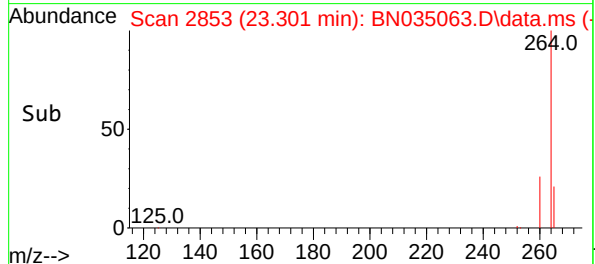
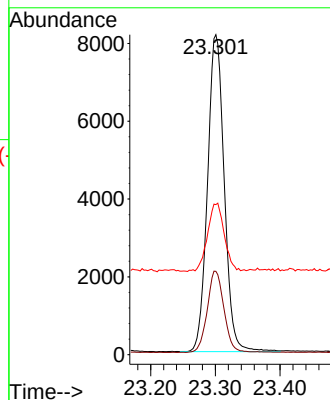
Tgt Ion:264 Resp: 14643

Ion Ratio Lower Upper

264 100

260 26.1 20.9 31.3

265 46.9 35.4 53.2



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.190 ng

RT: 25.450 min Scan# 3588

Delta R.T. -0.003 min

Lab File: BN035063.D

Acq: 13 Nov 2024 13:16

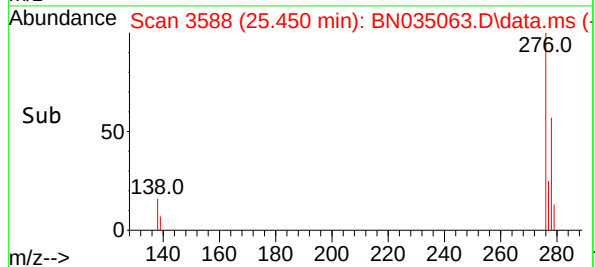
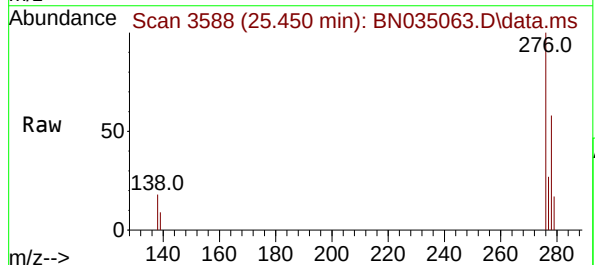
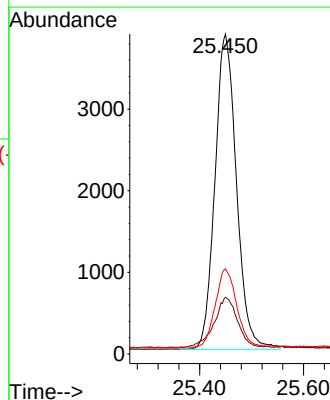
Tgt Ion:276 Resp: 11095

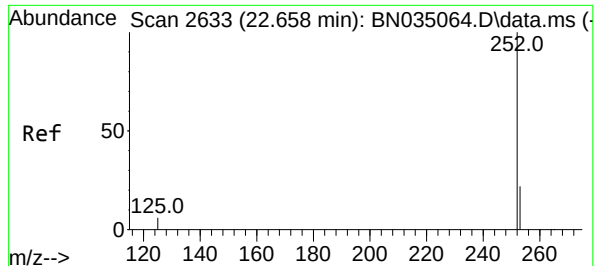
Ion Ratio Lower Upper

276 100

138 17.3 13.0 19.4

277 24.7 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.189 ng

RT: 22.657 min Scan# 2633

Delta R.T. -0.000 min

Lab File: BN035063.D

Acq: 13 Nov 2024 13:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

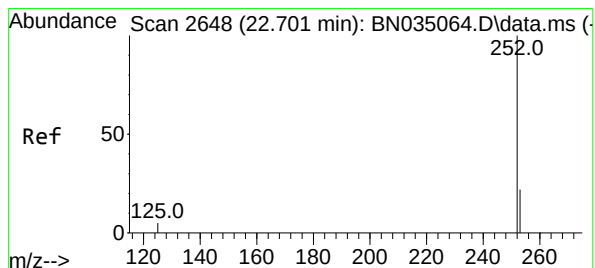
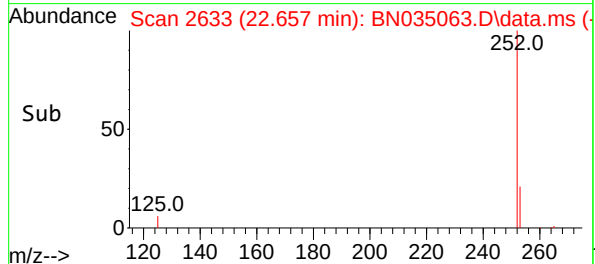
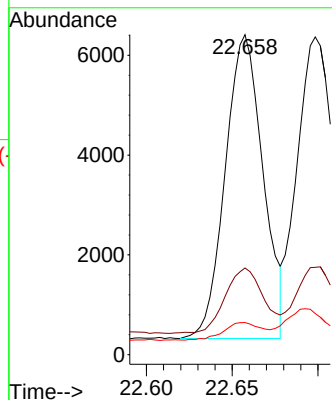
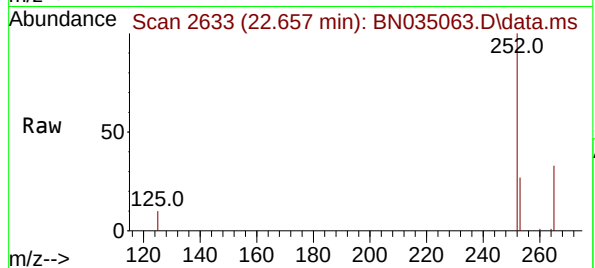
Tgt Ion:252 Resp: 9315

Ion Ratio Lower Upper

252 100

253 27.1 19.3 28.9

125 10.0 6.2 9.2#



#38

Benzo(k)fluoranthene

Concen: 0.191 ng

RT: 22.698 min Scan# 2647

Delta R.T. -0.003 min

Lab File: BN035063.D

Acq: 13 Nov 2024 13:16

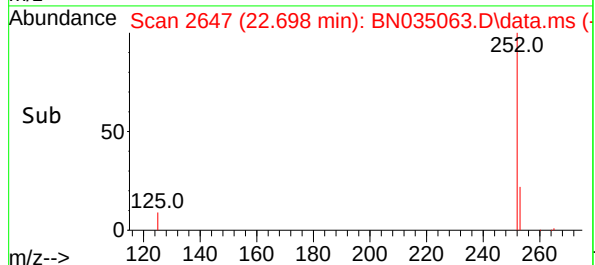
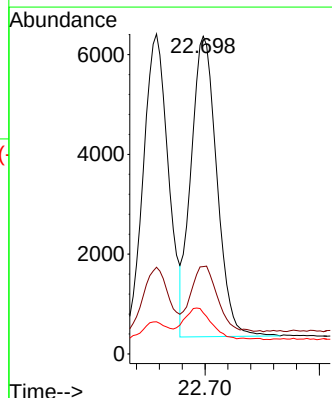
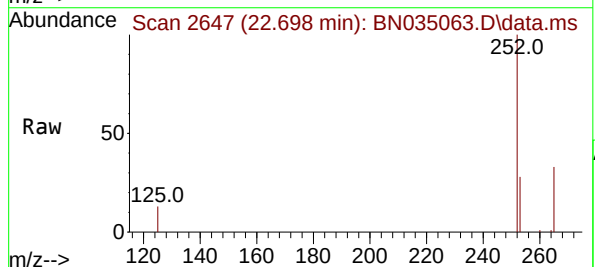
Tgt Ion:252 Resp: 9432

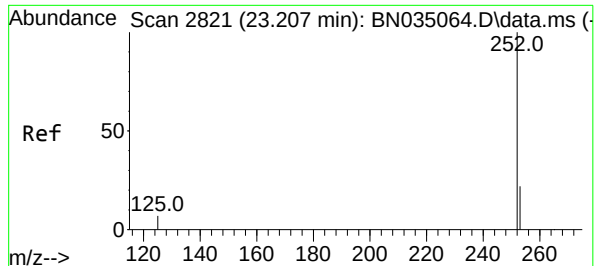
Ion Ratio Lower Upper

252 100

253 27.5 19.5 29.3

125 13.0 6.5 9.7#





#39

Benzo(a)pyrene

Concen: 0.192 ng

RT: 23.204 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN035063.D

Acq: 13 Nov 2024 13:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

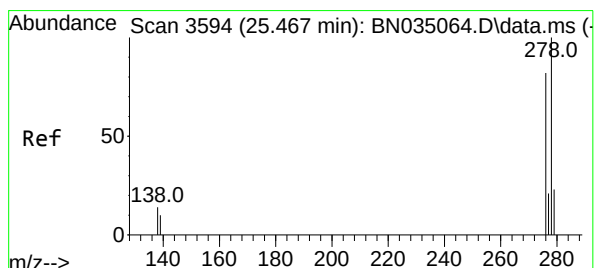
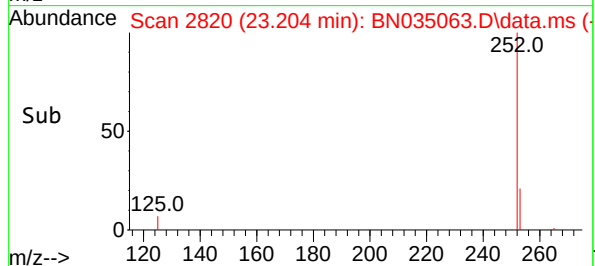
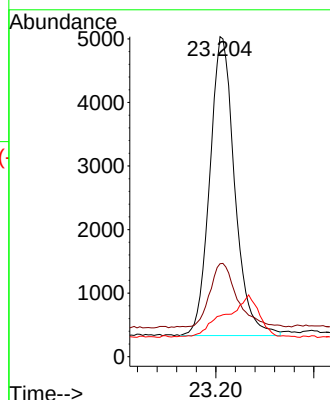
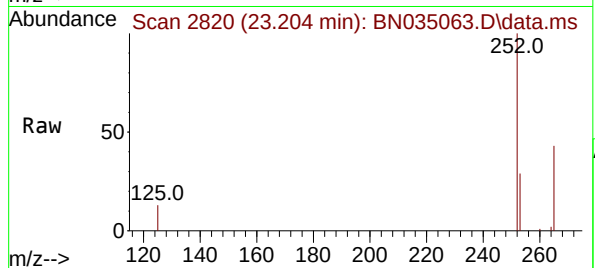
Tgt Ion:252 Resp: 8302

Ion Ratio Lower Upper

252 100

253 29.1 20.1 30.1

125 12.8 7.5 11.3#



#40

Dibenzo(a,h)anthracene

Concen: 0.189 ng

RT: 25.464 min Scan# 3593

Delta R.T. -0.003 min

Lab File: BN035063.D

Acq: 13 Nov 2024 13:16

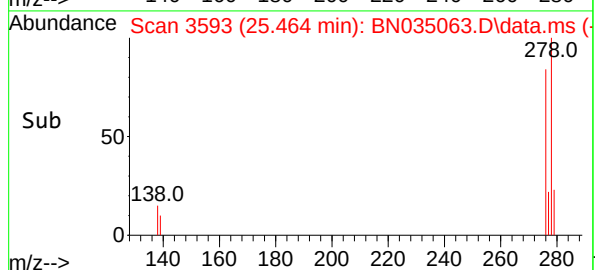
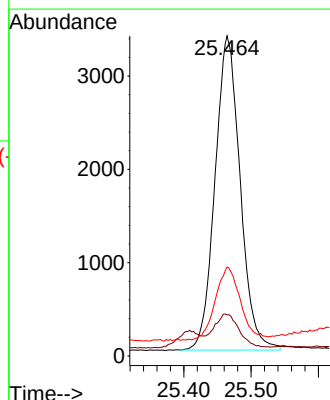
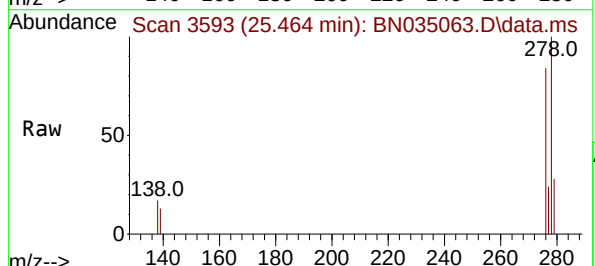
Tgt Ion:278 Resp: 8750

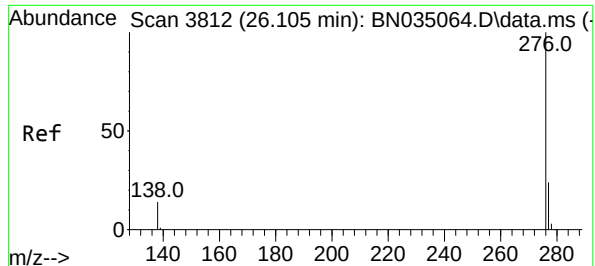
Ion Ratio Lower Upper

278 100

139 12.9 9.3 13.9

279 27.8 19.7 29.5





#41

Benzo(g,h,i)perylene

Concen: 0.192 ng

RT: 26.099 min Scan# 3810

Delta R.T. -0.006 min

Lab File: BN035063.D

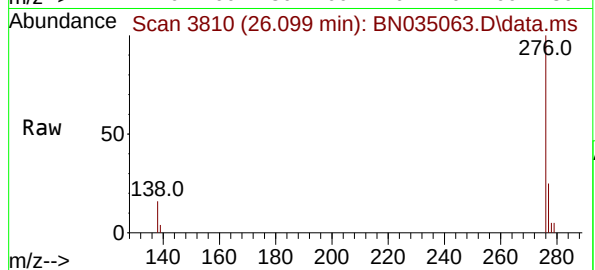
Acq: 13 Nov 2024 13:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



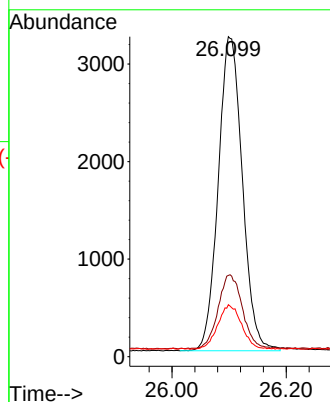
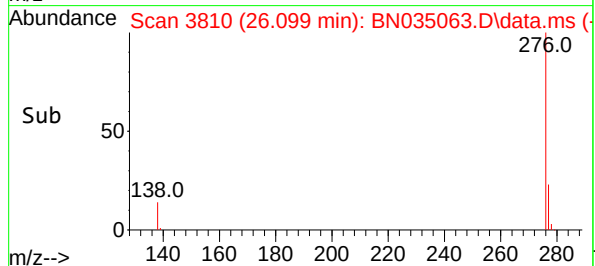
Tgt Ion:276 Resp: 9431

Ion Ratio Lower Upper

276 100

277 25.4 19.9 29.9

138 16.3 11.6 17.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
 Data File : BN035064.D
 Acq On : 13 Nov 2024 13:52
 Operator : RC/JU
 Sample : SSTDICCC0.4
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCC0.4

Quant Time: Nov 13 16:43:40 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 16:42:01 2024
 Response via : Initial Calibration

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

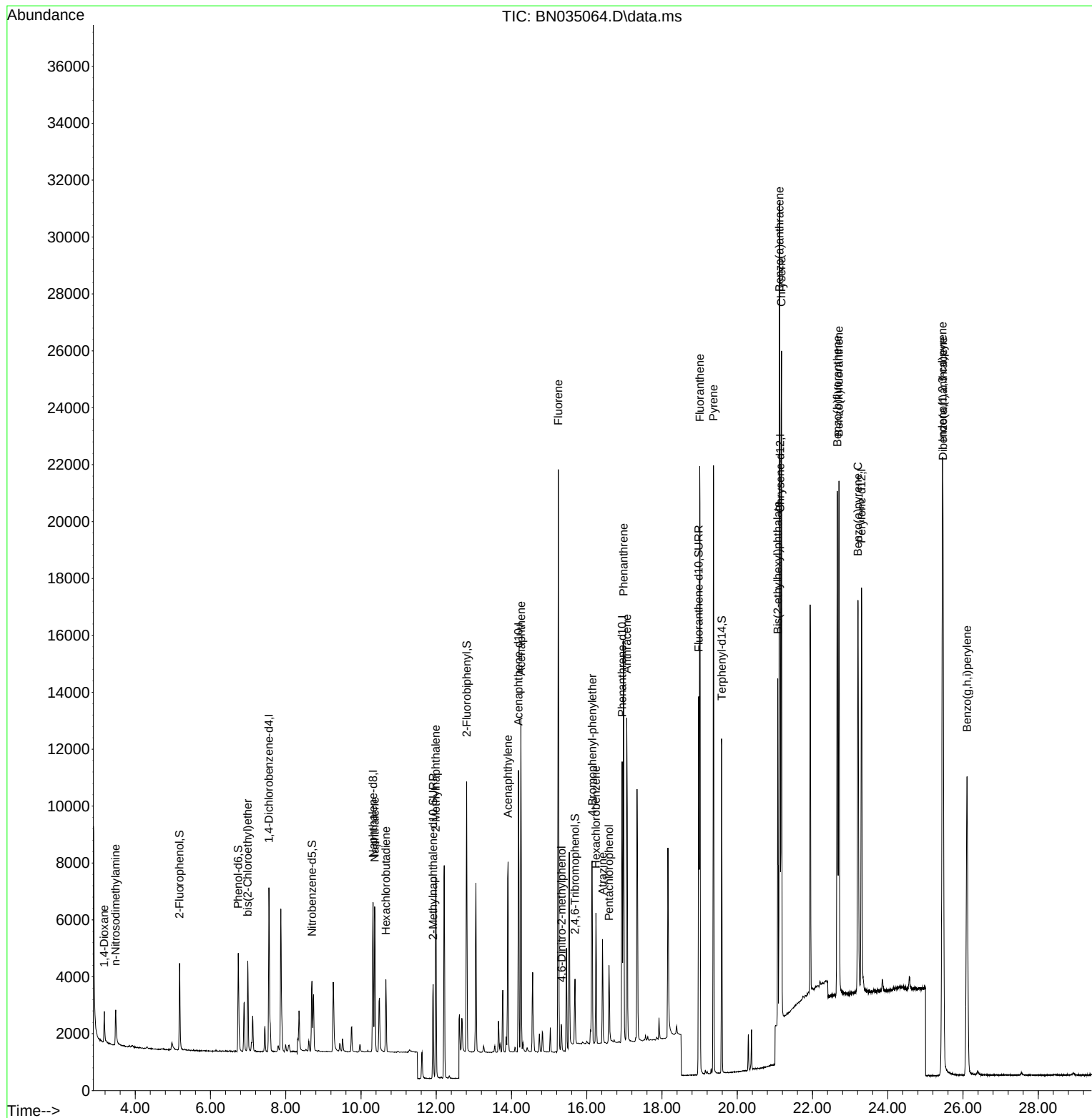
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.553	152	2804	0.400	ng	0.00
7) Naphthalene-d8	10.319	136	6865	0.400	ng	0.00
13) Acenaphthene-d10	14.186	164	5401	0.400	ng	0.00
19) Phenanthrene-d10	16.939	188	13499	0.400	ng	0.00
29) Chrysene-d12	21.140	240	14946	0.400	ng	0.00
35) Perylene-d12	23.304	264	17077	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	2661	0.374	ng	0.00
5) Phenol-d6	6.737	99	3250	0.364	ng	0.00
8) Nitrobenzene-d5	8.696	82	2197	0.369	ng	0.00
11) 2-Methylnaphthalene-d10	11.916	152	4559	0.373	ng	0.00
14) 2,4,6-Tribromophenol	15.686	330	1295	0.333	ng	0.00
15) 2-Fluorobiphenyl	12.807	172	7888	0.360	ng	0.00
27) Fluoranthene-d10	18.976	212	15786	0.382	ng	0.00
31) Terphenyl-d14	19.589	244	12101	0.386	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.177	88	940	0.369	ng	100
3) n-Nitrosodimethylamine	3.480	42	914	0.386	ng	100
6) bis(2-Chloroethyl)ether	6.990	93	2504	0.374	ng	100
9) Naphthalene	10.362	128	6705	0.374	ng	100
10) Hexachlorobutadiene	10.661	225	2010	0.383	ng	# 100
12) 2-Methylnaphthalene	11.988	142	4884	0.369	ng	100
16) Acenaphthylene	13.908	152	8034	0.348	ng	100
17) Acenaphthene	14.251	154	5401	0.357	ng	100
18) Fluorene	15.245	166	7900	0.355	ng	100
20) 4,6-Dinitro-2-methylph...	15.330	198	979	0.348	ng	100
21) 4-Bromophenyl-phenylether	16.145	248	3317	0.386	ng	100
22) Hexachlorobenzene	16.244	284	3412	0.382	ng	100
23) Atrazine	16.418	200	2925	0.379	ng	100
24) Pentachlorophenol	16.592	266	1402	0.336	ng	100
25) Phenanthrene	16.977	178	13558	0.382	ng	100
26) Anthracene	17.064	178	12422	0.381	ng	100
28) Fluoranthene	19.004	202	18716	0.383	ng	100
30) Pyrene	19.366	202	19252	0.387	ng	100
32) Benzo(a)anthracene	21.122	228	19844	0.381	ng	100
33) Chrysene	21.176	228	19908	0.386	ng	100
34) Bis(2-ethylhexyl)phtha...	21.077	149	9671	0.357	ng	100
36) Indeno(1,2,3-cd)pyrene	25.453	276	25986	0.381	ng	100
37) Benzo(b)fluoranthene	22.658	252	21843	0.380	ng	100
38) Benzo(k)fluoranthene	22.701	252	21977	0.382	ng	100
39) Benzo(a)pyrene	23.207	252	19170	0.379	ng	100
40) Dibenzo(a,h)anthracene	25.467	278	20655	0.383	ng	100
41) Benzo(g,h,i)perylene	26.105	276	21955	0.382	ng	100

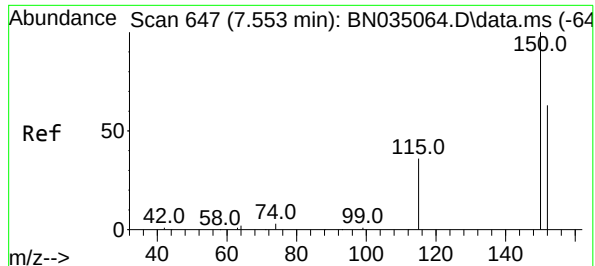
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
Data File : BN035064.D
Acq On : 13 Nov 2024 13:52
Operator : RC/JU
Sample : SSTDICC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.4

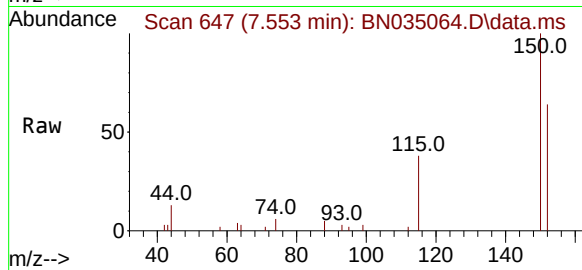
Quant Time: Nov 13 16:43:40 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 16:42:01 2024
Response via : Initial Calibration



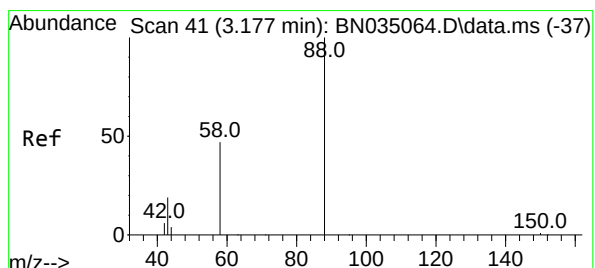
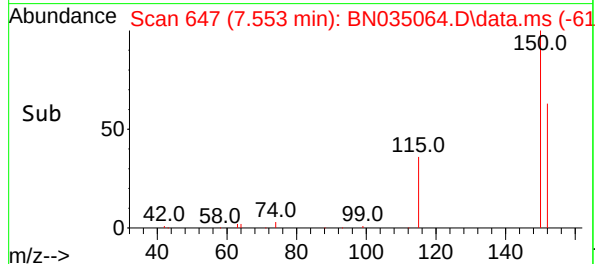
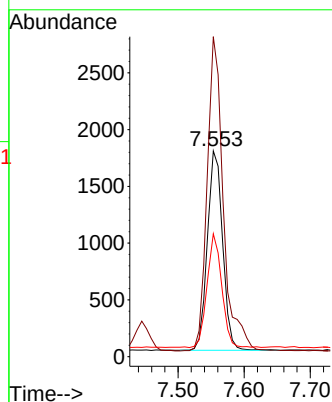


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.553 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

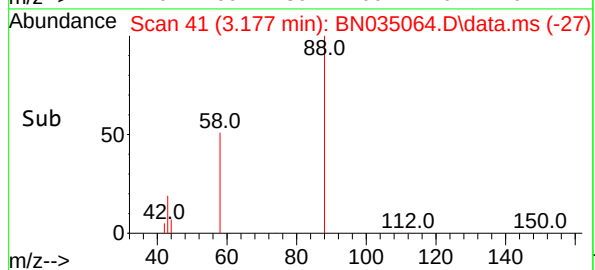
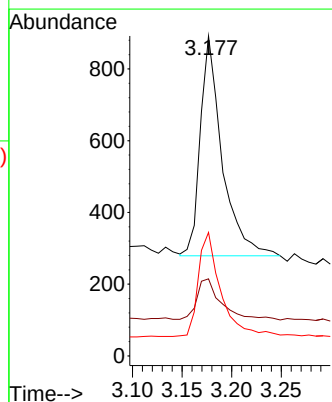
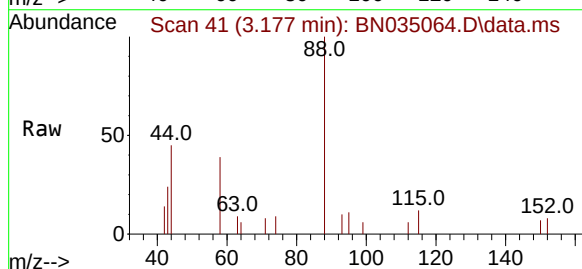


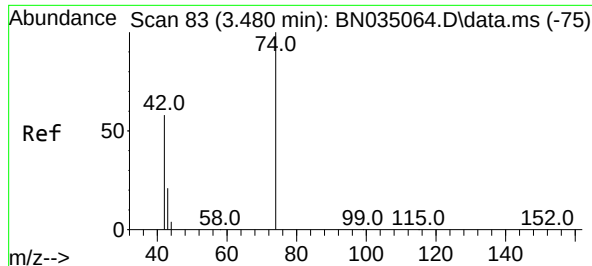
Tgt Ion: 152 Resp: 2804
Ion Ratio Lower Upper
152 100
150 155.6 124.5 186.7
115 59.7 47.8 71.6



#2
1,4-Dioxane
Concen: 0.369 ng
RT: 3.177 min Scan# 41
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Tgt Ion: 88 Resp: 940
Ion Ratio Lower Upper
88 100
43 21.1 16.9 25.3
58 48.7 39.0 58.4

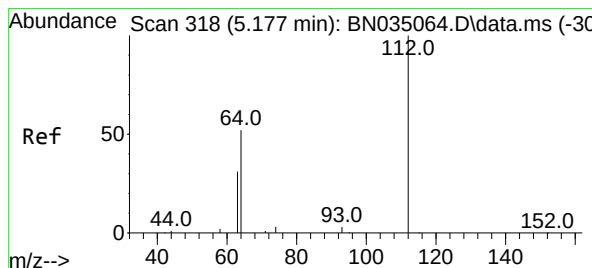
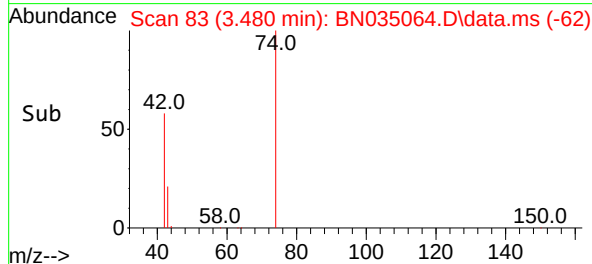
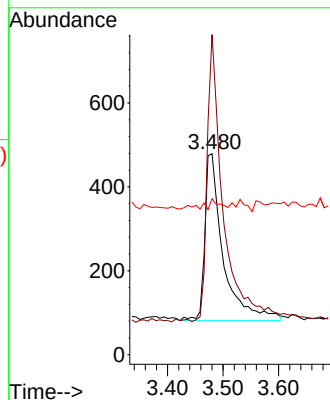
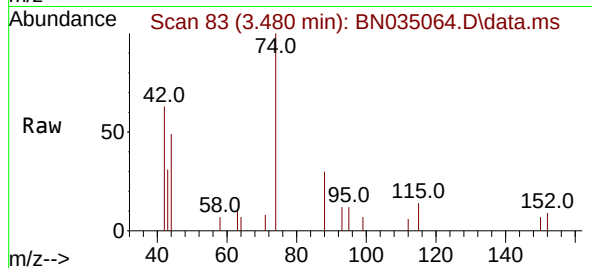




#3
n-Nitrosodimethylamine
Concen: 0.386 ng
RT: 3.480 min Scan# 83
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

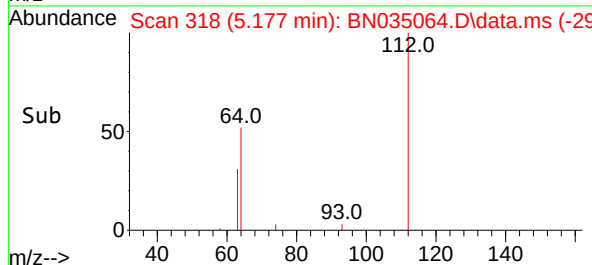
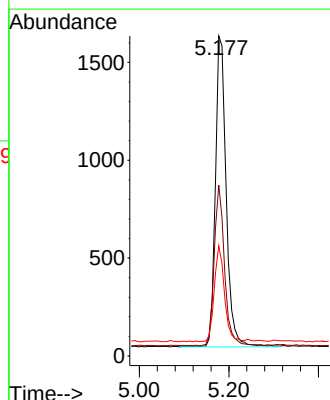
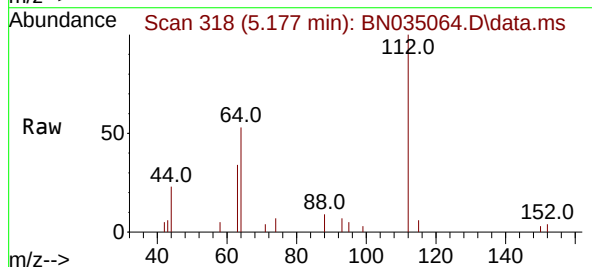
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

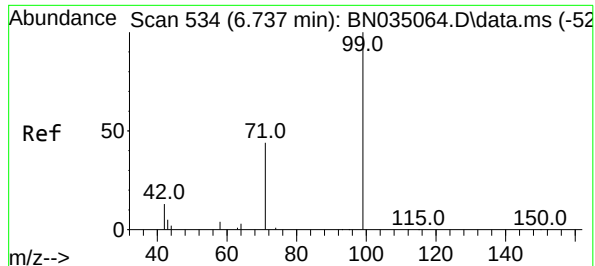
Tgt Ion: 42 Resp: 914
Ion Ratio Lower Upper
42 100
74 151.0 120.8 181.2
44 3.6 2.9 4.3



#4
2-Fluorophenol
Concen: 0.374 ng
RT: 5.177 min Scan# 318
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Tgt Ion: 112 Resp: 2661
Ion Ratio Lower Upper
112 100
64 49.6 39.7 59.5
63 28.7 23.0 34.4

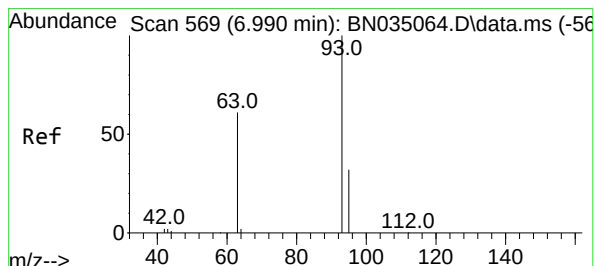
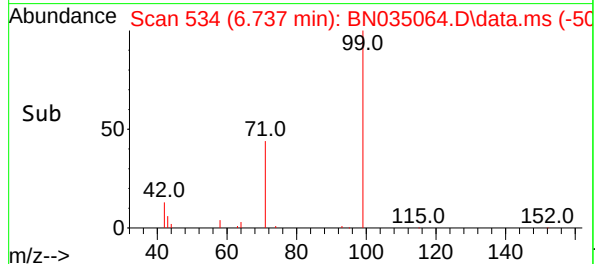
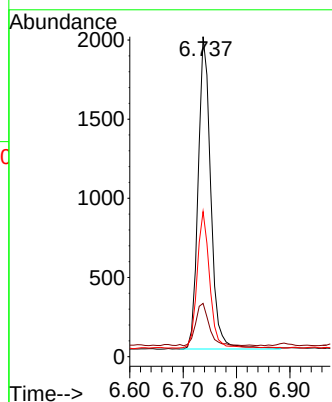
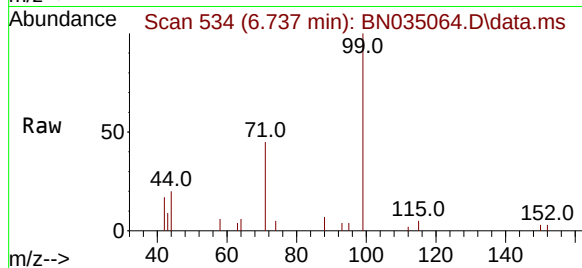




#5
Phenol-d6
Concen: 0.364 ng
RT: 6.737 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

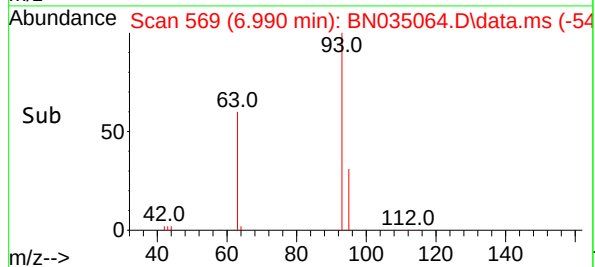
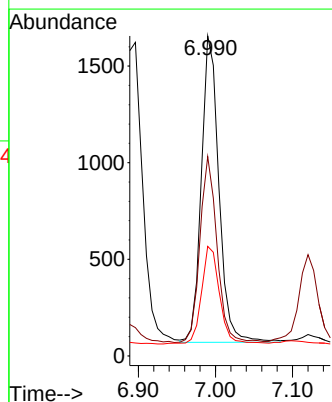
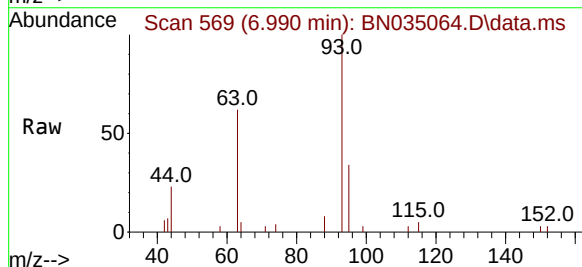
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

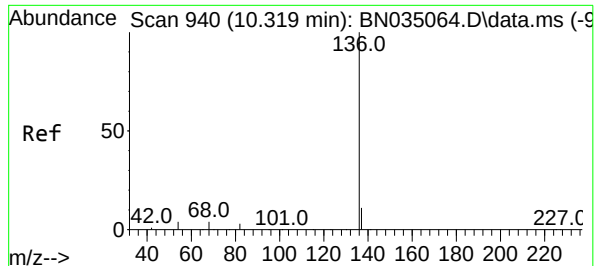
Tgt Ion: 99 Resp: 3250
Ion Ratio Lower Upper
99 100
42 14.2 11.4 17.0
71 43.2 34.6 51.8



#6
bis(2-Chloroethyl)ether
Concen: 0.374 ng
RT: 6.990 min Scan# 569
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Tgt Ion: 93 Resp: 2504
Ion Ratio Lower Upper
93 100
63 59.3 47.4 71.2
95 32.8 26.2 39.4

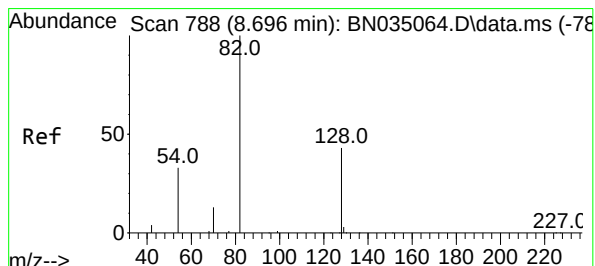
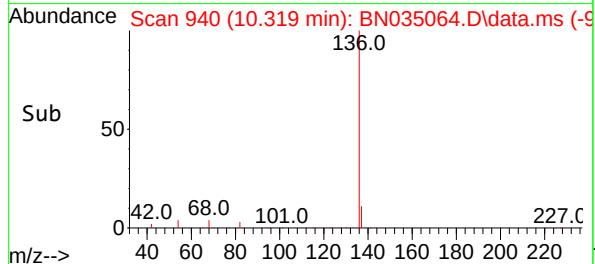
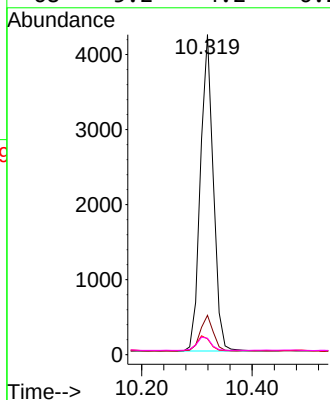
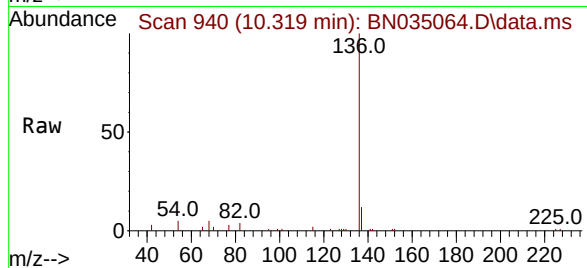




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.319 min Scan# 940
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

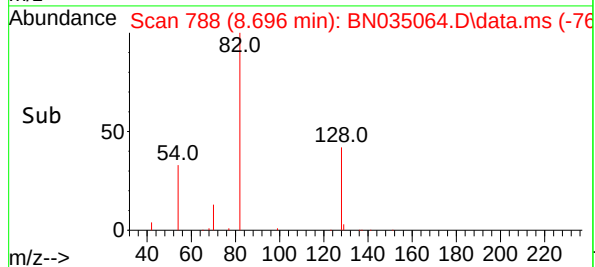
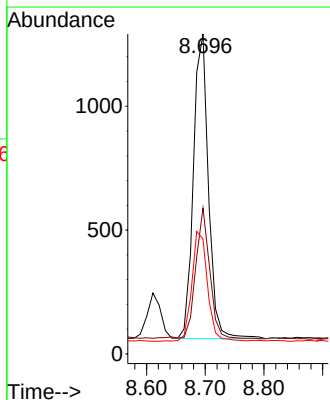
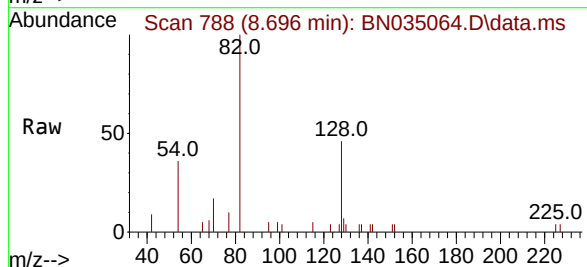
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

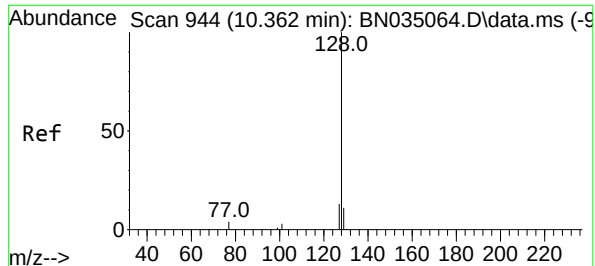
Tgt Ion:	136	Resp:	6865
Ion	Ratio	Lower	Upper
136	100		
137	12.3	9.8	14.8
54	5.0	4.0	6.0
68	5.2	4.2	6.2



#8
Nitrobenzene-d5
Concen: 0.369 ng
RT: 8.696 min Scan# 788
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Tgt Ion:	82	Resp:	2197
Ion	Ratio	Lower	Upper
82	100		
128	45.6	36.5	54.7
54	35.9	28.7	43.1

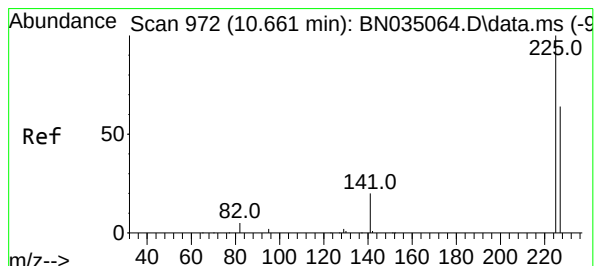
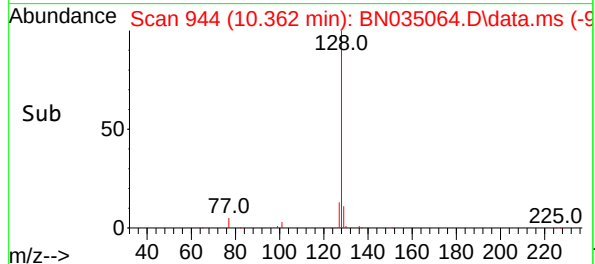
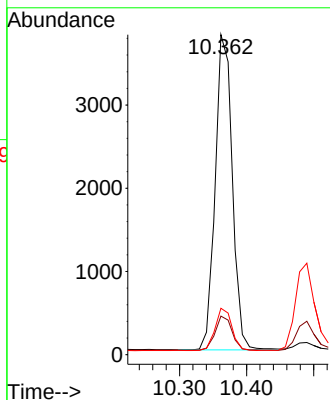
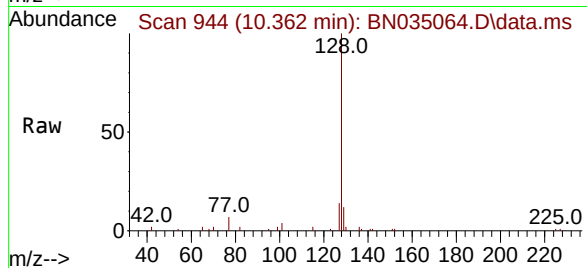




#9
Naphthalene
Concen: 0.374 ng
RT: 10.362 min Scan# 944
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

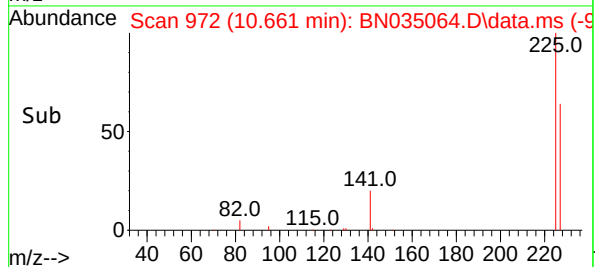
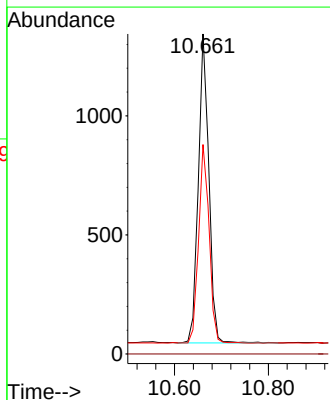
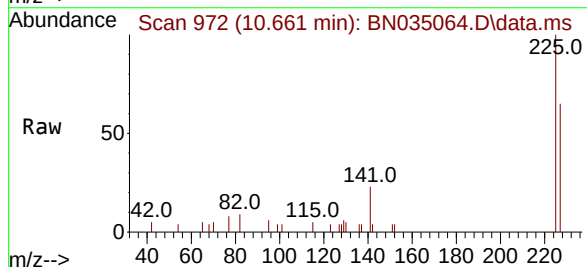
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

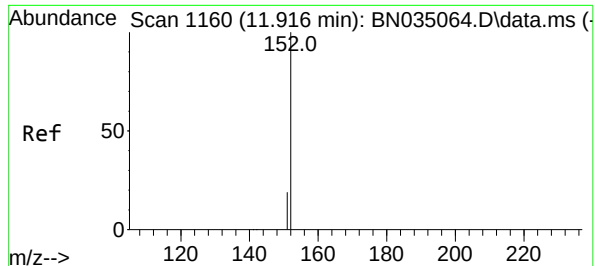
Tgt Ion:128 Resp: 6705
Ion Ratio Lower Upper
128 100
129 12.0 9.6 14.4
127 14.5 11.6 17.4



#10
Hexachlorobutadiene
Concen: 0.383 ng
RT: 10.661 min Scan# 972
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Tgt Ion:225 Resp: 2010
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.4 51.5 77.3

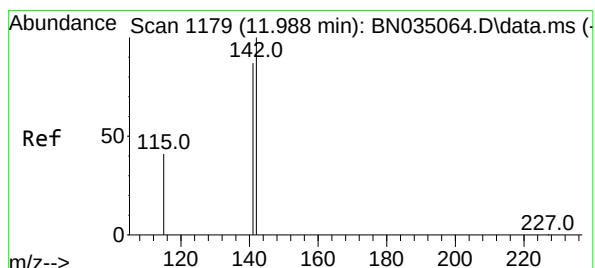
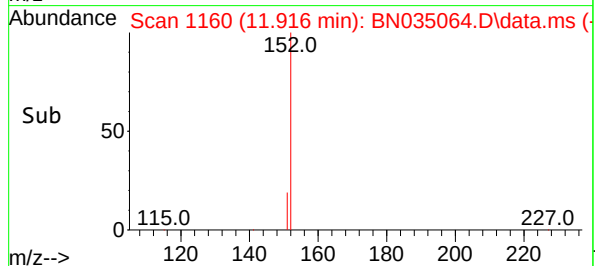
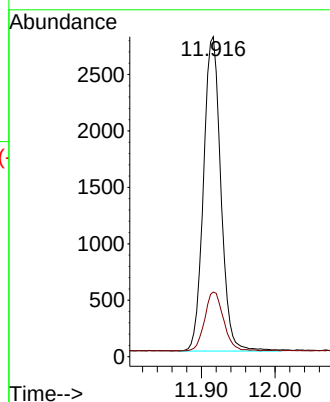
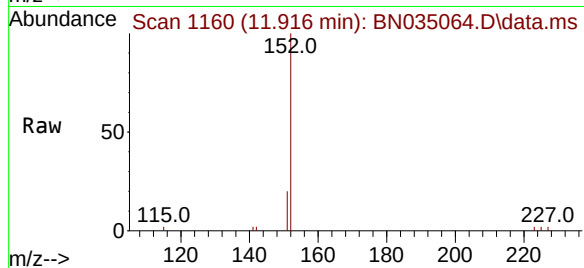




#11
2-Methylnaphthalene-d10
Concen: 0.373 ng
RT: 11.916 min Scan# 1160
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

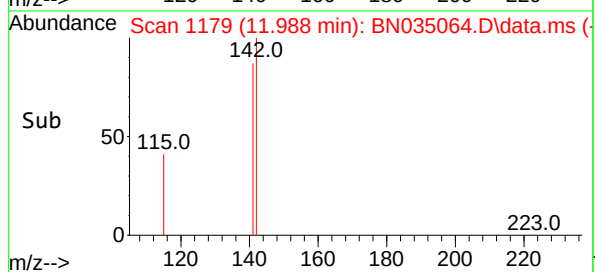
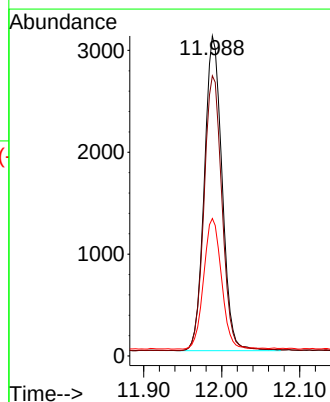
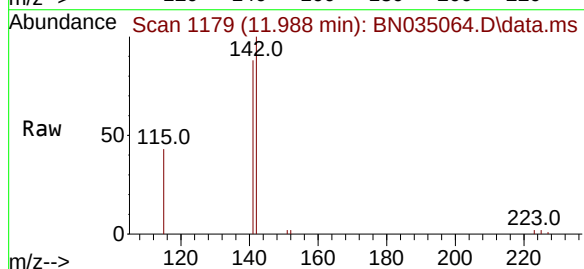
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

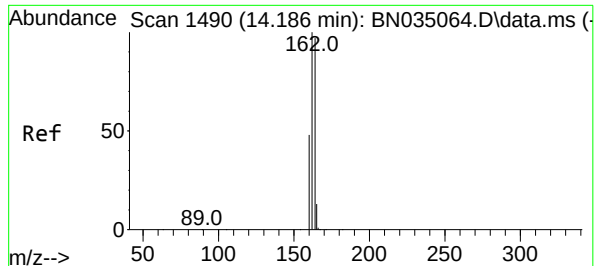
Tgt Ion:152 Resp: 4559
Ion Ratio Lower Upper
152 100
151 20.3 16.2 24.4



#12
2-Methylnaphthalene
Concen: 0.369 ng
RT: 11.988 min Scan# 1179
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Tgt Ion:142 Resp: 4884
Ion Ratio Lower Upper
142 100
141 87.6 70.1 105.1
115 43.0 34.4 51.6

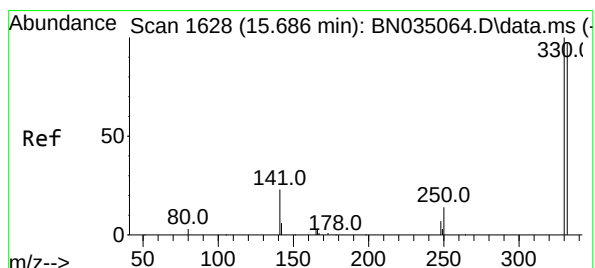
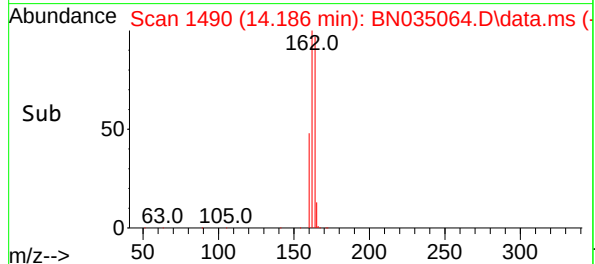
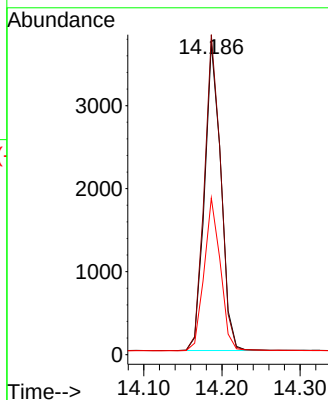
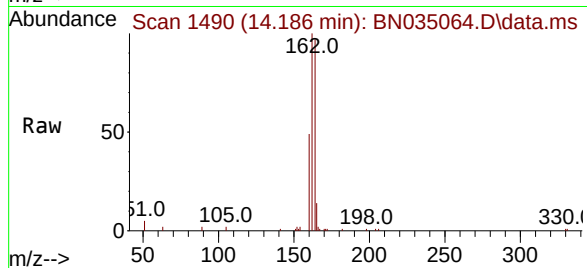




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.186 min Scan# 1490
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

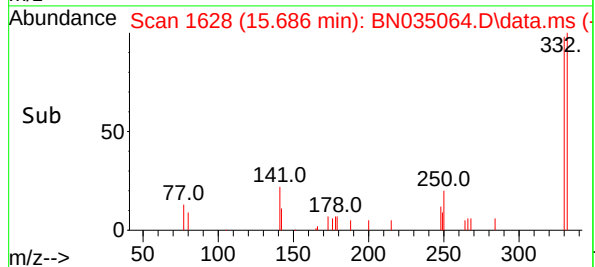
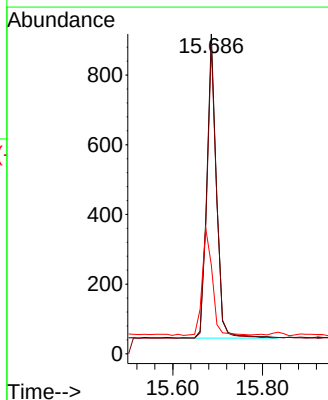
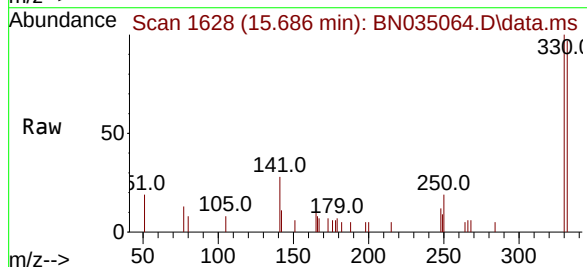
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

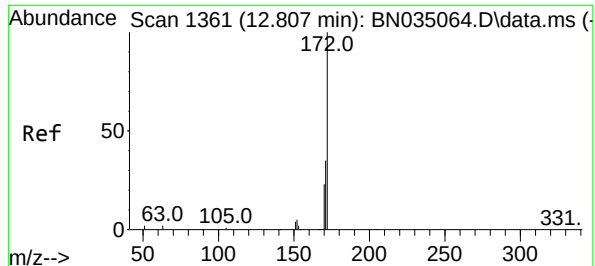
Tgt Ion:164 Resp: 5401
Ion Ratio Lower Upper
164 100
162 102.7 82.2 123.2
160 50.3 40.2 60.4



#14
2,4,6-Tribromophenol
Concen: 0.333 ng
RT: 15.686 min Scan# 1628
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Tgt Ion:330 Resp: 1295
Ion Ratio Lower Upper
330 100
332 96.1 76.9 115.3
141 37.0 29.6 44.4

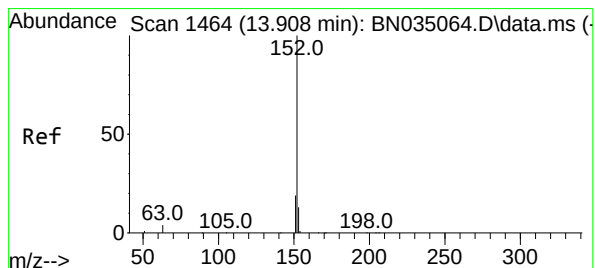
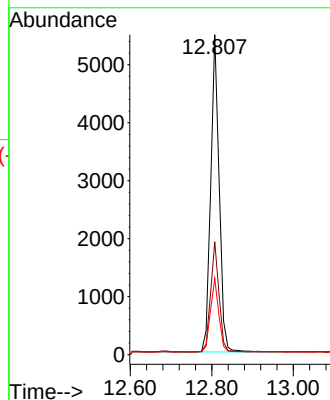
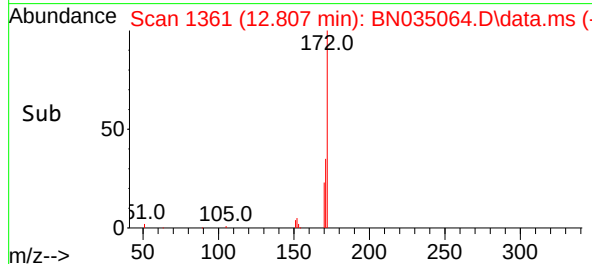
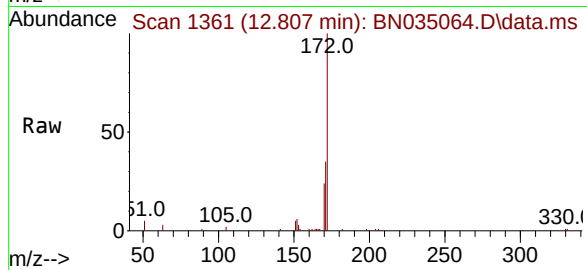




#15
2-Fluorobiphenyl
Concen: 0.360 ng
RT: 12.807 min Scan# 1361
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

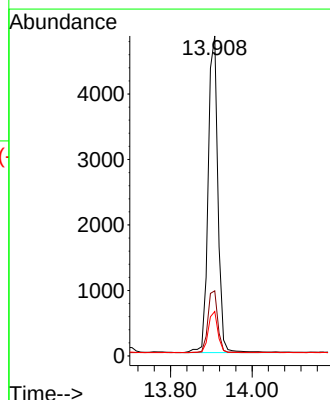
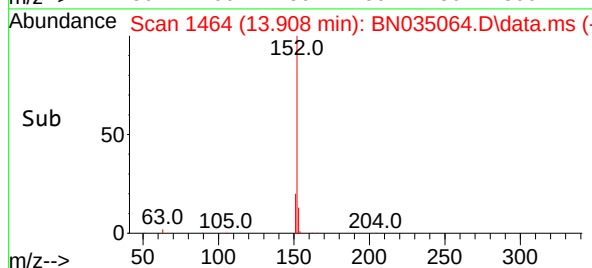
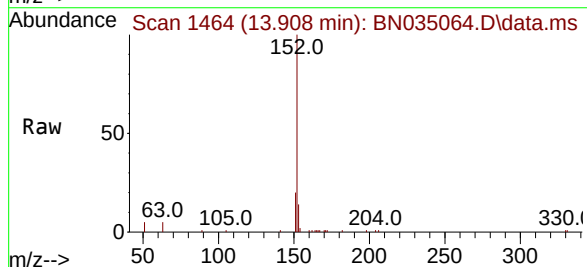
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

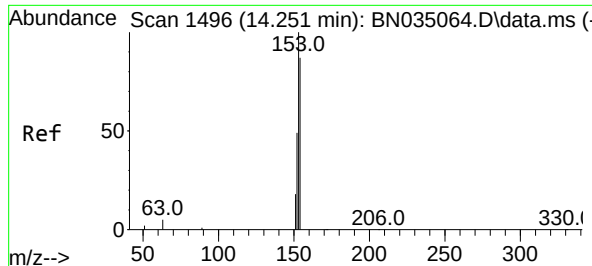
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.3	28.2	42.4
170	23.8	19.0	28.6



#16
Acenaphthylene
Concen: 0.348 ng
RT: 13.908 min Scan# 1464
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.8	15.8	23.8
153	12.8	10.2	15.4

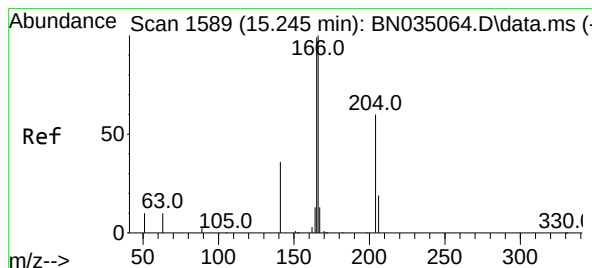
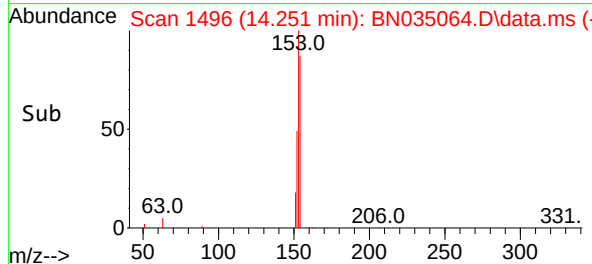
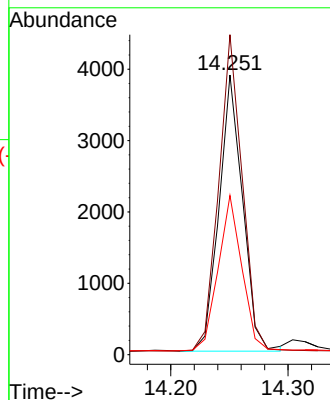
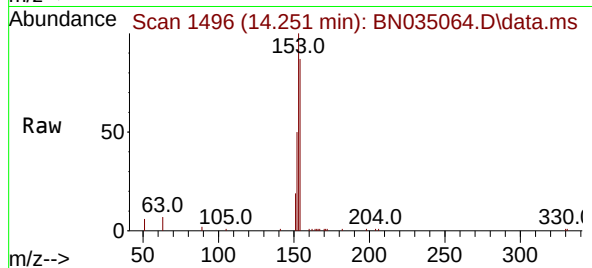




#17
Acenaphthene
Concen: 0.357 ng
RT: 14.251 min Scan# 1496
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

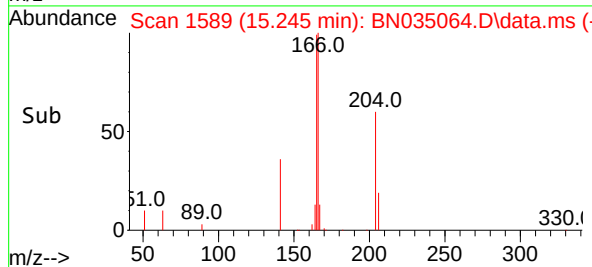
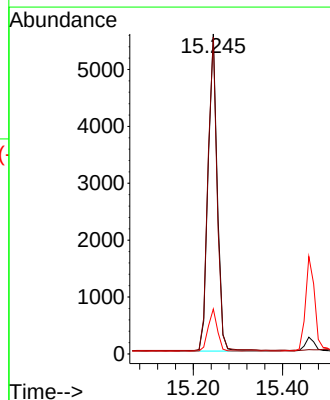
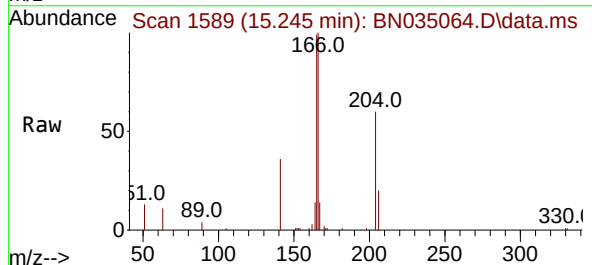
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

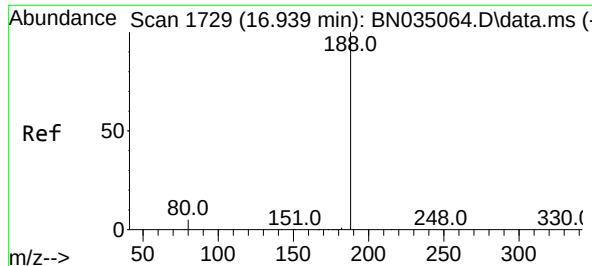
Tgt Ion	Ratio	Lower	Upper
154	100		
153	114.5	91.6	137.4
152	57.2	45.8	68.6



#18
Fluorene
Concen: 0.355 ng
RT: 15.245 min Scan# 1589
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Tgt Ion	Ratio	Lower	Upper
166	100		
165	98.9	79.1	118.7
167	13.3	10.6	16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.939 min Scan# 1729

Delta R.T. 0.000 min

Lab File: BN035064.D

Acq: 13 Nov 2024 13:52

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

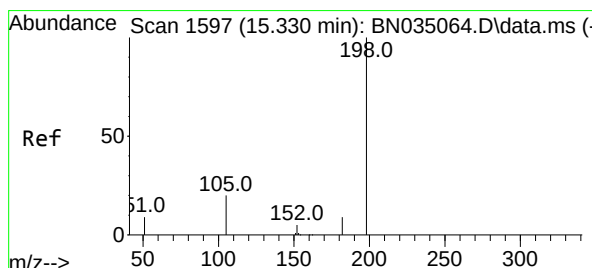
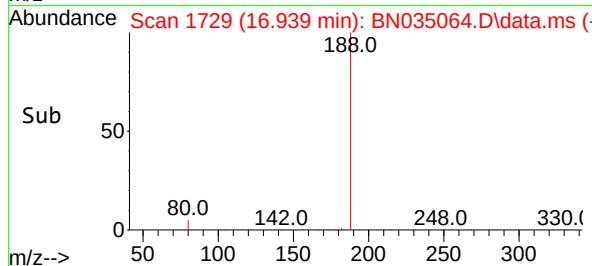
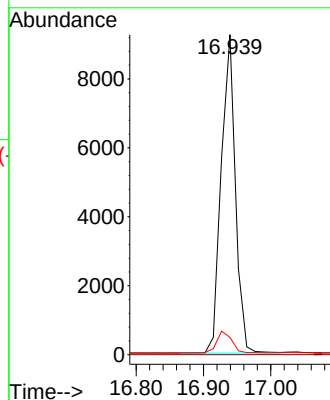
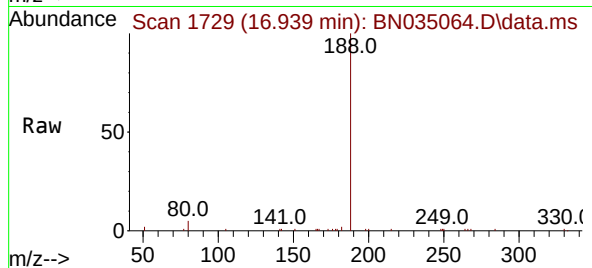
Tgt Ion:188 Resp: 13499

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 5.4 4.3 6.5



#20

4,6-Dinitro-2-methylphenol

Concen: 0.348 ng

RT: 15.330 min Scan# 1597

Delta R.T. 0.000 min

Lab File: BN035064.D

Acq: 13 Nov 2024 13:52

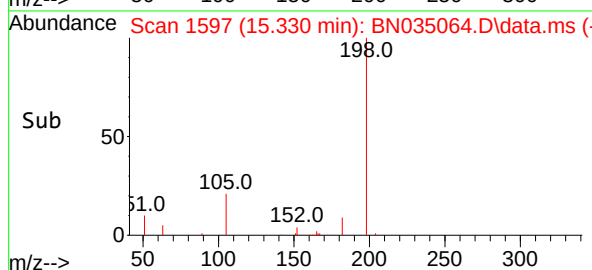
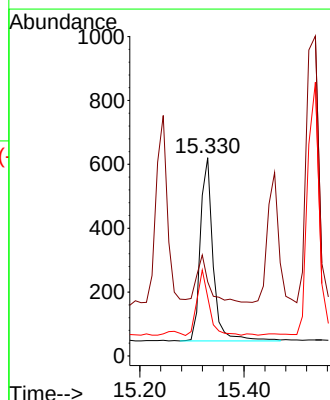
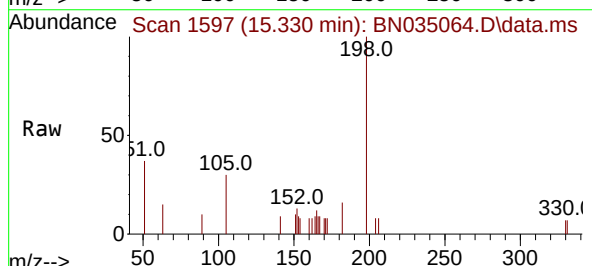
Tgt Ion:198 Resp: 979

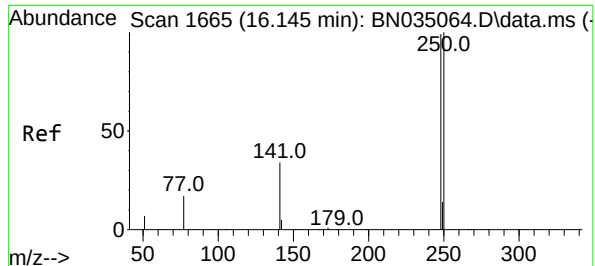
Ion Ratio Lower Upper

198 100

51 37.4 29.9 44.9

105 29.6 23.7 35.5

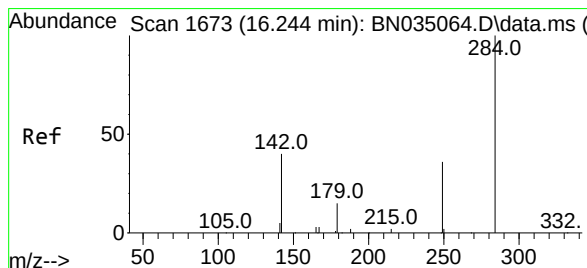
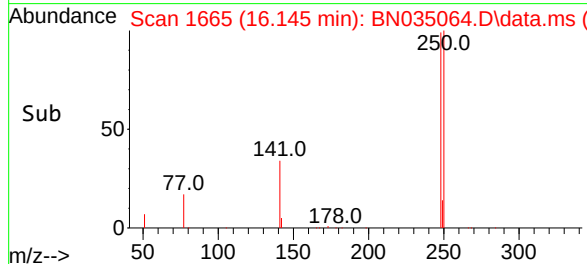
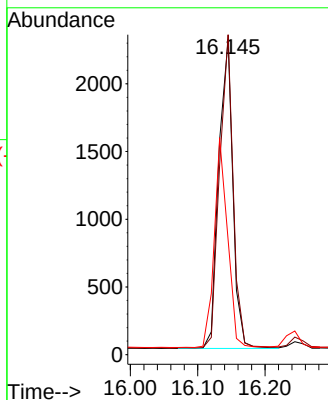
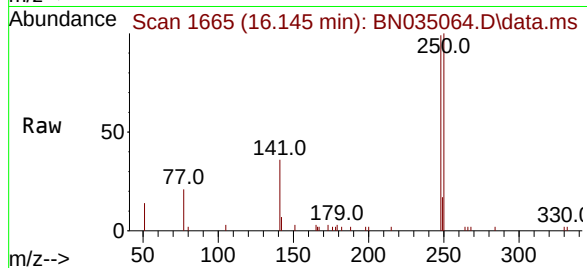




#21
4-Bromophenyl-phenylether
Concen: 0.386 ng
RT: 16.145 min Scan# 1665
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

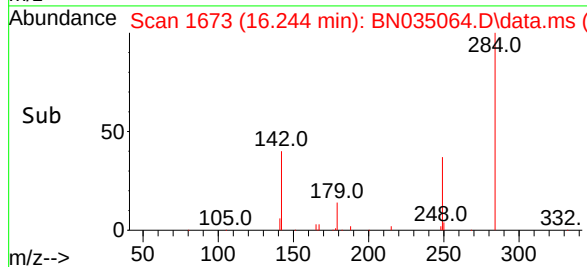
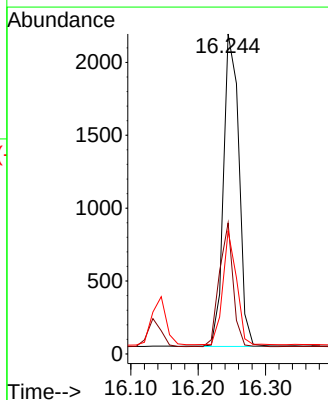
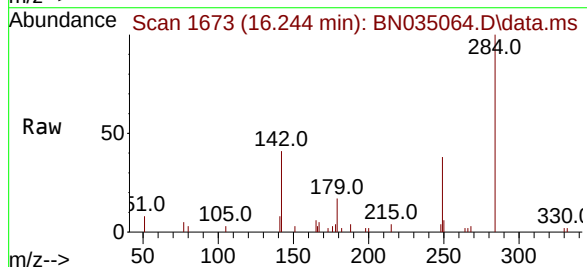
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

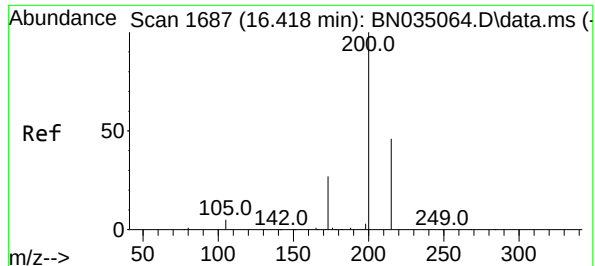
Tgt Ion	Ratio	Lower	Upper
248	100		
250	101.5	81.2	121.8
141	36.4	29.1	43.7



#22
Hexachlorobenzene
Concen: 0.382 ng
RT: 16.244 min Scan# 1673
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Tgt Ion	Ratio	Lower	Upper
284	100		
142	35.3	28.2	42.4
249	32.7	26.2	39.2

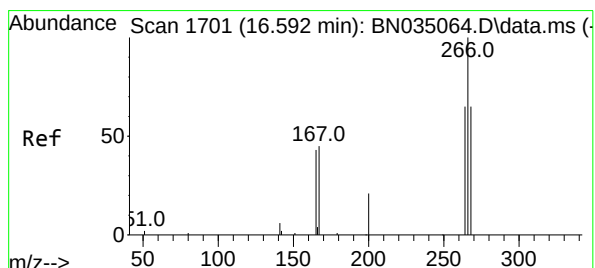
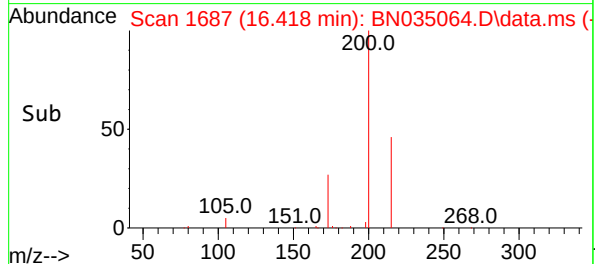
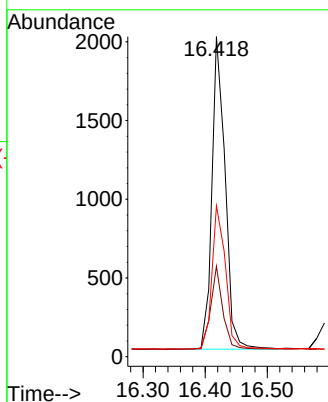
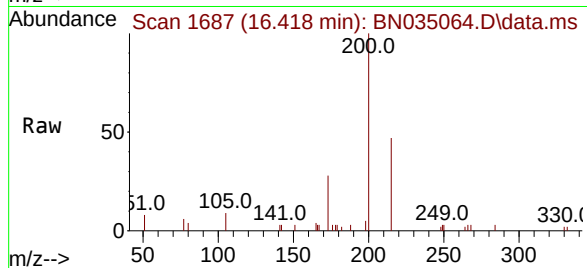




#23
Atrazine
Concen: 0.379 ng
RT: 16.418 min Scan# 1687
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

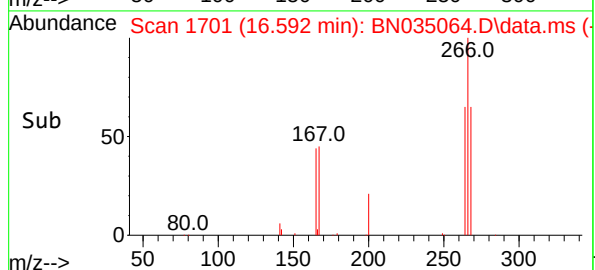
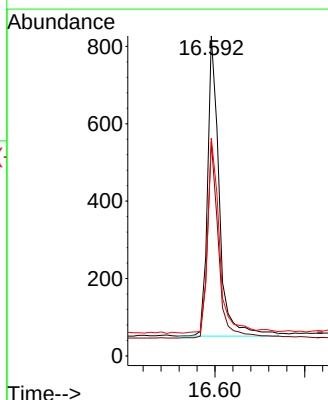
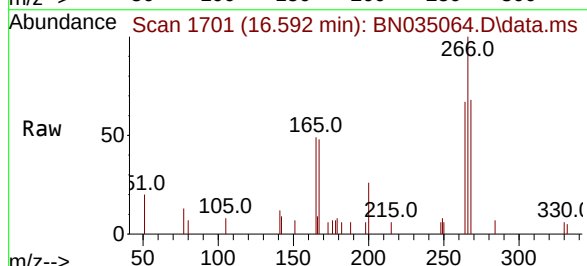
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

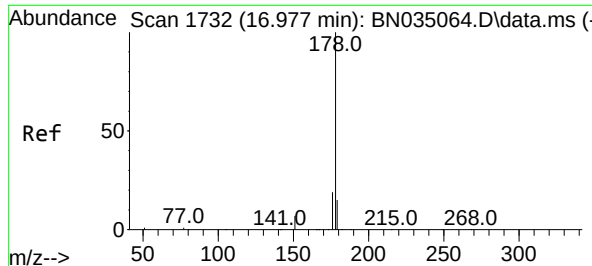
Tgt Ion	Ratio	Lower	Upper
200	100		
173	28.2	22.6	33.8
215	47.2	37.8	56.6



#24
Pentachlorophenol
Concen: 0.336 ng
RT: 16.592 min Scan# 1701
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Tgt Ion	Ratio	Lower	Upper
266	100		
264	61.7	49.4	74.0
268	65.8	52.6	79.0

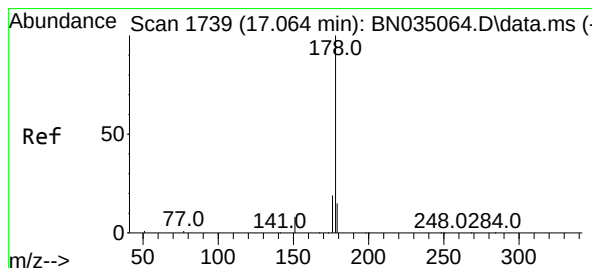
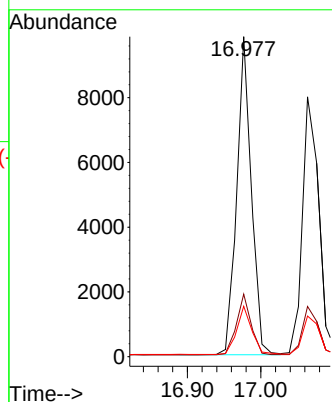
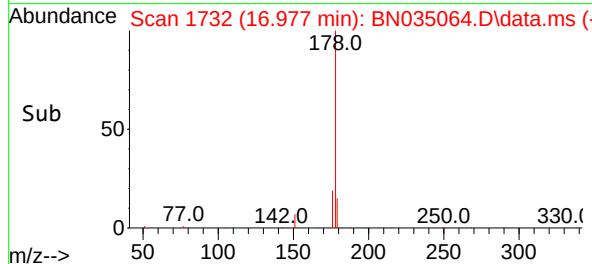
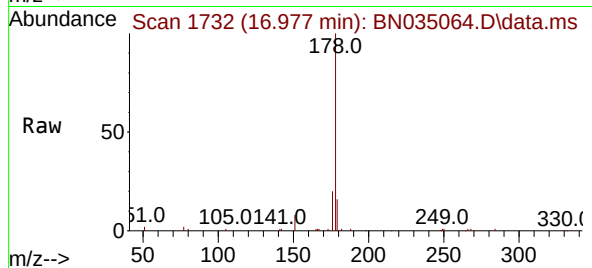




#25
Phenanthrene
Concen: 0.382 ng
RT: 16.977 min Scan# 1732
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

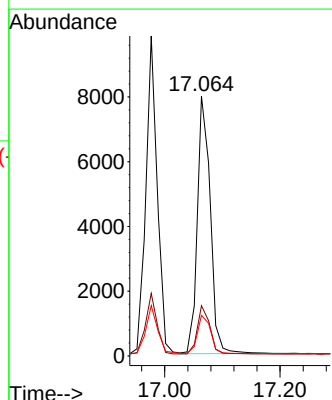
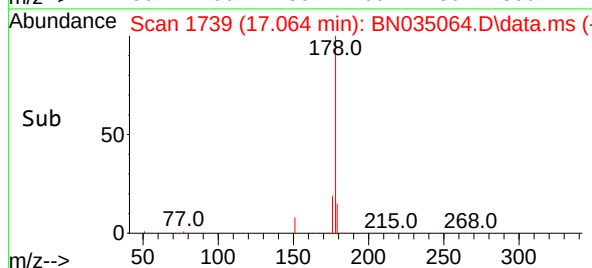
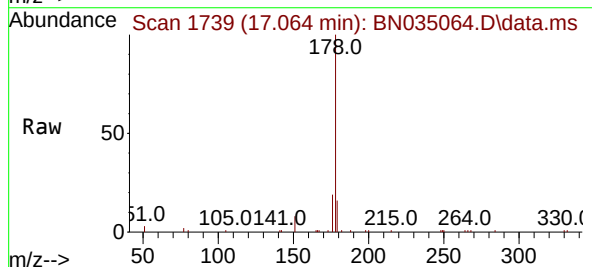
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

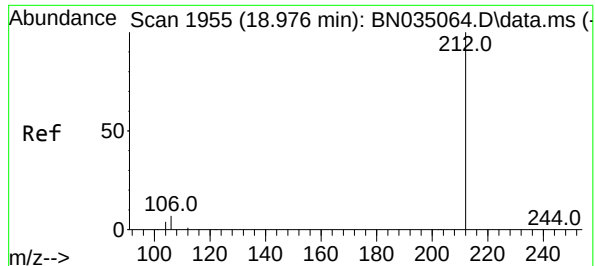
Tgt Ion:178 Resp: 13558
Ion Ratio Lower Upper
178 100
176 19.0 15.2 22.8
179 15.7 12.6 18.8



#26
Anthracene
Concen: 0.381 ng
RT: 17.064 min Scan# 1739
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Tgt Ion:178 Resp: 12422
Ion Ratio Lower Upper
178 100
176 18.3 14.6 22.0
179 15.2 12.2 18.2





#27

Fluoranthene-d10

Concen: 0.382 ng

RT: 18.976 min Scan# 1955

Delta R.T. 0.000 min

Lab File: BN035064.D

Acq: 13 Nov 2024 13:52

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

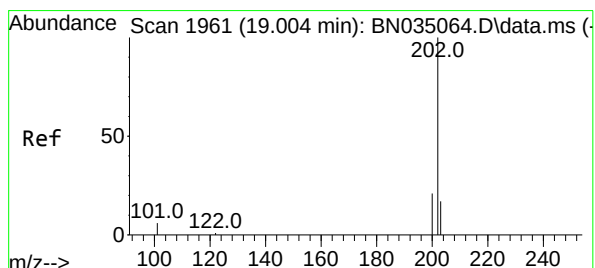
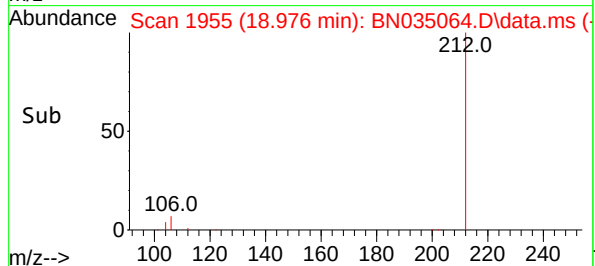
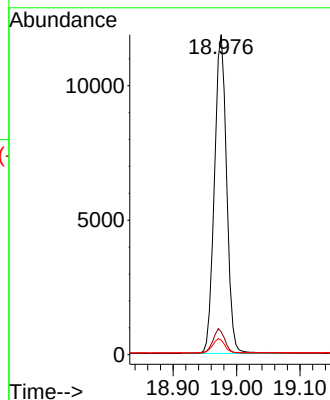
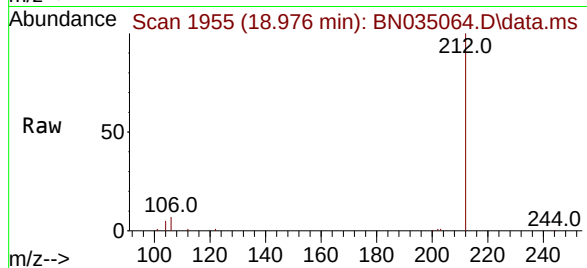
Tgt Ion:212 Resp: 15786

Ion Ratio Lower Upper

212 100

106 7.5 6.0 9.0

104 4.4 3.5 5.3



#28

Fluoranthene

Concen: 0.383 ng

RT: 19.004 min Scan# 1961

Delta R.T. 0.000 min

Lab File: BN035064.D

Acq: 13 Nov 2024 13:52

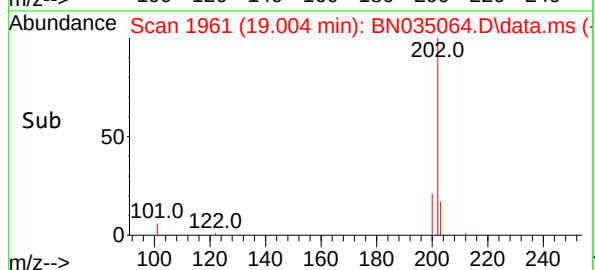
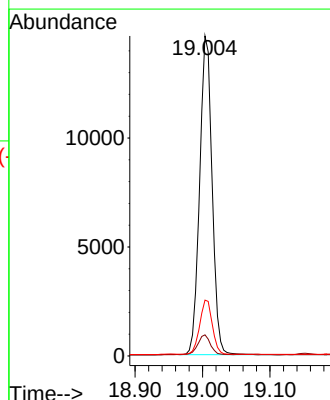
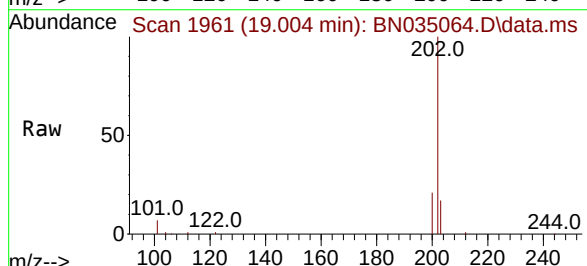
Tgt Ion:202 Resp: 18716

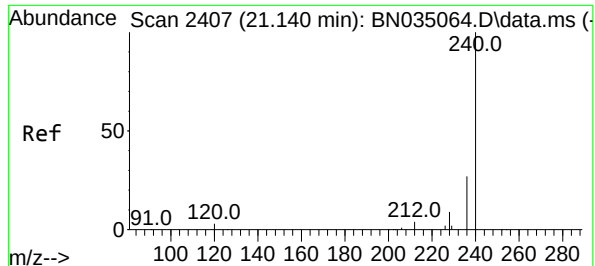
Ion Ratio Lower Upper

202 100

101 6.5 5.2 7.8

203 17.3 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.140 min Scan# 2407

Delta R.T. 0.000 min

Lab File: BN035064.D

Acq: 13 Nov 2024 13:52

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

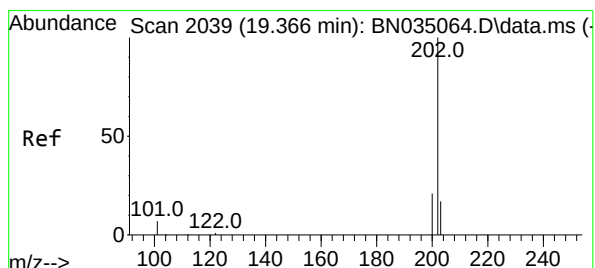
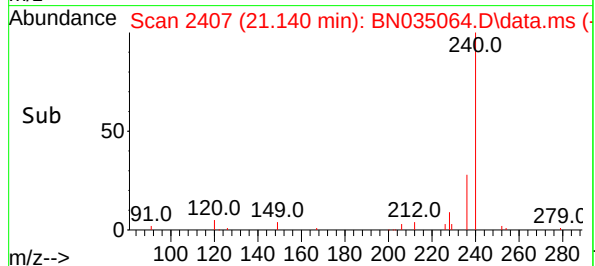
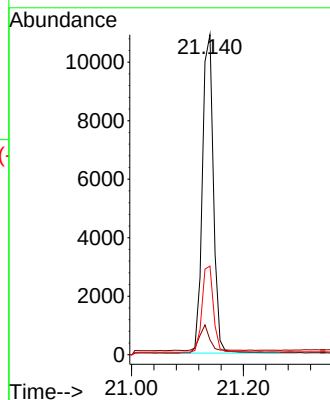
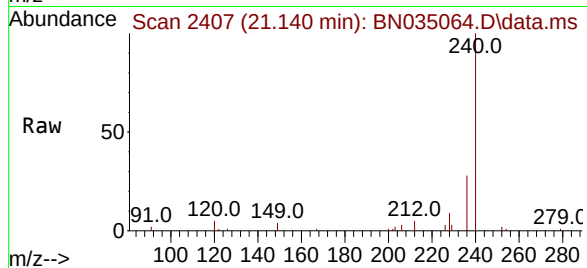
Tgt Ion:240 Resp: 14946

Ion Ratio Lower Upper

240 100

120 4.7 3.8 5.6

236 27.7 22.2 33.2



#30

Pyrene

Concen: 0.387 ng

RT: 19.366 min Scan# 2039

Delta R.T. 0.000 min

Lab File: BN035064.D

Acq: 13 Nov 2024 13:52

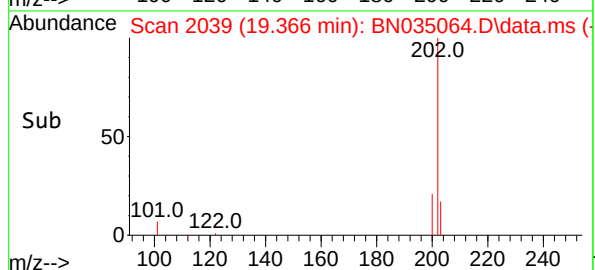
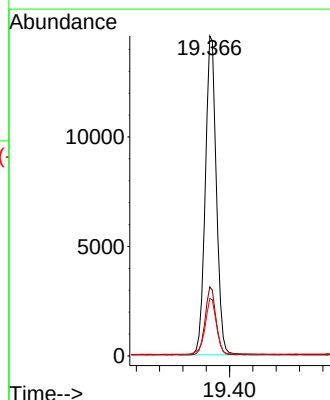
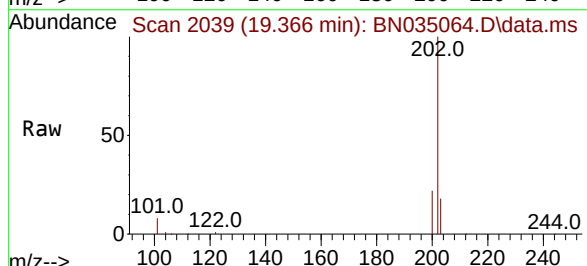
Tgt Ion:202 Resp: 19252

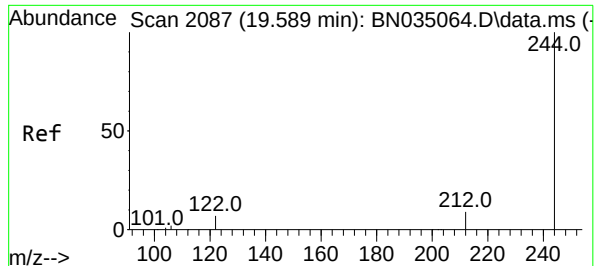
Ion Ratio Lower Upper

202 100

200 20.9 16.7 25.1

203 17.8 14.2 21.4

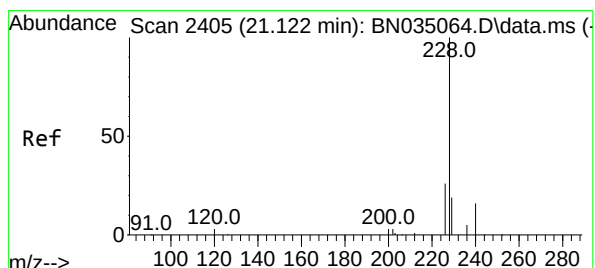
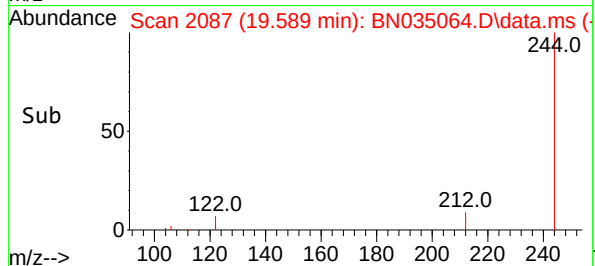
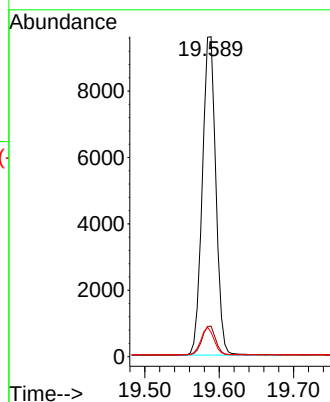
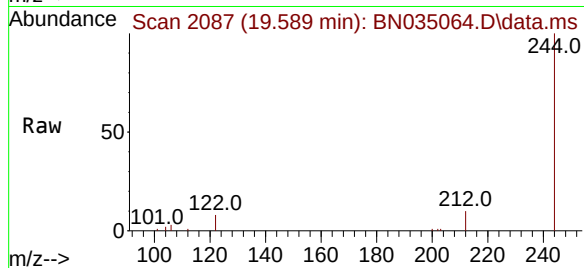




#31
Terphenyl-d14
Concen: 0.386 ng
RT: 19.589 min Scan# 2087
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

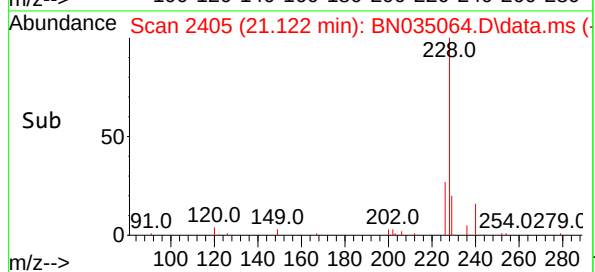
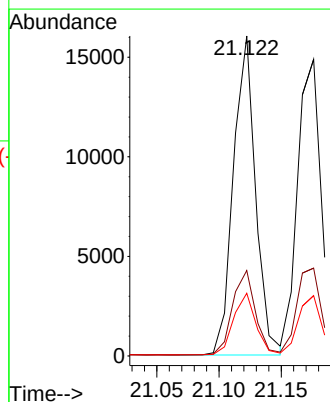
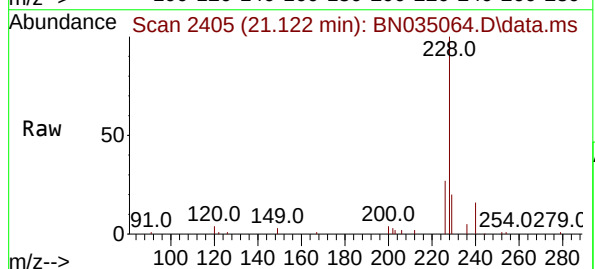
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

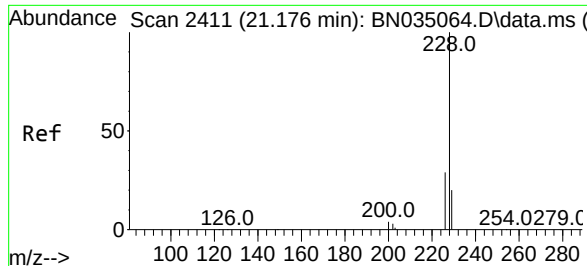
Tgt Ion:244 Resp: 12101
Ion Ratio Lower Upper
244 100
212 9.5 7.6 11.4
122 7.6 6.1 9.1



#32
Benzo(a)anthracene
Concen: 0.381 ng
RT: 21.122 min Scan# 2405
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Tgt Ion:228 Resp: 19844
Ion Ratio Lower Upper
228 100
226 26.7 21.4 32.0
229 19.6 15.7 23.5





#33

Chrysene

Concen: 0.386 ng

RT: 21.176 min Scan# 2411

Delta R.T. 0.000 min

Lab File: BN035064.D

Acq: 13 Nov 2024 13:52

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

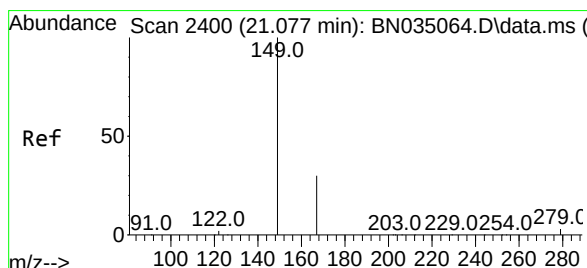
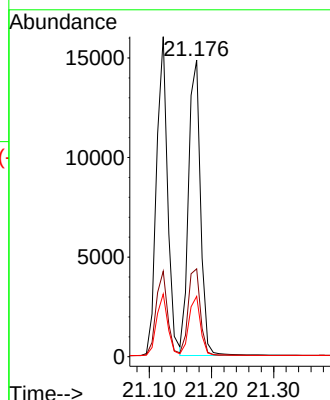
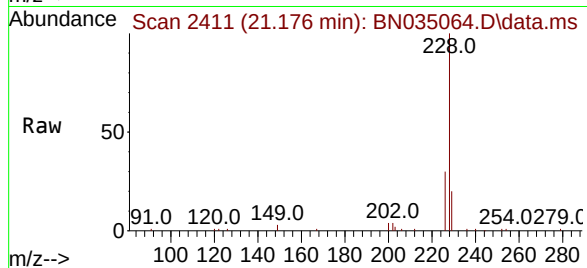
Tgt Ion:228 Resp: 19908

Ion Ratio Lower Upper

228 100

226 29.6 23.7 35.5

229 20.3 16.2 24.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.357 ng

RT: 21.077 min Scan# 2400

Delta R.T. 0.000 min

Lab File: BN035064.D

Acq: 13 Nov 2024 13:52

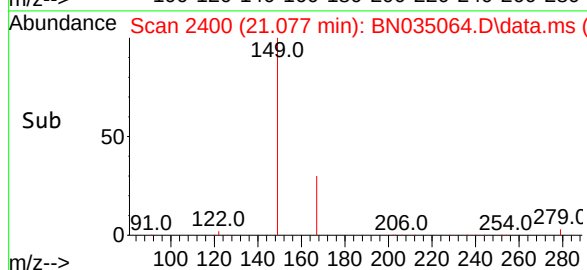
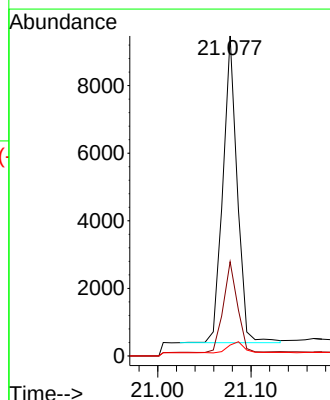
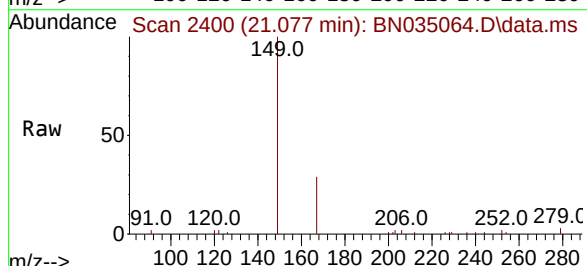
Tgt Ion:149 Resp: 9671

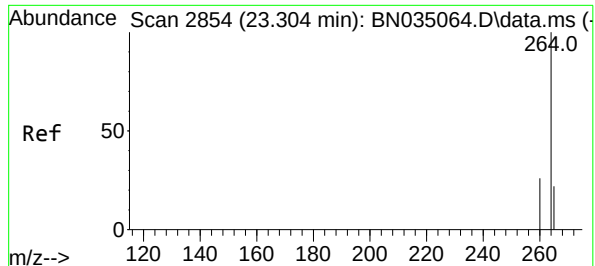
Ion Ratio Lower Upper

149 100

167 29.0 23.2 34.8

279 4.0 3.2 4.8





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.304 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN035064.D

Acq: 13 Nov 2024 13:52

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

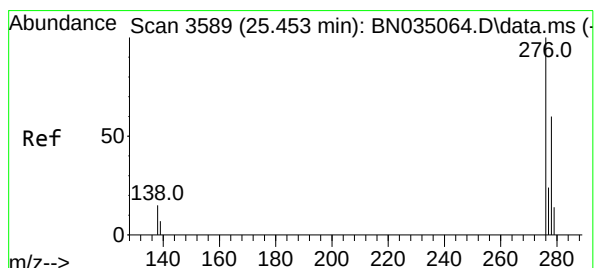
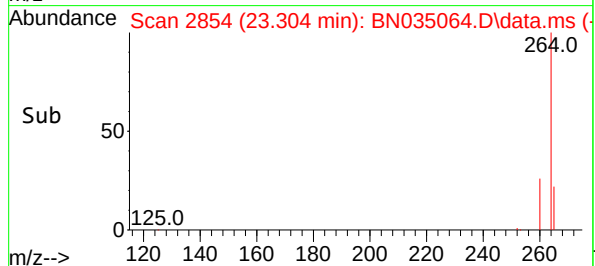
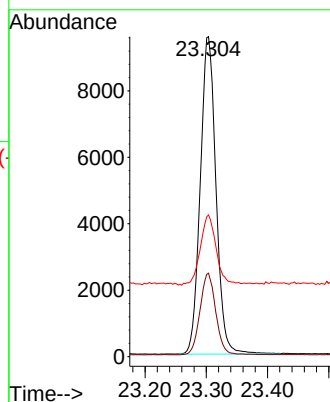
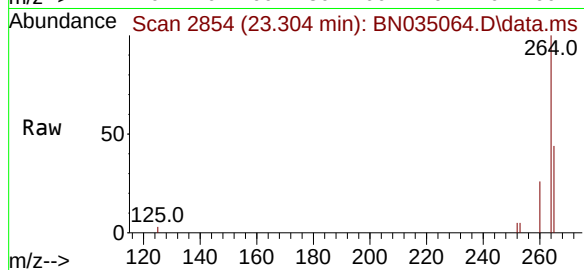
Tgt Ion:264 Resp: 17077

Ion Ratio Lower Upper

264 100

260 26.1 20.9 31.3

265 44.3 35.4 53.2



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.381 ng

RT: 25.453 min Scan# 3589

Delta R.T. 0.000 min

Lab File: BN035064.D

Acq: 13 Nov 2024 13:52

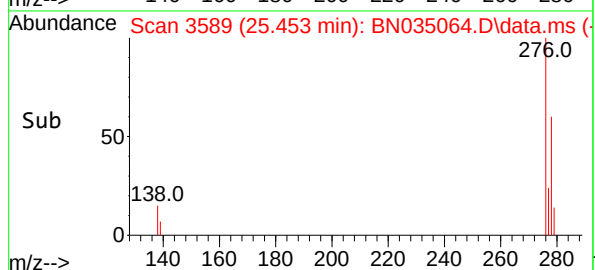
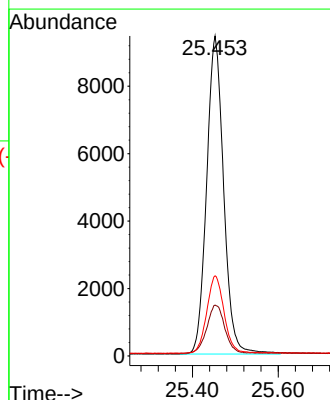
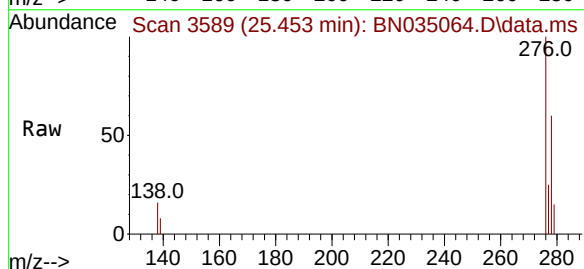
Tgt Ion:276 Resp: 25986

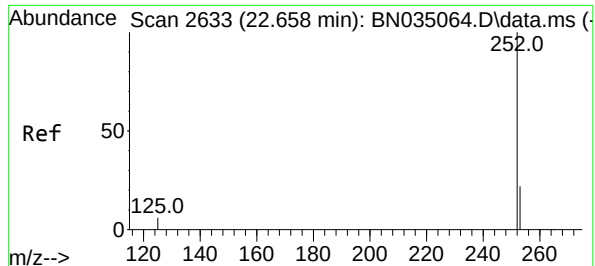
Ion Ratio Lower Upper

276 100

138 16.2 13.0 19.4

277 24.7 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.380 ng

RT: 22.658 min Scan# 2633

Delta R.T. 0.000 min

Lab File: BN035064.D

Acq: 13 Nov 2024 13:52

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

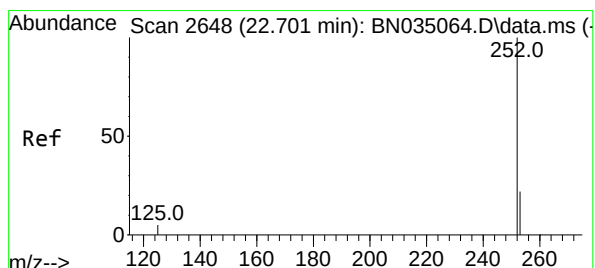
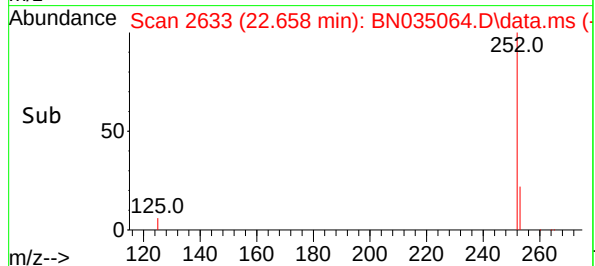
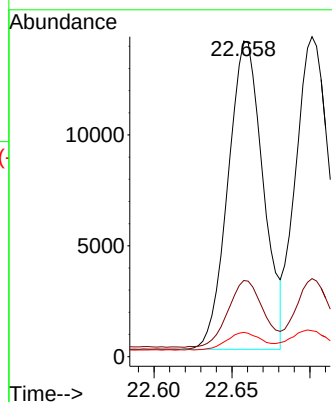
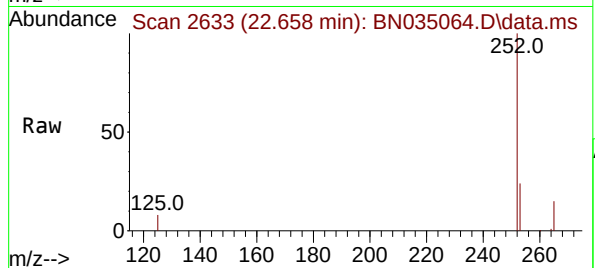
Tgt Ion:252 Resp: 21843

Ion Ratio Lower Upper

252 100

253 24.1 19.3 28.9

125 7.7 6.2 9.2



#38

Benzo(k)fluoranthene

Concen: 0.382 ng

RT: 22.701 min Scan# 2648

Delta R.T. 0.000 min

Lab File: BN035064.D

Acq: 13 Nov 2024 13:52

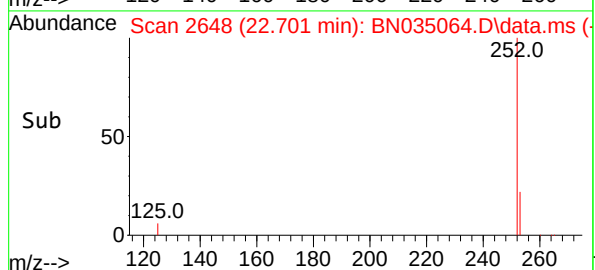
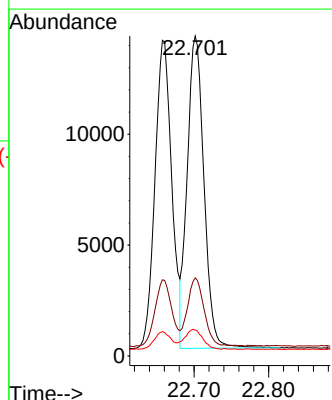
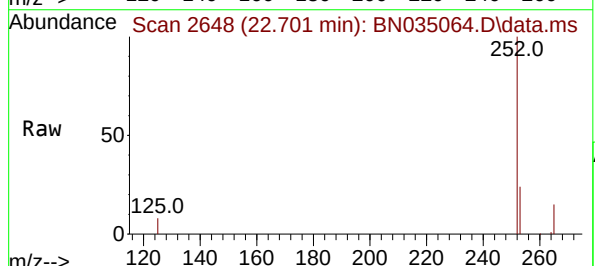
Tgt Ion:252 Resp: 21977

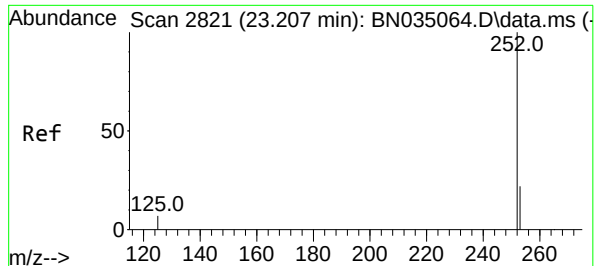
Ion Ratio Lower Upper

252 100

253 24.4 19.5 29.3

125 8.1 6.5 9.7





#39

Benzo(a)pyrene

Concen: 0.379 ng

RT: 23.207 min Scan# 2821

Delta R.T. 0.000 min

Lab File: BN035064.D

Acq: 13 Nov 2024 13:52

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

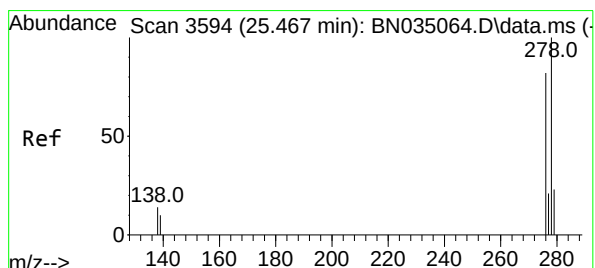
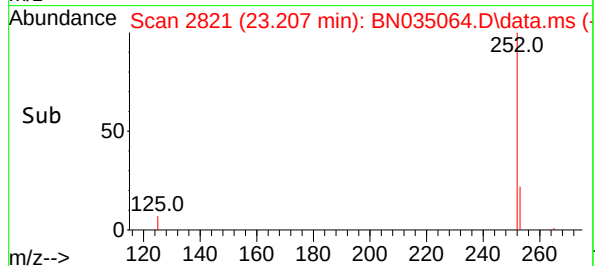
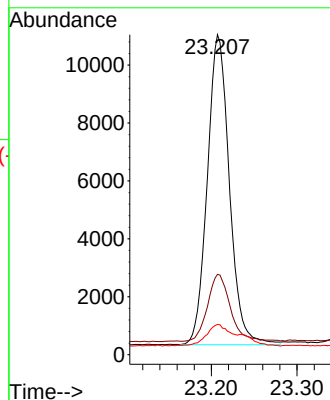
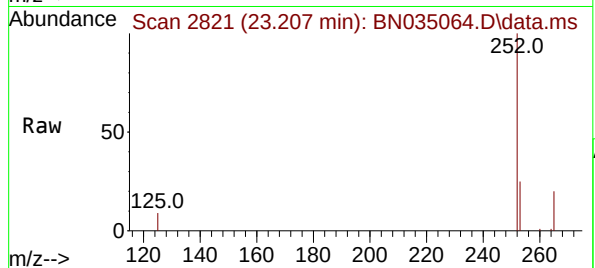
Tgt Ion:252 Resp: 19170

Ion Ratio Lower Upper

252 100

253 25.1 20.1 30.1

125 9.4 7.5 11.3



#40

Dibenzo(a,h)anthracene

Concen: 0.383 ng

RT: 25.467 min Scan# 3594

Delta R.T. 0.000 min

Lab File: BN035064.D

Acq: 13 Nov 2024 13:52

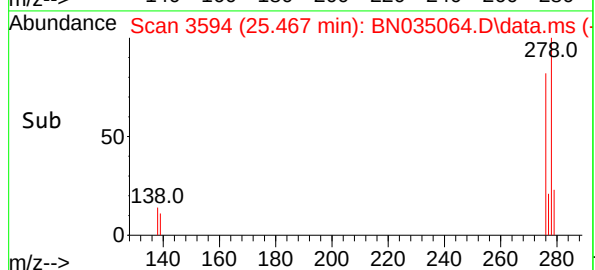
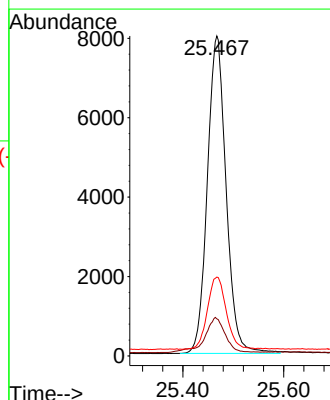
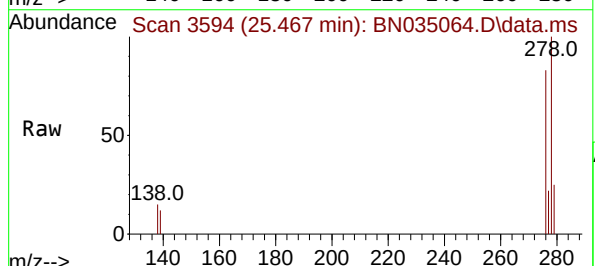
Tgt Ion:278 Resp: 20655

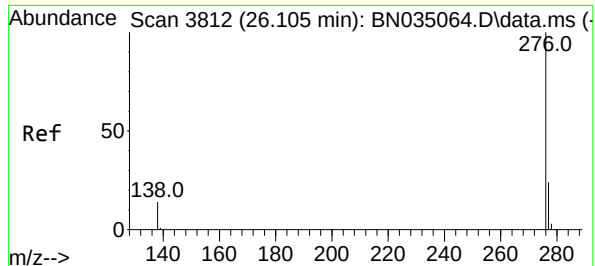
Ion Ratio Lower Upper

278 100

139 11.6 9.3 13.9

279 24.6 19.7 29.5





#41

Benzo(g,h,i)perylene

Concen: 0.382 ng

RT: 26.105 min Scan# 3812

Delta R.T. 0.000 min

Lab File: BN035064.D

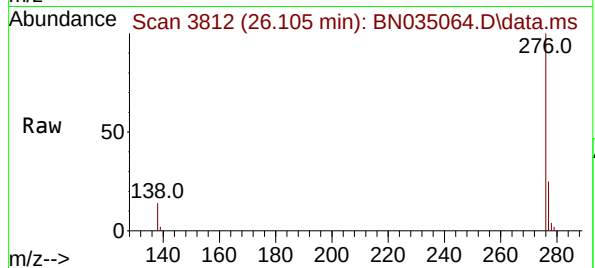
Acq: 13 Nov 2024 13:52

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4



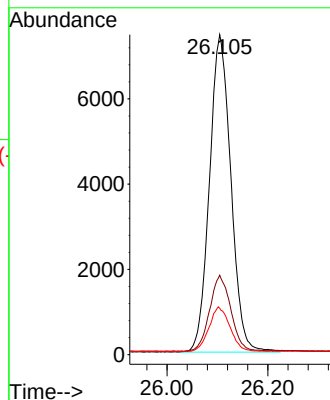
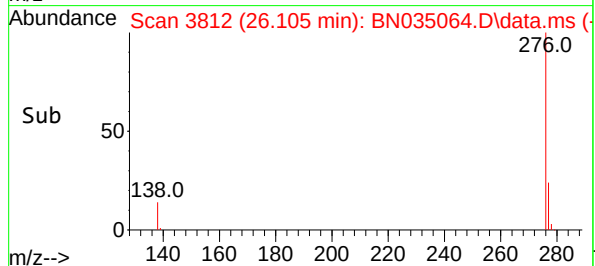
Tgt Ion:276 Resp: 21955

Ion Ratio Lower Upper

276 100

277 24.9 19.9 29.9

138 14.5 11.6 17.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
 Data File : BN035065.D
 Acq On : 13 Nov 2024 14:28
 Operator : RC/JU
 Sample : SSTDICC0.8
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.8

Quant Time: Nov 13 16:44:09 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 16:42:01 2024
 Response via : Initial Calibration

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

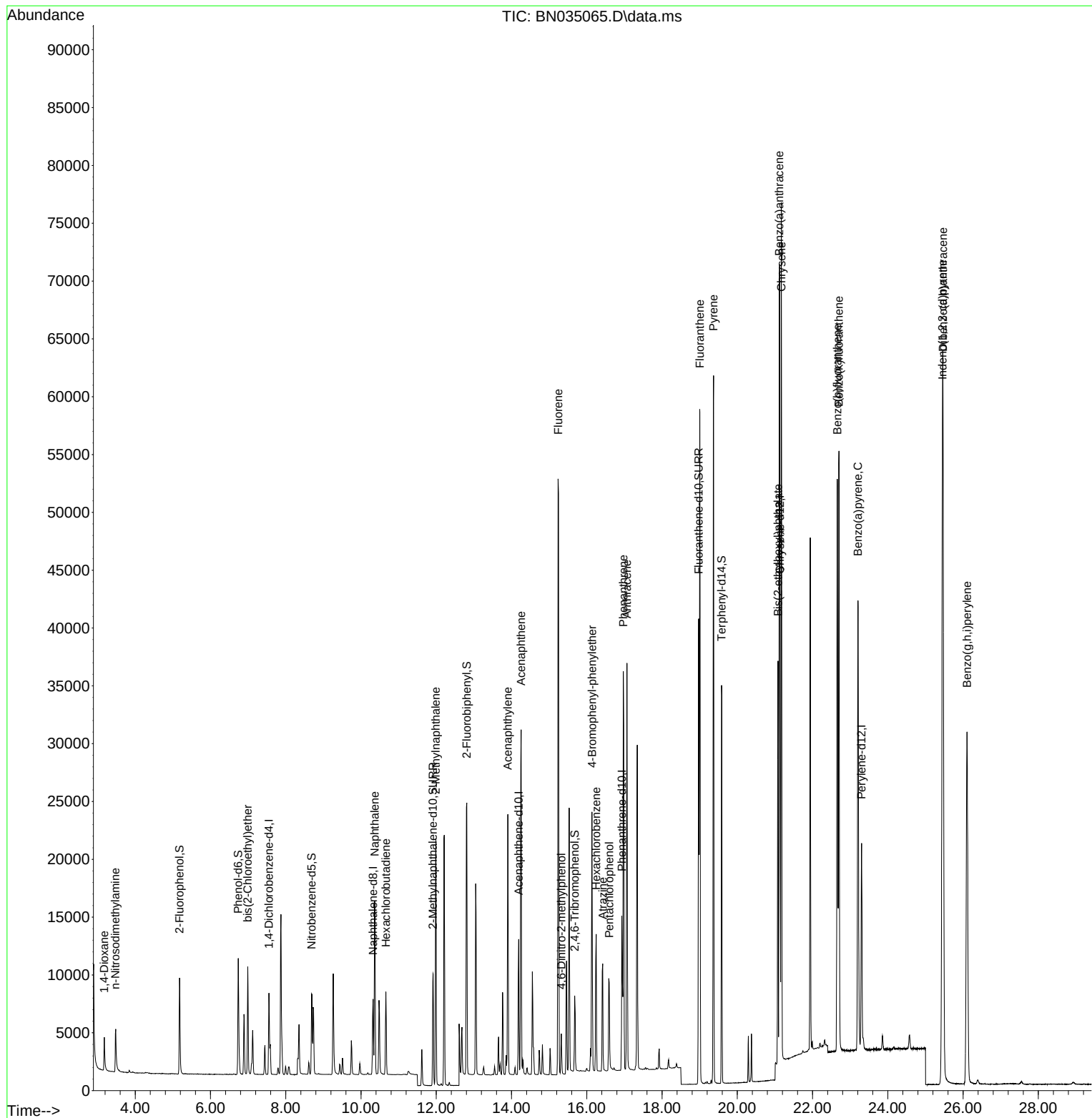
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.553	152	3429	0.400	ng	0.00
7) Naphthalene-d8	10.319	136	8612	0.400	ng	0.00
13) Acenaphthene-d10	14.190	164	6454	0.400	ng	0.00
19) Phenanthrene-d10	16.933	188	17302	0.400	ng	# 0.00
29) Chrysene-d12	21.134	240	19278	0.400	ng	# 0.00
35) Perylene-d12	23.300	264	21751	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	7450	0.856	ng	0.00
5) Phenol-d6	6.737	99	9293	0.851	ng	0.00
8) Nitrobenzene-d5	8.685	82	6336	0.848	ng	-0.01
11) 2-Methylnaphthalene-d10	11.912	152	13119	0.855	ng	0.00
14) 2,4,6-Tribromophenol	15.679	330	3866	0.831	ng	0.00
15) 2-Fluorobiphenyl	12.811	172	22399	0.855	ng	0.00
27) Fluoranthene-d10	18.973	212	44583	0.841	ng	0.00
31) Terphenyl-d14	19.582	244	34460	0.852	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.177	88	2545	0.817	ng	99
3) n-Nitrosodimethylamine	3.473	42	2466	0.853	ng	# 96
6) bis(2-Chloroethyl)ether	6.990	93	7043	0.860	ng	99
9) Naphthalene	10.362	128	19223	0.855	ng	98
10) Hexachlorobutadiene	10.661	225	5612	0.851	ng	# 100
12) 2-Methylnaphthalene	11.988	142	14179	0.855	ng	99
16) Acenaphthylene	13.902	152	23520	0.853	ng	99
17) Acenaphthene	14.254	154	15511	0.858	ng	99
18) Fluorene	15.238	166	22649	0.852	ng	99
20) 4,6-Dinitro-2-methylph...	15.323	198	3013	0.837	ng	# 87
21) 4-Bromophenyl-phenylether	16.138	248	9403	0.853	ng	# 85
22) Hexachlorobenzene	16.250	284	9574	0.837	ng	99
23) Atrazine	16.424	200	8427	0.852	ng	# 92
24) Pentachlorophenol	16.597	266	4494	0.841	ng	98
25) Phenanthrene	16.970	178	38573	0.847	ng	99
26) Anthracene	17.069	178	35437	0.847	ng	100
28) Fluoranthene	19.006	202	53391	0.853	ng	100
30) Pyrene	19.368	202	54892	0.855	ng	100
32) Benzo(a)anthracene	21.116	228	56460	0.841	ng	98
33) Chrysene	21.169	228	57039	0.858	ng	98
34) Bis(2-ethylhexyl)phtha...	21.080	149	29628	0.848	ng	100
36) Indeno(1,2,3-cd)pyrene	25.452	276	75270	0.867	ng	100
37) Benzo(b)fluoranthene	22.657	252	62606	0.855	ng	97
38) Benzo(k)fluoranthene	22.701	252	61702	0.843	ng	96
39) Benzo(a)pyrene	23.206	252	54251	0.842	ng	# 95
40) Dibenzo(a,h)anthracene	25.466	278	59829	0.870	ng	99
41) Benzo(g,h,i)perylene	26.104	276	63167	0.864	ng	98

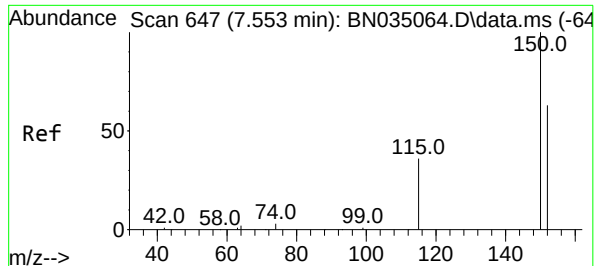
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
Data File : BN035065.D
Acq On : 13 Nov 2024 14:28
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Nov 13 16:44:09 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 16:42:01 2024
Response via : Initial Calibration

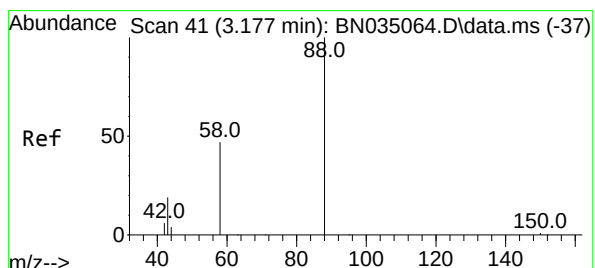
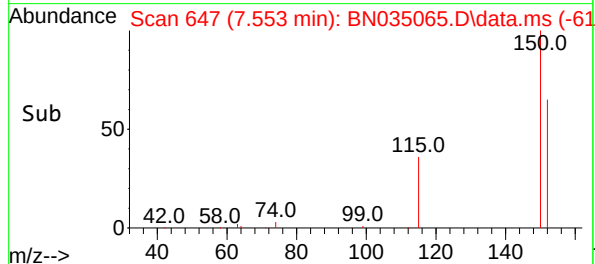
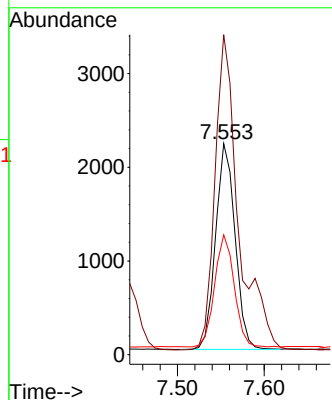
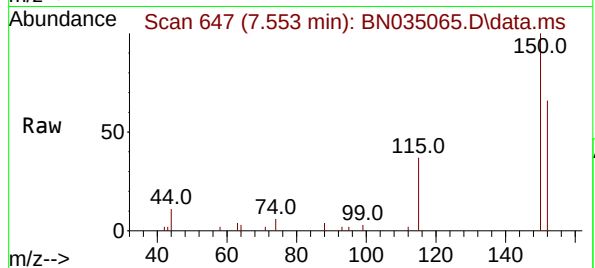




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.553 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

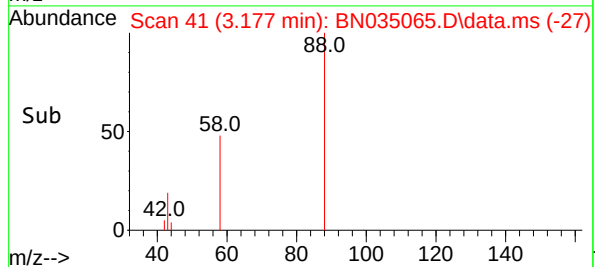
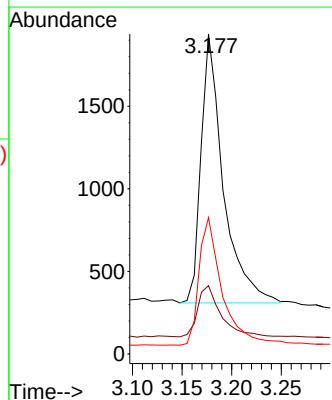
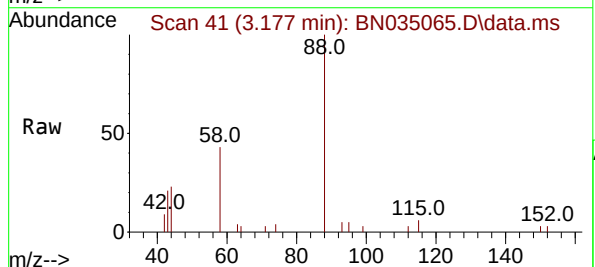
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

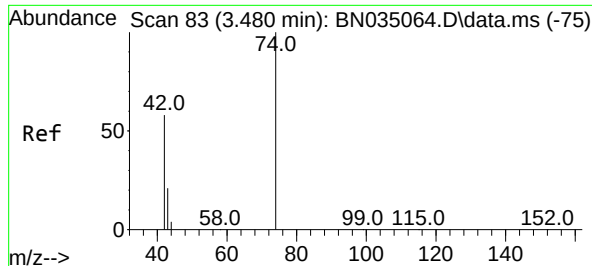
Tgt Ion:152 Resp: 3429
Ion Ratio Lower Upper
152 100
150 151.6 124.5 186.7
115 56.8 47.8 71.6



#2
1,4-Dioxane
Concen: 0.817 ng
RT: 3.177 min Scan# 41
Delta R.T. 0.000 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Tgt Ion: 88 Resp: 2545
Ion Ratio Lower Upper
88 100
43 19.8 16.9 25.3
58 49.3 39.0 58.4

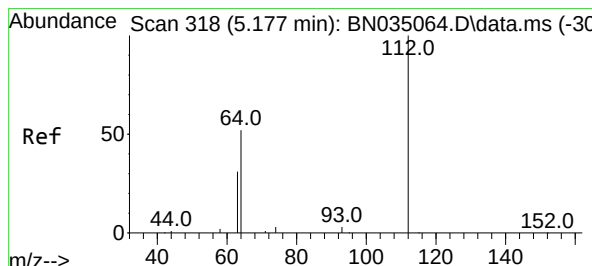
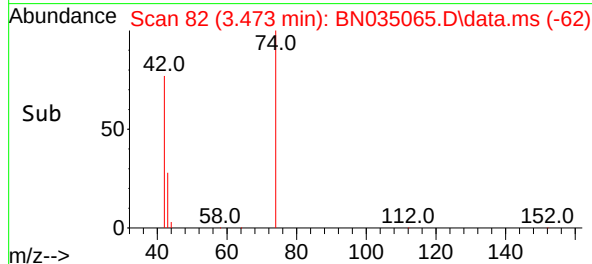
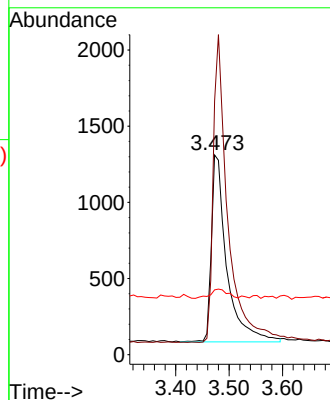
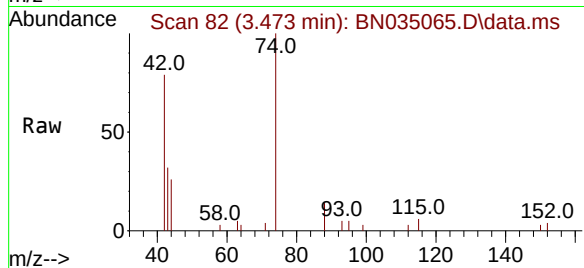




#3
n-Nitrosodimethylamine
Concen: 0.853 ng
RT: 3.473 min Scan# 81
Delta R.T. -0.007 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

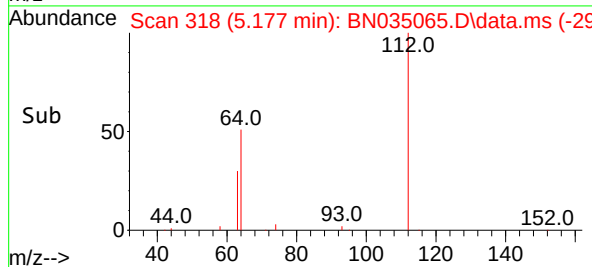
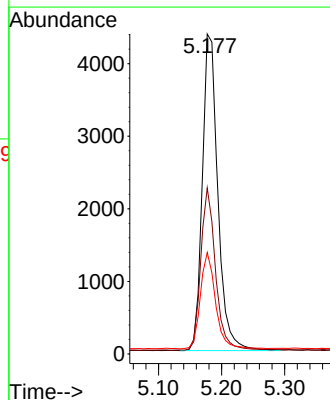
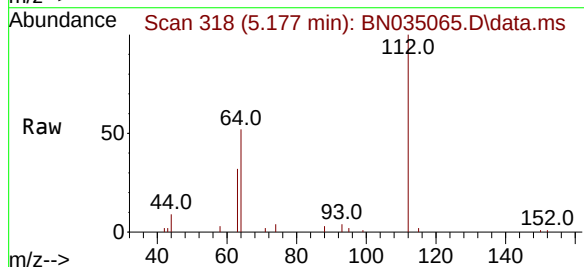
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

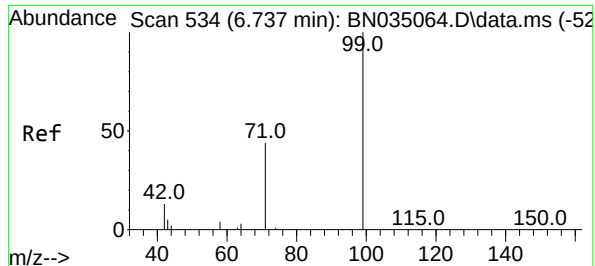
Tgt Ion: 42 Resp: 2466
Ion Ratio Lower Upper
42 100
74 155.8 120.8 181.2
44 5.4 2.9 4.3#



#4
2-Fluorophenol
Concen: 0.856 ng
RT: 5.177 min Scan# 318
Delta R.T. 0.000 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Tgt Ion: 112 Resp: 7450
Ion Ratio Lower Upper
112 100
64 49.1 39.7 59.5
63 29.6 23.0 34.4

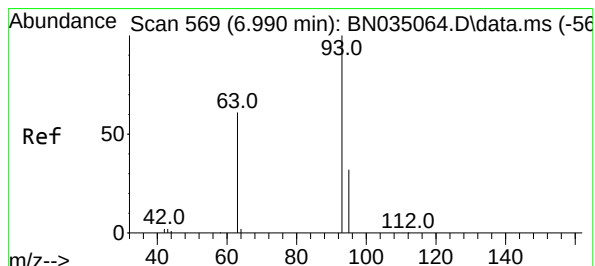
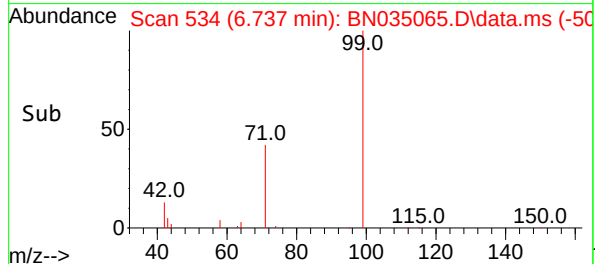
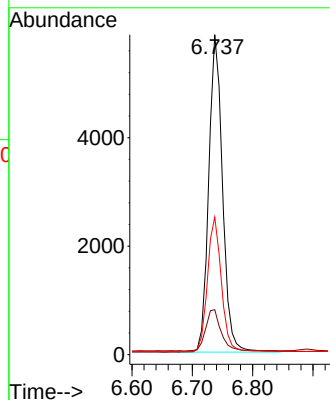
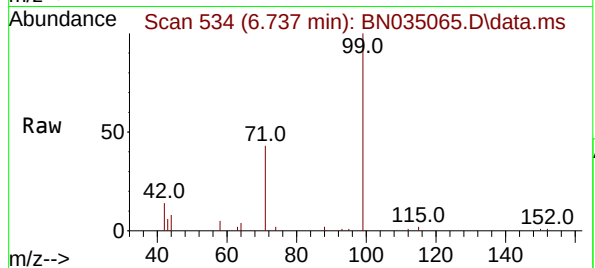




#5
Phenol-d6
Concen: 0.851 ng
RT: 6.737 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

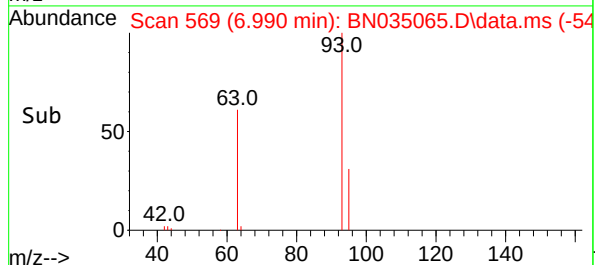
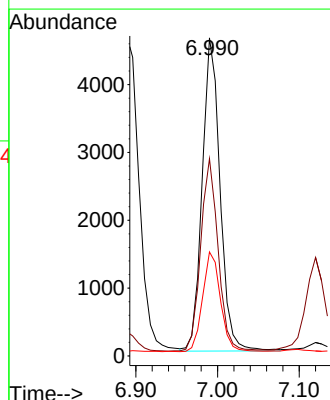
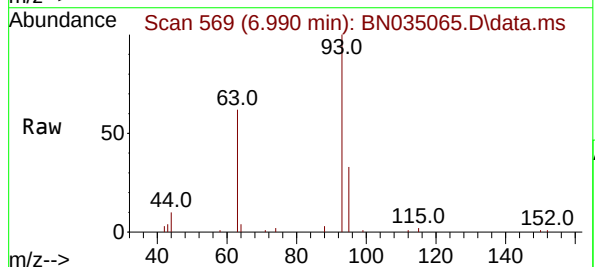
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

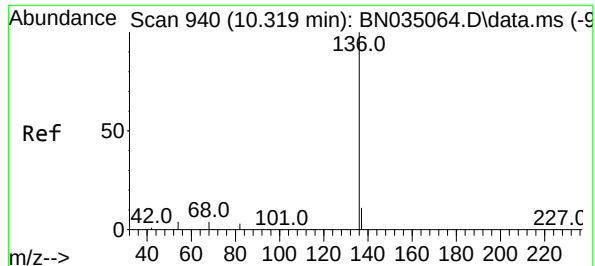
Tgt Ion: 99 Resp: 9293
Ion Ratio Lower Upper
99 100
42 14.5 11.4 17.0
71 42.9 34.6 51.8



#6
bis(2-Chloroethyl)ether
Concen: 0.860 ng
RT: 6.990 min Scan# 569
Delta R.T. 0.000 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Tgt Ion: 93 Resp: 7043
Ion Ratio Lower Upper
93 100
63 60.1 47.4 71.2
95 31.8 26.2 39.4

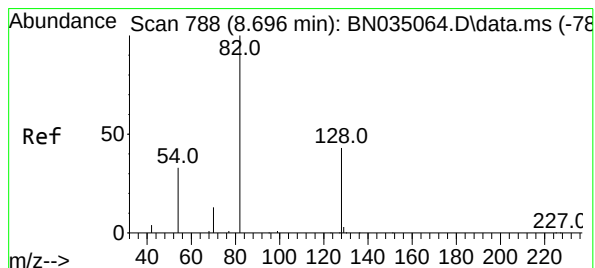
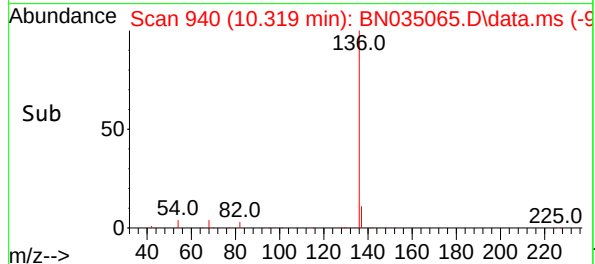
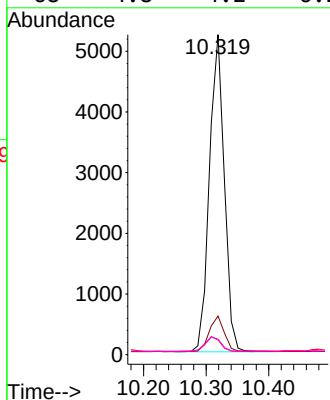
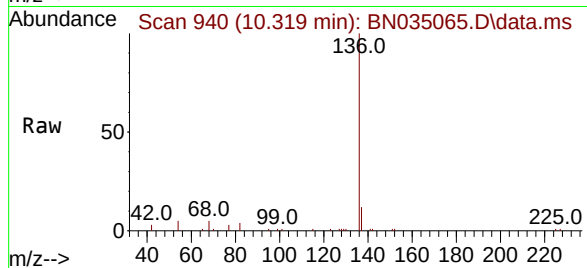




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.319 min Scan# 940
Delta R.T. 0.000 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

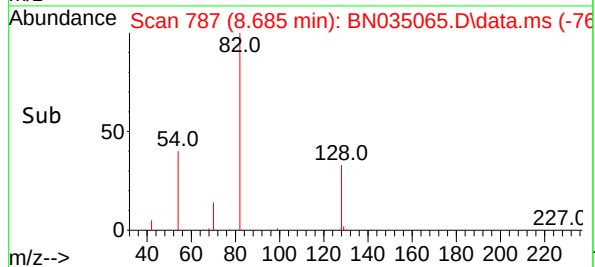
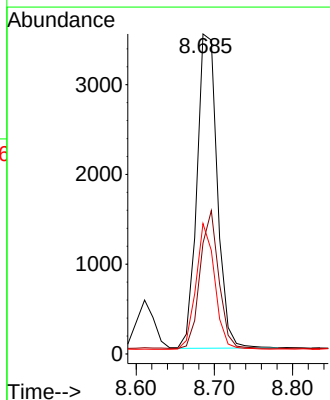
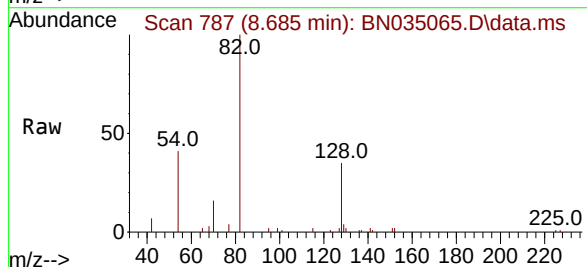
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

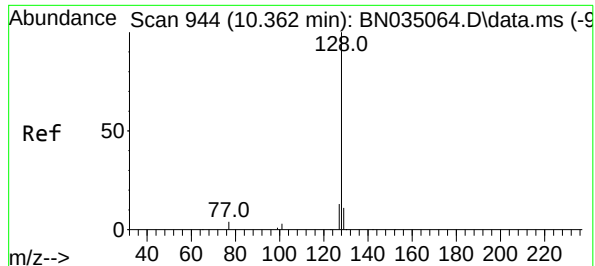
Tgt Ion:	136	Resp:	8612
Ion	Ratio	Lower	Upper
136	100		
137	12.1	9.8	14.8
54	4.6	4.0	6.0
68	4.8	4.2	6.2



#8
Nitrobenzene-d5
Concen: 0.848 ng
RT: 8.685 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Tgt Ion:	82	Resp:	6336
Ion	Ratio	Lower	Upper
82	100		
128	34.6	36.5	54.7#
54	40.8	28.7	43.1

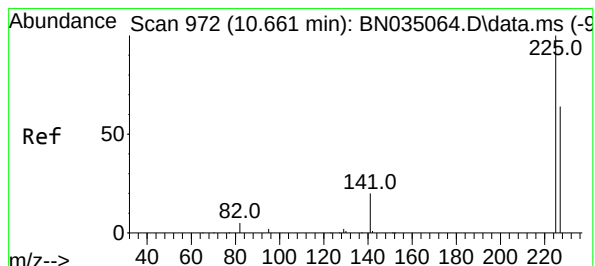
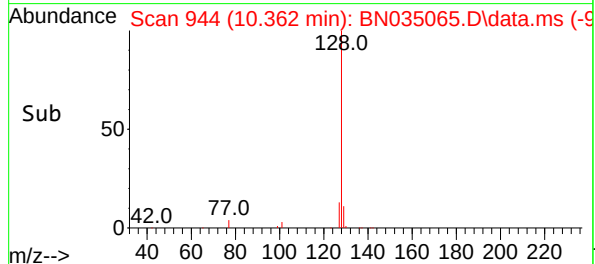
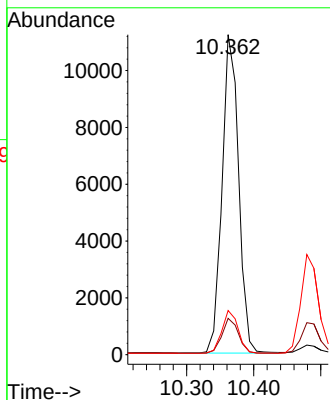
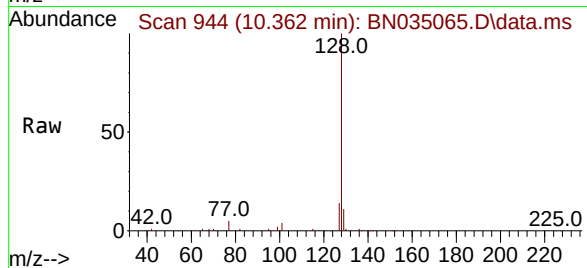




#9
Naphthalene
Concen: 0.855 ng
RT: 10.362 min Scan# 944
Delta R.T. 0.000 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

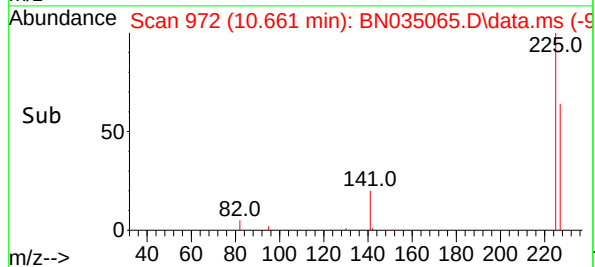
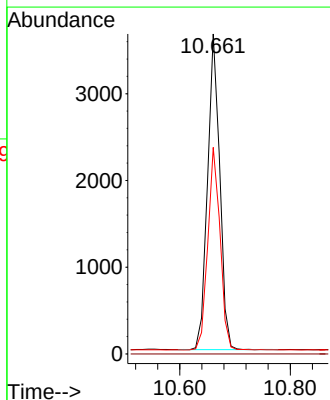
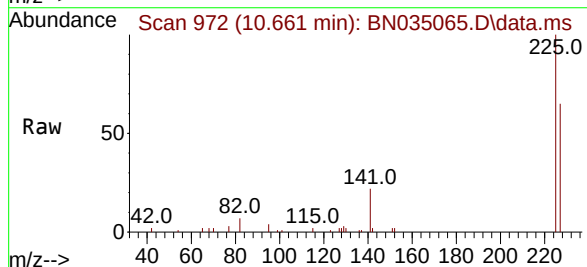
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

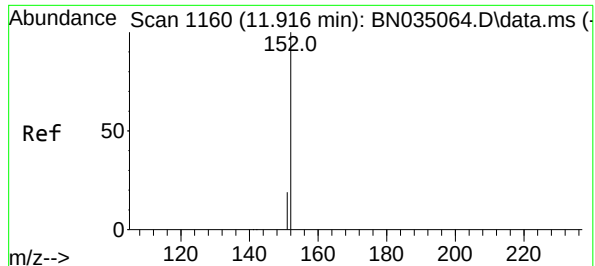
Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.4	9.6	14.4
127	13.8	11.6	17.4



#10
Hexachlorobutadiene
Concen: 0.851 ng
RT: 10.661 min Scan# 972
Delta R.T. 0.000 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Tgt Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.5	51.5	77.3

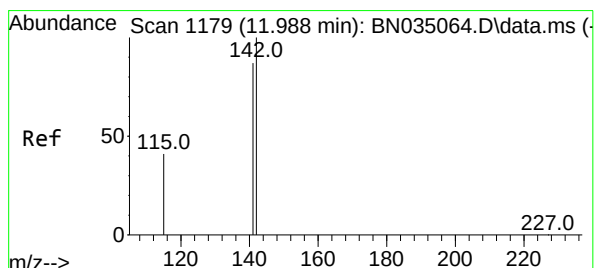
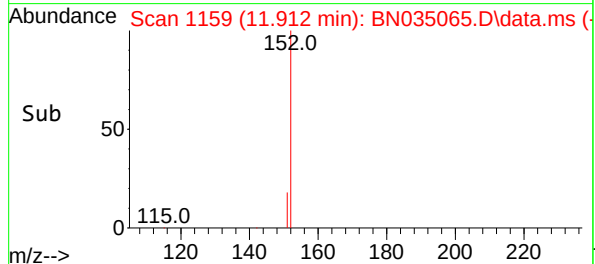
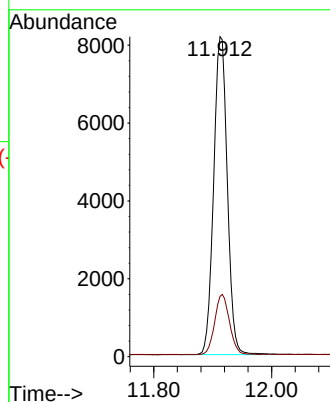
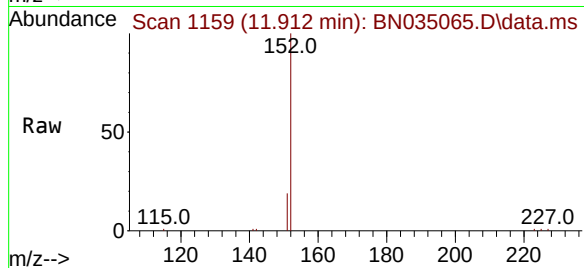




#11
2-Methylnaphthalene-d10
Concen: 0.855 ng
RT: 11.912 min Scan# 1159
Delta R.T. -0.004 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

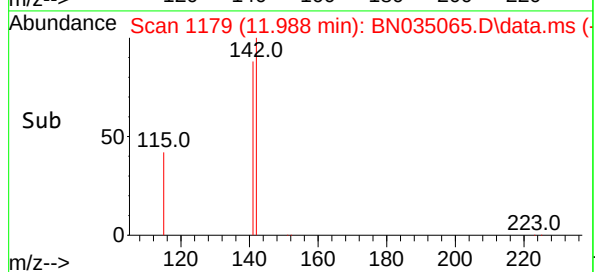
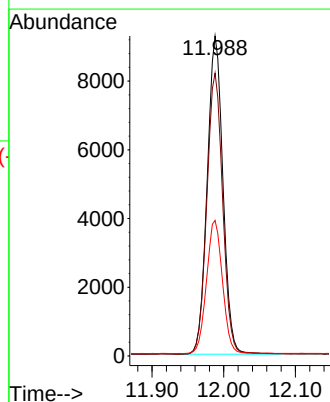
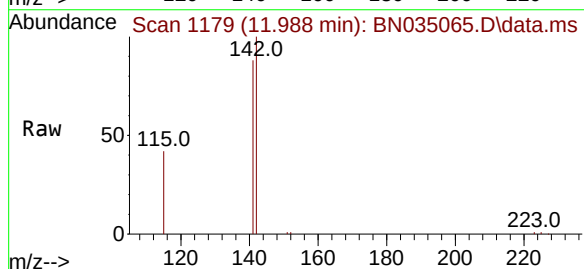
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

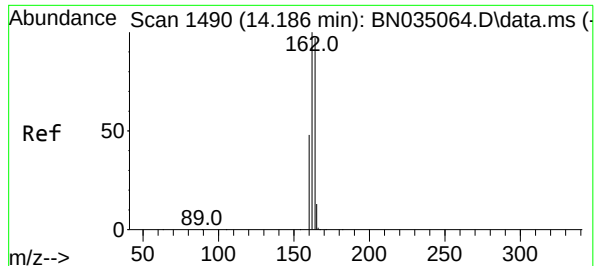
Tgt Ion:152 Resp: 13119
Ion Ratio Lower Upper
152 100
151 20.3 16.2 24.4



#12
2-Methylnaphthalene
Concen: 0.855 ng
RT: 11.988 min Scan# 1179
Delta R.T. 0.000 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Tgt Ion:142 Resp: 14179
Ion Ratio Lower Upper
142 100
141 88.4 70.1 105.1
115 42.4 34.4 51.6

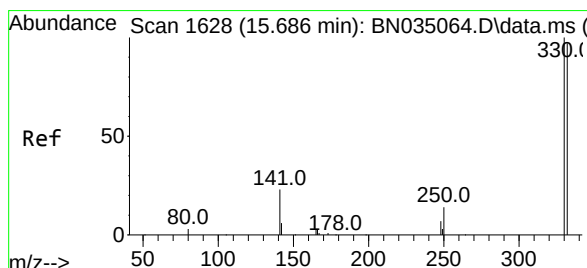
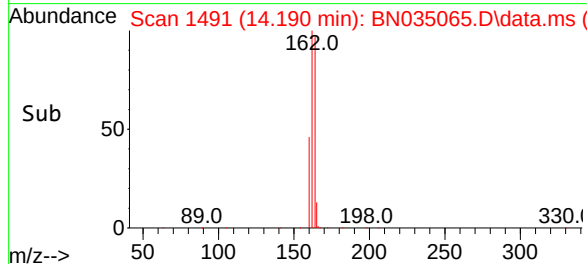
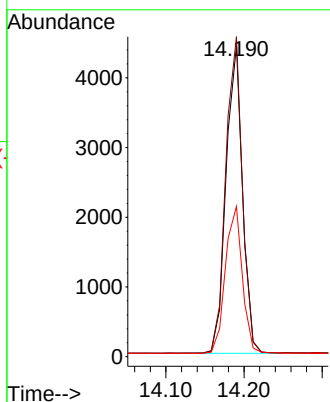
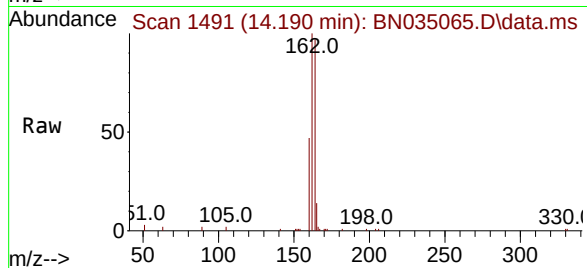




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.190 min Scan# 1491
Delta R.T. 0.004 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

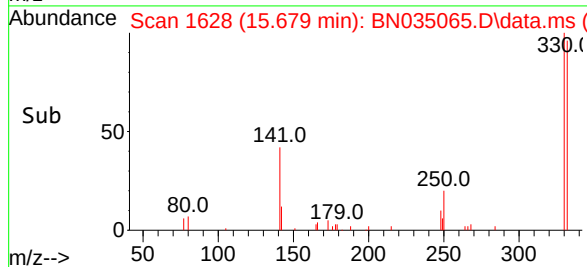
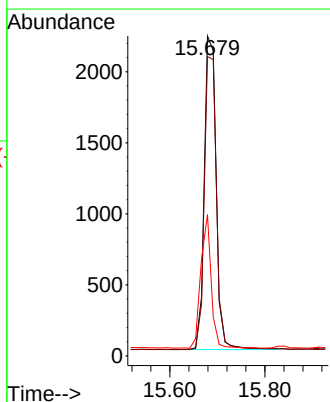
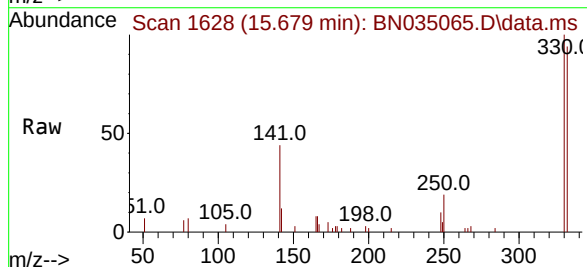
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

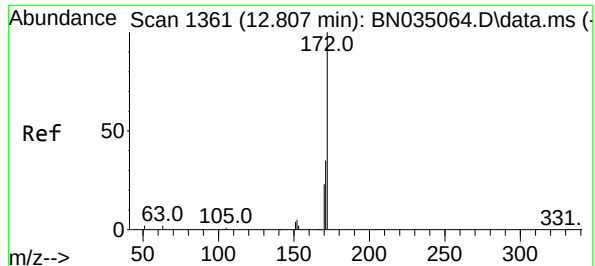
Tgt Ion:164 Resp: 6454
Ion Ratio Lower Upper
164 100
162 102.9 82.2 123.2
160 48.3 40.2 60.4



#14
2,4,6-Tribromophenol
Concen: 0.831 ng
RT: 15.679 min Scan# 1628
Delta R.T. -0.007 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Tgt Ion:330 Resp: 3866
Ion Ratio Lower Upper
330 100
332 95.2 76.9 115.3
141 36.9 29.6 44.4

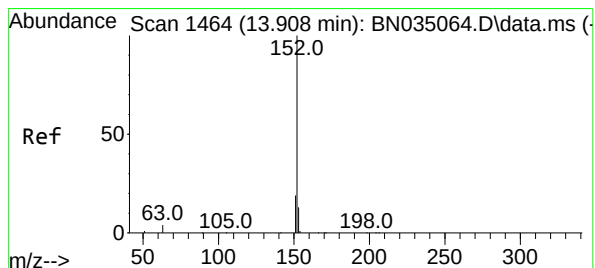
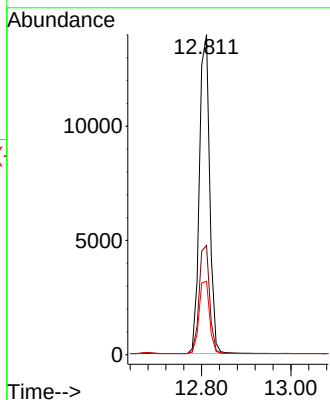
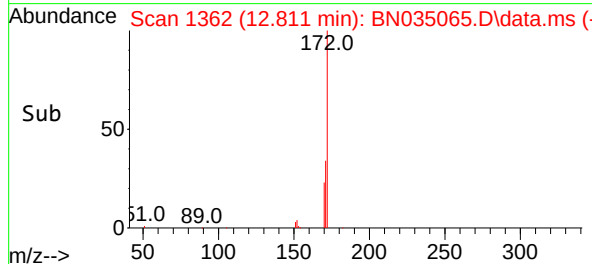
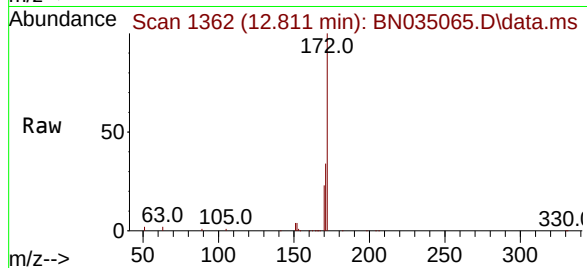




#15
2-Fluorobiphenyl
Concen: 0.855 ng
RT: 12.811 min Scan# 1362
Delta R.T. 0.004 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

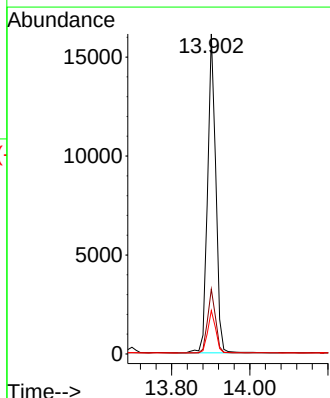
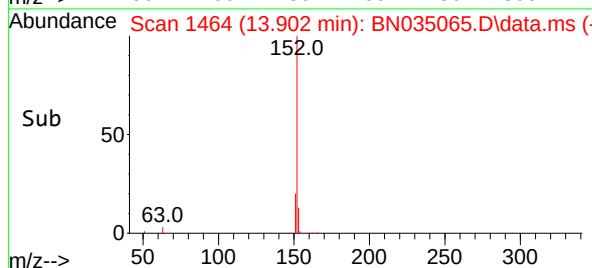
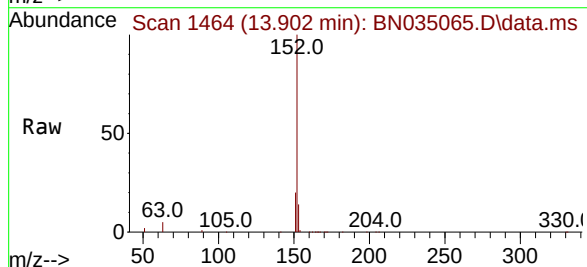
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

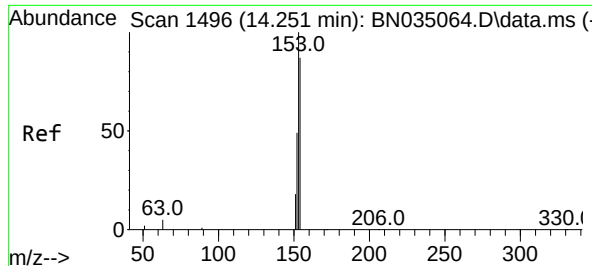
Tgt Ion:172 Resp: 22399
Ion Ratio Lower Upper
172 100
171 34.1 28.2 42.4
170 22.9 19.0 28.6



#16
Acenaphthylene
Concen: 0.853 ng
RT: 13.902 min Scan# 1464
Delta R.T. -0.007 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Tgt Ion:152 Resp: 23520
Ion Ratio Lower Upper
152 100
151 19.6 15.8 23.8
153 13.1 10.2 15.4

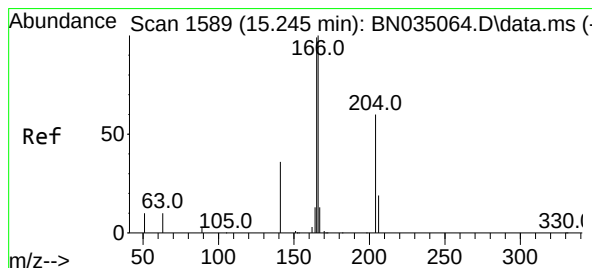
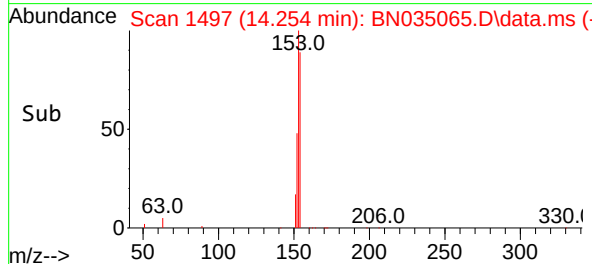
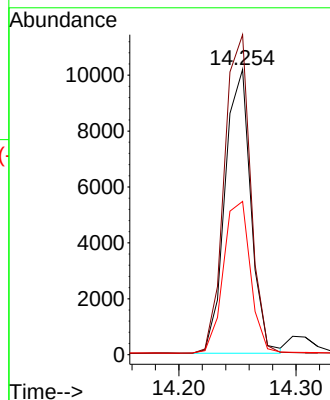
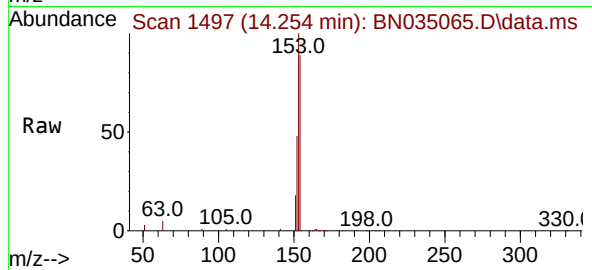




#17
Acenaphthene
Concen: 0.858 ng
RT: 14.254 min Scan# 1496
Delta R.T. 0.004 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

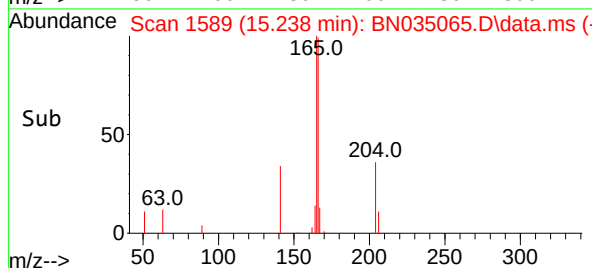
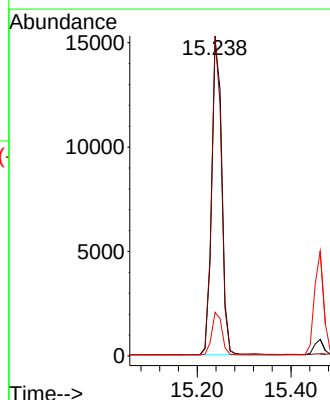
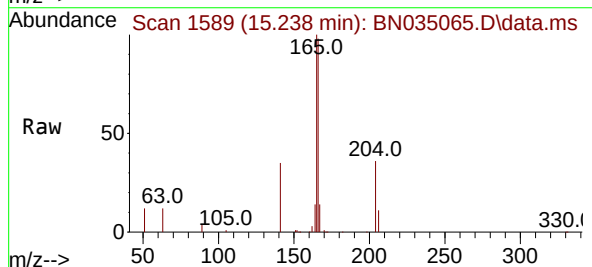
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

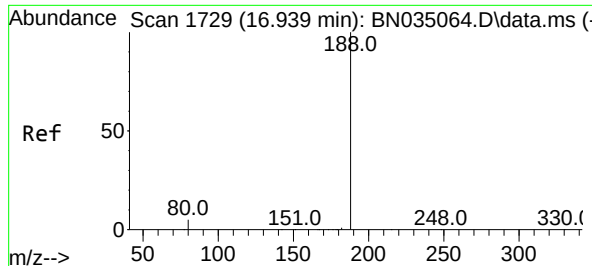
Tgt Ion:154 Resp: 15511
Ion Ratio Lower Upper
154 100
153 114.0 91.6 137.4
152 56.6 45.8 68.6



#18
Fluorene
Concen: 0.852 ng
RT: 15.238 min Scan# 1589
Delta R.T. -0.007 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Tgt Ion:166 Resp: 22649
Ion Ratio Lower Upper
166 100
165 98.3 79.1 118.7
167 13.6 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.933 min Scan# 1729

Delta R.T. -0.007 min

Lab File: BN035065.D

Acq: 13 Nov 2024 14:28

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

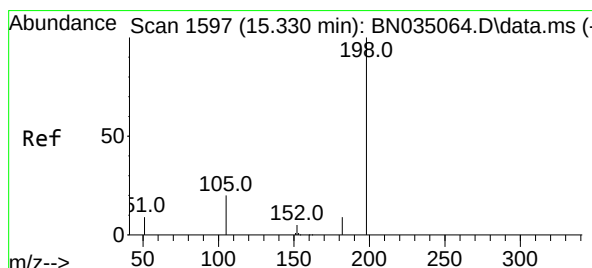
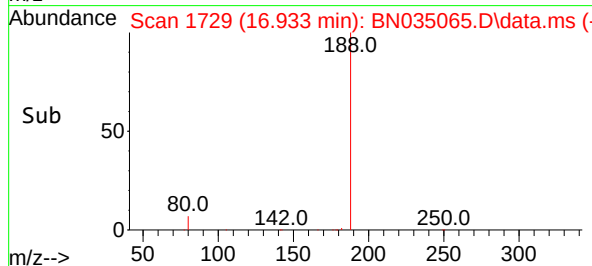
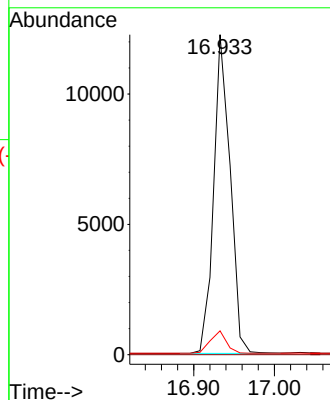
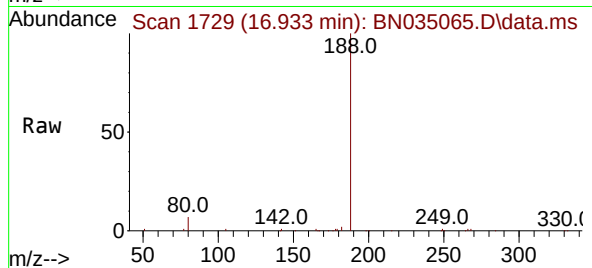
Tgt Ion:188 Resp: 17302

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 7.5 4.3 6.5#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.837 ng

RT: 15.323 min Scan# 1597

Delta R.T. -0.007 min

Lab File: BN035065.D

Acq: 13 Nov 2024 14:28

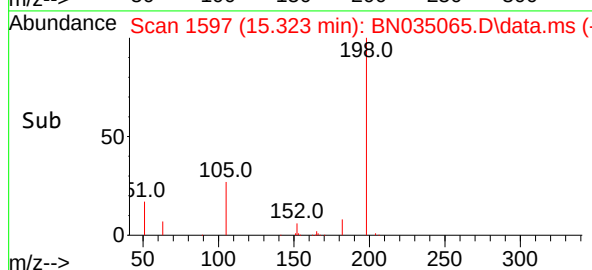
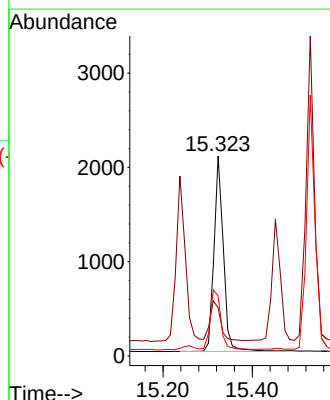
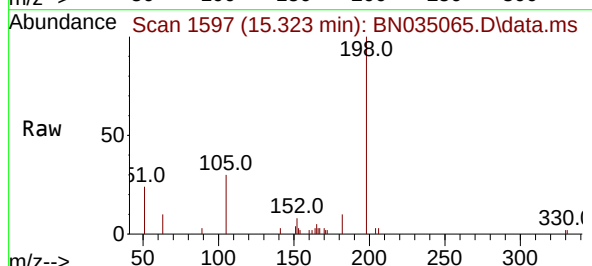
Tgt Ion:198 Resp: 3013

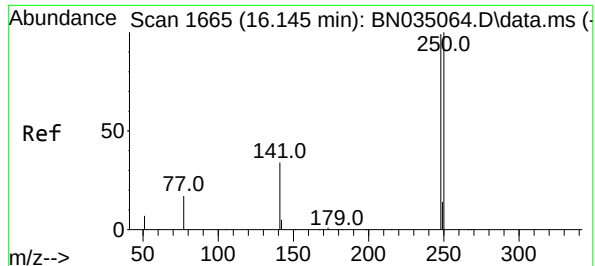
Ion Ratio Lower Upper

198 100

51 24.1 29.9 44.9#

105 30.0 23.7 35.5

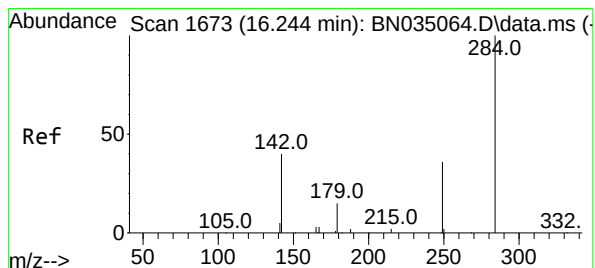
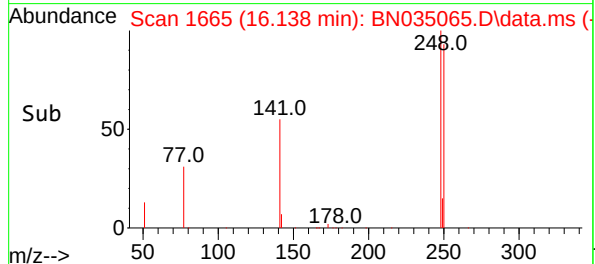
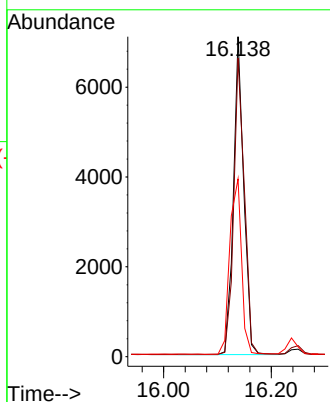
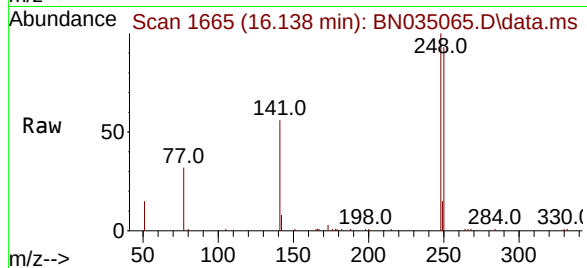




#21
4-Bromophenyl-phenylether
Concen: 0.853 ng
RT: 16.138 min Scan# 1665
Delta R.T. -0.007 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

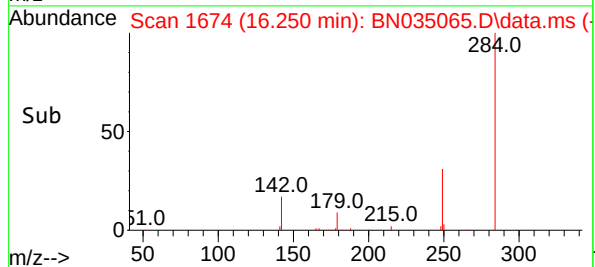
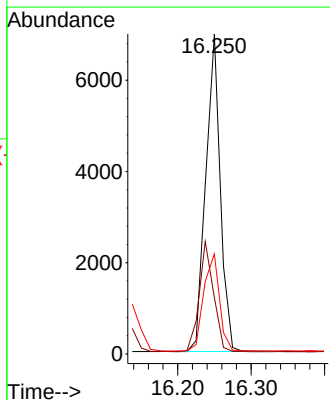
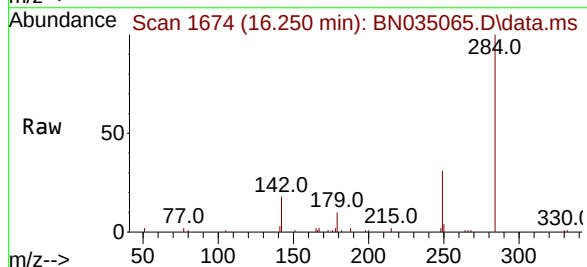
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

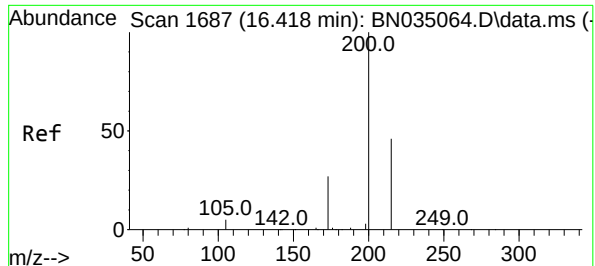
Tgt Ion	Ratio	Lower	Upper
248	100		
250	93.3	81.2	121.8
141	55.6	29.1	43.7



#22
Hexachlorobenzene
Concen: 0.837 ng
RT: 16.250 min Scan# 1674
Delta R.T. 0.006 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Tgt Ion	Ratio	Lower	Upper
284	100		
142	34.4	28.2	42.4
249	32.9	26.2	39.2

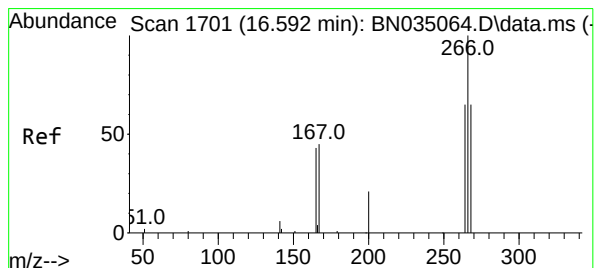
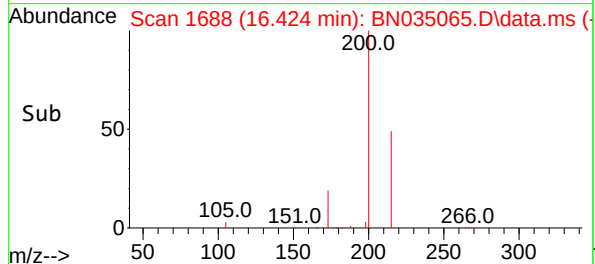
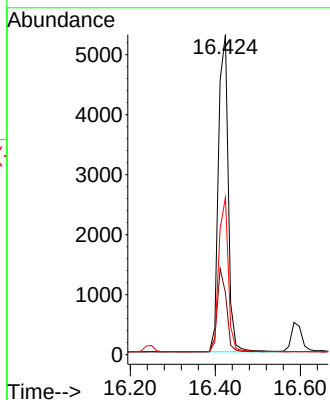
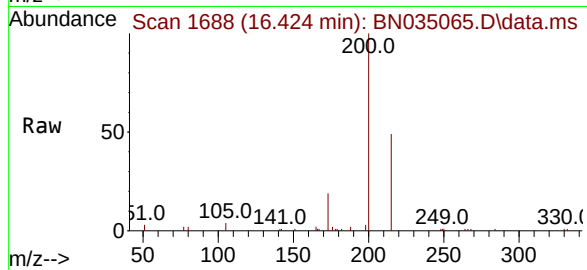




#23
Atrazine
Concen: 0.852 ng
RT: 16.424 min Scan# 1
Delta R.T. 0.006 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

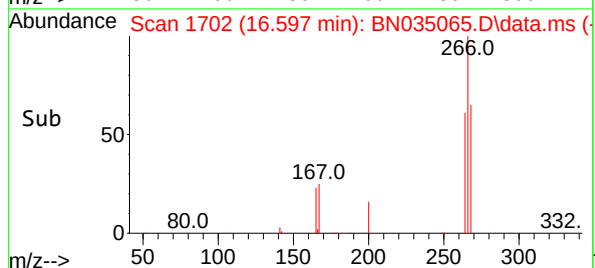
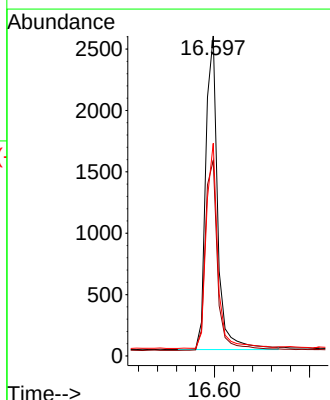
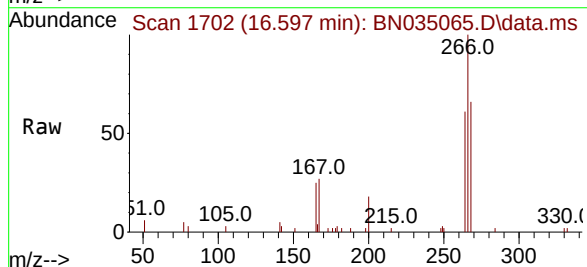
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

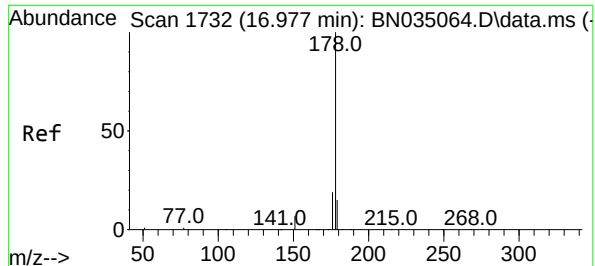
Tgt Ion:200 Resp: 8427
Ion Ratio Lower Upper
200 100
173 19.4 22.6 33.8#
215 49.1 37.8 56.6



#24
Pentachlorophenol
Concen: 0.841 ng
RT: 16.597 min Scan# 1702
Delta R.T. 0.006 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Tgt Ion:266 Resp: 4494
Ion Ratio Lower Upper
266 100
264 62.3 49.4 74.0
268 63.1 52.6 79.0

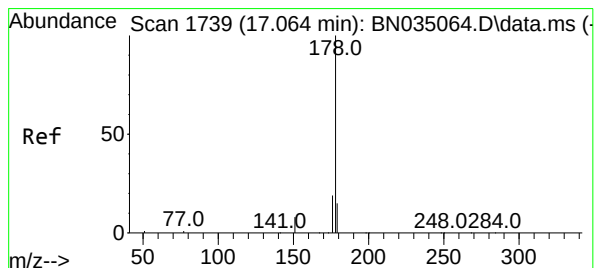
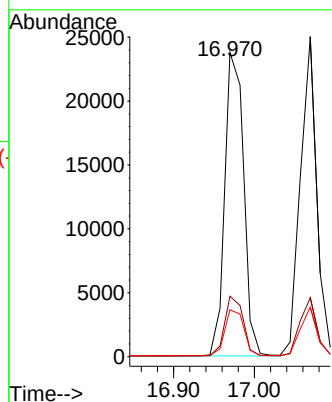
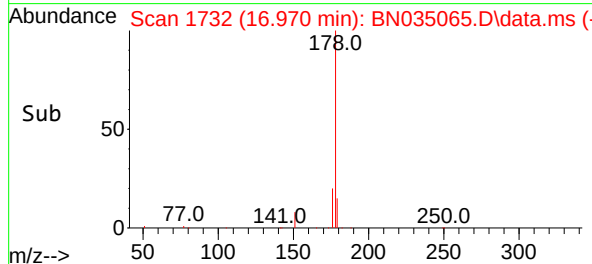
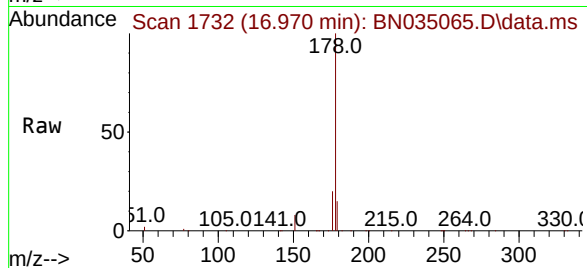




#25
Phenanthrene
Concen: 0.847 ng
RT: 16.970 min Scan# 1732
Delta R.T. -0.007 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

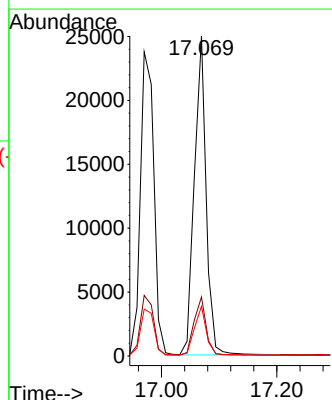
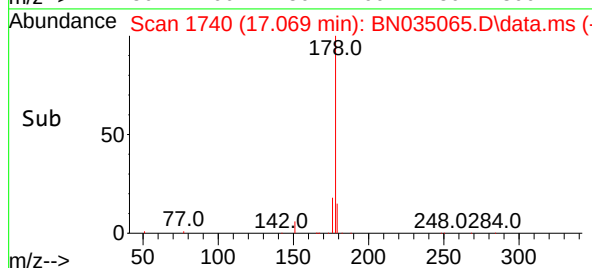
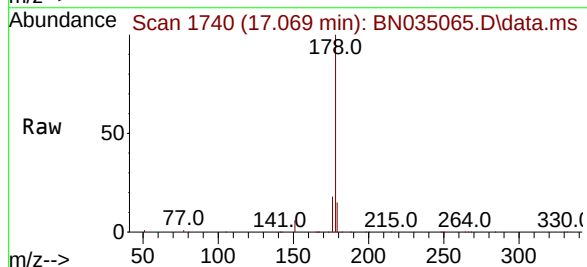
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

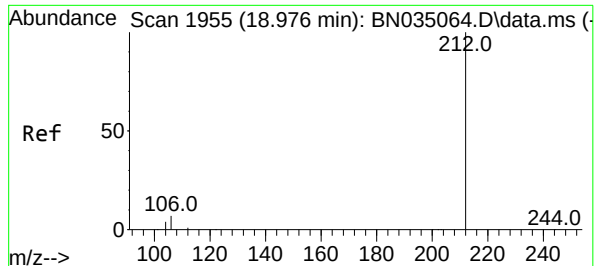
Tgt Ion:178 Resp: 38573
Ion Ratio Lower Upper
178 100
176 19.3 15.2 22.8
179 15.3 12.6 18.8



#26
Anthracene
Concen: 0.847 ng
RT: 17.069 min Scan# 1740
Delta R.T. 0.006 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Tgt Ion:178 Resp: 35437
Ion Ratio Lower Upper
178 100
176 18.6 14.6 22.0
179 15.2 12.2 18.2





#27

Fluoranthene-d10

Concen: 0.841 ng

RT: 18.973 min Scan# 1955

Delta R.T. -0.002 min

Lab File: BN035065.D

Acq: 13 Nov 2024 14:28

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

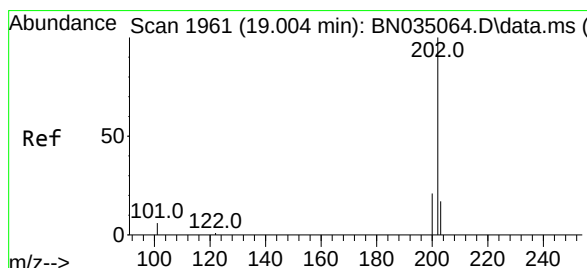
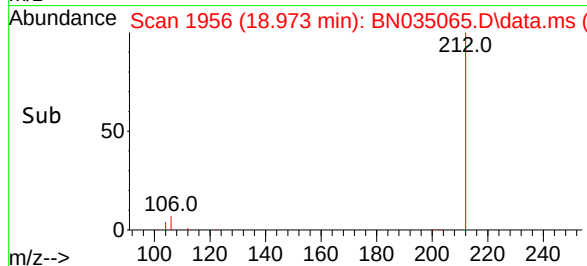
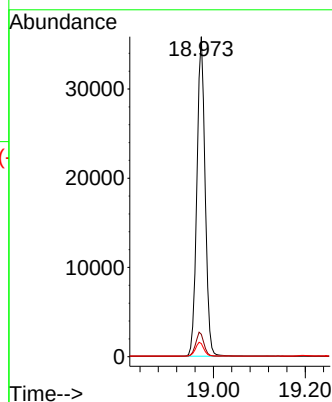
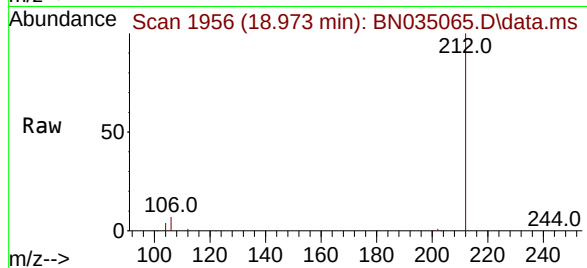
Tgt Ion:212 Resp: 44583

Ion Ratio Lower Upper

212 100

106 7.5 6.0 9.0

104 4.4 3.5 5.3



#28

Fluoranthene

Concen: 0.853 ng

RT: 19.006 min Scan# 1963

Delta R.T. 0.002 min

Lab File: BN035065.D

Acq: 13 Nov 2024 14:28

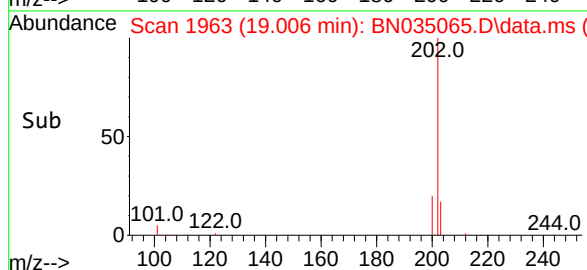
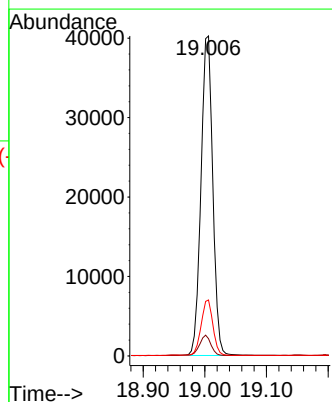
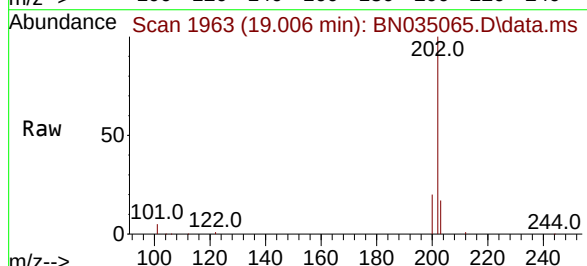
Tgt Ion:202 Resp: 53391

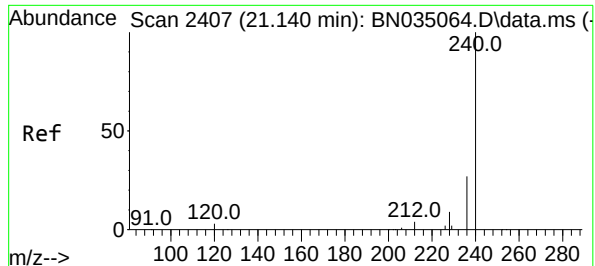
Ion Ratio Lower Upper

202 100

101 6.3 5.2 7.8

203 17.3 13.8 20.8

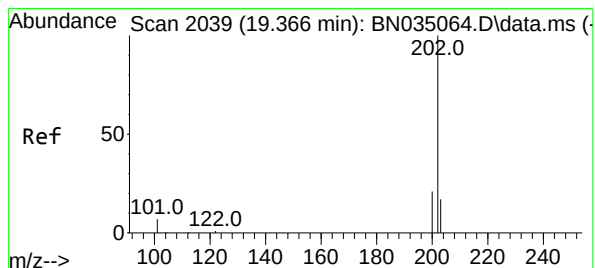
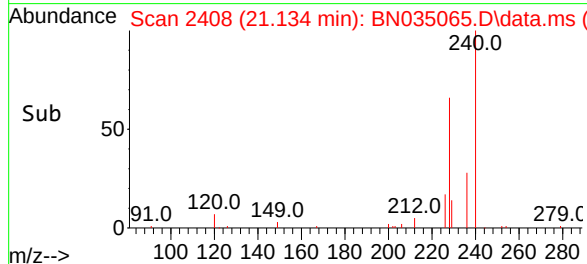
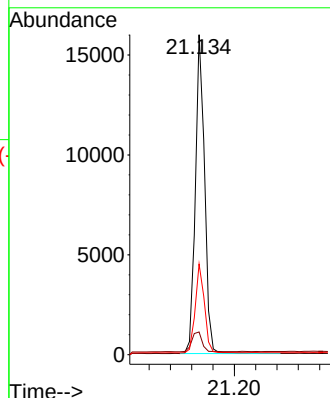
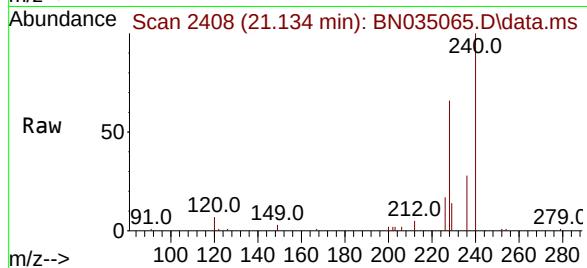




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.134 min Scan# 2408
Delta R.T. -0.007 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

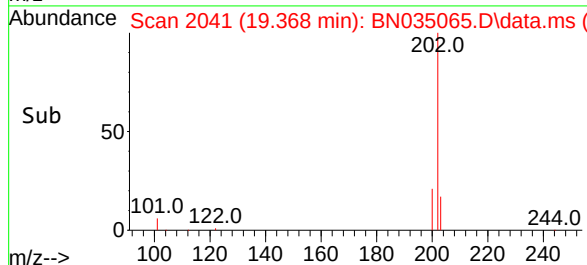
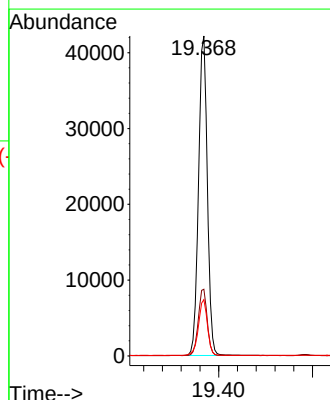
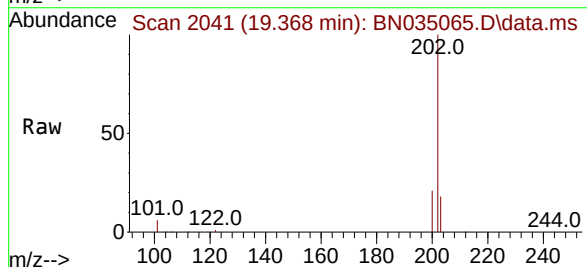
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

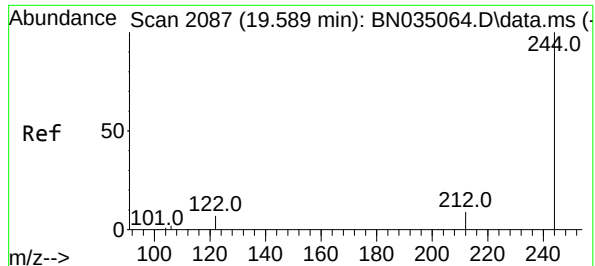
Tgt Ion:240 Resp: 19278
Ion Ratio Lower Upper
240 100
120 7.1 3.8 5.6#
236 28.4 22.2 33.2



#30
Pyrene
Concen: 0.855 ng
RT: 19.368 min Scan# 2041
Delta R.T. 0.002 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Tgt Ion:202 Resp: 54892
Ion Ratio Lower Upper
202 100
200 21.0 16.7 25.1
203 17.8 14.2 21.4





#31

Terphenyl-d14

Concen: 0.852 ng

RT: 19.582 min Scan# 2087

Delta R.T. -0.007 min

Lab File: BN035065.D

Acq: 13 Nov 2024 14:28

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

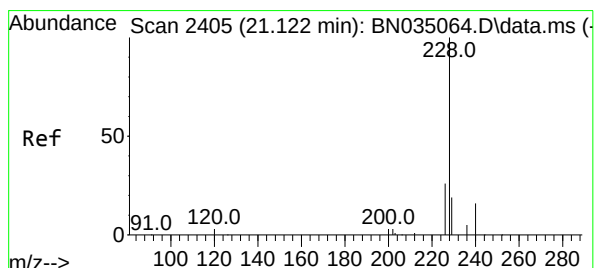
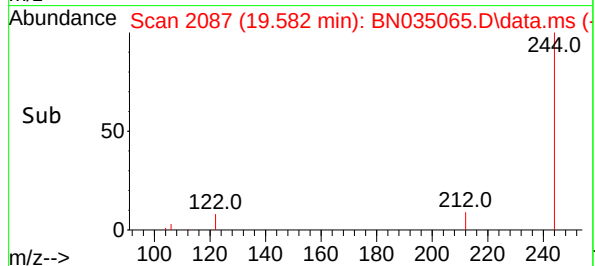
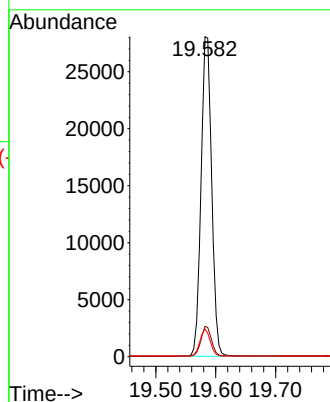
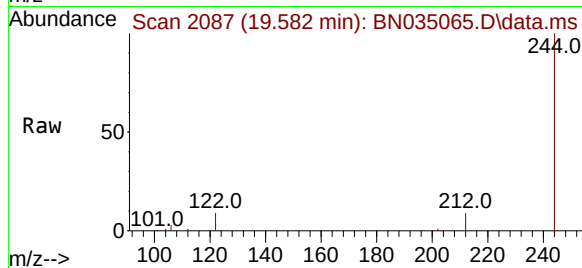
Tgt Ion:244 Resp: 34460

Ion Ratio Lower Upper

244 100

212 9.5 7.6 11.4

122 8.6 6.1 9.1



#32

Benzo(a)anthracene

Concen: 0.841 ng

RT: 21.116 min Scan# 2406

Delta R.T. -0.007 min

Lab File: BN035065.D

Acq: 13 Nov 2024 14:28

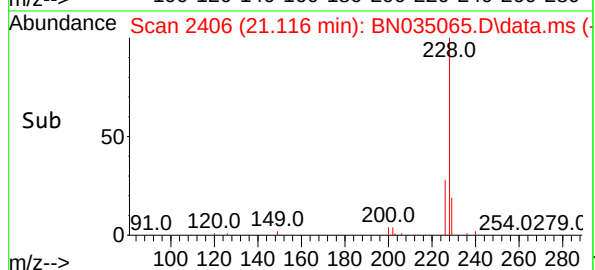
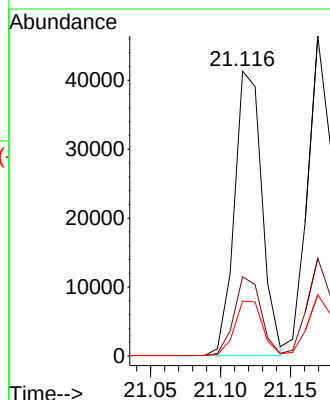
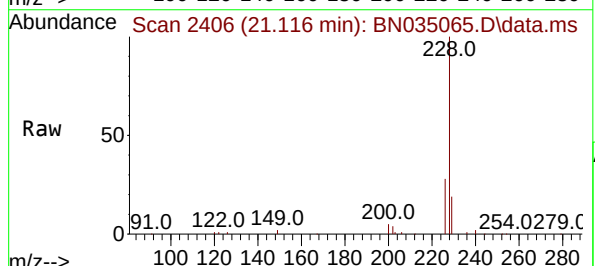
Tgt Ion:228 Resp: 56460

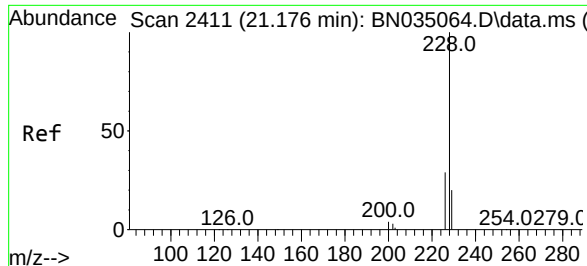
Ion Ratio Lower Upper

228 100

226 27.8 21.4 32.0

229 19.3 15.7 23.5





#33

Chrysene

Concen: 0.858 ng

RT: 21.169 min Scan# 2411

Delta R.T. -0.007 min

Lab File: BN035065.D

Acq: 13 Nov 2024 14:28

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

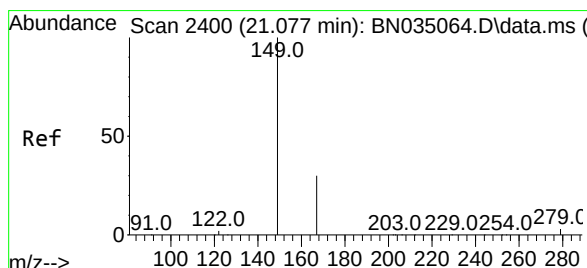
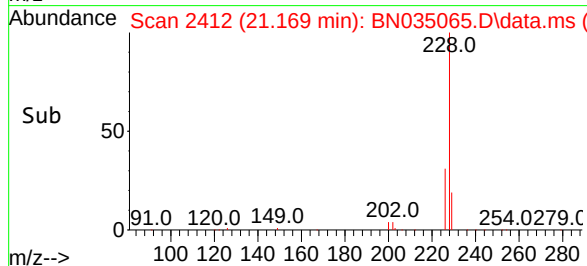
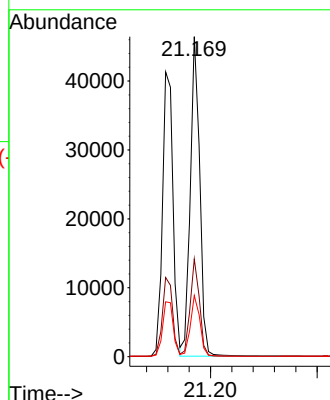
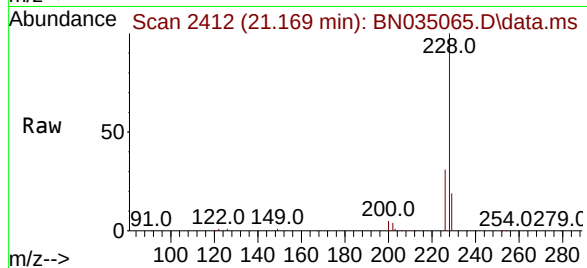
Tgt Ion:228 Resp: 57039

Ion Ratio Lower Upper

228 100

226 30.5 23.7 35.5

229 19.1 16.2 24.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.848 ng

RT: 21.080 min Scan# 2402

Delta R.T. 0.002 min

Lab File: BN035065.D

Acq: 13 Nov 2024 14:28

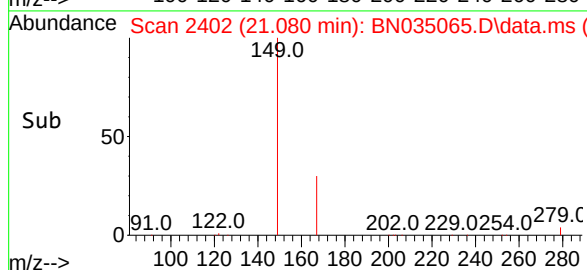
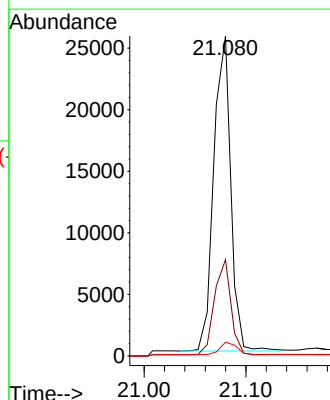
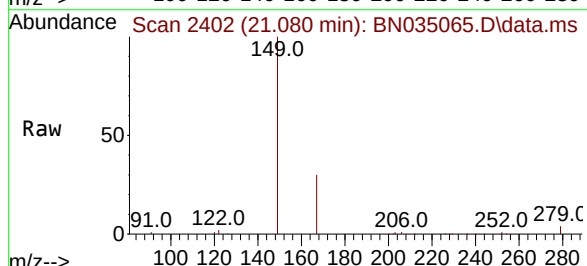
Tgt Ion:149 Resp: 29628

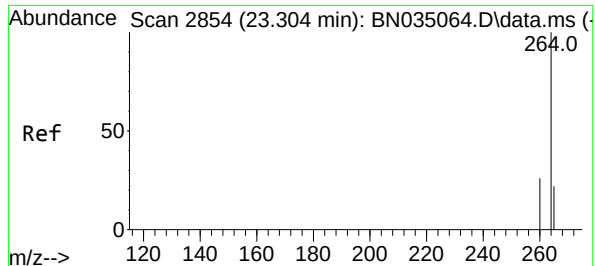
Ion Ratio Lower Upper

149 100

167 29.1 23.2 34.8

279 4.0 3.2 4.8





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.300 min Scan# 21

Delta R.T. -0.004 min

Lab File: BN035065.D

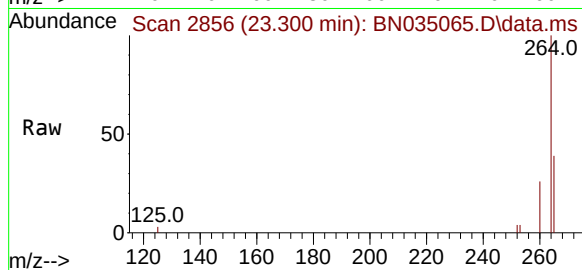
Acq: 13 Nov 2024 14:28

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



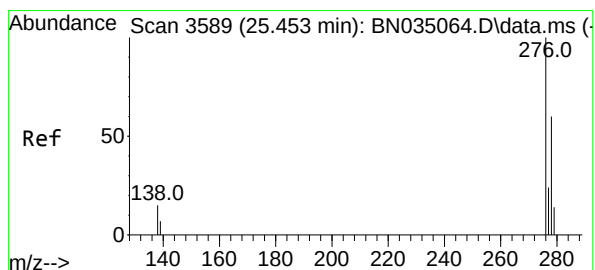
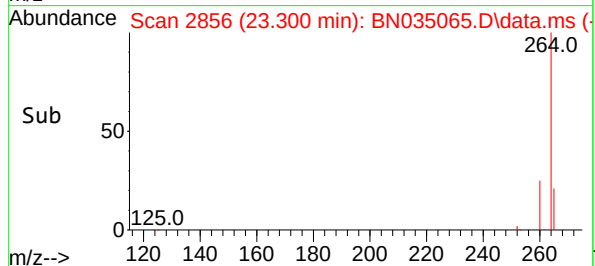
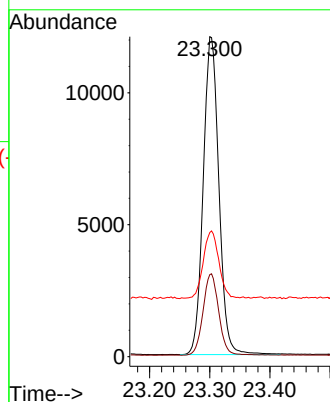
Tgt Ion:264 Resp: 21751

Ion Ratio Lower Upper

264 100

260 25.6 20.9 31.3

265 38.8 35.4 53.2



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.867 ng

RT: 25.452 min Scan# 3592

Delta R.T. -0.001 min

Lab File: BN035065.D

Acq: 13 Nov 2024 14:28

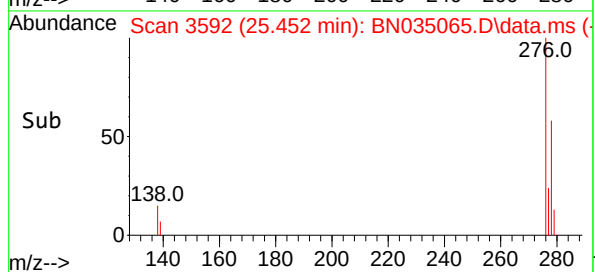
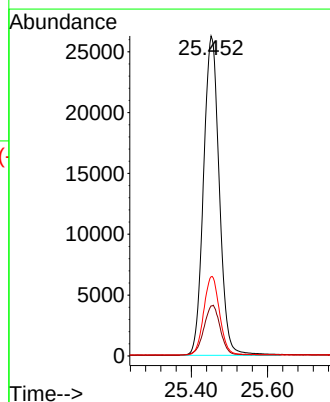
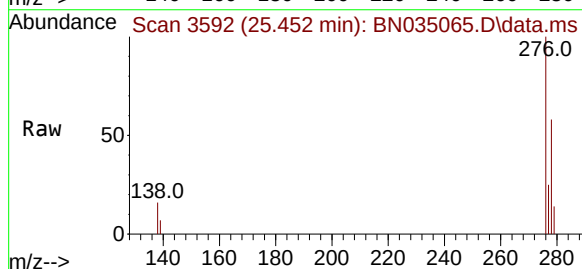
Tgt Ion:276 Resp: 75270

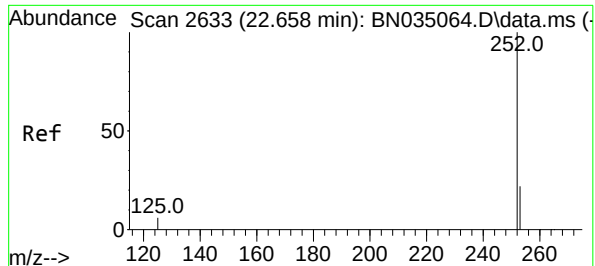
Ion Ratio Lower Upper

276 100

138 16.2 13.0 19.4

277 24.7 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.855 ng

RT: 22.657 min Scan# 2636

Delta R.T. -0.001 min

Lab File: BN035065.D

Acq: 13 Nov 2024 14:28

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

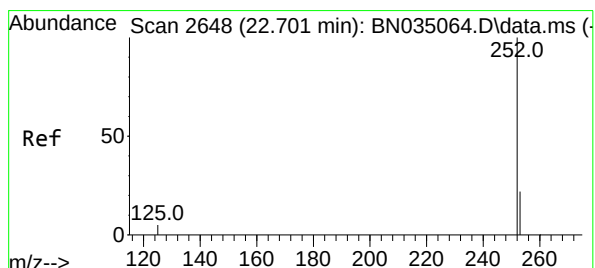
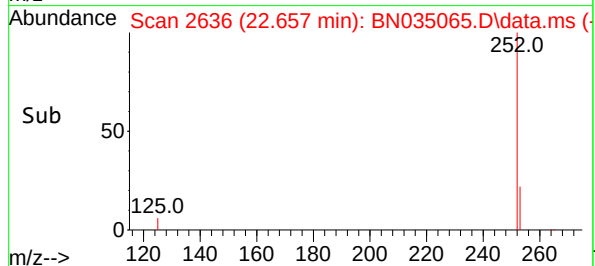
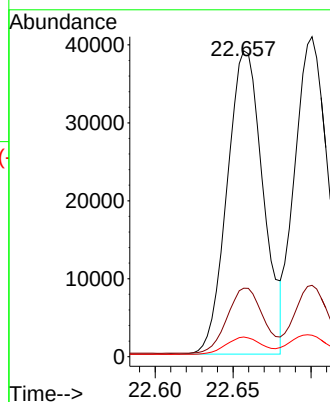
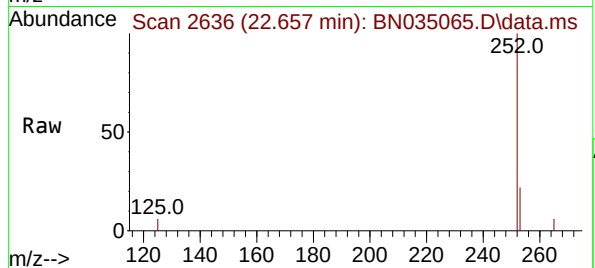
Tgt Ion:252 Resp: 62606

Ion Ratio Lower Upper

252 100

253 22.4 19.3 28.9

125 6.5 6.2 9.2



#38

Benzo(k)fluoranthene

Concen: 0.843 ng

RT: 22.701 min Scan# 2651

Delta R.T. -0.001 min

Lab File: BN035065.D

Acq: 13 Nov 2024 14:28

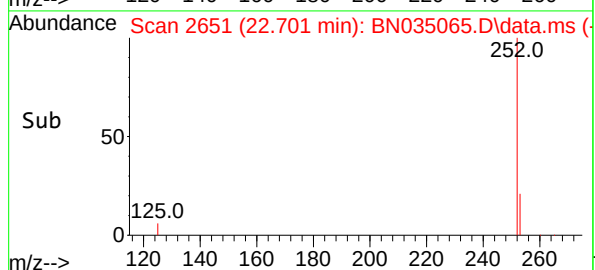
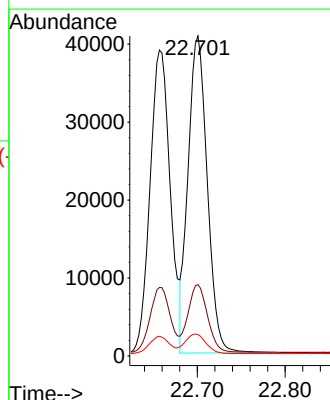
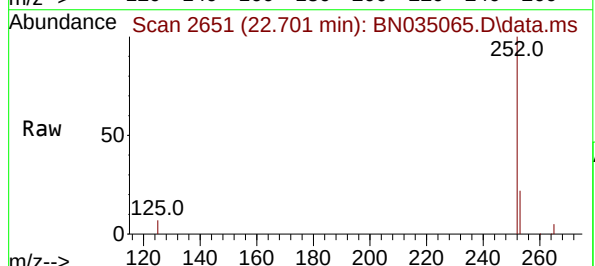
Tgt Ion:252 Resp: 61702

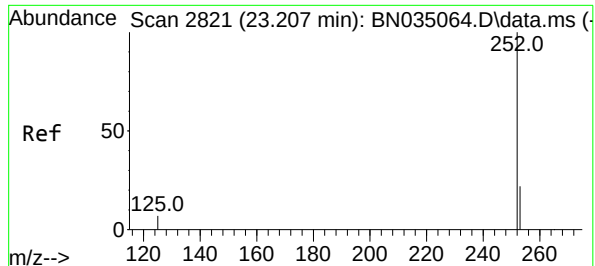
Ion Ratio Lower Upper

252 100

253 22.3 19.5 29.3

125 6.7 6.5 9.7





#39

Benzo(a)pyrene

Concen: 0.842 ng

RT: 23.206 min Scan# 21

Delta R.T. -0.001 min

Lab File: BN035065.D

Acq: 13 Nov 2024 14:28

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

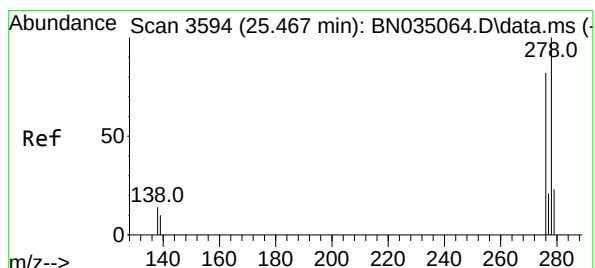
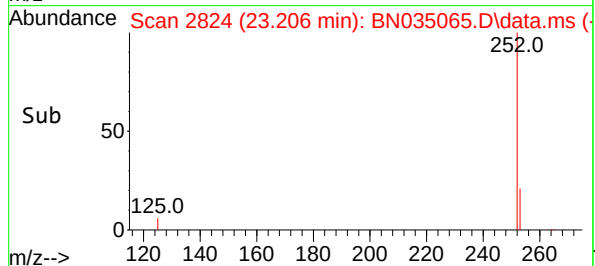
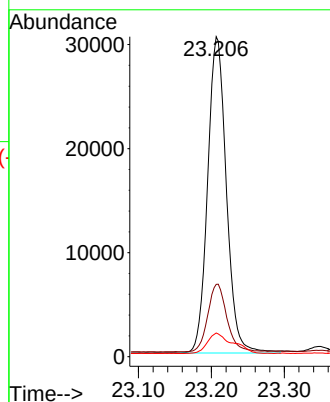
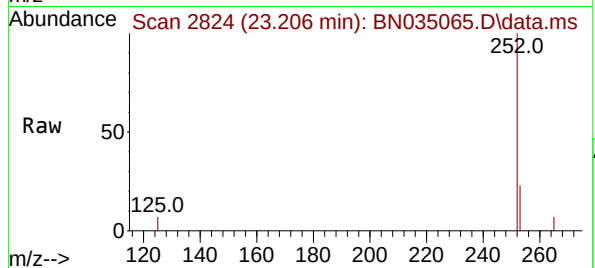
Tgt Ion:252 Resp: 54251

Ion Ratio Lower Upper

252 100

253 22.6 20.1 30.1

125 7.4 7.5 11.3#



#40

Dibenzo(a,h)anthracene

Concen: 0.870 ng

RT: 25.466 min Scan# 3597

Delta R.T. -0.001 min

Lab File: BN035065.D

Acq: 13 Nov 2024 14:28

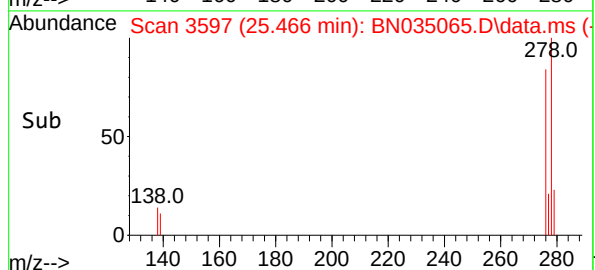
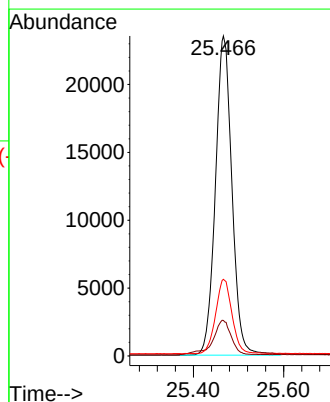
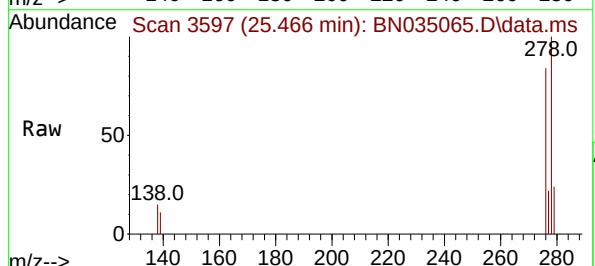
Tgt Ion:278 Resp: 59829

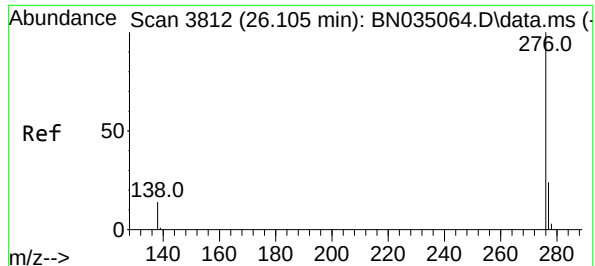
Ion Ratio Lower Upper

278 100

139 11.1 9.3 13.9

279 24.0 19.7 29.5





#41

Benzo(g,h,i)perylene

Concen: 0.864 ng

RT: 26.104 min Scan# 3812

Delta R.T. -0.001 min

Lab File: BN035065.D

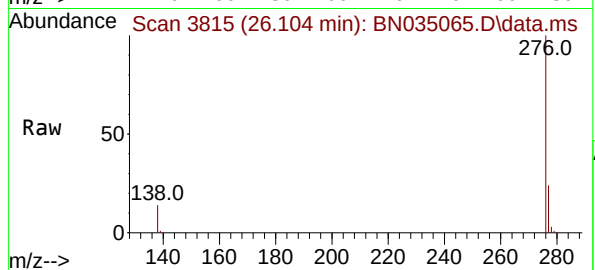
Acq: 13 Nov 2024 14:28

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



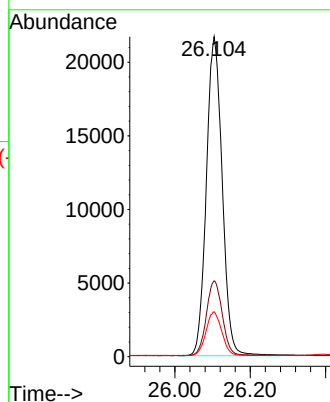
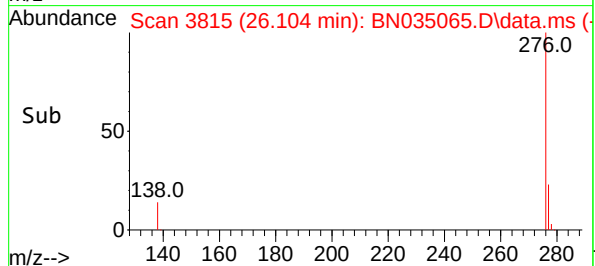
Tgt Ion:276 Resp: 63167

Ion Ratio Lower Upper

276 100

277 23.7 19.9 29.9

138 14.0 11.6 17.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
 Data File : BN035066.D
 Acq On : 13 Nov 2024 15:04
 Operator : RC/JU
 Sample : SSTDICC1.6
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC1.6

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/14/2024
 Supervised By :mohammad ahmed 11/14/2024

Quant Time: Nov 13 16:44:39 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 16:42:01 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.553	152	2280	0.400	ng	0.00
7) Naphthalene-d8	10.319	136	5826	0.400	ng	0.00
13) Acenaphthene-d10	14.190	164	4517	0.400	ng	0.00
19) Phenanthrene-d10	16.932	188	12068	0.400	ng	# 0.00
29) Chrysene-d12	21.133	240	13823	0.400	ng	# 0.00
35) Perylene-d12	23.303	264	15060	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	9427	1.629	ng	0.00
5) Phenol-d6	6.737	99	12023	1.657	ng	0.00
8) Nitrobenzene-d5	8.696	82	8306	1.643	ng	0.00
11) 2-Methylnaphthalene-d10	11.912	152	17545	1.690	ng	0.00
14) 2,4,6-Tribromophenol	15.691	330	5402	1.659	ng	0.00
15) 2-Fluorobiphenyl	12.811	172	30472	1.661	ng	0.00
27) Fluoranthene-d10	18.973	212	61972	1.676	ng	0.00
31) Terphenyl-d14	19.587	244	47914	1.652	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.169	88	3351	1.618	ng	98
3) n-Nitrosodimethylamine	3.465	42	3168	1.647	ng	# 97
6) bis(2-Chloroethyl)ether	6.990	93	9071	1.665	ng	99
9) Naphthalene	10.362	128	25283	1.662	ng	98
10) Hexachlorobutadiene	10.660	225	7338	1.646	ng	# 99
12) 2-Methylnaphthalene	11.988	142	18997	1.693	ng	99
16) Acenaphthylene	13.901	152	32064	1.661	ng	99
17) Acenaphthene	14.254	154	20910	1.653	ng	99
18) Fluorene	15.238	166	30868	1.659	ng	99
20) 4,6-Dinitro-2-methylph...	15.323	198	4259	1.695	ng	# 84
21) 4-Bromophenyl-phenylether	16.138	248	12888	1.676	ng	# 86
22) Hexachlorobenzene	16.250	284	13172	1.651	ng	99
23) Atrazine	16.424	200	11471	1.663	ng	# 93
24) Pentachlorophenol	16.597	266	6275	1.683	ng	98
25) Phenanthrene	16.982	178	52915	1.666	ng	99
26) Anthracene	17.069	178	49046	1.681	ng	100
28) Fluoranthene	19.006	202	73694	1.687	ng	100
30) Pyrene	19.368	202	75558	1.641	ng	100
32) Benzo(a)anthracene	21.125	228	78298	1.627	ng	100
33) Chrysene	21.169	228	78533	1.647	ng	98
34) Bis(2-ethylhexyl)phtha...	21.080	149	38807	1.549	ng	99
36) Indeno(1,2,3-cd)pyrene	25.452	276	99936	1.663	ng	100
37) Benzo(b)fluoranthene	22.660	252	85426m	1.686	ng	
38) Benzo(k)fluoranthene	22.701	252	84960	1.676	ng	# 95
39) Benzo(a)pyrene	23.209	252	74668	1.675	ng	# 94
40) Dibenzo(a,h)anthracene	25.469	278	79628	1.673	ng	98
41) Benzo(g,h,i)perylene	26.107	276	83498	1.649	ng	98

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

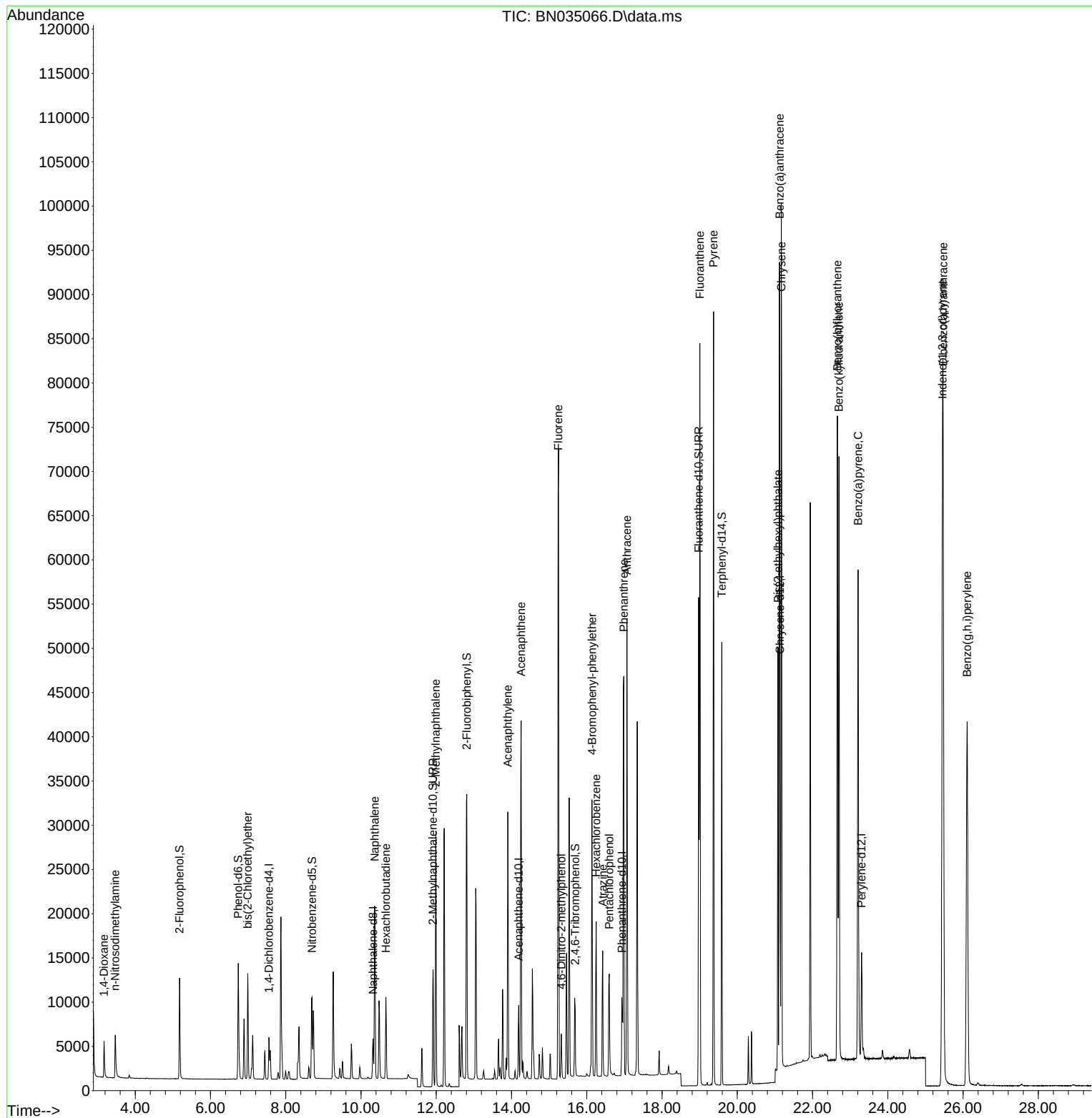
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
 Data File : BN035066.D
 Acq On : 13 Nov 2024 15:04
 Operator : RC/JU
 Sample : SSTDICC1.6
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

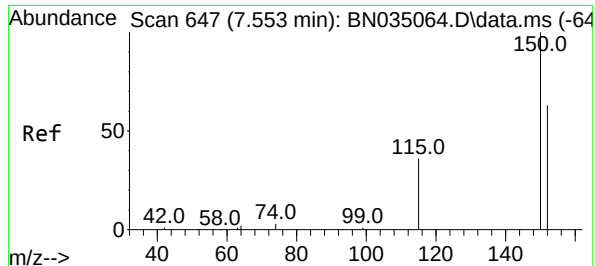
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC1.6

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/14/2024
 Supervised By :mohammad ahmed 11/14/2024

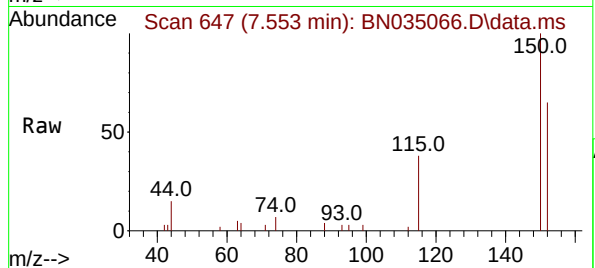
Quant Time: Nov 13 16:44:39 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 16:42:01 2024
 Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.553 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

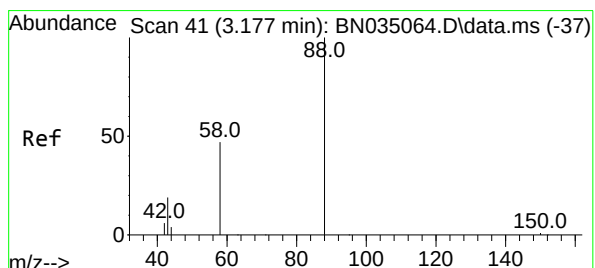
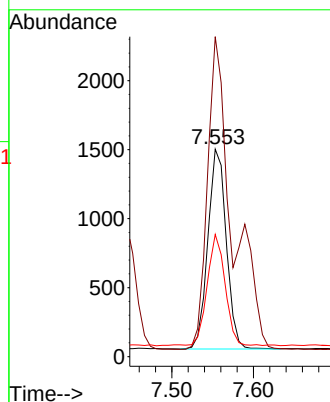
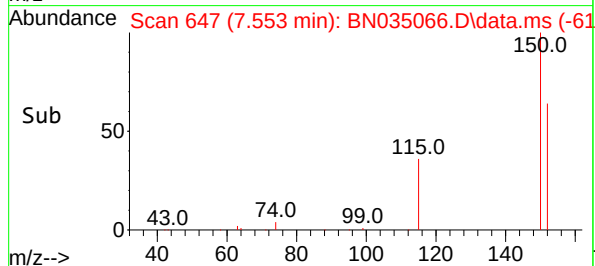
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6



Tgt Ion:152 Resp: 2280
Ion Ratio Lower Upper
152 100
150 154.2 124.5 186.7
115 58.9 47.8 71.6

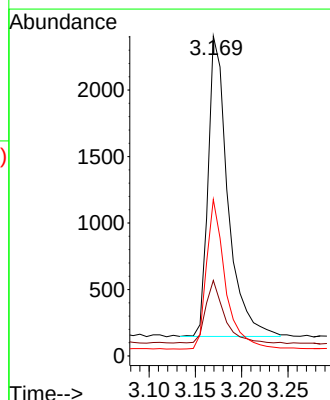
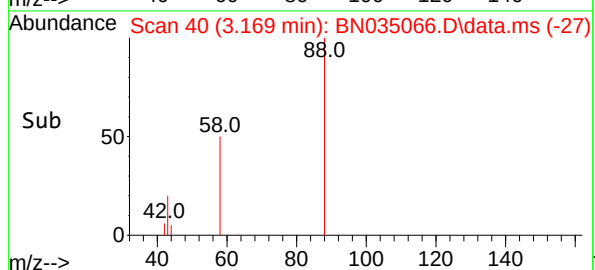
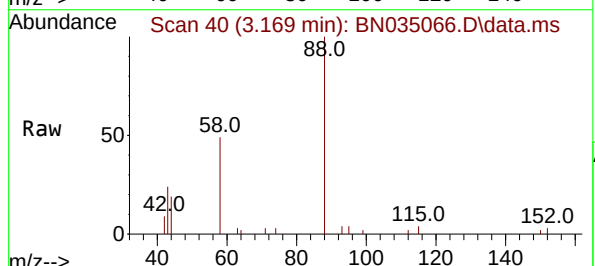
Manual Integrations
APPROVED

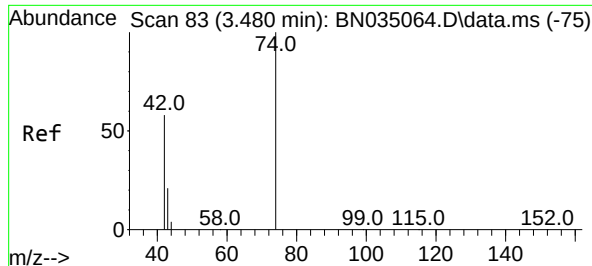
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#2
1,4-Dioxane
Concen: 1.618 ng
RT: 3.169 min Scan# 40
Delta R.T. -0.007 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

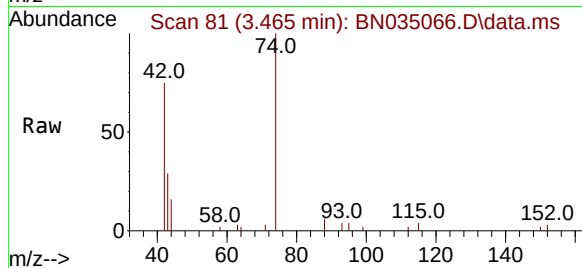
Tgt Ion: 88 Resp: 3351
Ion Ratio Lower Upper
88 100
43 20.3 16.9 25.3
58 47.7 39.0 58.4





#3
n-Nitrosodimethylamine
Concen: 1.647 ng
RT: 3.465 min Scan# 81
Delta R.T. -0.015 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

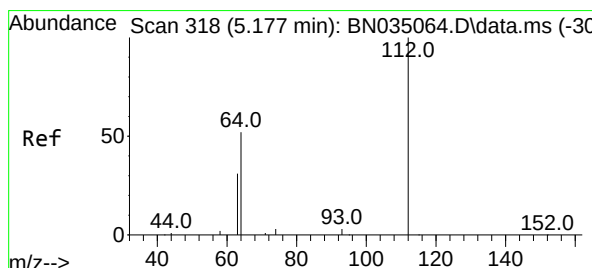
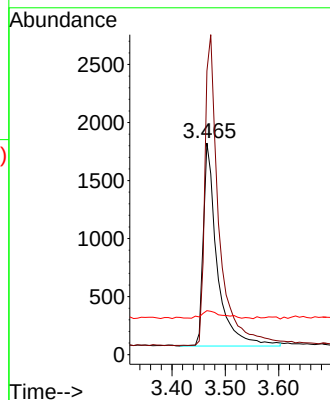
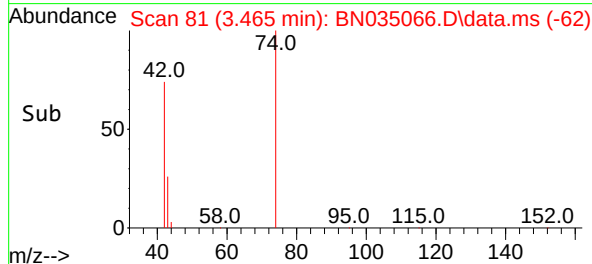
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6



Tgt Ion: 42 Resp: 3168
Ion Ratio Lower Upper
42 100
74 155.0 120.8 181.2
44 6.3 2.9 4.3

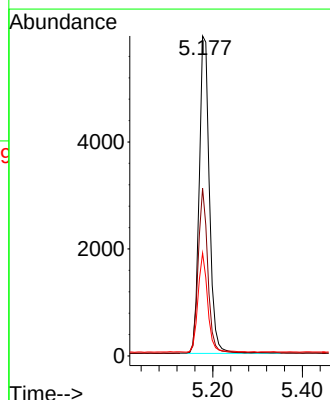
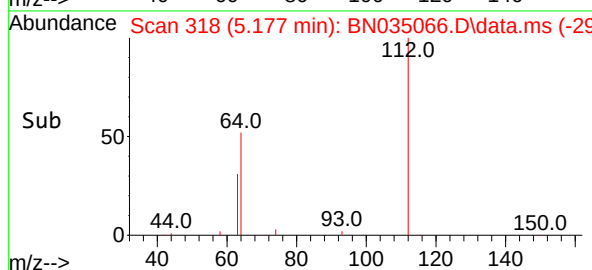
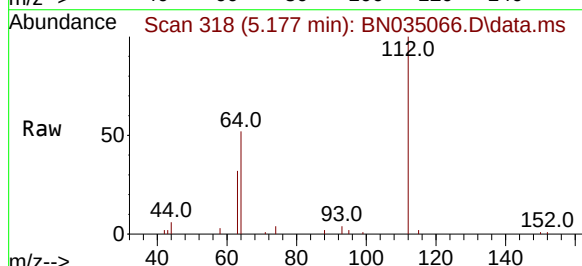
Manual Integrations
APPROVED

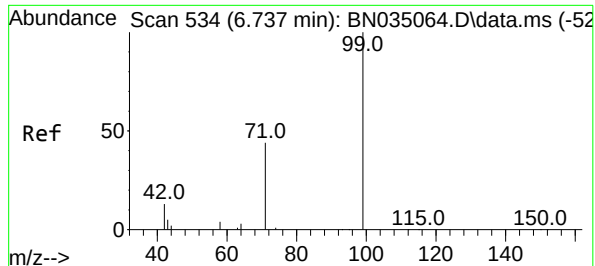
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#4
2-Fluorophenol
Concen: 1.629 ng
RT: 5.177 min Scan# 318
Delta R.T. -0.000 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:112 Resp: 9427
Ion Ratio Lower Upper
112 100
64 48.8 39.7 59.5
63 29.4 23.0 34.4





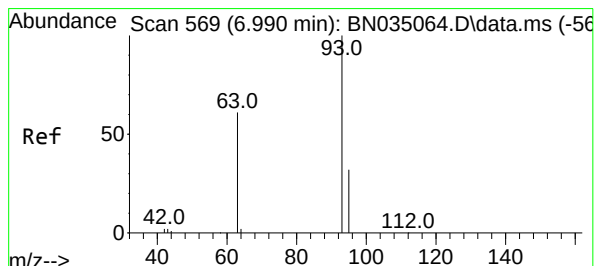
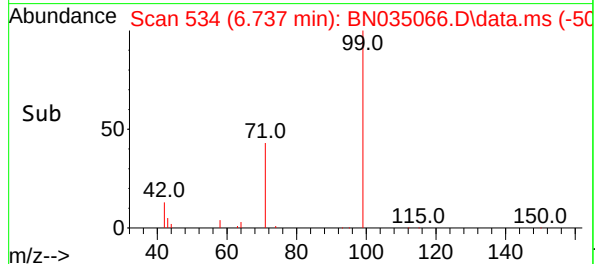
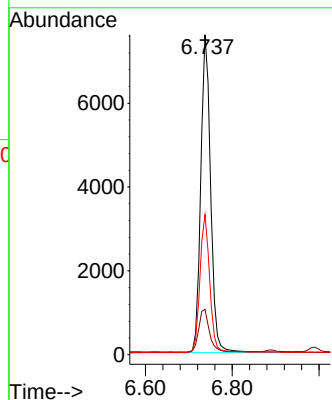
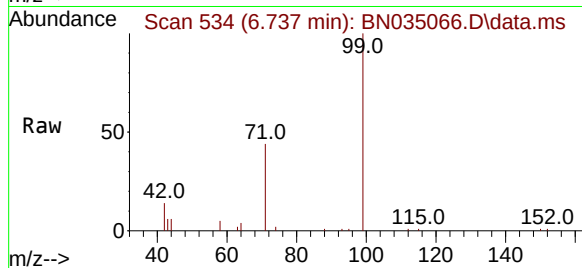
#5
Phenol-d6
Concen: 1.657 ng
RT: 6.737 min Scan# 511
Delta R.T. -0.000 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion: 99 Resp: 1202
Ion Ratio Lower Upper
99 100
42 14.5 11.4 17.0
71 42.9 34.6 51.8

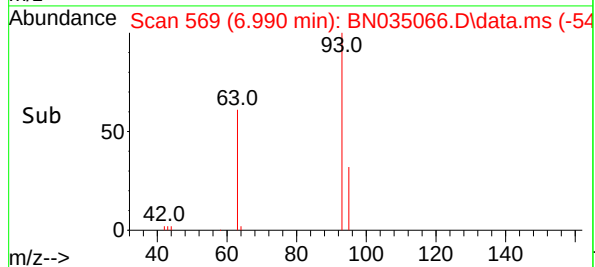
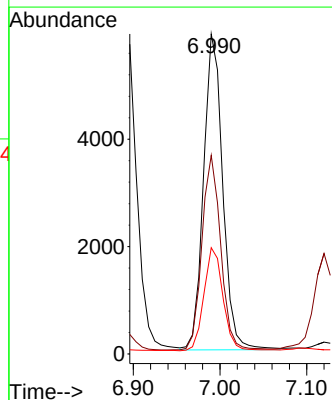
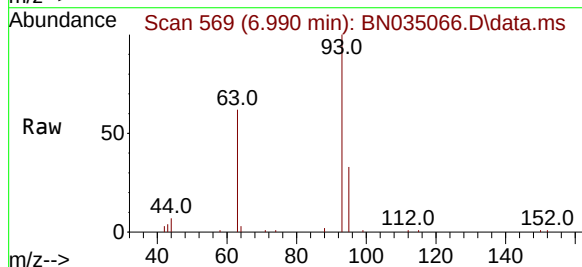
Manual Integrations
APPROVED

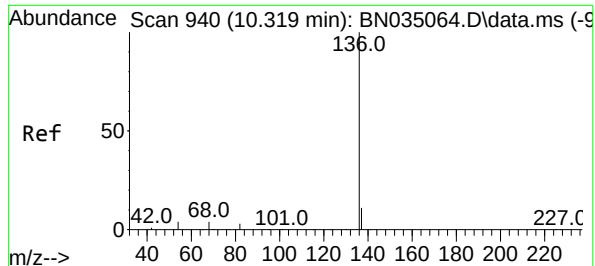
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#6
bis(2-Chloroethyl)ether
Concen: 1.665 ng
RT: 6.990 min Scan# 569
Delta R.T. -0.000 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion: 93 Resp: 9071
Ion Ratio Lower Upper
93 100
63 60.3 47.4 71.2
95 32.3 26.2 39.4





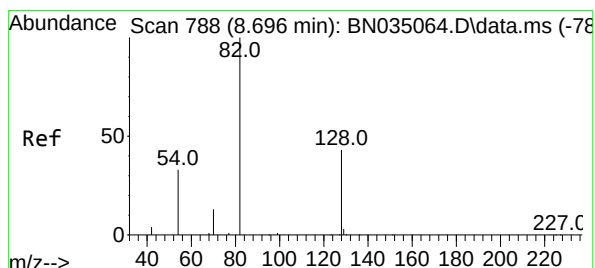
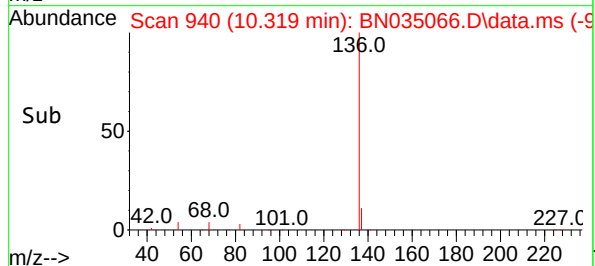
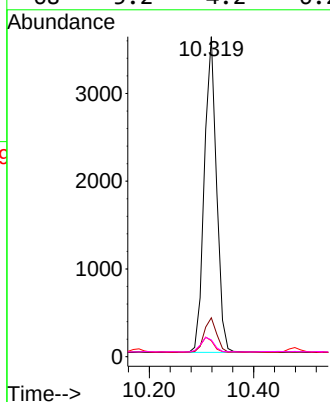
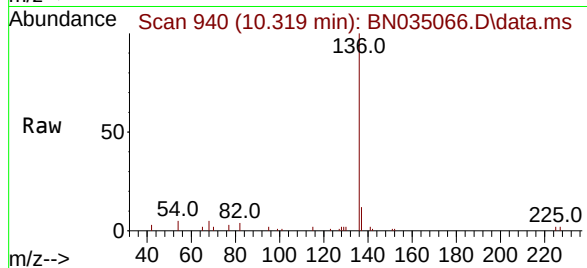
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.319 min Scan# 940
Delta R.T. -0.000 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:	136	Resp:	5820
Ion	Ratio	Lower	Upper
136	100		
137	12.2	9.8	14.8
54	5.0	4.0	6.0
68	5.2	4.2	6.2

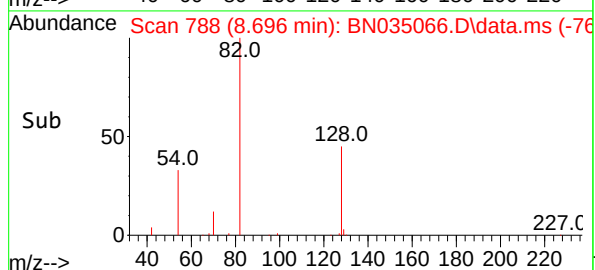
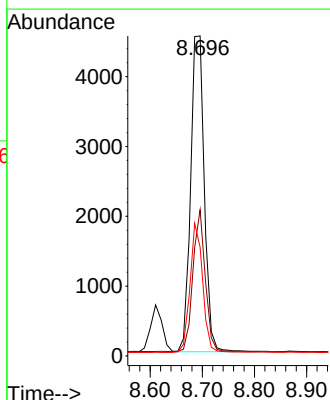
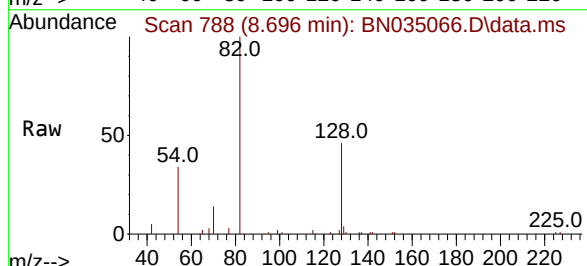
Manual Integrations
APPROVED

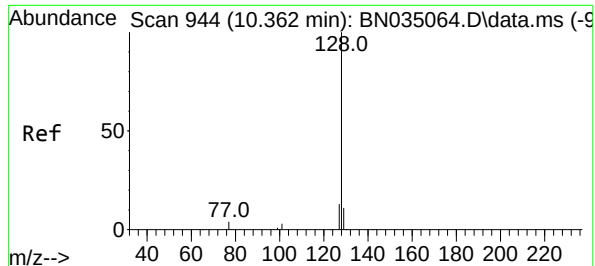
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#8
Nitrobenzene-d5
Concen: 1.643 ng
RT: 8.696 min Scan# 788
Delta R.T. -0.000 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:	82	Resp:	8306
Ion	Ratio	Lower	Upper
82	100		
128	45.7	36.5	54.7
54	34.0	28.7	43.1





#9

Naphthalene

Concen: 1.662 ng

RT: 10.362 min Scan# 944

Delta R.T. -0.000 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

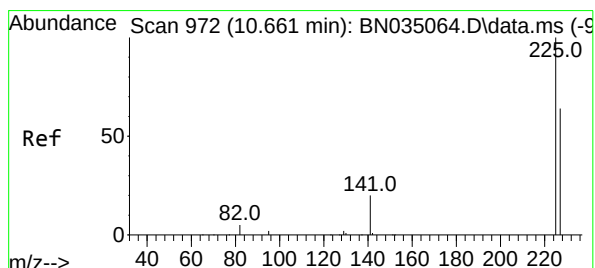
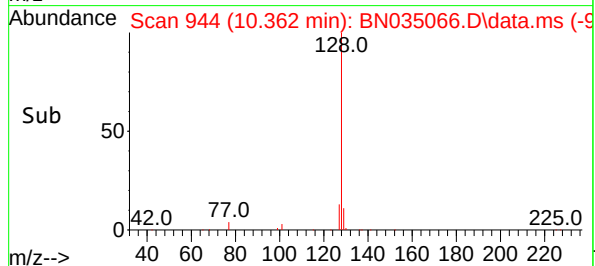
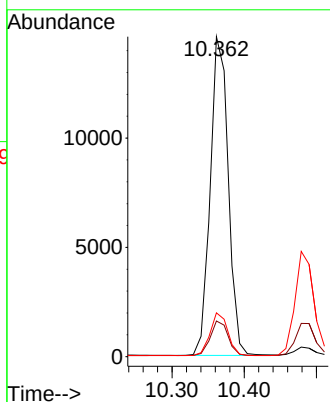
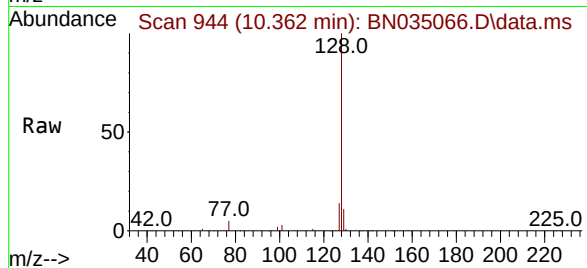
Tgt Ion:	128	Resp:	2528
Ion Ratio	Lower	Upper	
128	100		
129	11.2	9.6	14.4
127	13.7	11.6	17.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/14/2024

Supervised By :mohammad ahmed 11/14/2024



#10

Hexachlorobutadiene

Concen: 1.646 ng

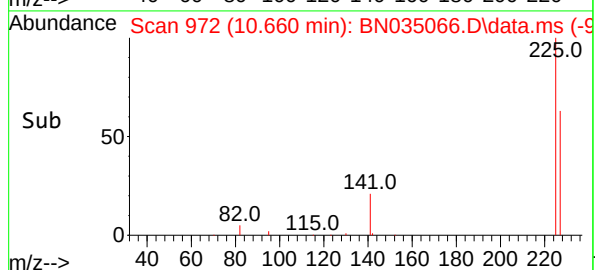
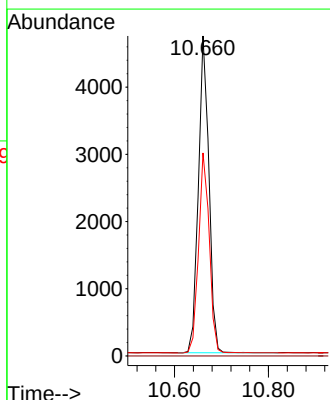
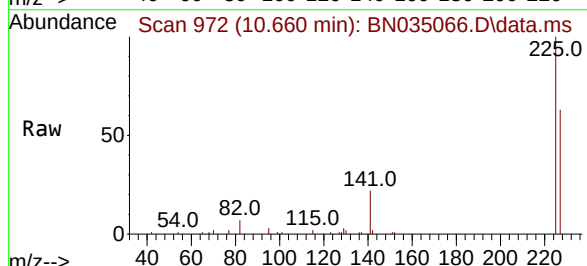
RT: 10.660 min Scan# 972

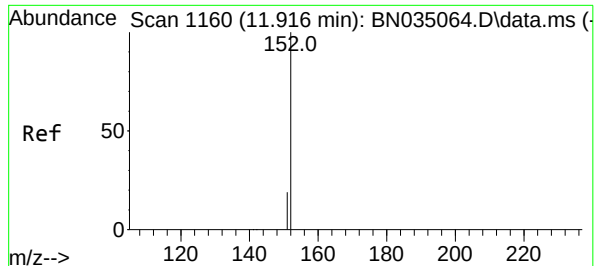
Delta R.T. -0.000 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

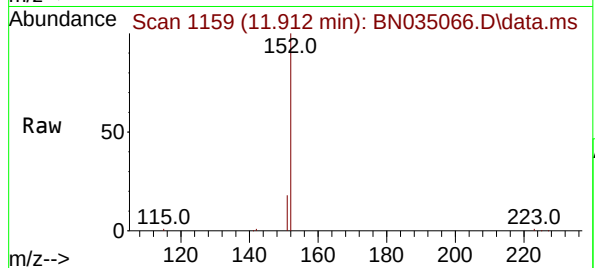
Tgt Ion:	225	Resp:	7338
Ion Ratio	Lower	Upper	
225	100		
223	0.0	0.0	0.0
227	64.0	51.5	77.3





#11
2-Methylnaphthalene-d10
Concen: 1.690 ng
RT: 11.912 min Scan# 1159
Delta R.T. -0.004 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

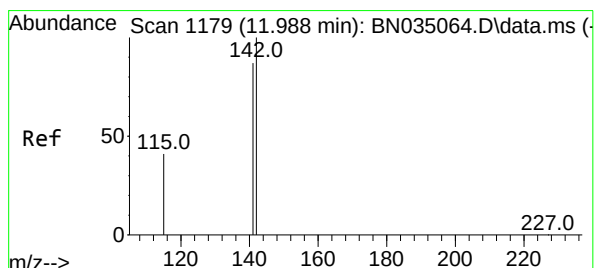
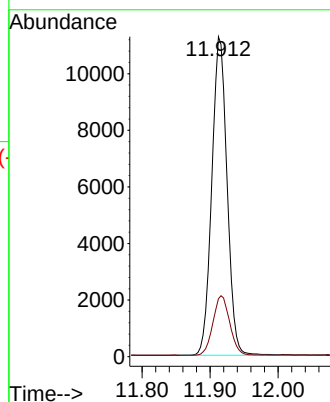
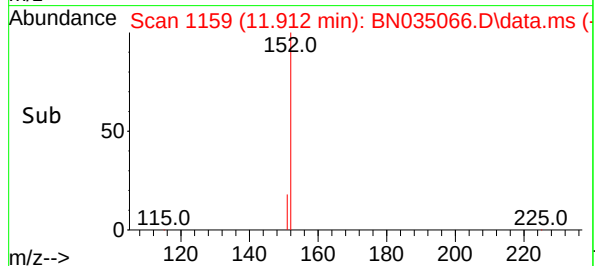
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6



Tgt Ion:152 Resp: 17549
Ion Ratio Lower Upper
152 100
151 20.6 16.2 24.4

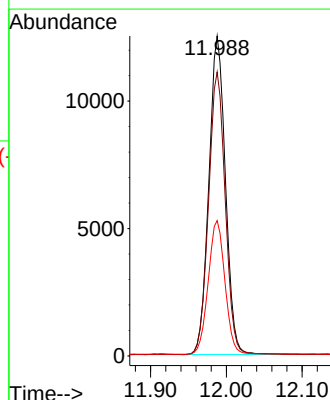
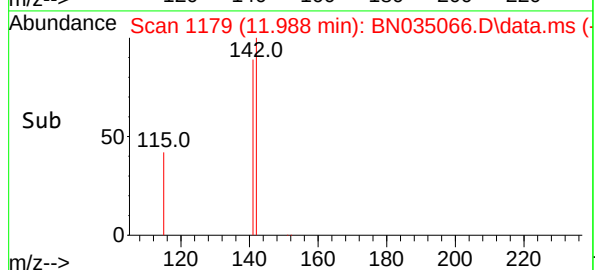
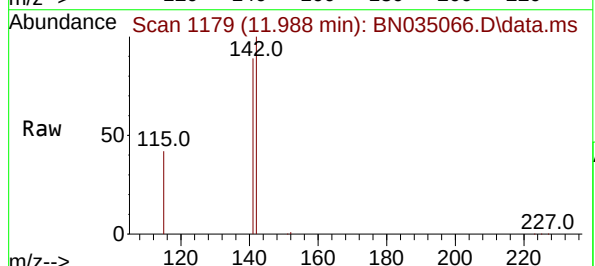
Manual Integrations
APPROVED

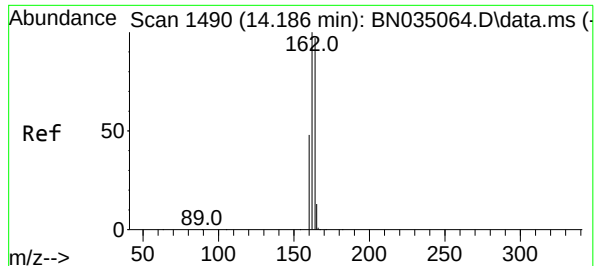
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#12
2-Methylnaphthalene
Concen: 1.693 ng
RT: 11.988 min Scan# 1179
Delta R.T. -0.000 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

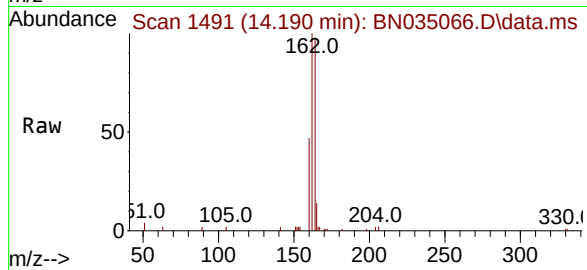
Tgt Ion:142 Resp: 18997
Ion Ratio Lower Upper
142 100
141 88.8 70.1 105.1
115 42.3 34.4 51.6





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.190 min Scan# 1491
Delta R.T. 0.004 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

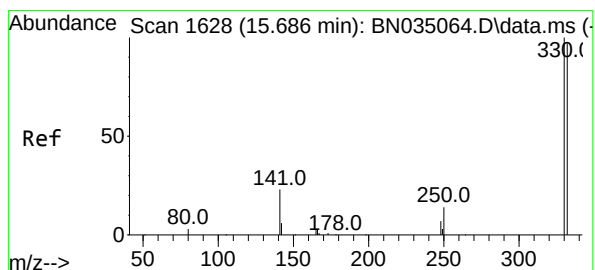
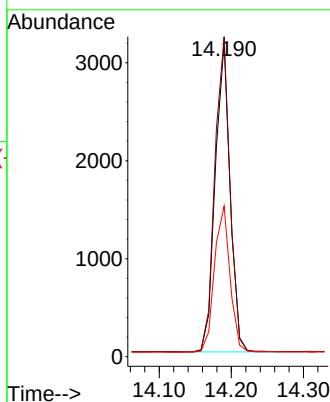
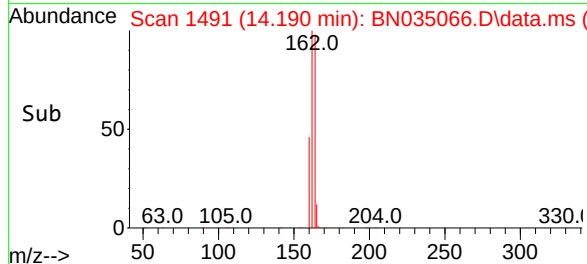
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6



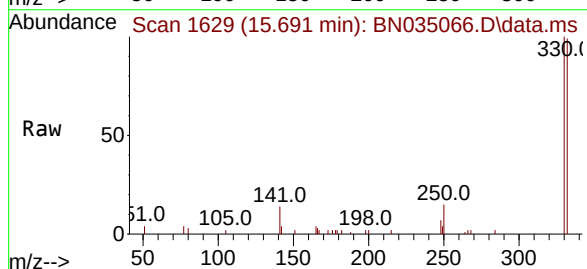
Tgt Ion:164 Resp: 451
Ion Ratio Lower Upper
164 100
162 101.8 82.2 123.2
160 47.9 40.2 60.4

Manual Integrations
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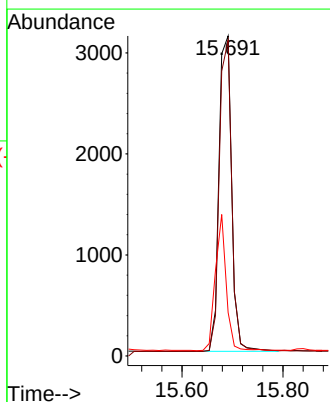
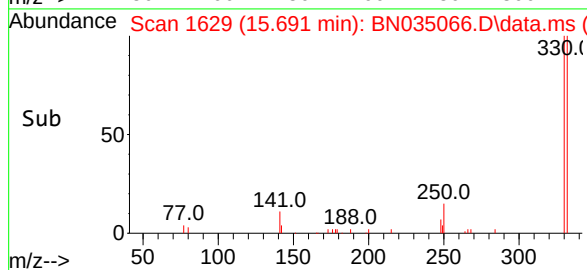
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

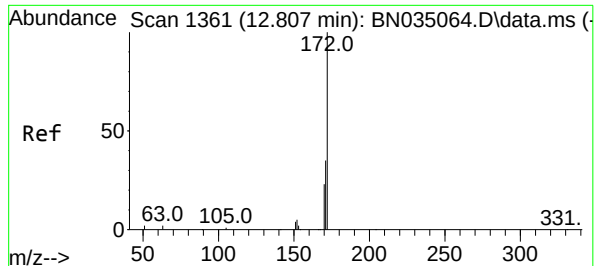


#14
2,4,6-Tribromophenol
Concen: 1.659 ng
RT: 15.691 min Scan# 1629
Delta R.T. 0.005 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04



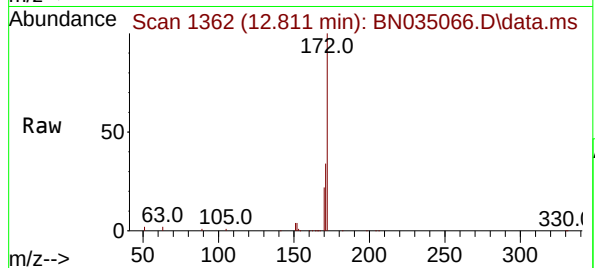
Tgt Ion:330 Resp: 5402
Ion Ratio Lower Upper
330 100
332 96.8 76.9 115.3
141 37.2 29.6 44.4





#15
2-Fluorobiphenyl
Concen: 1.661 ng
RT: 12.811 min Scan# 1361
Delta R.T. 0.004 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

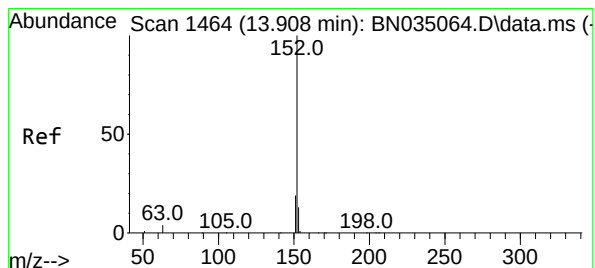
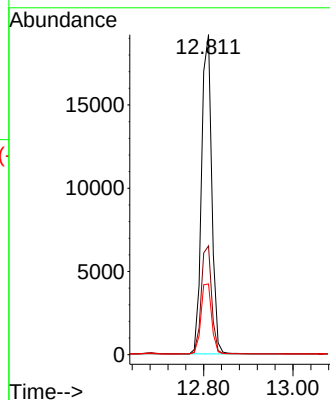
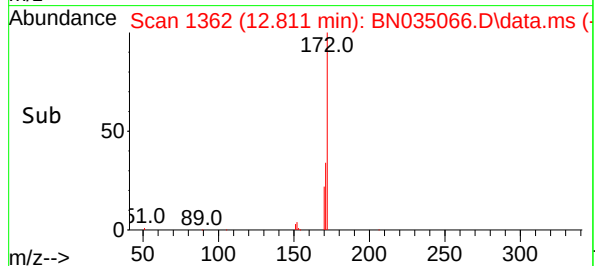
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6



Tgt Ion:172 Resp: 30472
Ion Ratio Lower Upper
172 100
171 34.0 28.2 42.4
170 22.1 19.0 28.6

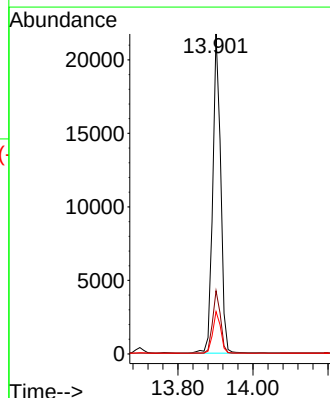
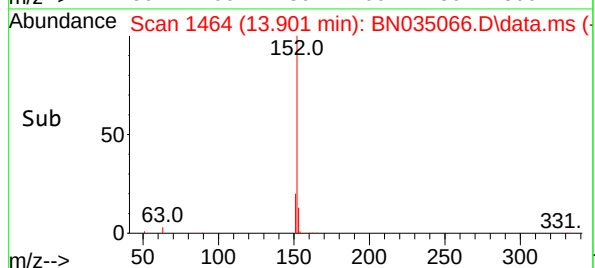
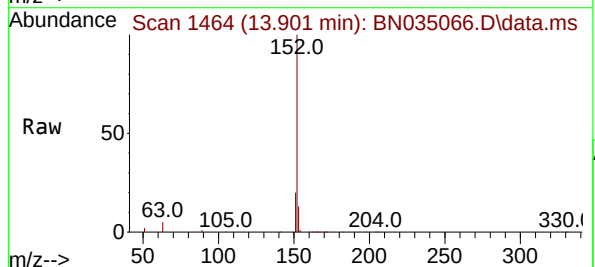
Manual Integrations
APPROVED

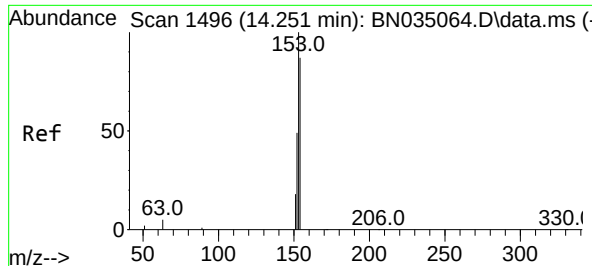
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#16
Acenaphthylene
Concen: 1.661 ng
RT: 13.901 min Scan# 1464
Delta R.T. -0.007 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

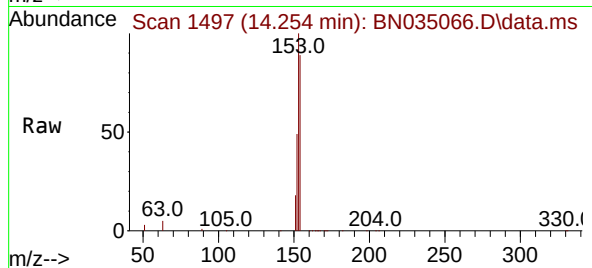
Tgt Ion:152 Resp: 32064
Ion Ratio Lower Upper
152 100
151 19.5 15.8 23.8
153 13.1 10.2 15.4





#17
Acenaphthene
Concen: 1.653 ng
RT: 14.254 min Scan# 1496
Delta R.T. 0.004 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

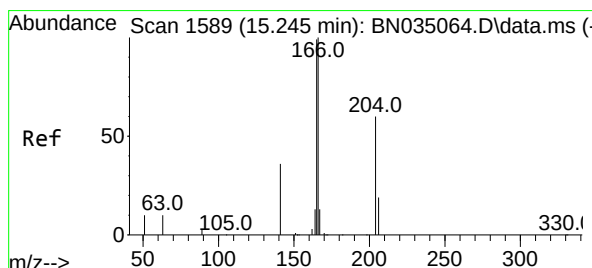
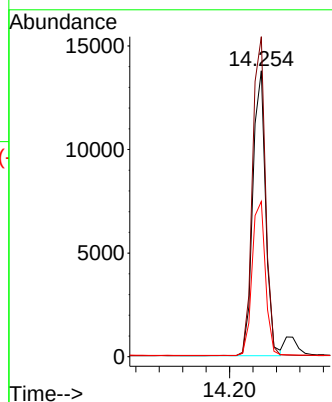
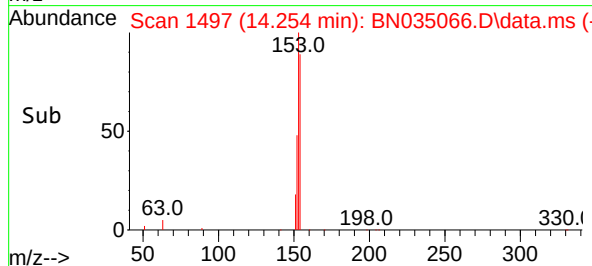
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6



Tgt Ion:154 Resp: 20910
Ion Ratio Lower Upper
154 100
153 113.4 91.6 137.4
152 56.5 45.8 68.6

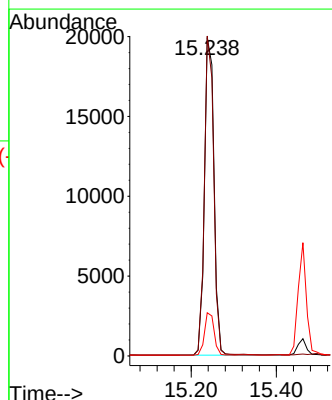
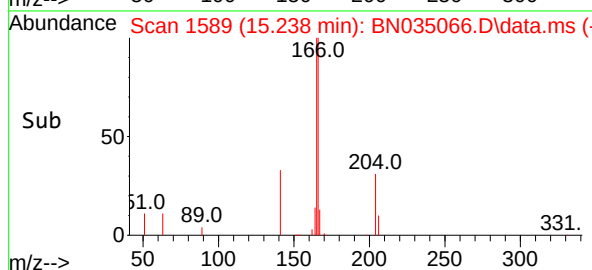
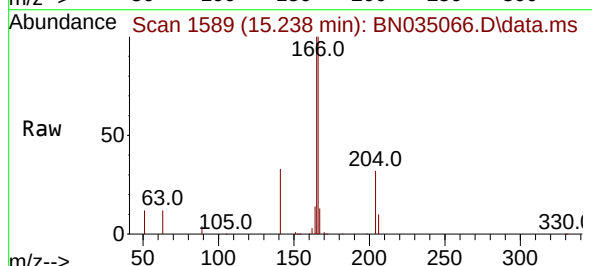
Manual Integrations
APPROVED

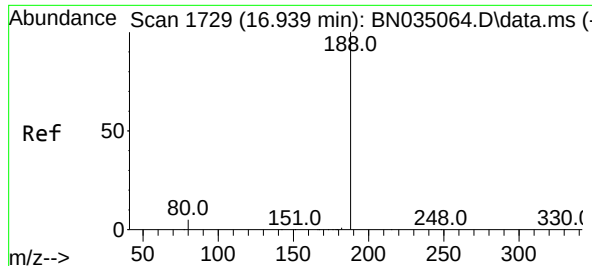
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#18
Fluorene
Concen: 1.659 ng
RT: 15.238 min Scan# 1589
Delta R.T. -0.007 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:166 Resp: 30868
Ion Ratio Lower Upper
166 100
165 98.0 79.1 118.7
167 13.4 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.932 min Scan# 1729

Delta R.T. -0.007 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

Tgt Ion:188 Resp: 12068

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

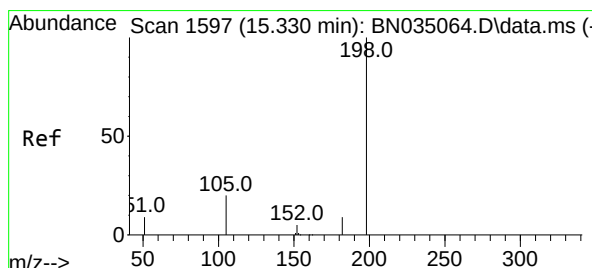
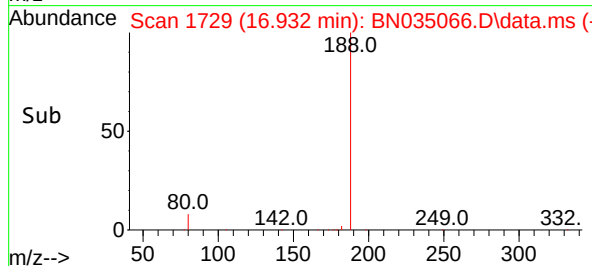
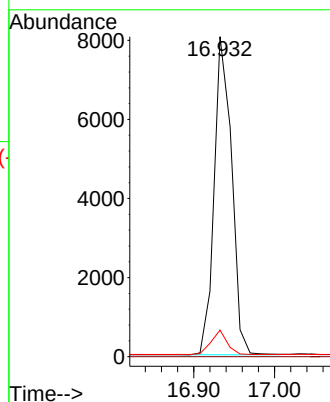
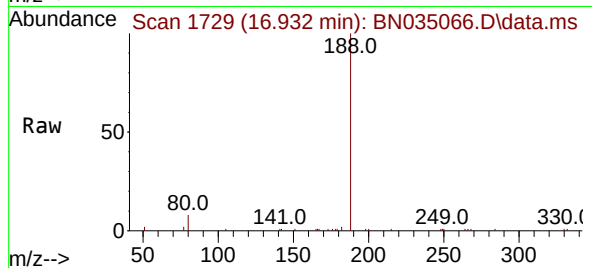
80 8.3 4.3 6.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/14/2024

Supervised By :mohammad ahmed 11/14/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 1.695 ng

RT: 15.323 min Scan# 1597

Delta R.T. -0.007 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

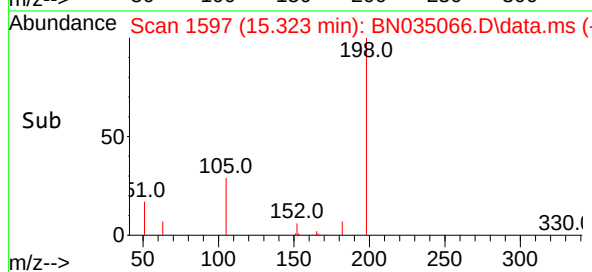
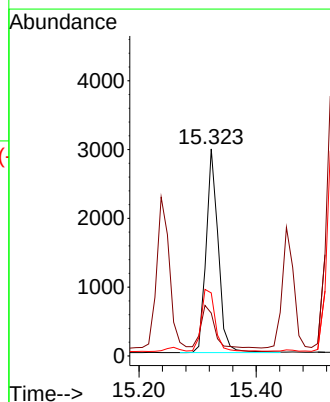
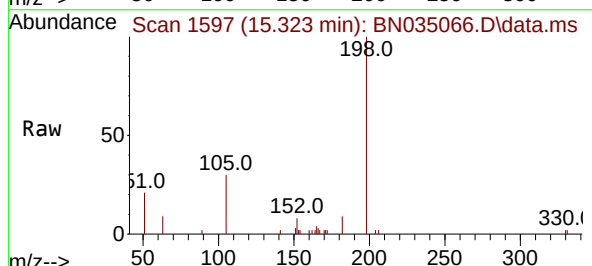
Tgt Ion:198 Resp: 4259

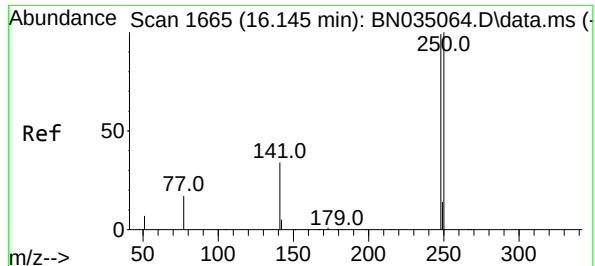
Ion Ratio Lower Upper

198 100

51 20.7 29.9 44.9

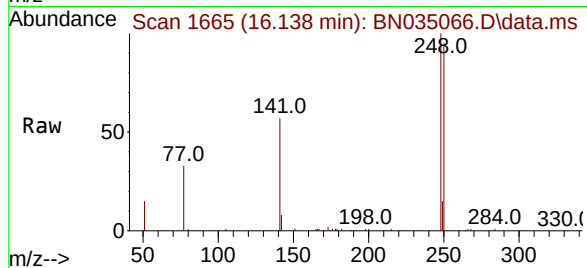
105 30.5 23.7 35.5





#21
4-Bromophenyl-phenylether
Concen: 1.676 ng
RT: 16.138 min Scan# 1665
Delta R.T. -0.007 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

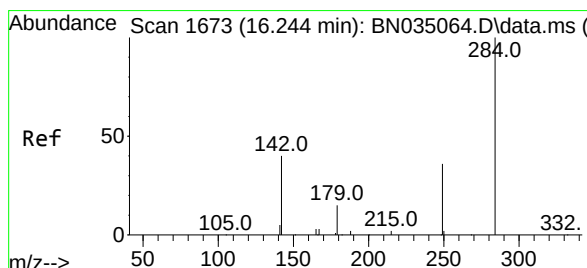
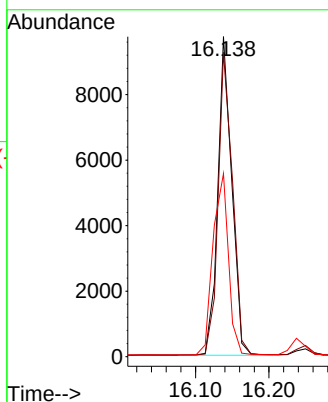
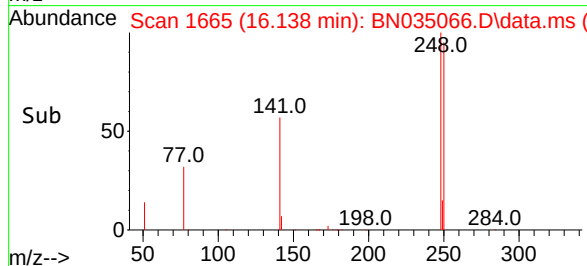
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6



Tgt Ion:248 Resp: 1288
Ion Ratio Lower Upper
248 100
250 95.0 81.2 121.8
141 57.2 29.1 43.7

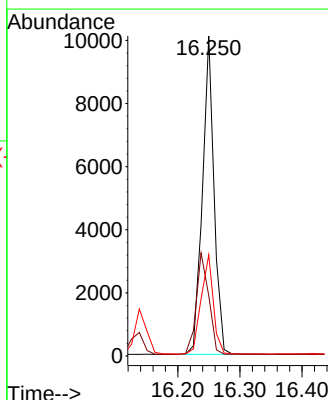
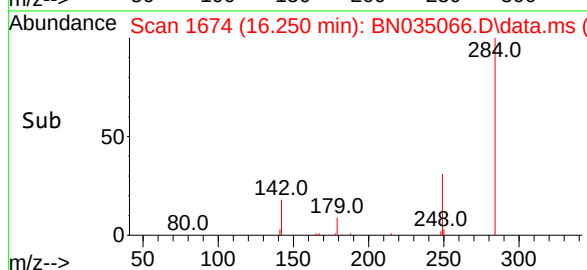
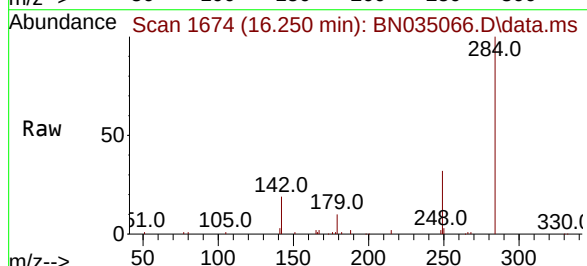
Manual Integrations
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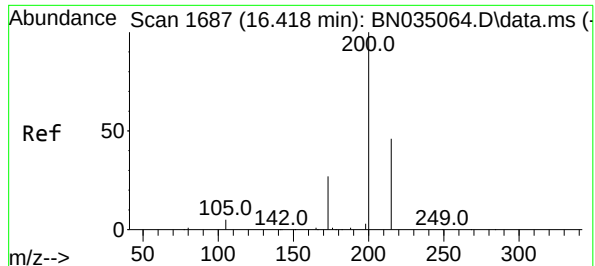
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#22
Hexachlorobenzene
Concen: 1.651 ng
RT: 16.250 min Scan# 1674
Delta R.T. 0.005 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:284 Resp: 13172
Ion Ratio Lower Upper
284 100
142 34.0 28.2 42.4
249 32.5 26.2 39.2





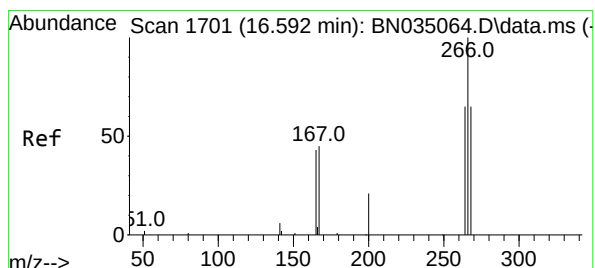
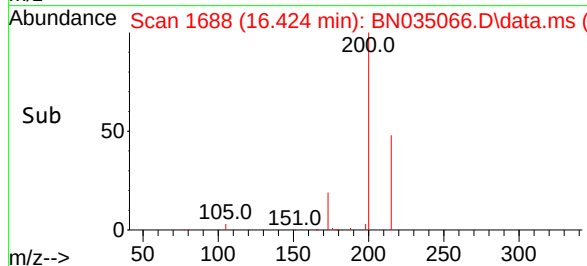
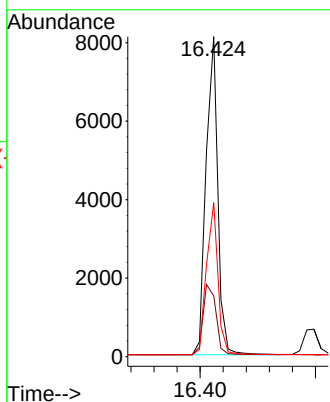
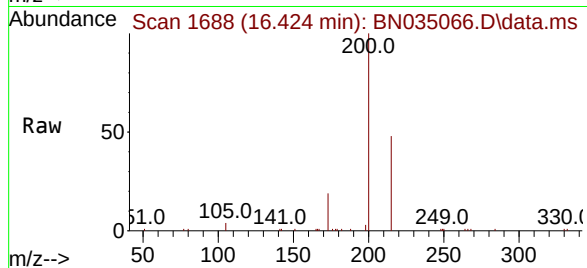
#23
Atrazine
Concen: 1.663 ng
RT: 16.424 min Scan# 1147
Delta R.T. 0.005 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:200 Resp: 1147
Ion Ratio Lower Upper
200 100
173 19.0 22.6 33.8
215 48.2 37.8 56.6

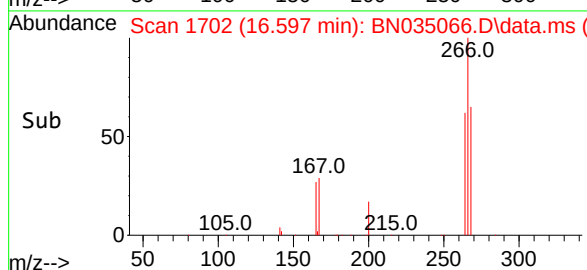
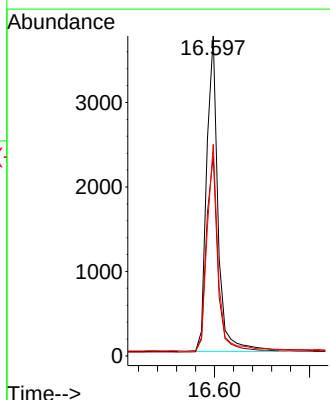
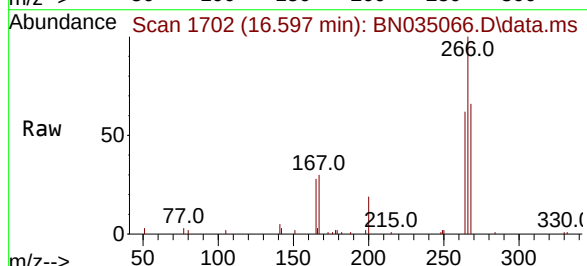
Manual Integrations
APPROVED

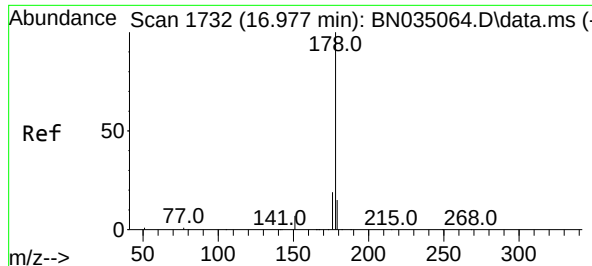
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#24
Pentachlorophenol
Concen: 1.683 ng
RT: 16.597 min Scan# 1702
Delta R.T. 0.005 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:266 Resp: 6275
Ion Ratio Lower Upper
266 100
264 63.2 49.4 74.0
268 63.7 52.6 79.0





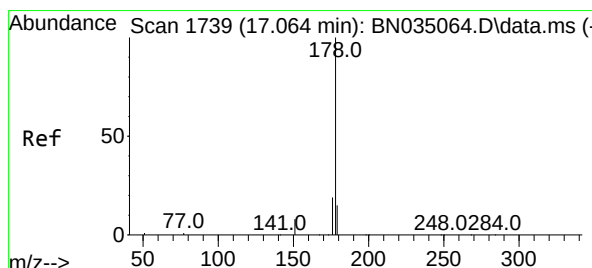
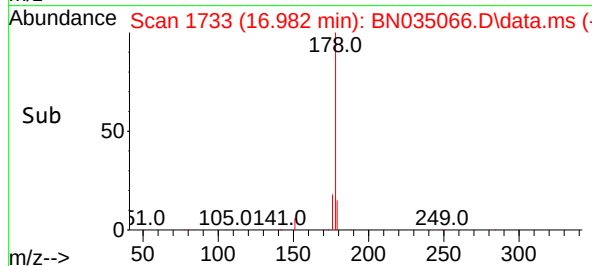
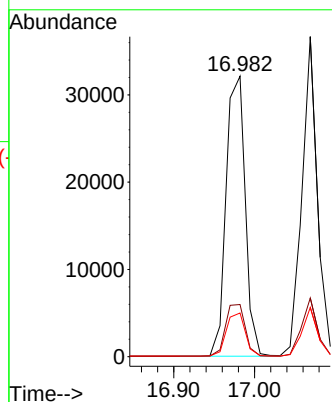
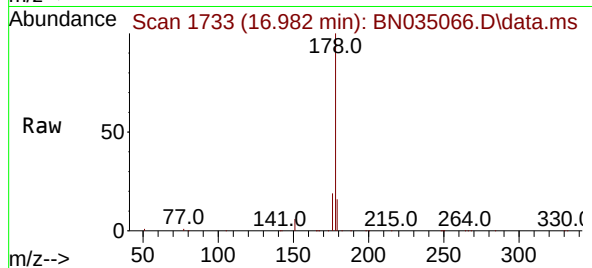
#25
Phenanthrene
Concen: 1.666 ng
RT: 16.982 min Scan# 1740
Delta R.T. 0.005 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:178 Resp: 52915
Ion Ratio Lower Upper
178 100
176 19.1 15.2 22.8
179 15.3 12.6 18.8

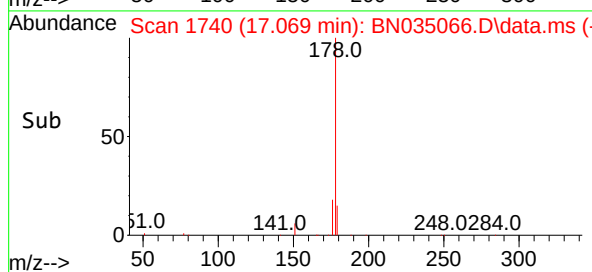
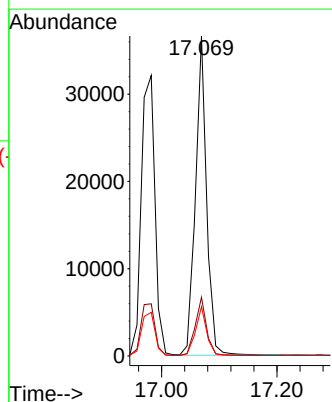
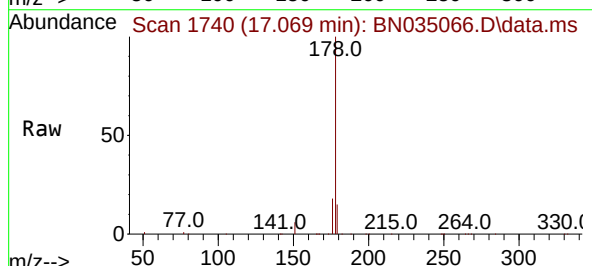
Manual Integrations
APPROVED

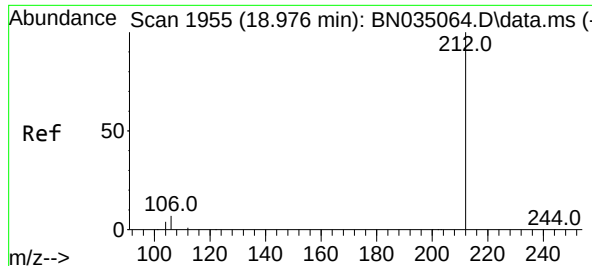
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#26
Anthracene
Concen: 1.681 ng
RT: 17.069 min Scan# 1740
Delta R.T. 0.005 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

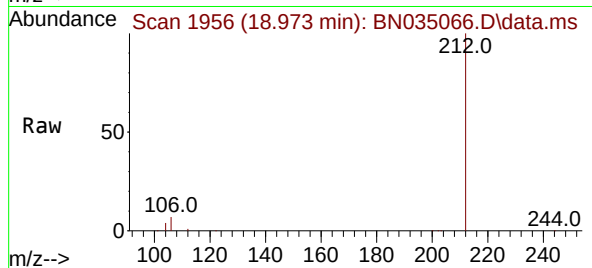
Tgt Ion:178 Resp: 49046
Ion Ratio Lower Upper
178 100
176 18.4 14.6 22.0
179 15.3 12.2 18.2





#27
Fluoranthene-d10
Concen: 1.676 ng
RT: 18.973 min Scan# 1955
Delta R.T. -0.002 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

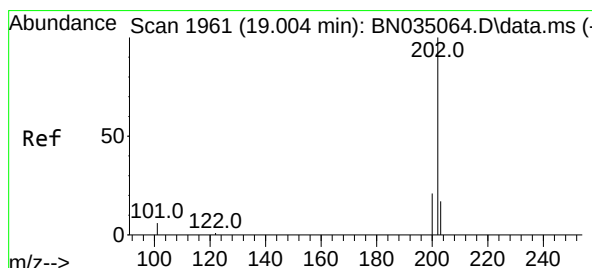
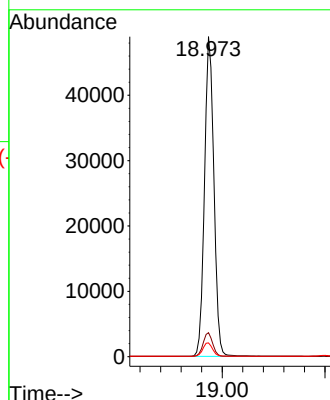
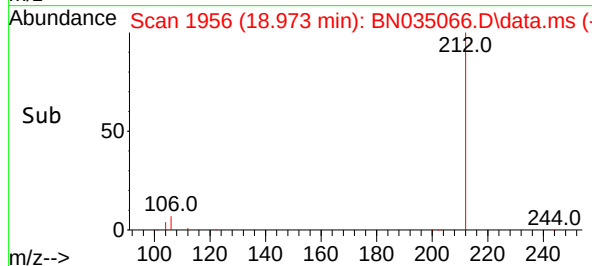
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6



Tgt Ion:212 Resp: 61972
Ion Ratio Lower Upper
212 100
106 7.5 6.0 9.0
104 4.3 3.5 5.3

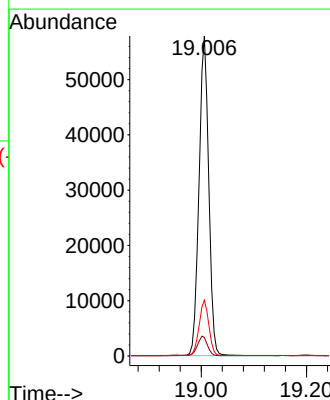
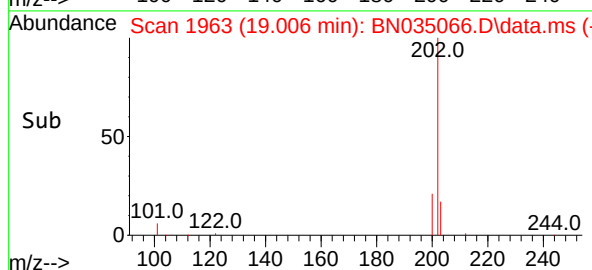
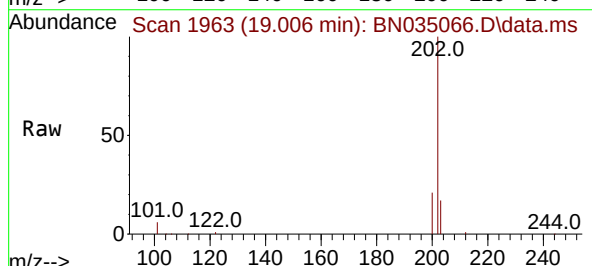
Manual Integrations
APPROVED

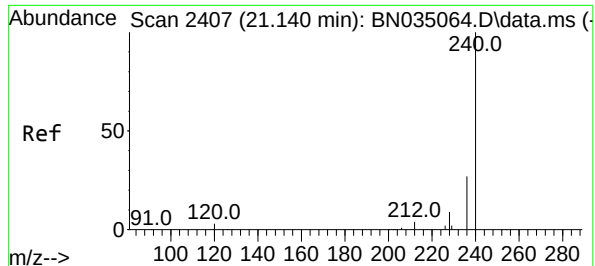
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#28
Fluoranthene
Concen: 1.687 ng
RT: 19.006 min Scan# 1963
Delta R.T. 0.002 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:202 Resp: 73694
Ion Ratio Lower Upper
202 100
101 6.3 5.2 7.8
203 17.4 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.133 min Scan# 2408

Delta R.T. -0.007 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

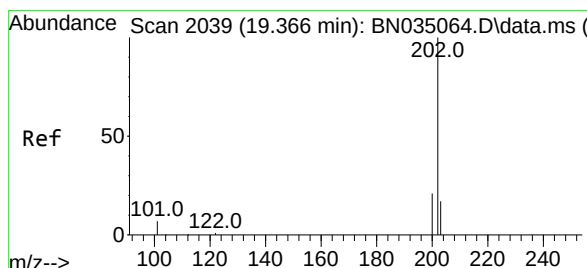
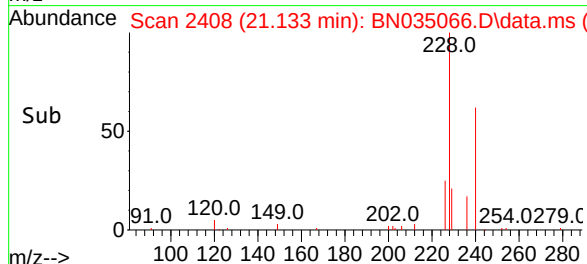
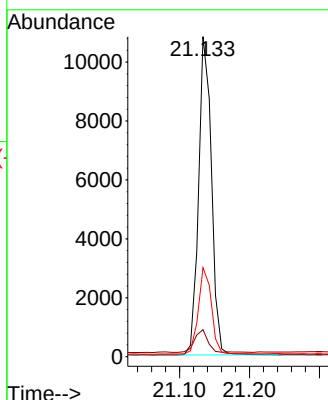
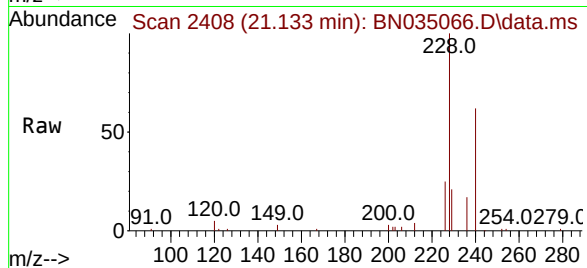
Tgt Ion	Ratio	Lower	Upper
240	100		
120	8.5	3.8	5.6
236	27.8	22.2	33.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/14/2024

Supervised By :mohammad ahmed 11/14/2024



#30

Pyrene

Concen: 1.641 ng

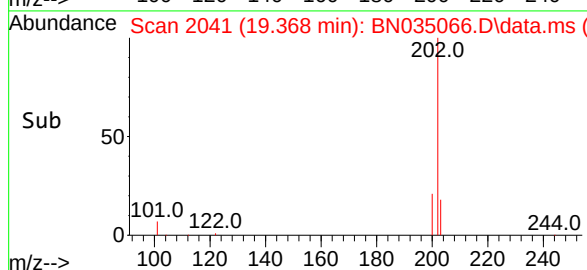
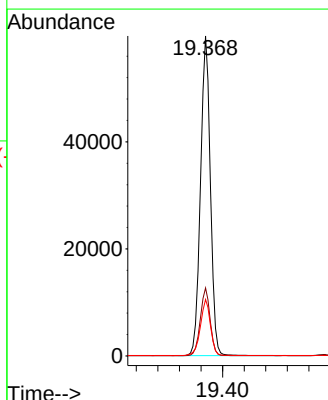
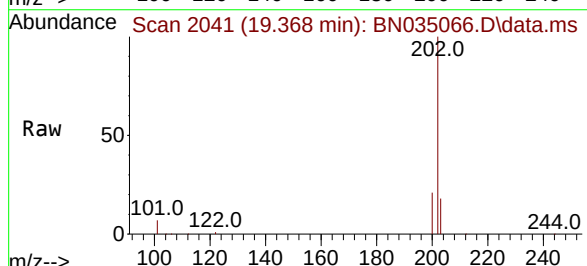
RT: 19.368 min Scan# 2041

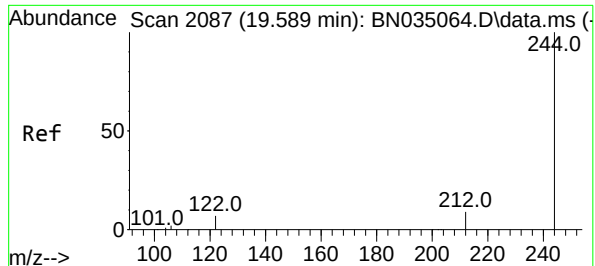
Delta R.T. 0.002 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.7	25.1
203	17.9	14.2	21.4





#31
Terphenyl-d14
Concen: 1.652 ng
RT: 19.587 min Scan# 2087
Delta R.T. -0.002 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Instrument :

BNA_N

ClientSampleId :

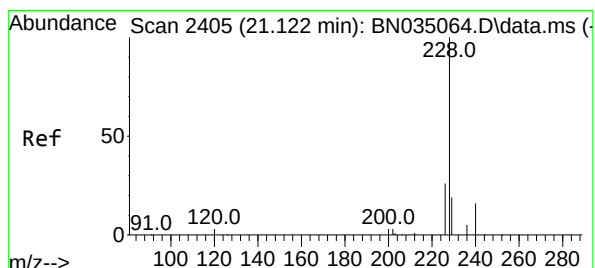
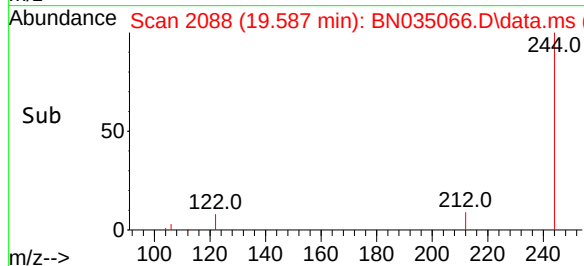
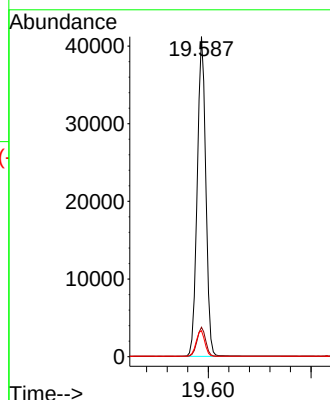
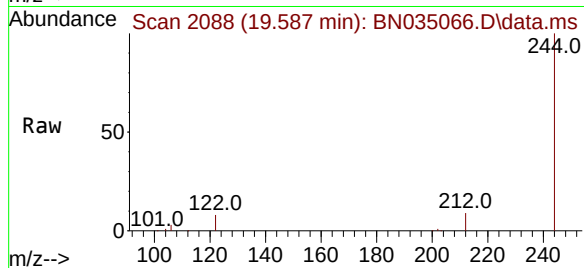
SSTDICC1.6

Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.2	7.6	11.4
122	8.1	6.1	9.1

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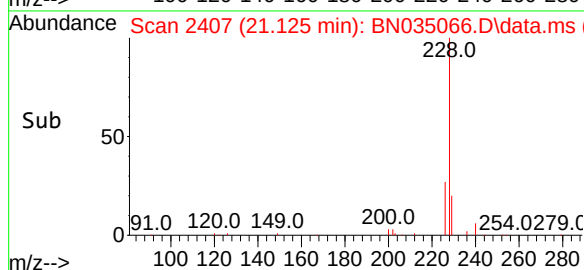
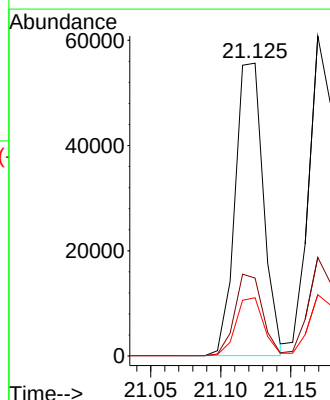
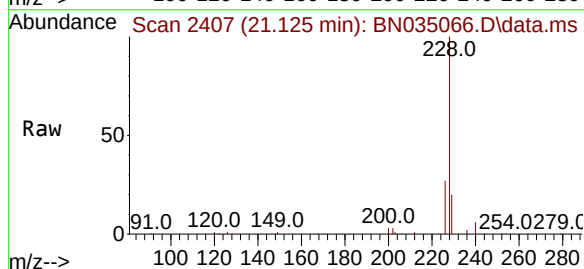
APPROVED

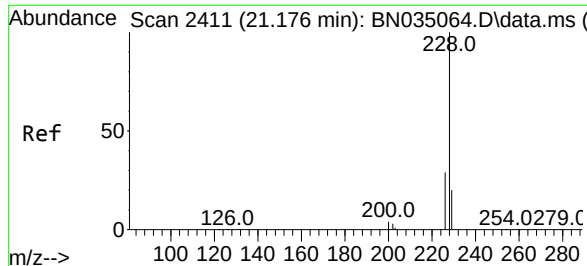
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#32
Benzo(a)anthracene
Concen: 1.627 ng
RT: 21.125 min Scan# 2407
Delta R.T. 0.002 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion	Ratio	Lower	Upper
228	100		
226	26.6	21.4	32.0
229	19.9	15.7	23.5





#33

Chrysene

Concen: 1.647 ng

RT: 21.169 min Scan# 2411

Delta R.T. -0.007 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

Tgt Ion:228 Resp: 7853

Ion Ratio Lower Upper

228 100

226 30.8 23.7 35.5

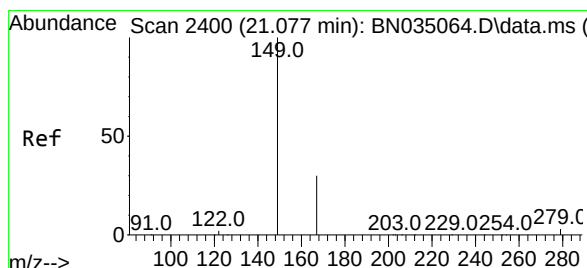
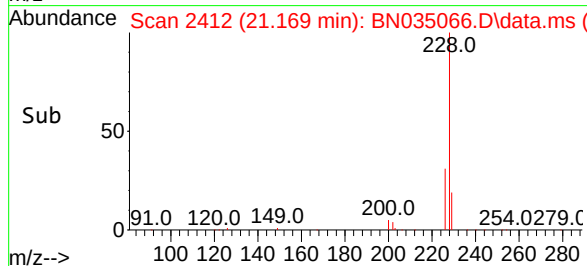
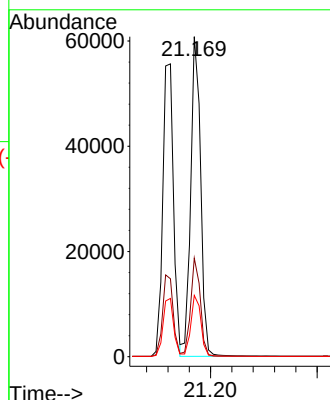
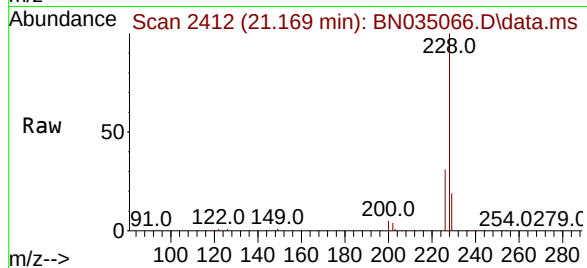
229 19.2 16.2 24.4

Manual Integrations

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Reviewed By :Yogesh Patel 11/14/2024

Supervised By :mohammad ahmed 11/14/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 1.549 ng

RT: 21.080 min Scan# 2402

Delta R.T. 0.002 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

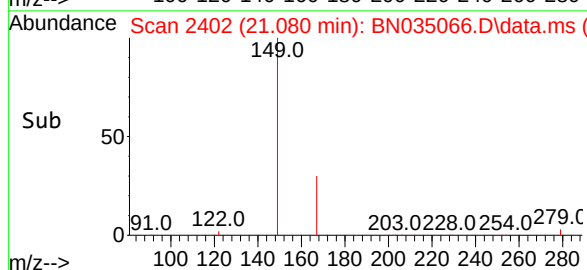
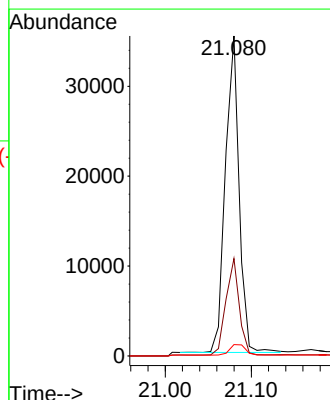
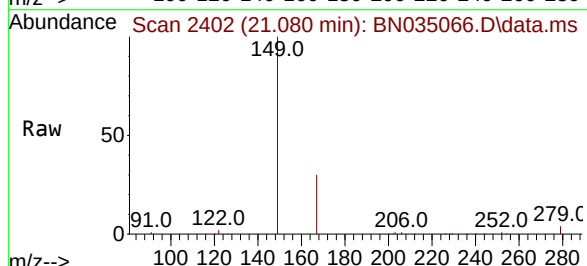
Tgt Ion:149 Resp: 38807

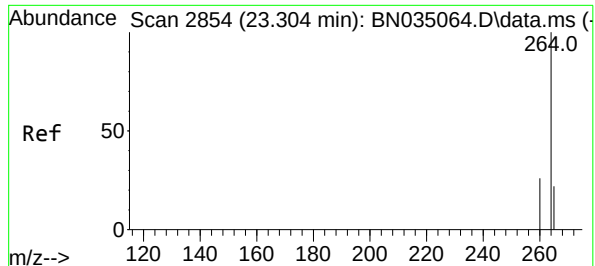
Ion Ratio Lower Upper

149 100

167 29.5 23.2 34.8

279 3.9 3.2 4.8





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.303 min Scan# 21

Delta R.T. -0.001 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

Tgt Ion:264 Resp: 15060

Ion Ratio Lower Upper

264 100

260 26.0 20.9 31.3

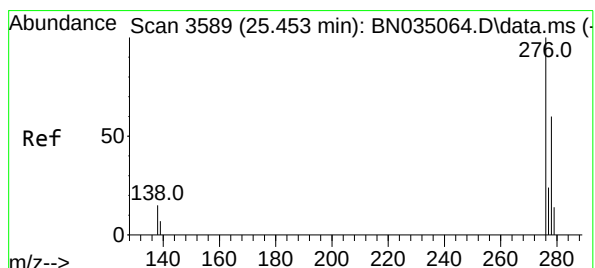
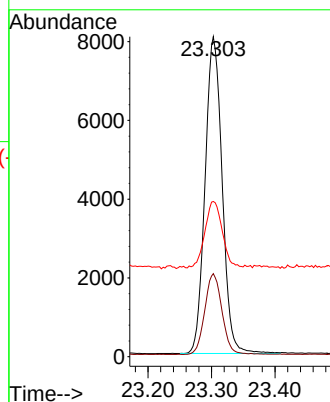
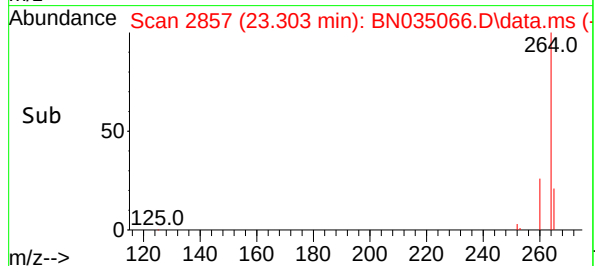
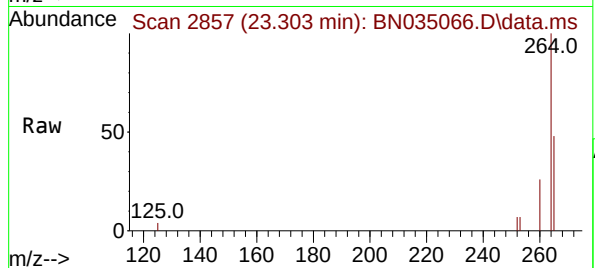
265 48.5 35.4 53.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/14/2024

Supervised By :mohammad ahmed 11/14/2024



#36

Indeno(1,2,3-cd)pyrene

Concen: 1.663 ng

RT: 25.452 min Scan# 3592

Delta R.T. -0.001 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

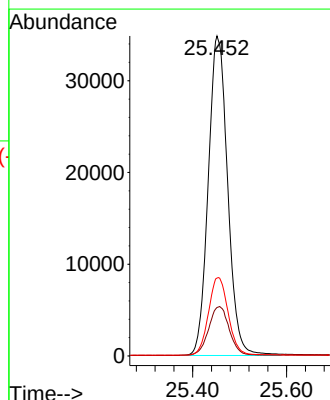
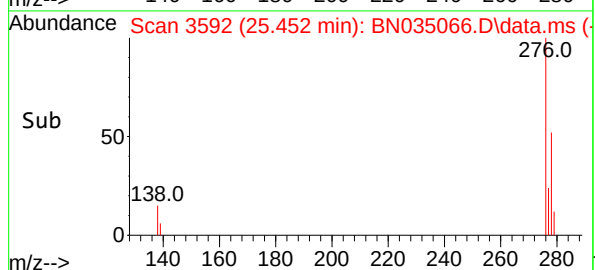
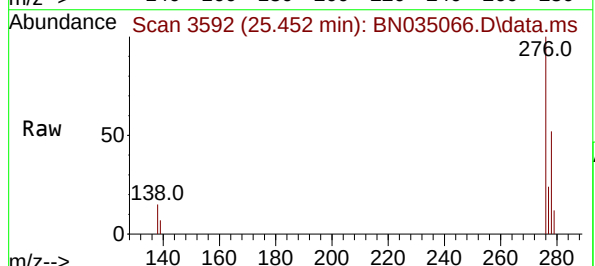
Tgt Ion:276 Resp: 99936

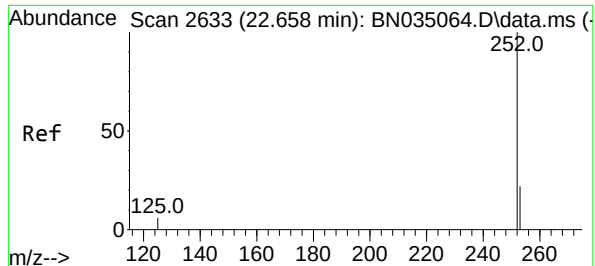
Ion Ratio Lower Upper

276 100

138 16.1 13.0 19.4

277 24.8 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 1.686 ng m

RT: 22.660 min Scan# 2637

Delta R.T. 0.002 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

Tgt Ion:252 Resp: 85420

Ion Ratio Lower Upper

252 100

253 22.2 19.3 28.9

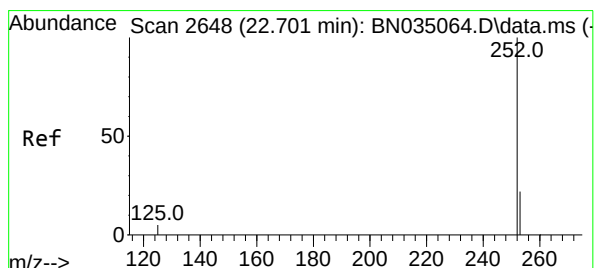
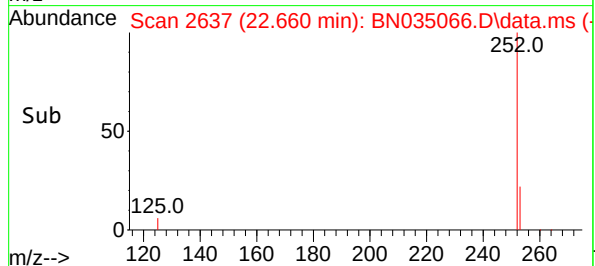
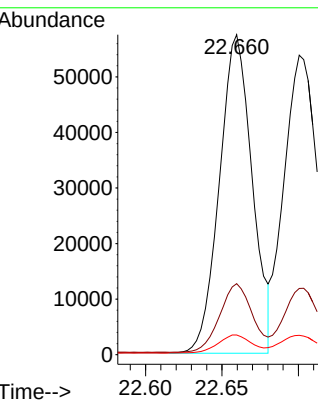
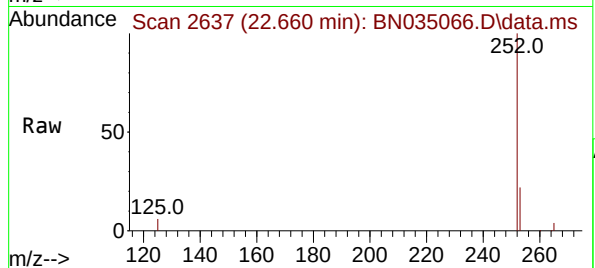
125 6.1 6.2 9.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/14/2024

Supervised By :mohammad ahmed 11/14/2024



#38

Benzo(k)fluoranthene

Concen: 1.676 ng

RT: 22.701 min Scan# 2651

Delta R.T. -0.001 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

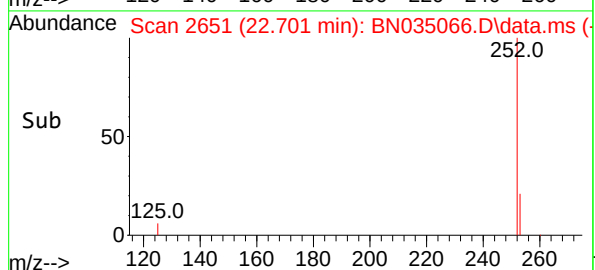
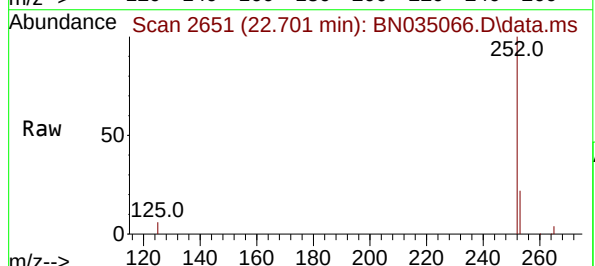
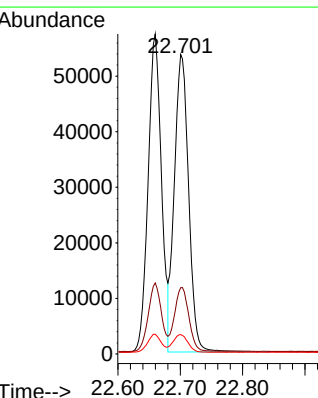
Tgt Ion:252 Resp: 84960

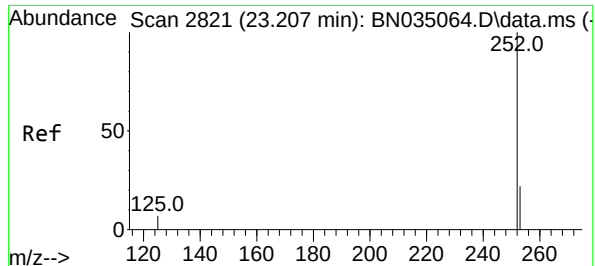
Ion Ratio Lower Upper

252 100

253 22.1 19.5 29.3

125 6.5 6.5 9.7#





#39

Benzo(a)pyrene

Concen: 1.675 ng

RT: 23.209 min Scan# 21

Delta R.T. 0.002 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

Tgt Ion:252 Resp: 7466

Ion Ratio Lower Upper

252 100

253 22.3 20.1 30.1

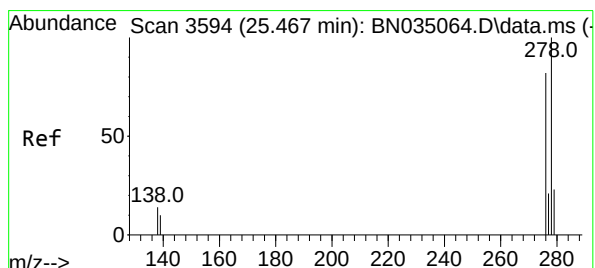
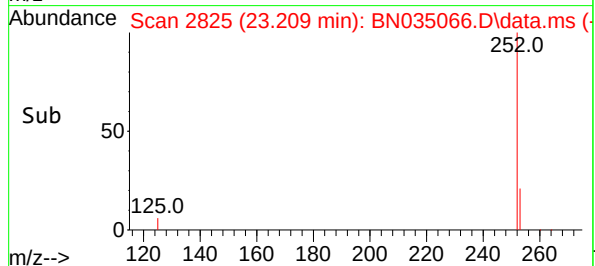
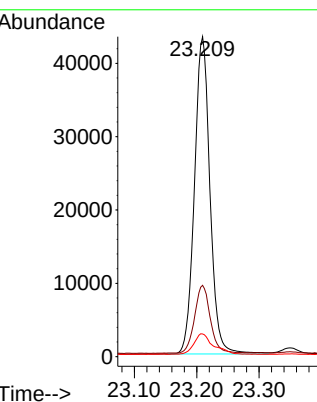
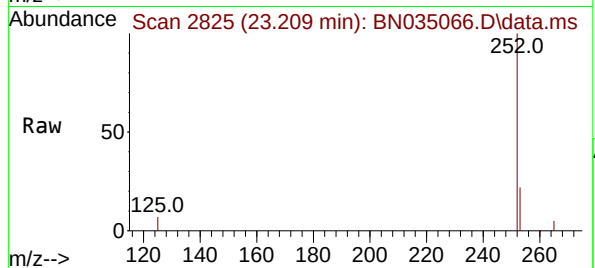
125 7.1 7.5 11.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/14/2024

Supervised By :mohammad ahmed 11/14/2024



#40

Dibenzo(a,h)anthracene

Concen: 1.673 ng

RT: 25.469 min Scan# 3598

Delta R.T. 0.002 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

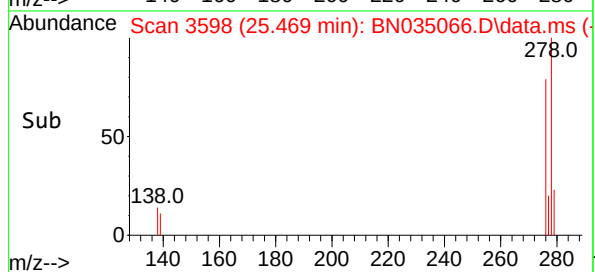
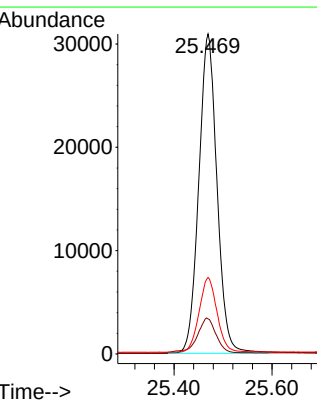
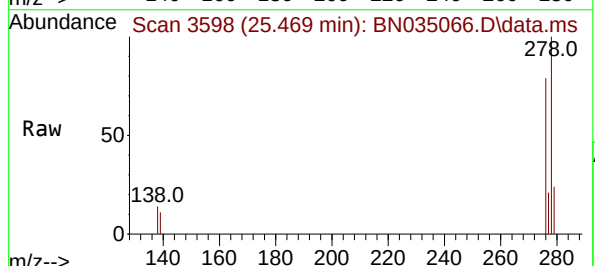
Tgt Ion:278 Resp: 79628

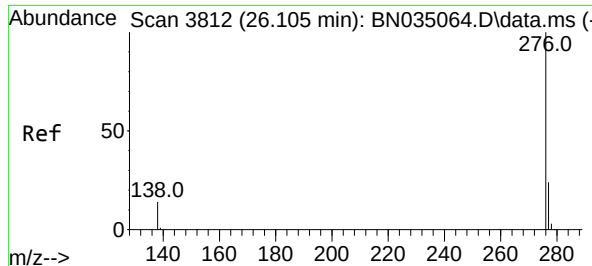
Ion Ratio Lower Upper

278 100

139 10.9 9.3 13.9

279 23.9 19.7 29.5





#41

Benzo(g,h,i)perylene

Concen: 1.649 ng

RT: 26.107 min Scan# 3812

Delta R.T. 0.002 min

Lab File: BN035066.D

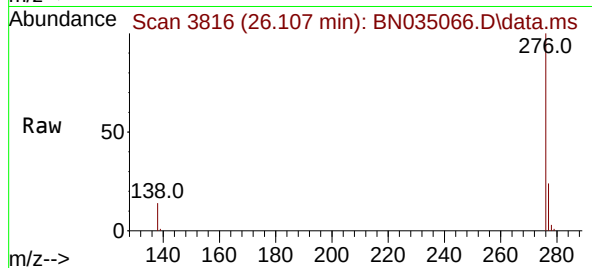
Acq: 13 Nov 2024 15:04

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



Tgt Ion:276 Resp: 83498

Ion Ratio Lower Upper

276 100

277 23.7 19.9 29.9

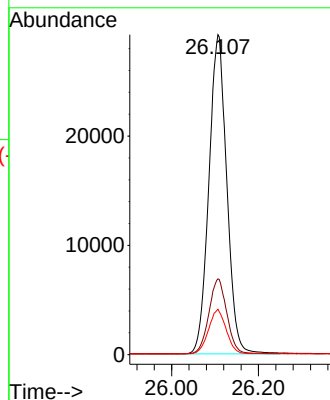
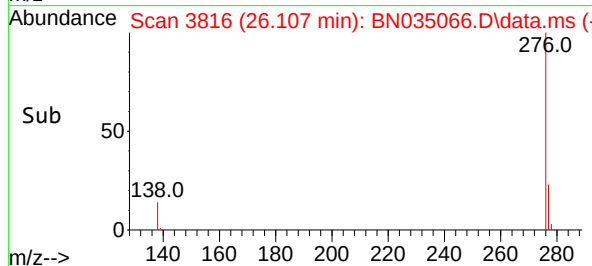
138 14.2 11.6 17.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/14/2024

Supervised By :mohammad ahmed 11/14/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
 Data File : BN035067.D
 Acq On : 13 Nov 2024 15:39
 Operator : RC/JU
 Sample : SSTDICC3.2
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/14/2024
 Supervised By :mohammad ahmed 11/14/2024

Quant Time: Nov 13 16:45:11 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 16:42:01 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.553	152	2920	0.400	ng	0.00
7) Naphthalene-d8	10.319	136	7487	0.400	ng	0.00
13) Acenaphthene-d10	14.190	164	5593	0.400	ng	0.00
19) Phenanthrene-d10	16.932	188	14864	0.400	ng	# 0.00
29) Chrysene-d12	21.133	240	17096	0.400	ng	# 0.00
35) Perylene-d12	23.303	264	18582	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	22571	3.045	ng	0.00
5) Phenol-d6	6.737	99	29328	3.155	ng	0.00
8) Nitrobenzene-d5	8.696	82	20578	3.167	ng	0.00
11) 2-Methylnaphthalene-d10	11.912	152	42128	3.157	ng	0.00
14) 2,4,6-Tribromophenol	15.691	330	13778	3.417	ng	0.00
15) 2-Fluorobiphenyl	12.811	172	71543	3.150	ng	0.00
27) Fluoranthene-d10	18.973	212	145321	3.191	ng	0.00
31) Terphenyl-d14	19.587	244	111732	3.115	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.177	88	8131	3.066	ng	99
3) n-Nitrosodimethylamine	3.465	42	7509	3.049	ng	# 93
6) bis(2-Chloroethyl)ether	6.990	93	21619	3.099	ng	99
9) Naphthalene	10.362	128	60468	3.093	ng	98
10) Hexachlorobutadiene	10.660	225	17300	3.019	ng	# 99
12) 2-Methylnaphthalene	11.988	142	45806	3.176	ng	98
16) Acenaphthylene	13.901	152	78553	3.286	ng	99
17) Acenaphthene	14.254	154	50542	3.227	ng	98
18) Fluorene	15.238	166	74092	3.215	ng	99
20) 4,6-Dinitro-2-methylph...	15.323	198	11328	3.661	ng	# 83
21) 4-Bromophenyl-phenylether	16.138	248	30013	3.169	ng	# 85
22) Hexachlorobenzene	16.250	284	30635	3.117	ng	99
23) Atrazine	16.424	200	26567	3.127	ng	# 93
24) Pentachlorophenol	16.597	266	16789	3.656	ng	98
25) Phenanthrene	16.982	178	123000	3.144	ng	99
26) Anthracene	17.069	178	117301	3.265	ng	100
28) Fluoranthene	19.006	202	172759	3.212	ng	100
30) Pyrene	19.368	202	177937	3.125	ng	100
32) Benzo(a)anthracene	21.125	228	185345	3.114	ng	99
33) Chrysene	21.169	228	182053	3.087	ng	98
34) Bis(2-ethylhexyl)phtha...	21.080	149	94826	3.061	ng	99
36) Indeno(1,2,3-cd)pyrene	25.455	276	230419	3.108	ng	100
37) Benzo(b)fluoranthene	22.660	252	197259m	3.155	ng	
38) Benzo(k)fluoranthene	22.701	252	196686	3.144	ng	# 95
39) Benzo(a)pyrene	23.209	252	173547	3.155	ng	# 93
40) Dibenzo(a,h)anthracene	25.466	278	183641	3.127	ng	98
41) Benzo(g,h,i)perylene	26.107	276	192341	3.079	ng	98

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
 Data File : BN035067.D
 Acq On : 13 Nov 2024 15:39
 Operator : RC/JU
 Sample : SSTDICC3.2
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/14/2024

Supervised By :mohammad ahmed 11/14/2024

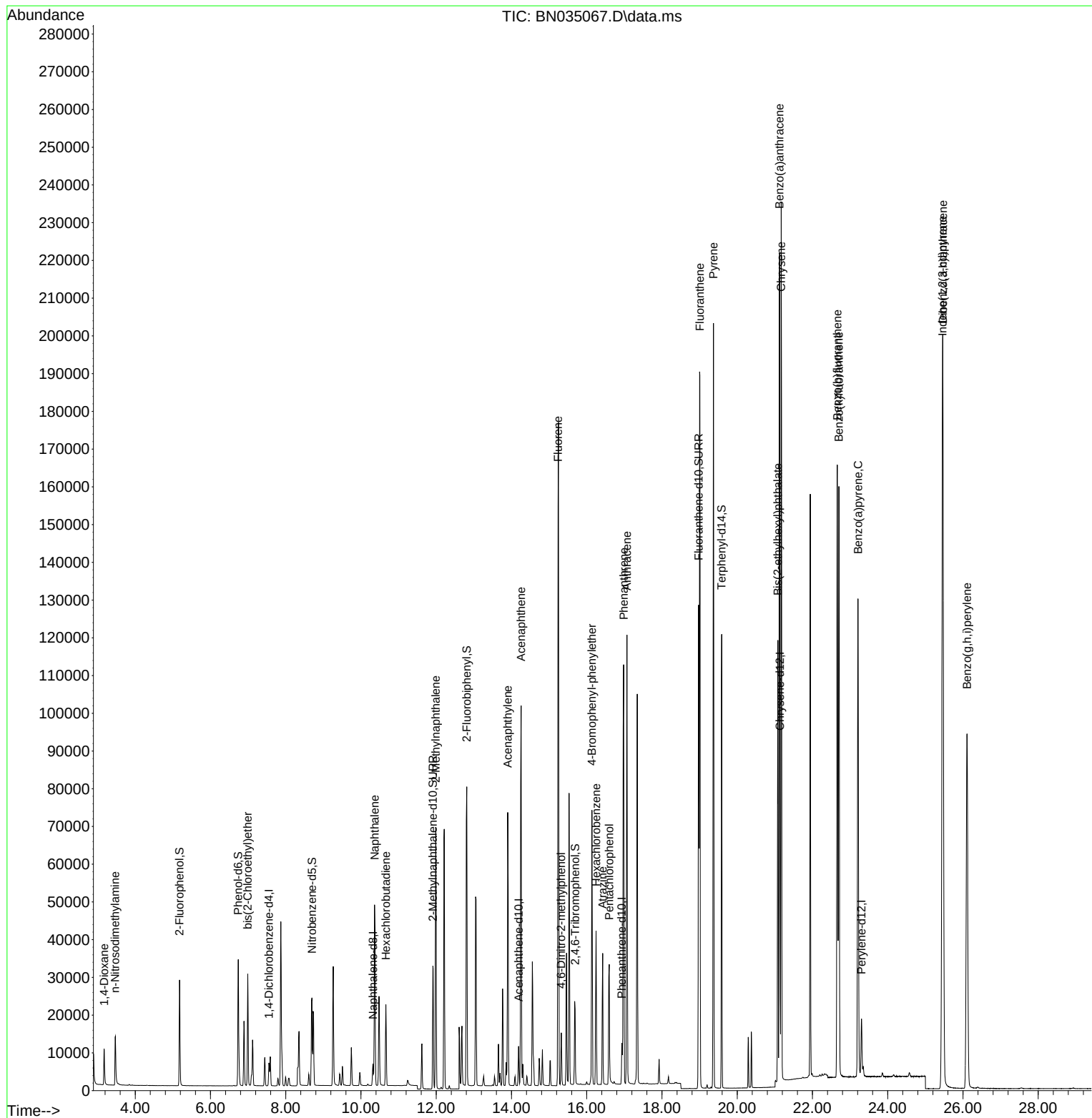
Quant Time: Nov 13 16:45:11 2024

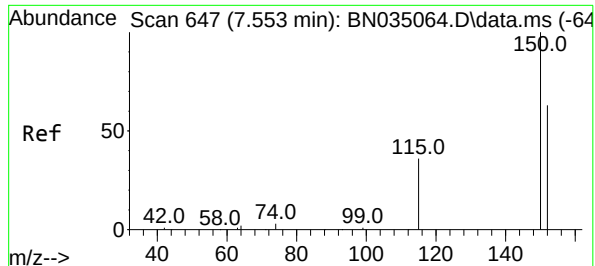
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Nov 13 16:42:01 2024

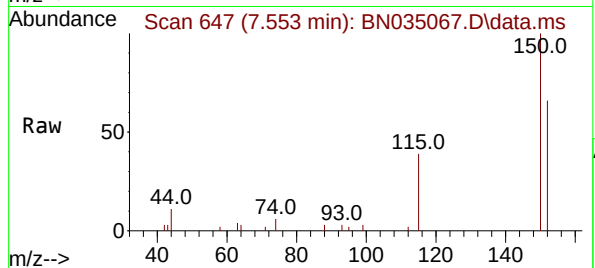
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.553 min Scan# 647
Delta R.T. 0.000 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

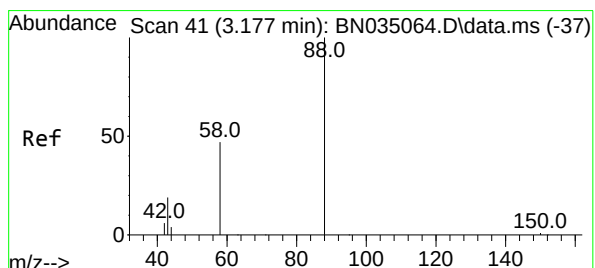
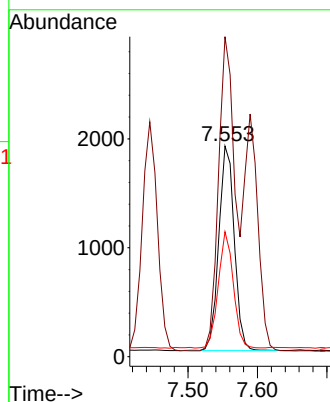
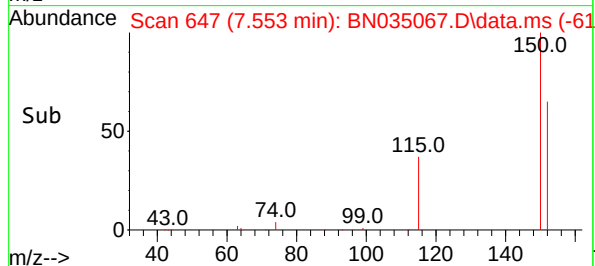
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2



Tgt Ion: 152 Resp: 2920
Ion Ratio Lower Upper
152 100
150 152.0 124.5 186.7
115 59.4 47.8 71.6

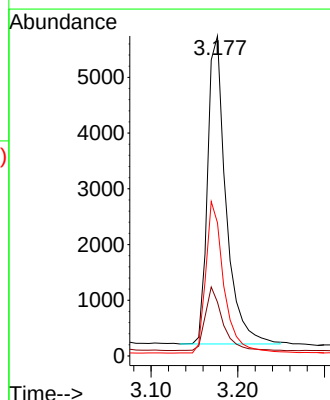
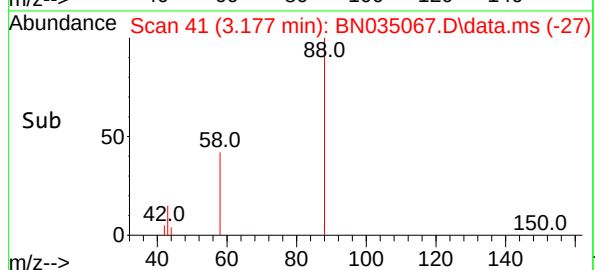
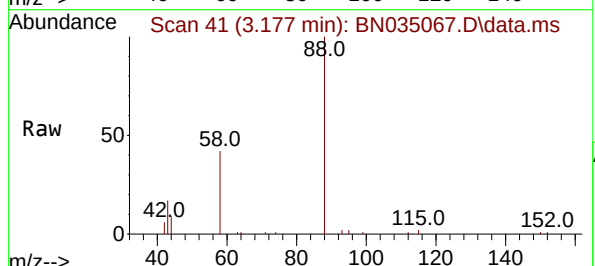
Manual Integrations
APPROVED

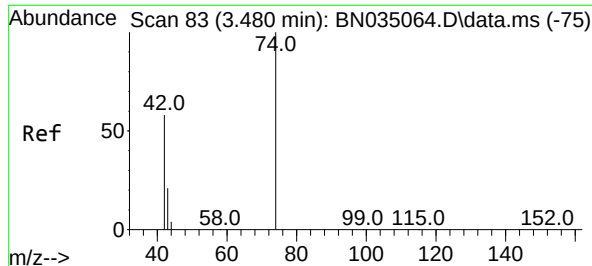
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#2
1,4-Dioxane
Concen: 3.066 ng
RT: 3.177 min Scan# 41
Delta R.T. -0.000 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion: 88 Resp: 8131
Ion Ratio Lower Upper
88 100
43 19.5 16.9 25.3
58 48.4 39.0 58.4





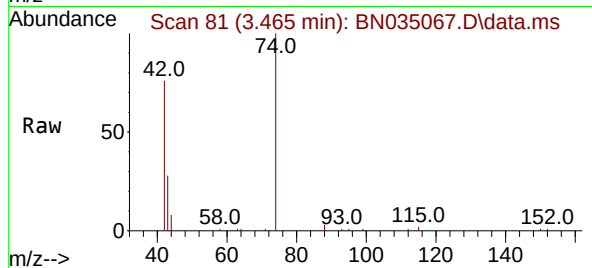
#3
n-Nitrosodimethylamine
Concen: 3.049 ng
RT: 3.465 min Scan# 81
Delta R.T. -0.015 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

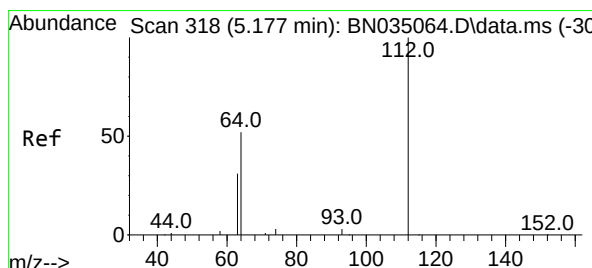
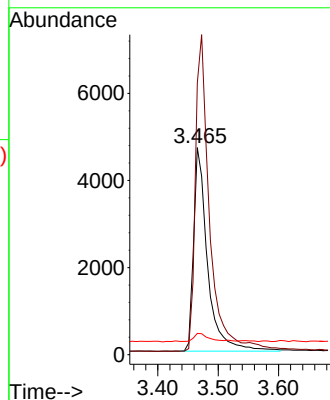
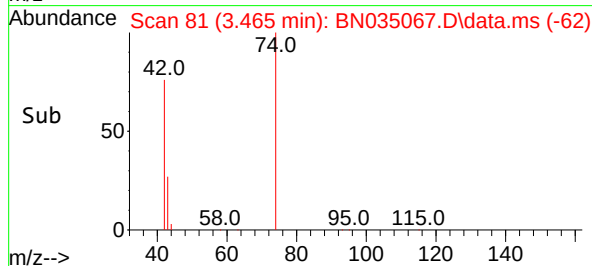


Tgt Ion: 42 Resp: 7509
Ion Ratio Lower Upper
42 100
74 159.4 120.8 181.2
44 4.7 2.9 4.3

Manual Integrations

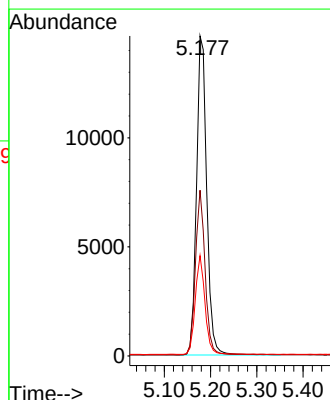
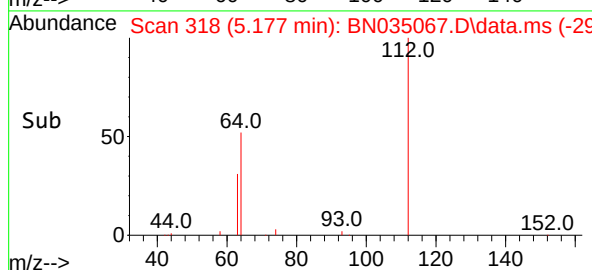
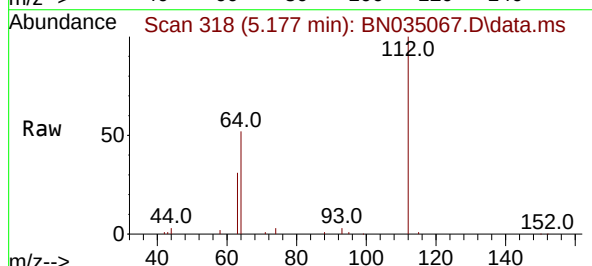
APPROVED

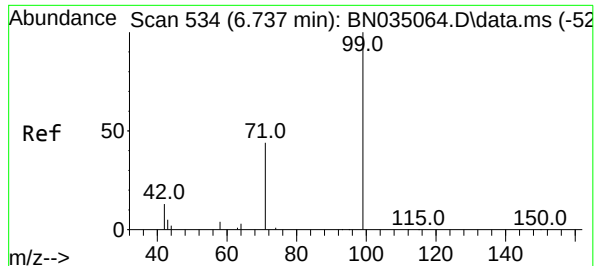
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#4
2-Fluorophenol
Concen: 3.045 ng
RT: 5.177 min Scan# 318
Delta R.T. -0.000 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:112 Resp: 22571
Ion Ratio Lower Upper
112 100
64 48.8 39.7 59.5
63 29.4 23.0 34.4





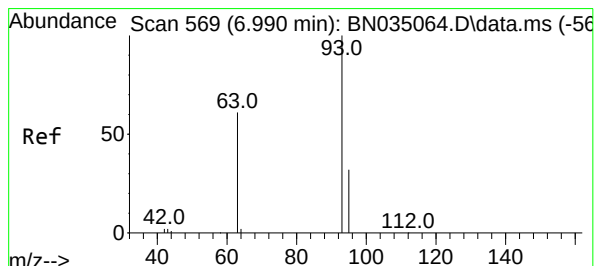
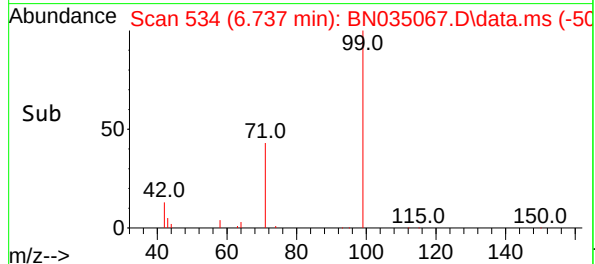
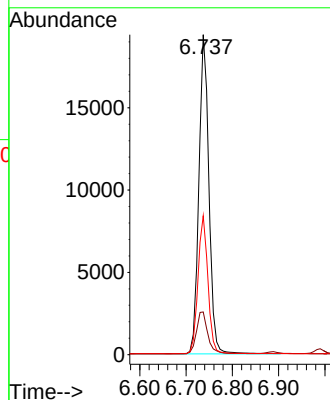
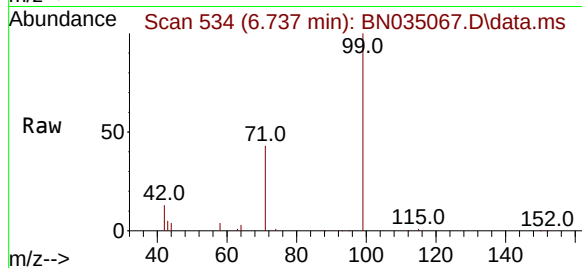
#5
Phenol-d6
Concen: 3.155 ng
RT: 6.737 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion: 99 Resp: 29328
Ion Ratio Lower Upper
99 100
42 14.5 11.4 17.0
71 43.0 34.6 51.8

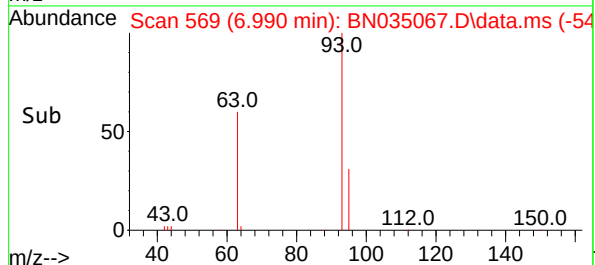
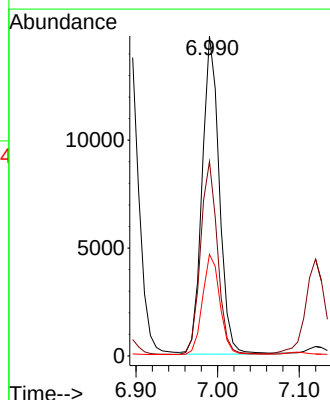
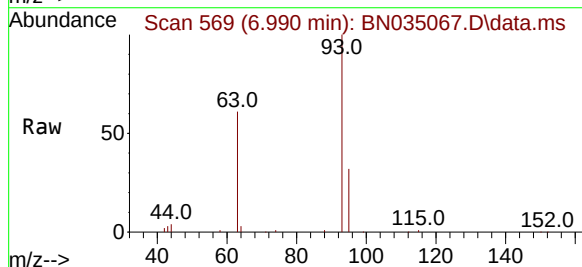
Manual Integrations
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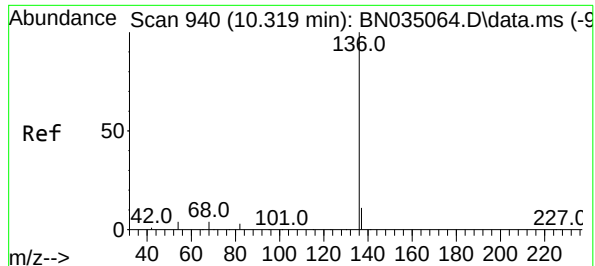
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#6
bis(2-Chloroethyl)ether
Concen: 3.099 ng
RT: 6.990 min Scan# 569
Delta R.T. -0.000 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion: 93 Resp: 21619
Ion Ratio Lower Upper
93 100
63 60.2 47.4 71.2
95 31.9 26.2 39.4





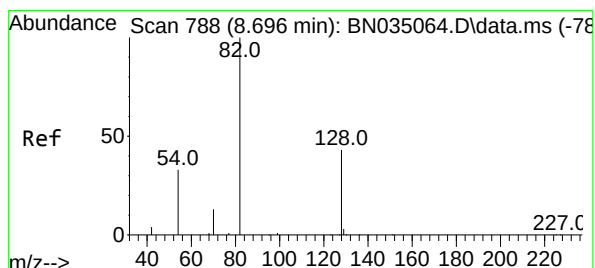
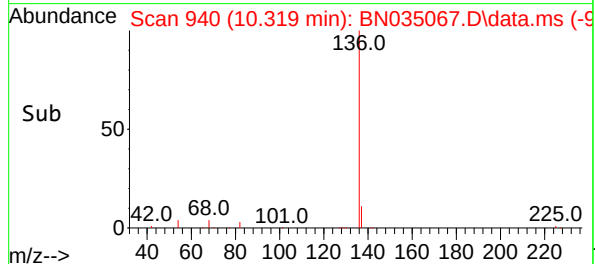
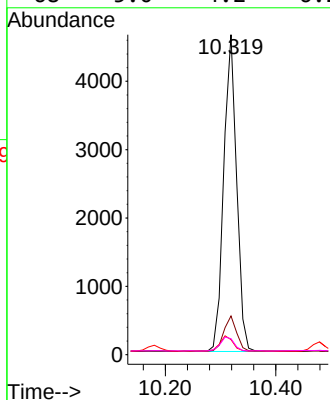
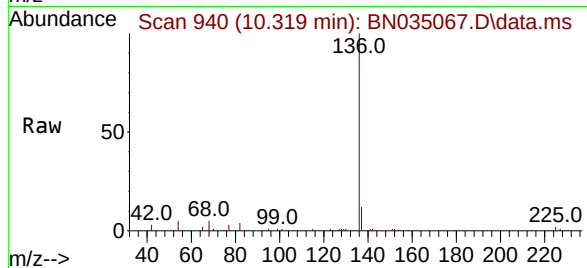
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.319 min Scan# 940
Delta R.T. -0.000 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:	136	Resp:	748
Ion	Ratio	Lower	Upper
136	100		
137	12.1	9.8	14.8
54	4.7	4.0	6.0
68	5.0	4.2	6.2

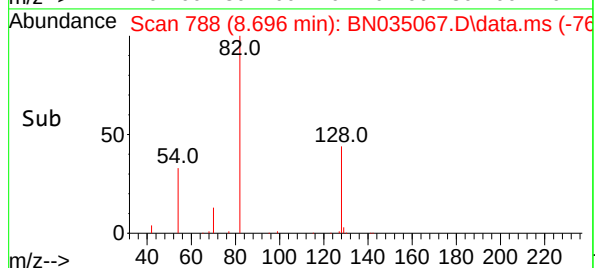
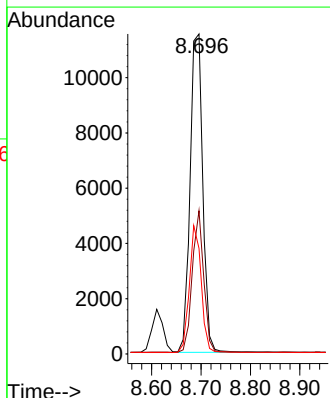
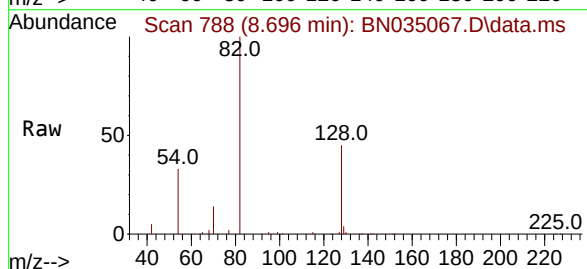
Manual Integrations
APPROVED

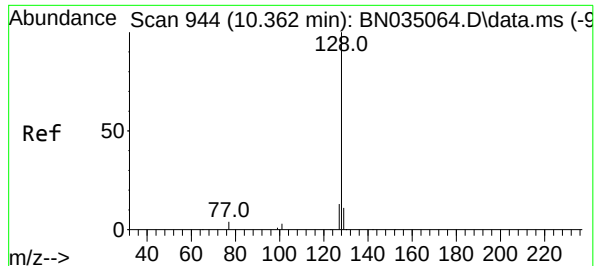
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#8
Nitrobenzene-d5
Concen: 3.167 ng
RT: 8.696 min Scan# 788
Delta R.T. -0.000 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:	82	Resp:	20578
Ion	Ratio	Lower	Upper
82	100		
128	44.7	36.5	54.7
54	33.0	28.7	43.1





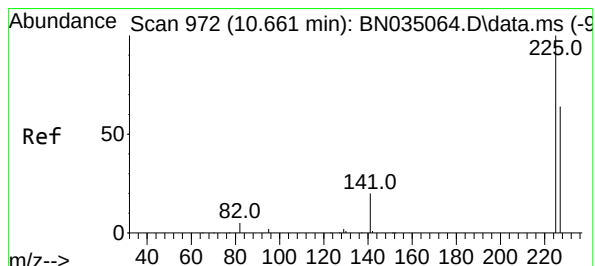
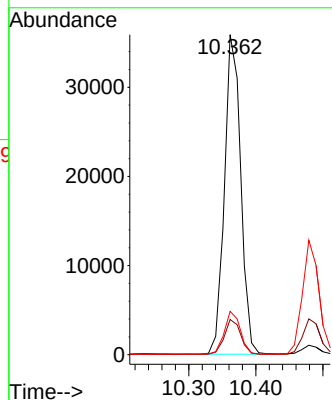
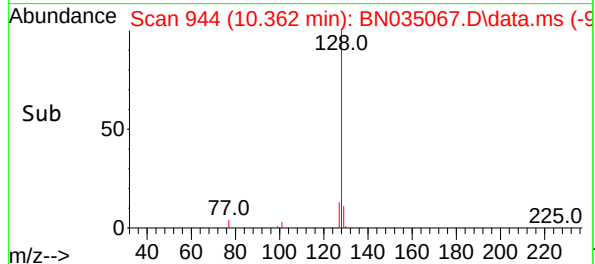
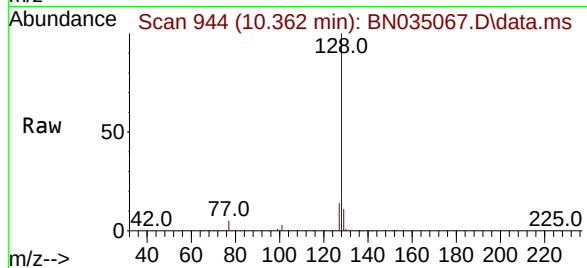
#9
Naphthalene
Concen: 3.093 ng
RT: 10.362 min Scan# 944
Delta R.T. -0.000 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:128 Resp: 60468
Ion Ratio Lower Upper
128 100
129 11.0 9.6 14.4
127 13.6 11.6 17.4

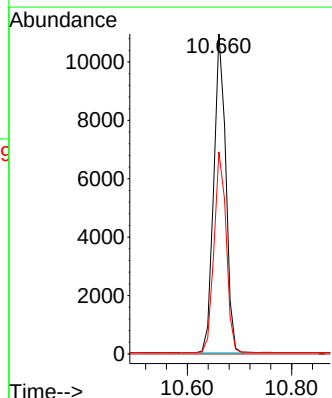
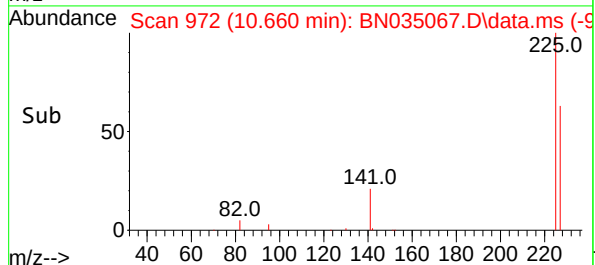
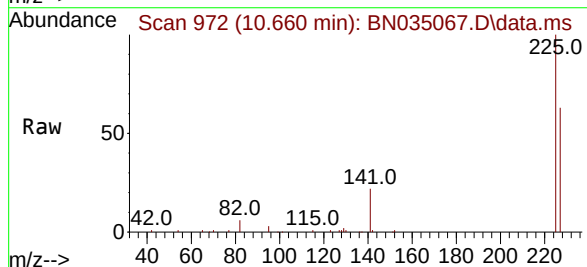
Manual Integrations
APPROVED

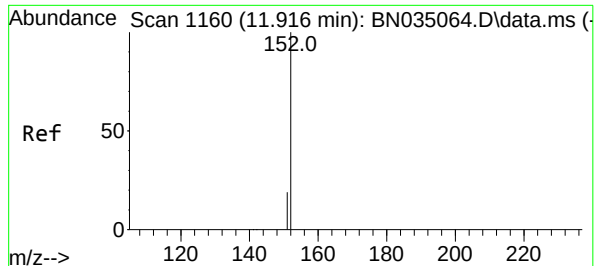
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#10
Hexachlorobutadiene
Concen: 3.019 ng
RT: 10.660 min Scan# 972
Delta R.T. -0.000 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

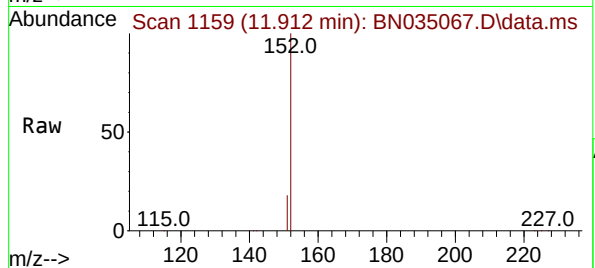
Tgt Ion:225 Resp: 17300
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.8 51.5 77.3





#11
2-Methylnaphthalene-d10
Concen: 3.157 ng
RT: 11.912 min Scan# 1159
Delta R.T. -0.004 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

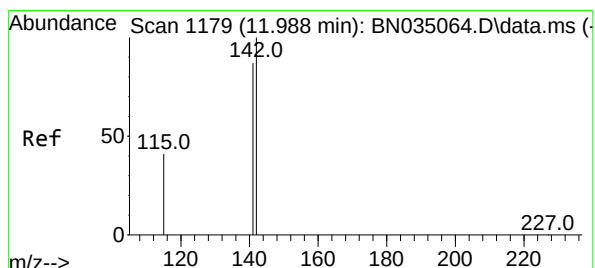
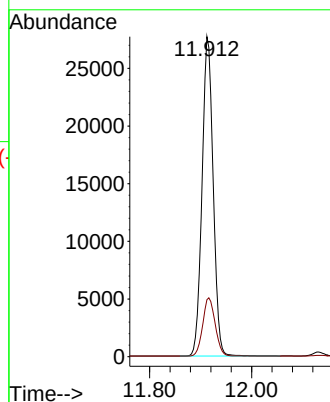
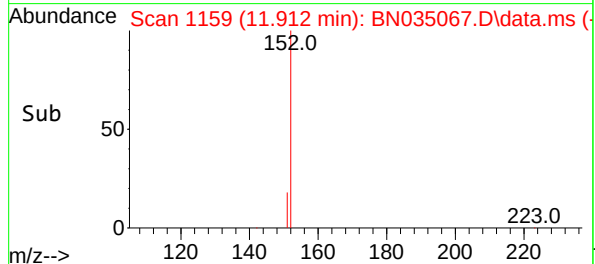
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2



Tgt Ion:152 Resp: 42128
Ion Ratio Lower Upper
152 100
151 20.4 16.2 24.4

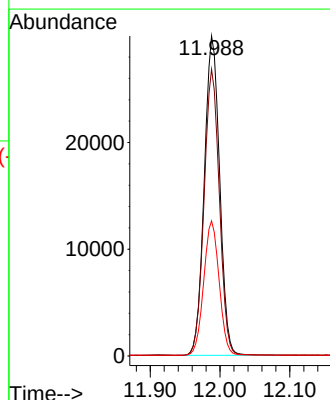
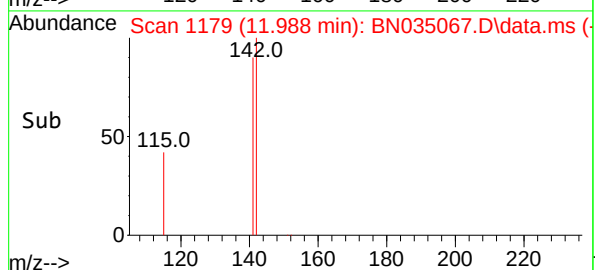
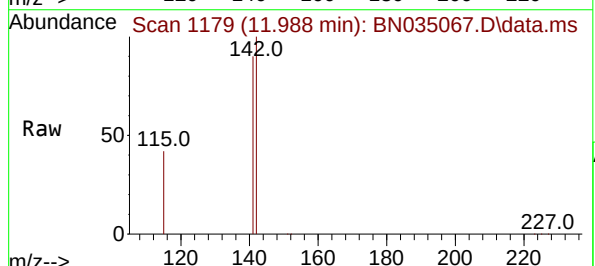
Manual Integrations
APPROVED

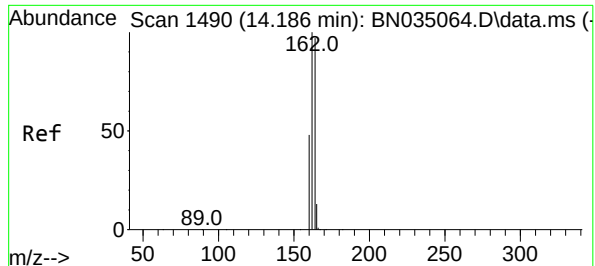
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#12
2-Methylnaphthalene
Concen: 3.176 ng
RT: 11.988 min Scan# 1179
Delta R.T. -0.000 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

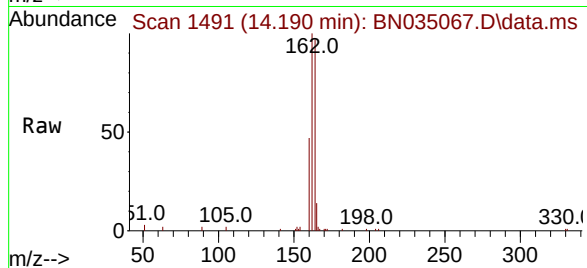
Tgt Ion:142 Resp: 45806
Ion Ratio Lower Upper
142 100
141 89.6 70.1 105.1
115 42.2 34.4 51.6





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.190 min Scan# 1491
Delta R.T. 0.004 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

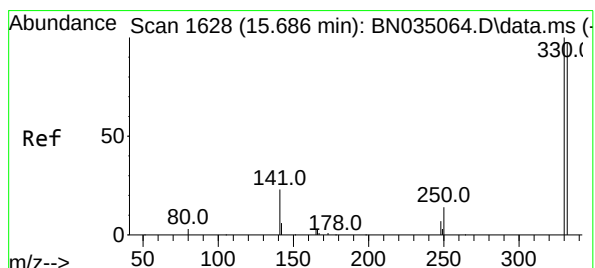
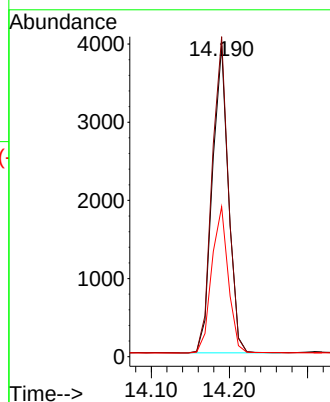
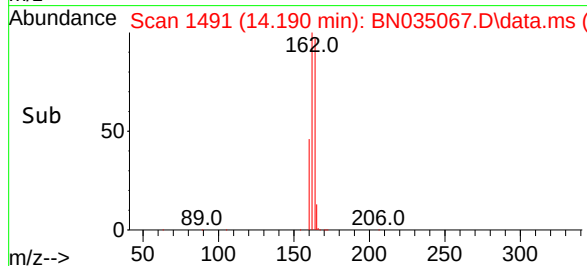
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2



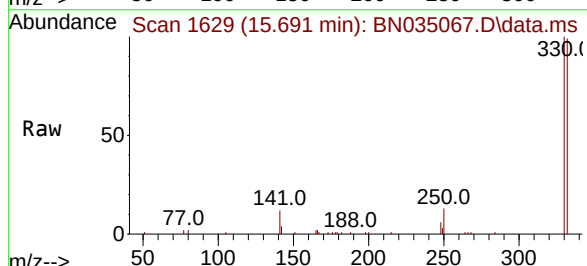
Tgt Ion:164 Resp: 559
Ion Ratio Lower Upper
164 100
162 102.9 82.2 123.2
160 48.2 40.2 60.4

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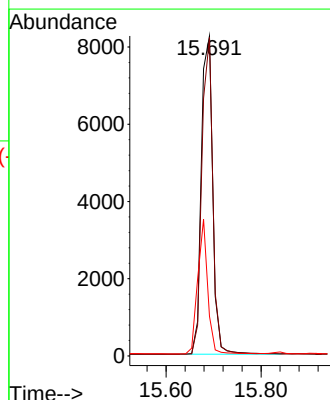
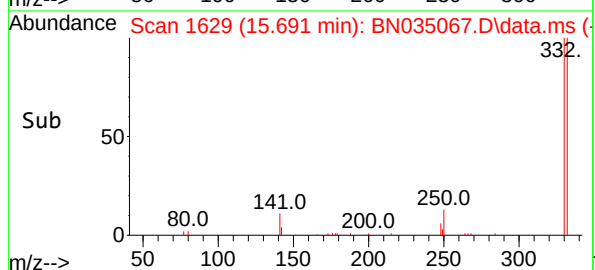
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

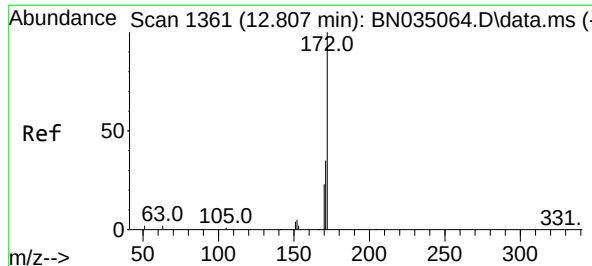


#14
2,4,6-Tribromophenol
Concen: 3.417 ng
RT: 15.691 min Scan# 1629
Delta R.T. 0.005 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39



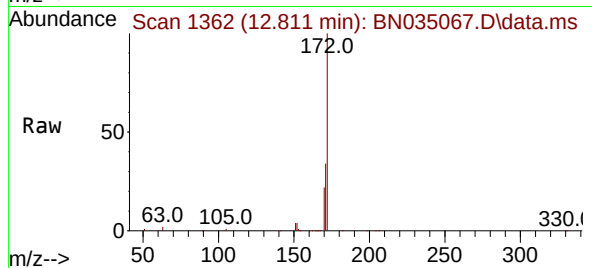
Tgt Ion:330 Resp: 13778
Ion Ratio Lower Upper
330 100
332 95.5 76.9 115.3
141 36.6 29.6 44.4





#15
2-Fluorobiphenyl
Concen: 3.150 ng
RT: 12.811 min Scan# 1361
Delta R.T. 0.004 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

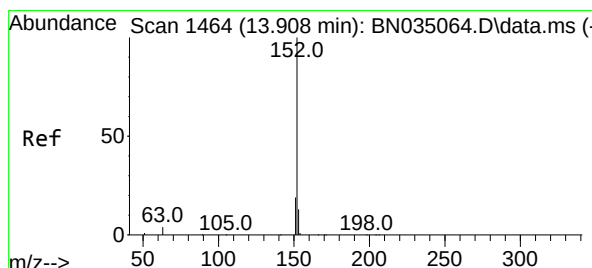
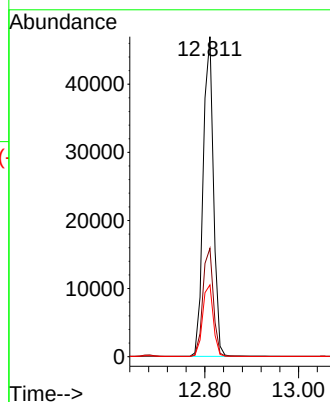
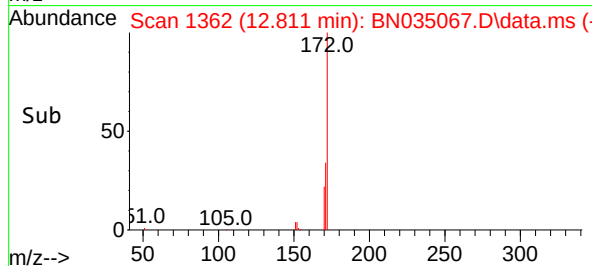
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2



Tgt Ion:172 Resp: 7154
Ion Ratio Lower Upper
172 100
171 33.9 28.2 42.4
170 22.5 19.0 28.6

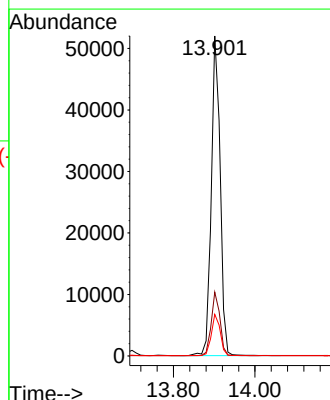
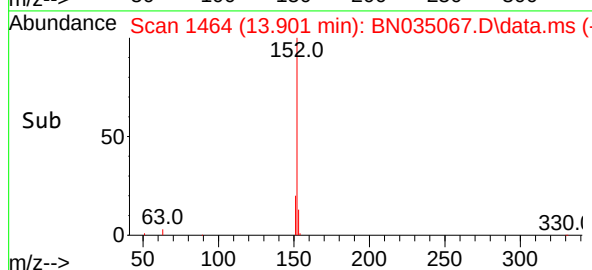
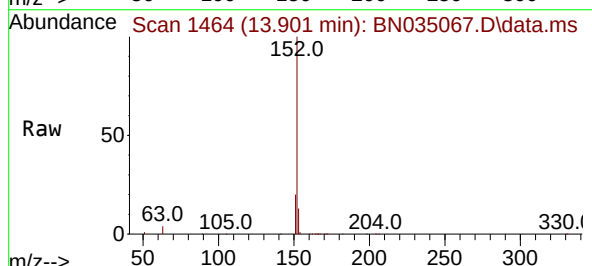
Manual Integrations
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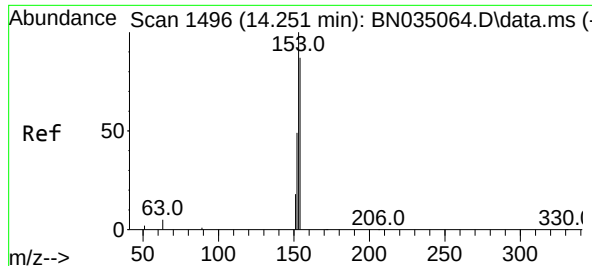
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#16
Acenaphthylene
Concen: 3.286 ng
RT: 13.901 min Scan# 1464
Delta R.T. -0.007 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

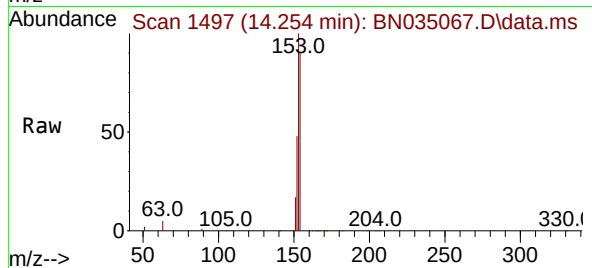
Tgt Ion:152 Resp: 78553
Ion Ratio Lower Upper
152 100
151 19.5 15.8 23.8
153 13.0 10.2 15.4





#17
Acenaphthene
Concen: 3.227 ng
RT: 14.254 min Scan# 1496
Delta R.T. 0.004 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

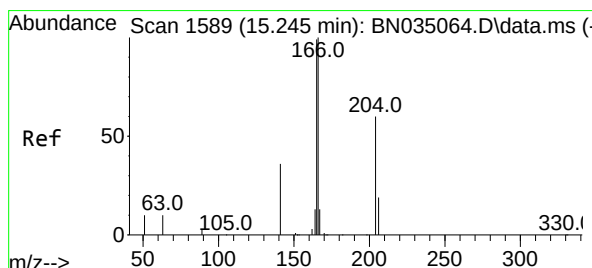
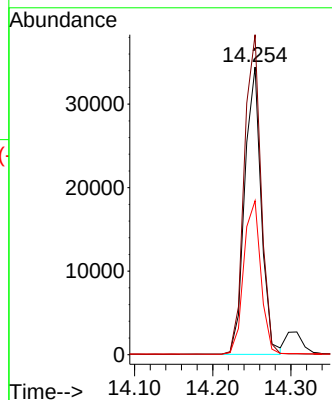
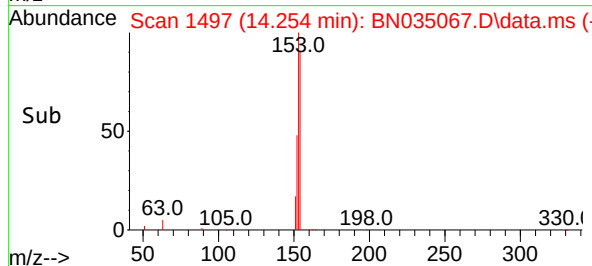
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2



Tgt Ion:154 Resp: 50542
Ion Ratio Lower Upper
154 100
153 112.9 91.6 137.4
152 55.6 45.8 68.6

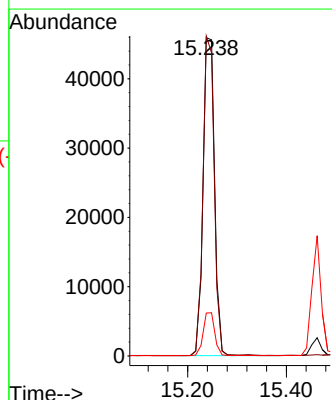
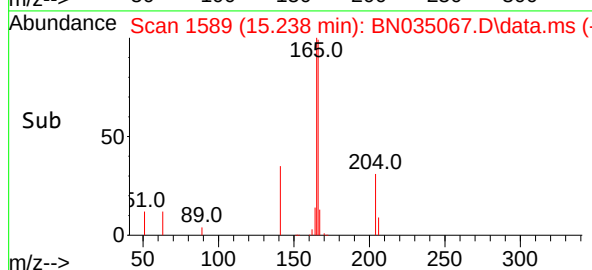
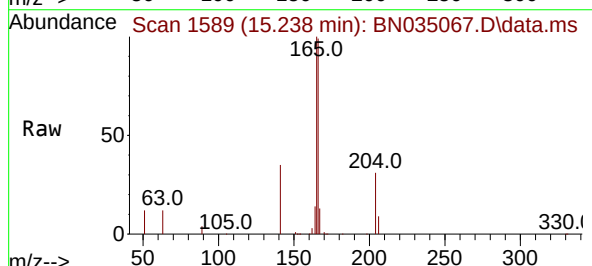
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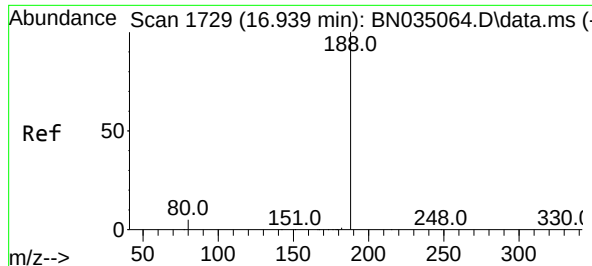
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#18
Fluorene
Concen: 3.215 ng
RT: 15.238 min Scan# 1589
Delta R.T. -0.007 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:166 Resp: 74092
Ion Ratio Lower Upper
166 100
165 97.9 79.1 118.7
167 13.5 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.932 min Scan# 1729

Delta R.T. -0.007 min

Lab File: BN035067.D

Acq: 13 Nov 2024 15:39

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

Tgt Ion:188 Resp: 14864

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

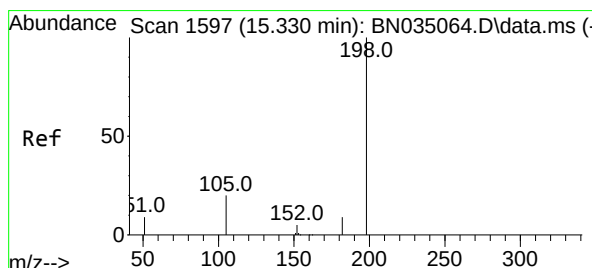
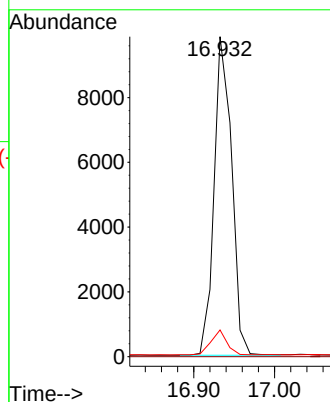
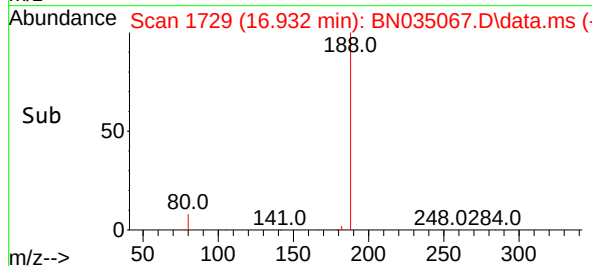
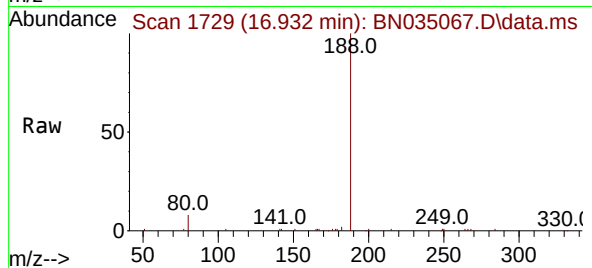
80 8.3 4.3 6.5

Manual Integrations

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Reviewed By :Yogesh Patel 11/14/2024

Supervised By :mohammad ahmed 11/14/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 3.661 ng

RT: 15.323 min Scan# 1597

Delta R.T. -0.007 min

Lab File: BN035067.D

Acq: 13 Nov 2024 15:39

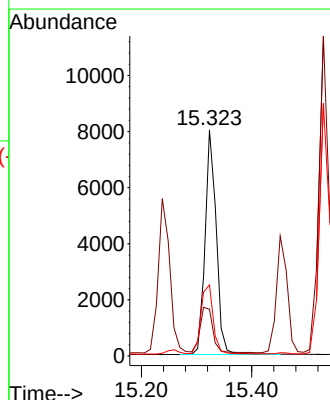
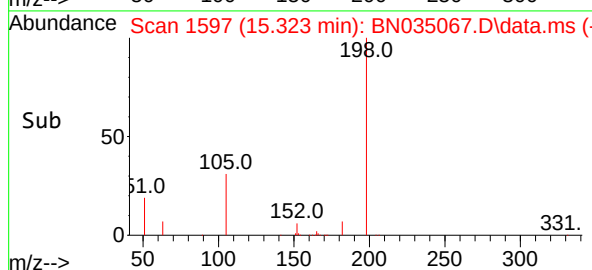
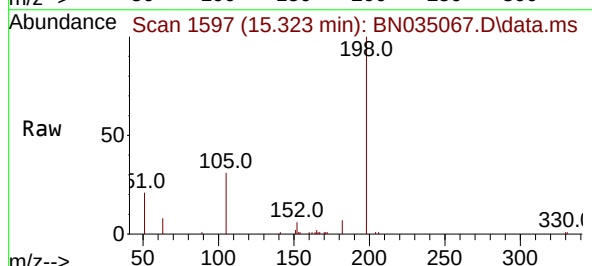
Tgt Ion:198 Resp: 11328

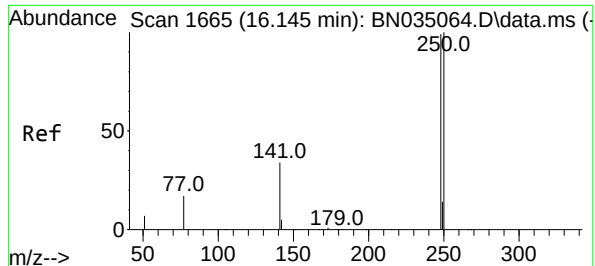
Ion Ratio Lower Upper

198 100

51 20.6 29.9 44.9

105 31.4 23.7 35.5





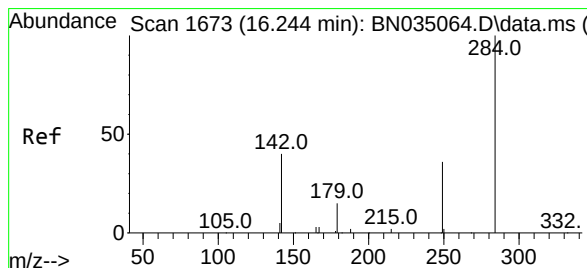
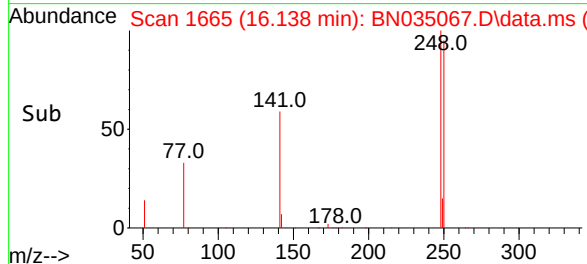
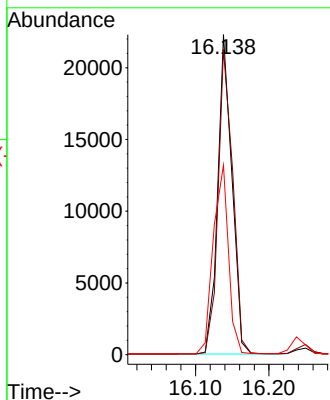
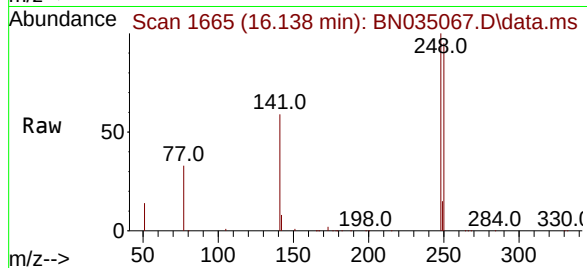
#21
4-Bromophenyl-phenylether
Concen: 3.169 ng
RT: 16.138 min Scan# 1665
Delta R.T. -0.007 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:248 Resp: 3001
Ion Ratio Lower Upper
248 100
250 95.4 81.2 121.8
141 59.2 29.1 43.7

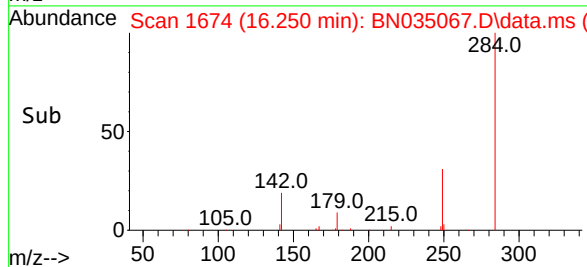
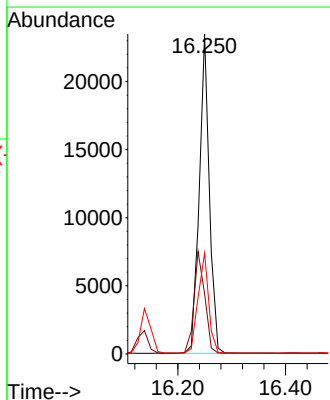
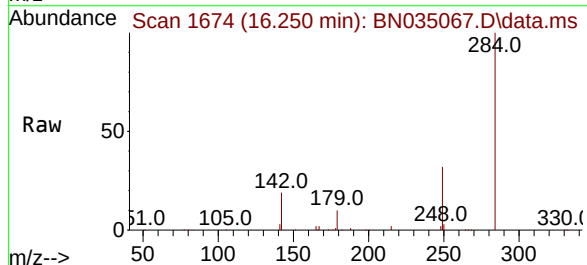
Manual Integrations
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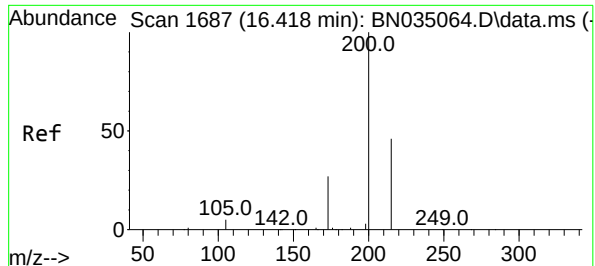
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#22
Hexachlorobenzene
Concen: 3.117 ng
RT: 16.250 min Scan# 1674
Delta R.T. 0.005 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:284 Resp: 30635
Ion Ratio Lower Upper
284 100
142 33.9 28.2 42.4
249 32.8 26.2 39.2





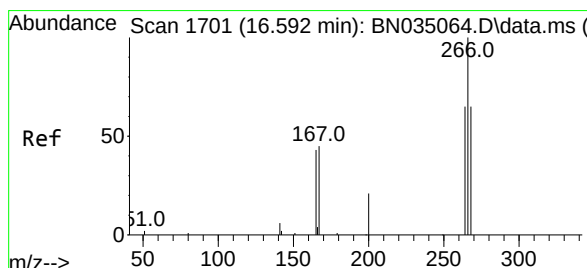
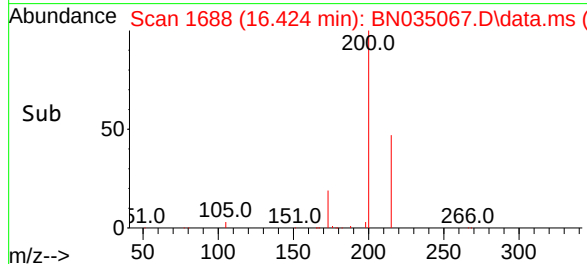
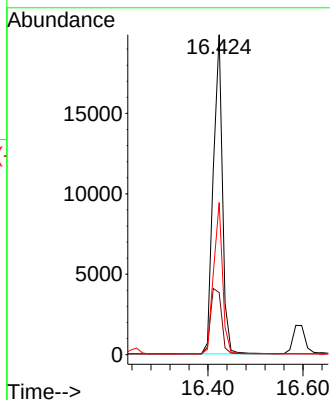
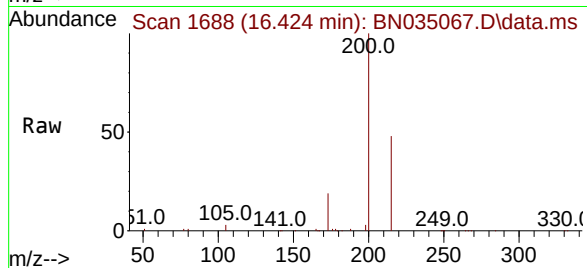
#23
Atrazine
Concen: 3.127 ng
RT: 16.424 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:200 Resp: 2656
Ion Ratio Lower Upper
200 100
173 19.4 22.6 33.8
215 47.5 37.8 56.6

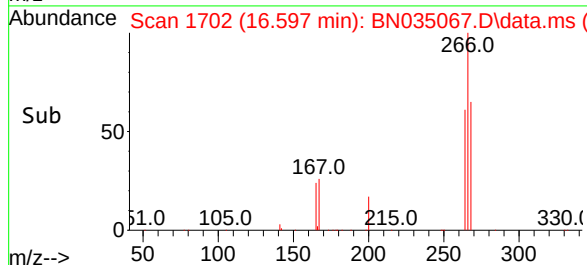
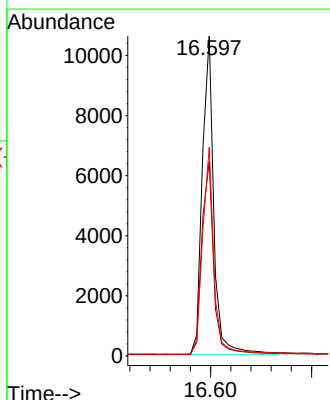
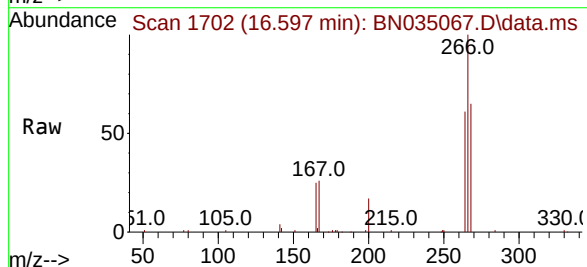
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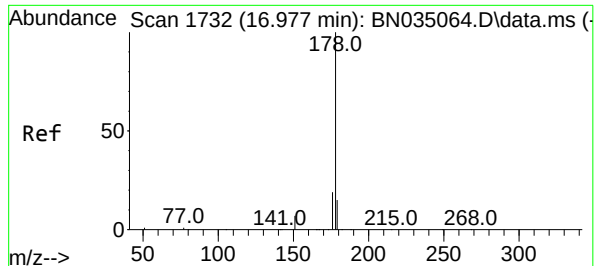
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#24
Pentachlorophenol
Concen: 3.656 ng
RT: 16.597 min Scan# 1702
Delta R.T. 0.005 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:266 Resp: 16789
Ion Ratio Lower Upper
266 100
264 62.8 49.4 74.0
268 64.0 52.6 79.0





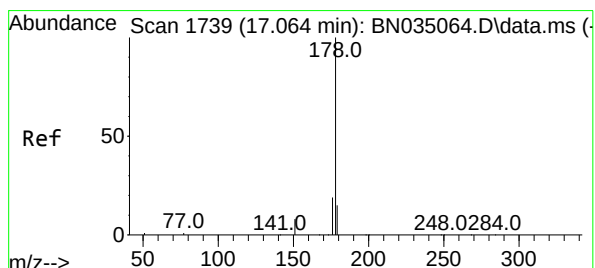
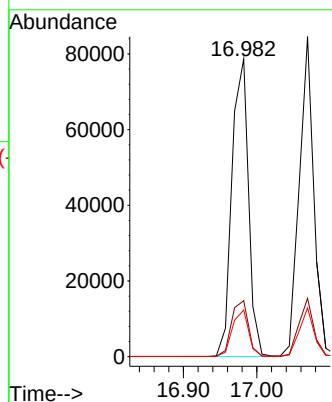
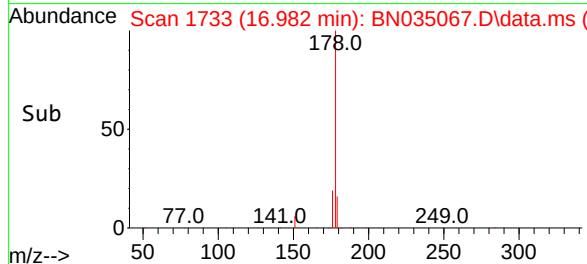
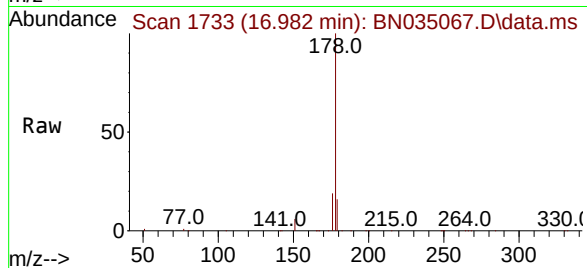
#25
Phenanthrene
Concen: 3.144 ng
RT: 16.982 min Scan# 1733
Delta R.T. 0.005 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:178 Resp: 123000
Ion Ratio Lower Upper
178 100
176 19.2 15.2 22.8
179 15.3 12.6 18.8

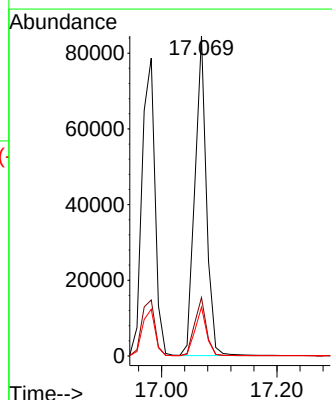
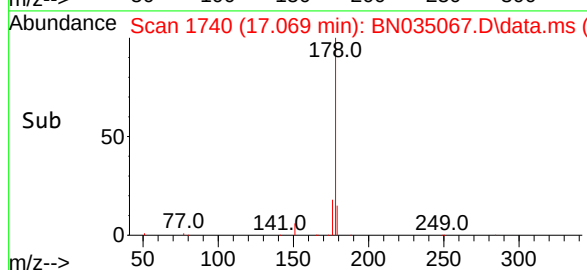
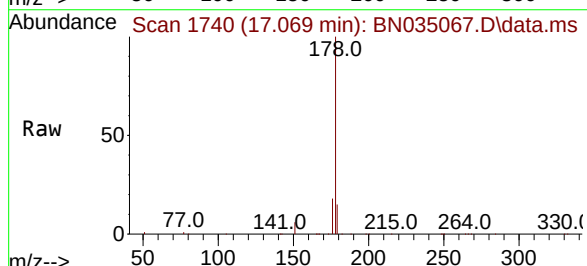
Manual Integrations
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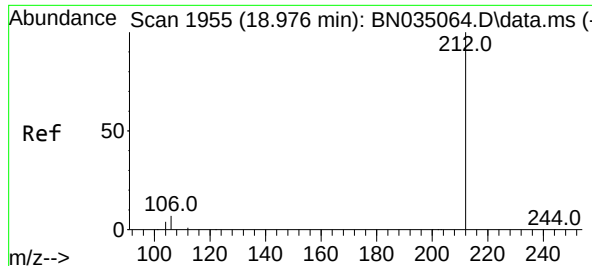
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#26
Anthracene
Concen: 3.265 ng
RT: 17.069 min Scan# 1740
Delta R.T. 0.005 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

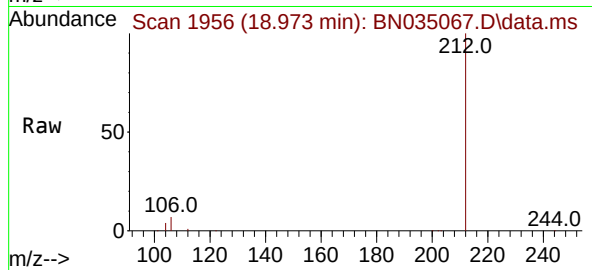
Tgt Ion:178 Resp: 117301
Ion Ratio Lower Upper
178 100
176 18.5 14.6 22.0
179 15.2 12.2 18.2





#27
Fluoranthene-d10
Concen: 3.191 ng
RT: 18.973 min Scan# 1955
Delta R.T. -0.002 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

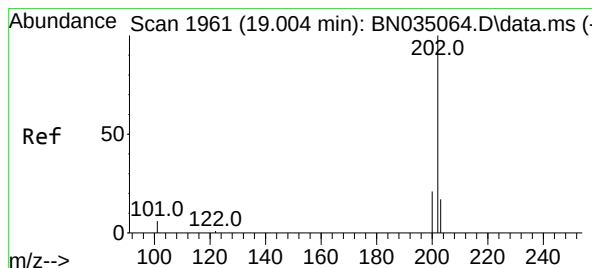
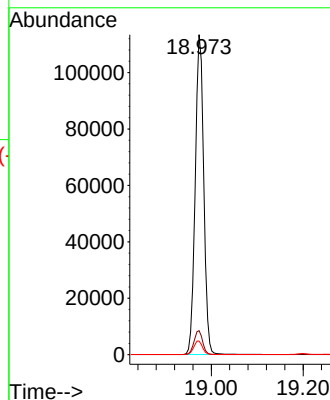
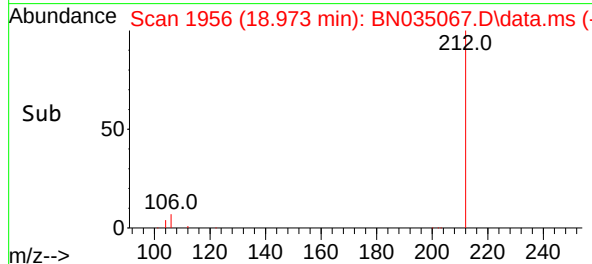
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2



Tgt Ion:212 Resp: 14532
Ion Ratio Lower Upper
212 100
106 7.5 6.0 9.0
104 4.3 3.5 5.3

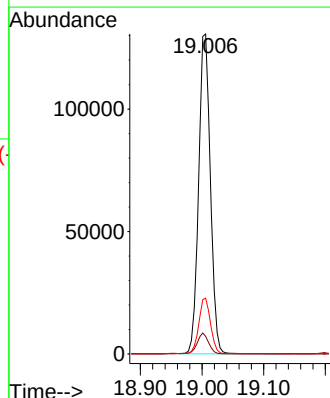
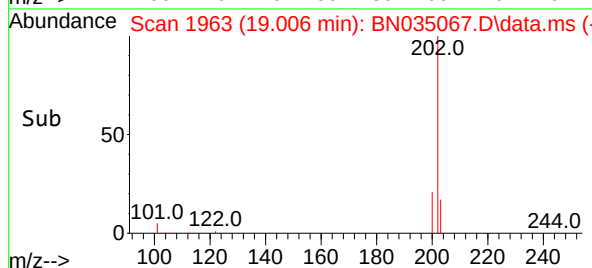
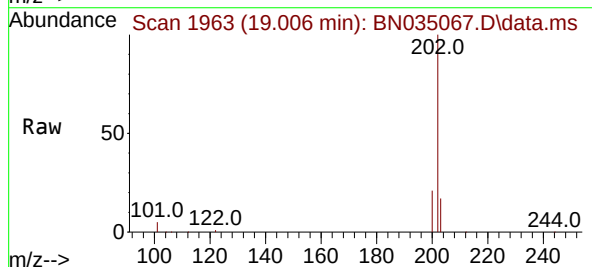
Manual Integrations
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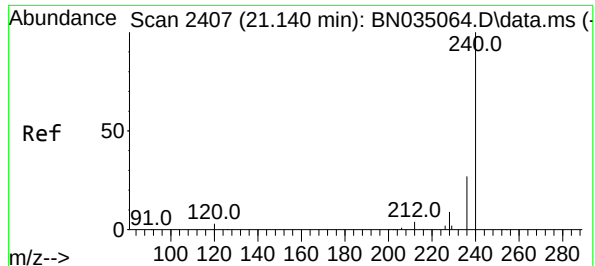
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#28
Fluoranthene
Concen: 3.212 ng
RT: 19.006 min Scan# 1963
Delta R.T. 0.002 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:202 Resp: 172759
Ion Ratio Lower Upper
202 100
101 6.4 5.2 7.8
203 17.3 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.133 min Scan# 2408

Delta R.T. -0.007 min

Lab File: BN035067.D

Acq: 13 Nov 2024 15:39

Instrument :

BNA_N

ClientSampleId :

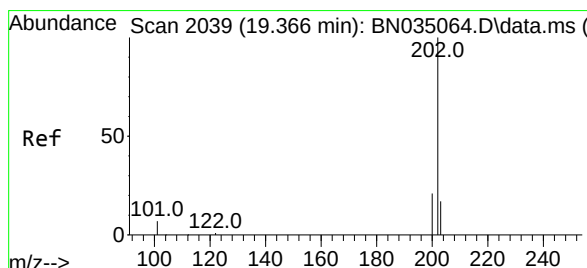
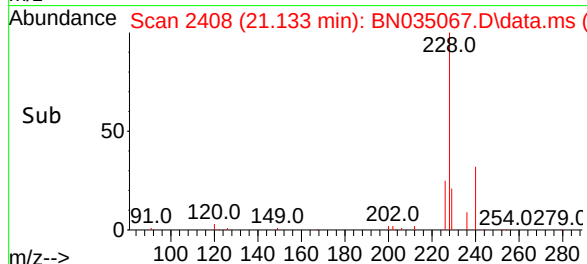
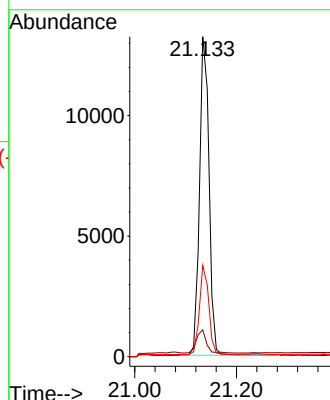
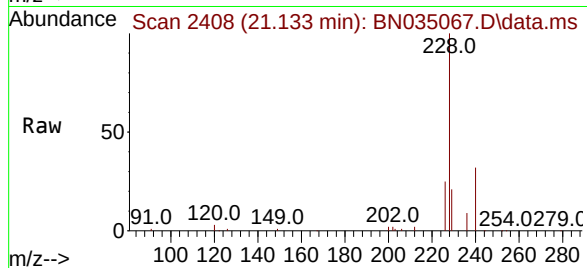
SSTDICC3.2

Tgt Ion:	240	Resp:	17090
Ion Ratio	Lower	Upper	
240	100		
120	8.4	3.8	5.6
236	28.5	22.2	33.2

Manual Integrations

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Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#30

Pyrene

Concen: 3.125 ng

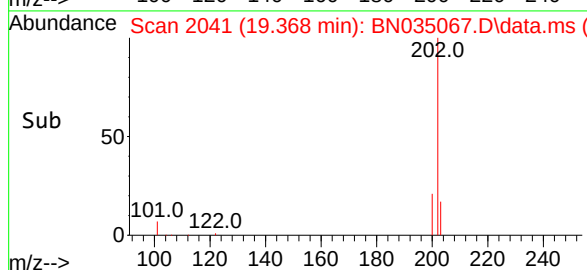
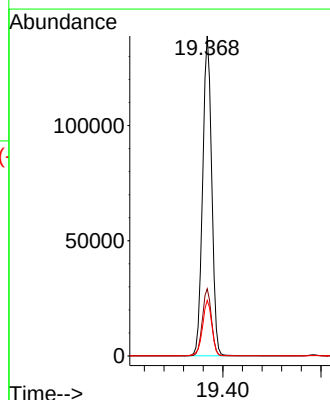
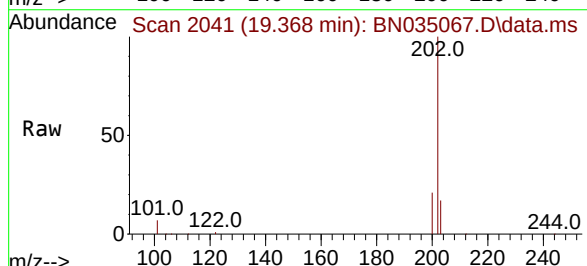
RT: 19.368 min Scan# 2041

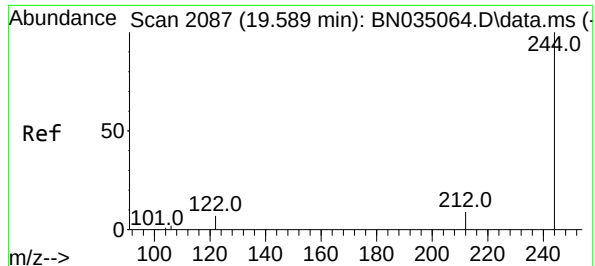
Delta R.T. 0.002 min

Lab File: BN035067.D

Acq: 13 Nov 2024 15:39

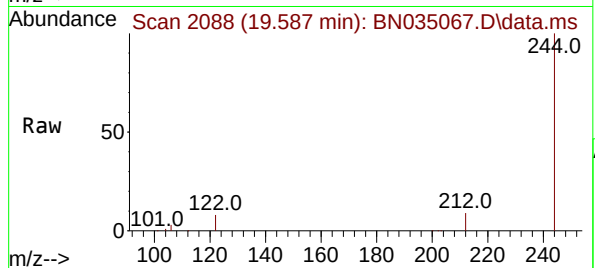
Tgt Ion:	202	Resp:	177937
Ion Ratio	Lower	Upper	
202	100		
200	21.0	16.7	25.1
203	17.8	14.2	21.4





#31
Terphenyl-d14
Concen: 3.115 ng
RT: 19.587 min Scan# 2087
Delta R.T. -0.002 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

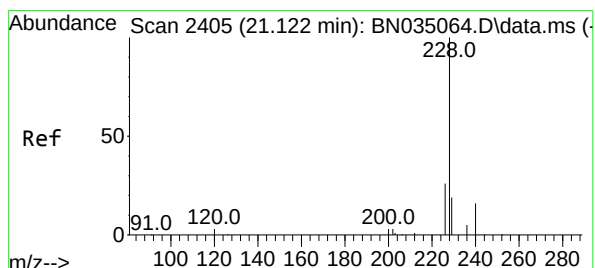
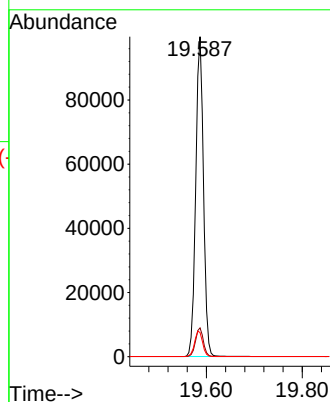
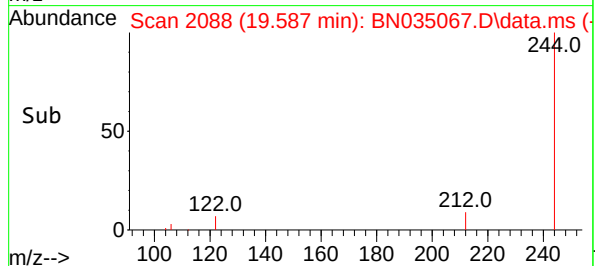
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2



Tgt Ion:244 Resp: 111732
Ion Ratio Lower Upper
244 100
212 9.0 7.6 11.4
122 7.6 6.1 9.1

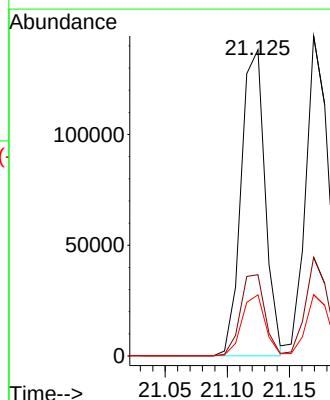
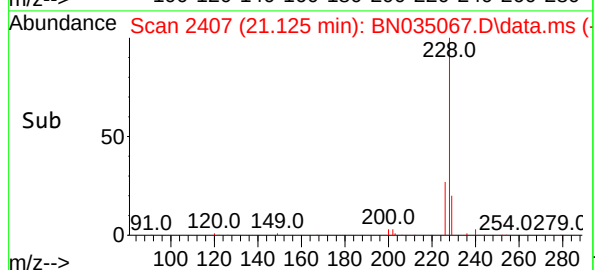
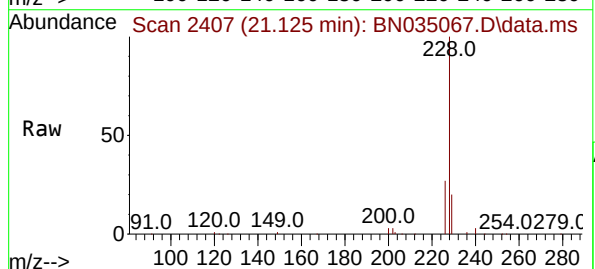
Manual Integrations
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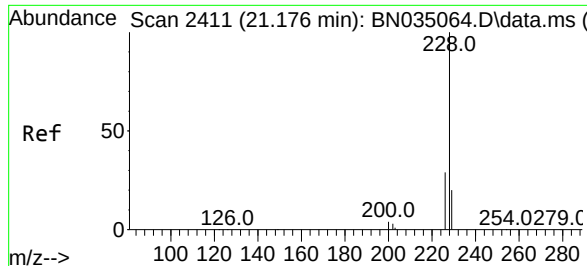
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#32
Benzo(a)anthracene
Concen: 3.114 ng
RT: 21.125 min Scan# 2407
Delta R.T. 0.002 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:228 Resp: 185345
Ion Ratio Lower Upper
228 100
226 26.5 21.4 32.0
229 20.0 15.7 23.5





#33

Chrysene

Concen: 3.087 ng

RT: 21.169 min Scan# 2411

Delta R.T. -0.007 min

Lab File: BN035067.D

Acq: 13 Nov 2024 15:39

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

Tgt Ion:228 Resp: 18205

Ion Ratio Lower Upper

228 100

226 30.9 23.7 35.5

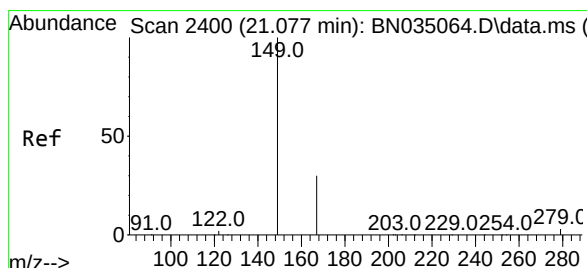
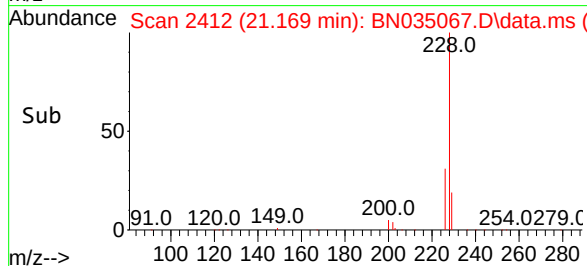
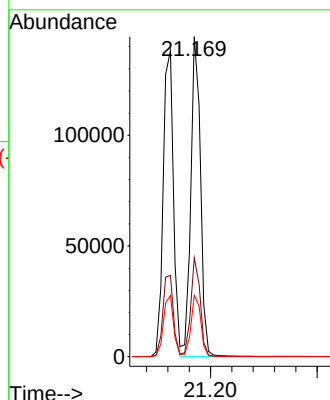
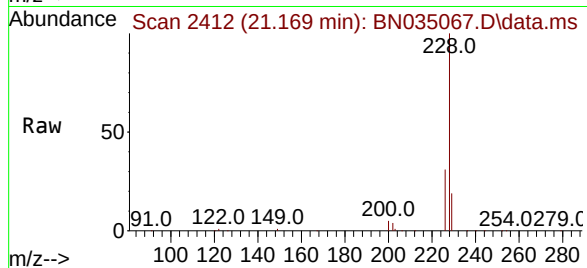
229 19.1 16.2 24.4

Manual Integrations

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Reviewed By :Yogesh Patel 11/14/2024

Supervised By :mohammad ahmed 11/14/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 3.061 ng

RT: 21.080 min Scan# 2402

Delta R.T. 0.002 min

Lab File: BN035067.D

Acq: 13 Nov 2024 15:39

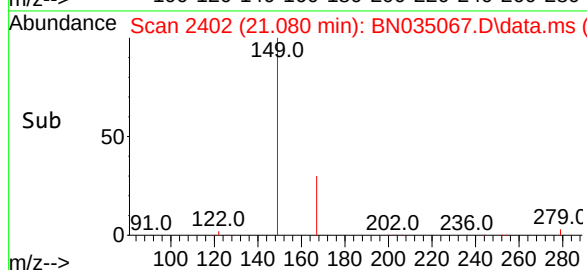
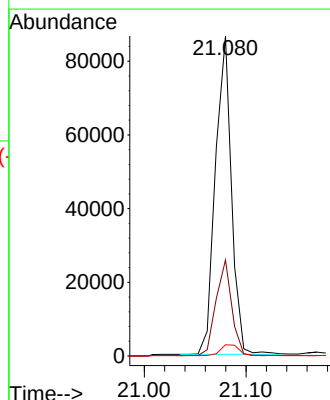
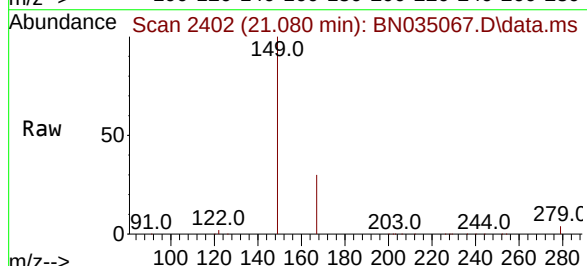
Tgt Ion:149 Resp: 94826

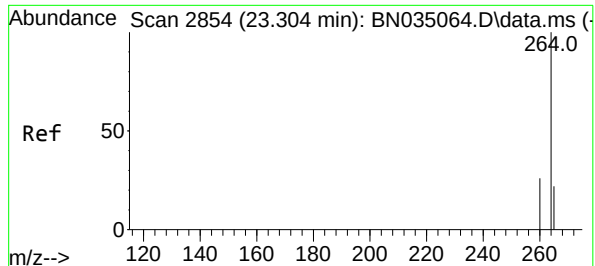
Ion Ratio Lower Upper

149 100

167 29.3 23.2 34.8

279 3.9 3.2 4.8





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.303 min Scan# 21

Delta R.T. -0.001 min

Lab File: BN035067.D

Acq: 13 Nov 2024 15:39

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

Tgt Ion:264 Resp: 1858

Ion Ratio Lower Upper

264 100

260 25.5 20.9 31.3

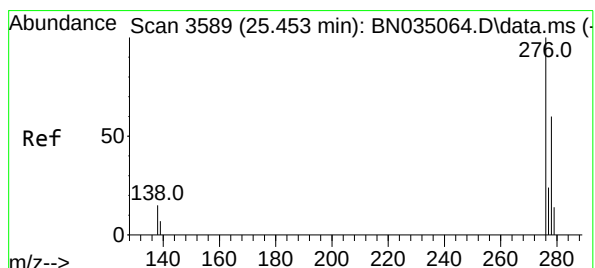
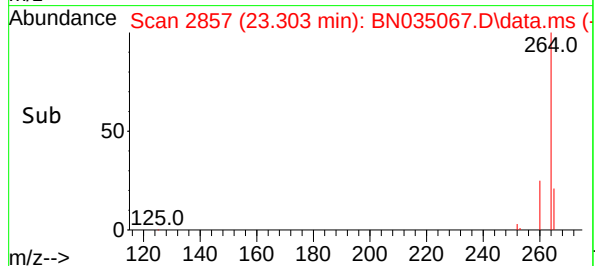
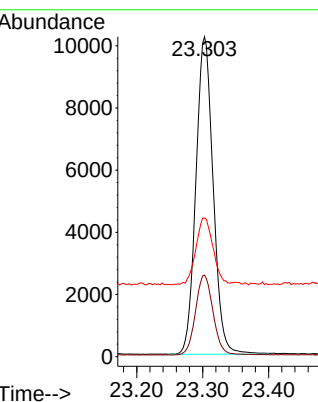
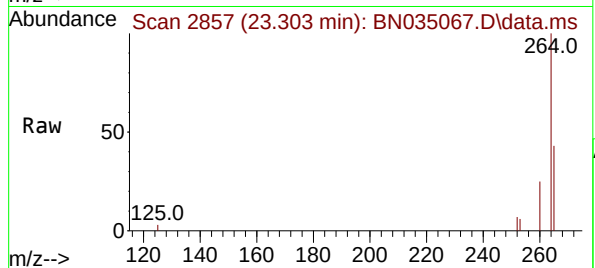
265 43.4 35.4 53.2

Manual Integrations

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Reviewed By :Yogesh Patel 11/14/2024

Supervised By :mohammad ahmed 11/14/2024



#36

Indeno(1,2,3-cd)pyrene

Concen: 3.108 ng

RT: 25.455 min Scan# 3593

Delta R.T. 0.002 min

Lab File: BN035067.D

Acq: 13 Nov 2024 15:39

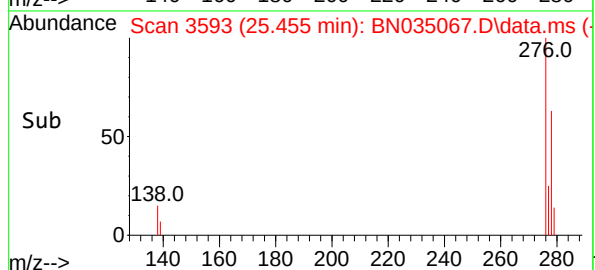
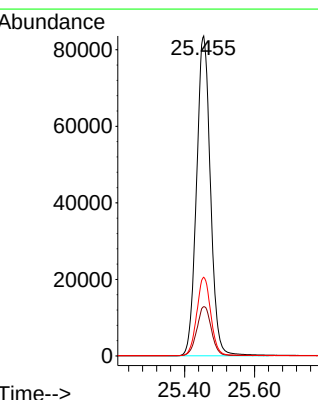
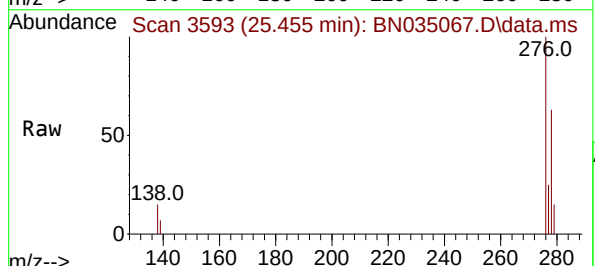
Tgt Ion:276 Resp: 230419

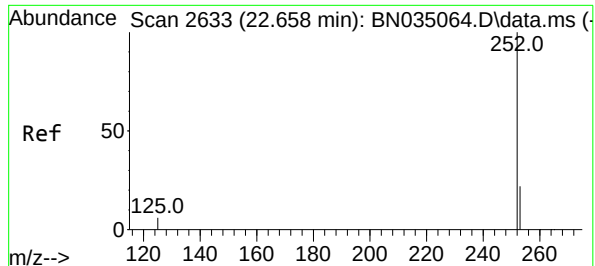
Ion Ratio Lower Upper

276 100

138 16.0 13.0 19.4

277 24.8 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 3.155 ng m

RT: 22.660 min Scan# 2637

Delta R.T. 0.002 min

Lab File: BN035067.D

Acq: 13 Nov 2024 15:39

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

Tgt Ion:252 Resp: 197259

Ion Ratio Lower Upper

252 100

253 22.0 19.3 28.9

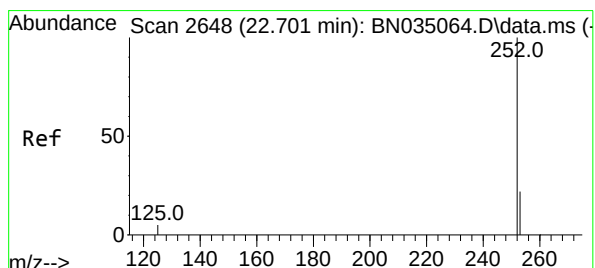
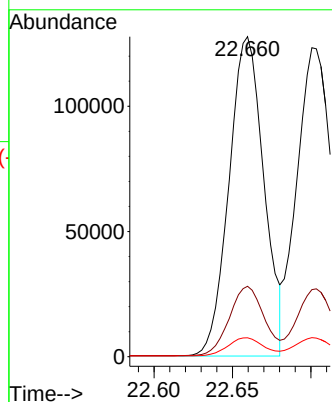
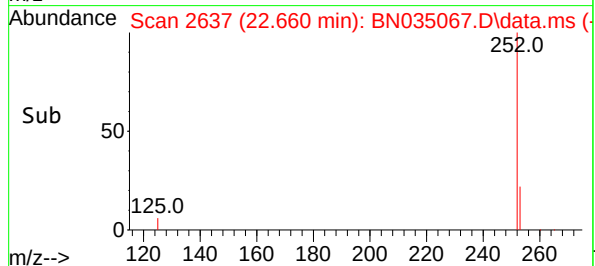
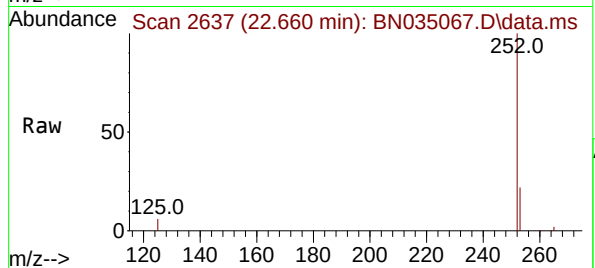
125 5.9 6.2 9.2

Manual Integrations

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Reviewed By :Yogesh Patel 11/14/2024

Supervised By :mohammad ahmed 11/14/2024



#38

Benzo(k)fluoranthene

Concen: 3.144 ng

RT: 22.701 min Scan# 2651

Delta R.T. -0.001 min

Lab File: BN035067.D

Acq: 13 Nov 2024 15:39

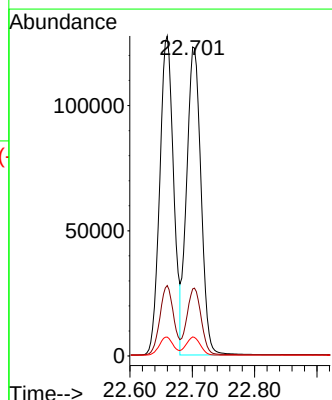
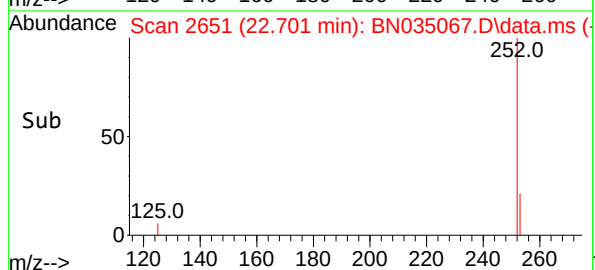
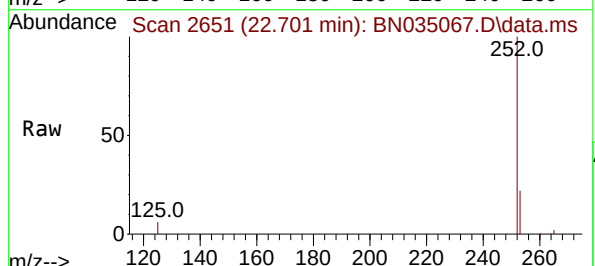
Tgt Ion:252 Resp: 196686

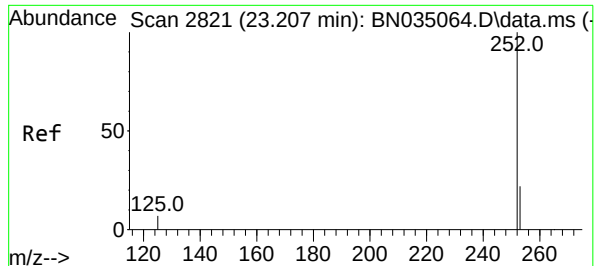
Ion Ratio Lower Upper

252 100

253 21.7 19.5 29.3

125 6.2 6.5 9.7





#39

Benzo(a)pyrene

Concen: 3.155 ng

RT: 23.209 min Scan# 2821

Delta R.T. 0.002 min

Lab File: BN035067.D

Acq: 13 Nov 2024 15:39

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

Tgt Ion:252 Resp: 17354

Ion Ratio Lower Upper

252 100

253 22.0 20.1 30.1

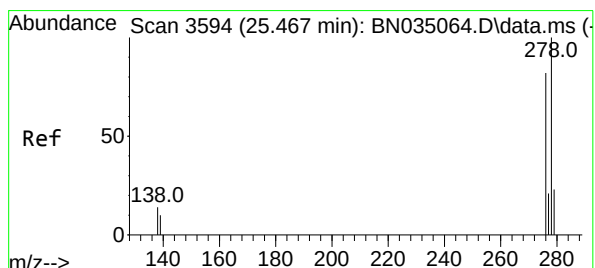
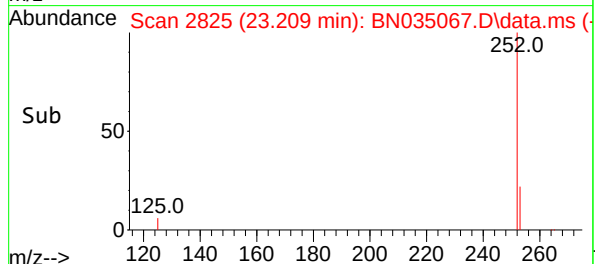
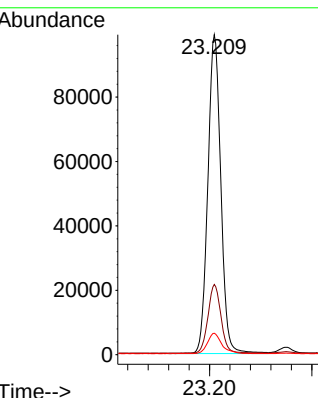
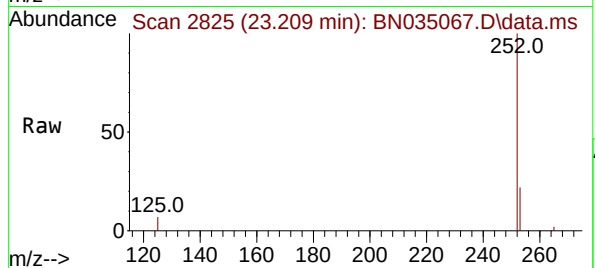
125 6.7 7.5 11.3

Manual Integrations

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Reviewed By :Yogesh Patel 11/14/2024

Supervised By :mohammad ahmed 11/14/2024



#40

Dibenzo(a,h)anthracene

Concen: 3.127 ng

RT: 25.466 min Scan# 3597

Delta R.T. -0.001 min

Lab File: BN035067.D

Acq: 13 Nov 2024 15:39

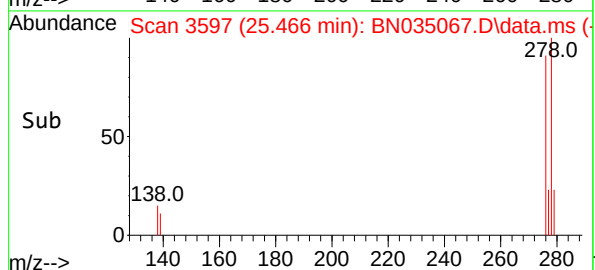
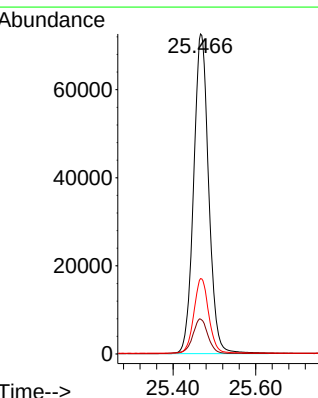
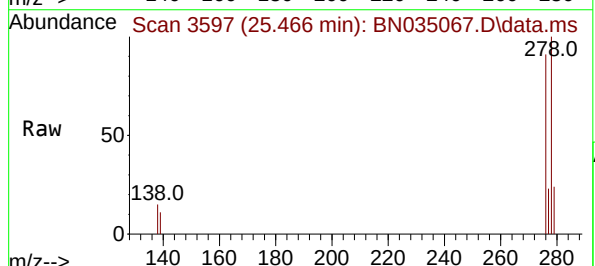
Tgt Ion:278 Resp: 183641

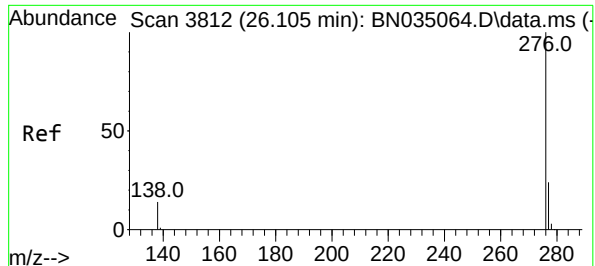
Ion Ratio Lower Upper

278 100

139 10.9 9.3 13.9

279 23.6 19.7 29.5





#41

Benzo(g,h,i)perylene

Concen: 3.079 ng

RT: 26.107 min Scan# 3812

Delta R.T. 0.002 min

Lab File: BN035067.D

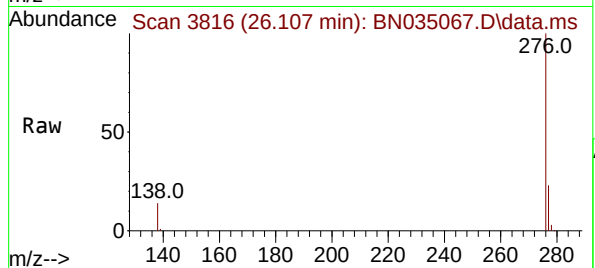
Acq: 13 Nov 2024 15:39

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



Tgt Ion:276 Resp: 19234

Ion Ratio Lower Upper

276 100

277 23.4 19.9 29.9

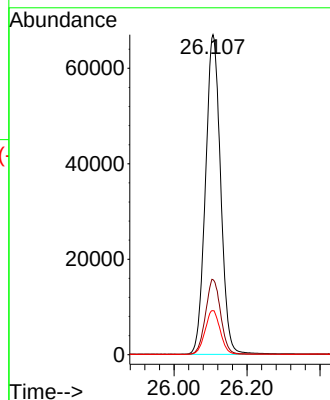
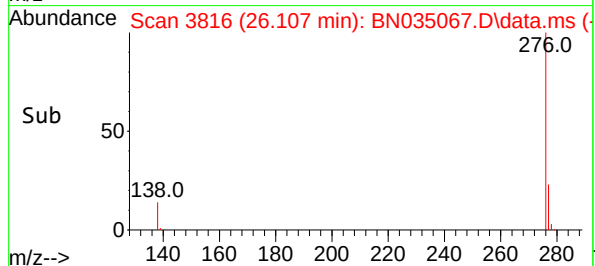
138 13.8 11.6 17.4

Manual Integrations

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Reviewed By :Yogesh Patel 11/14/2024

Supervised By :mohammad ahmed 11/14/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
 Data File : BN035068.D
 Acq On : 13 Nov 2024 16:15
 Operator : RC/JU
 Sample : SSTDICC5.0
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC5.0

Quant Time: Nov 13 16:45:39 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 16:42:01 2024
 Response via : Initial Calibration

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

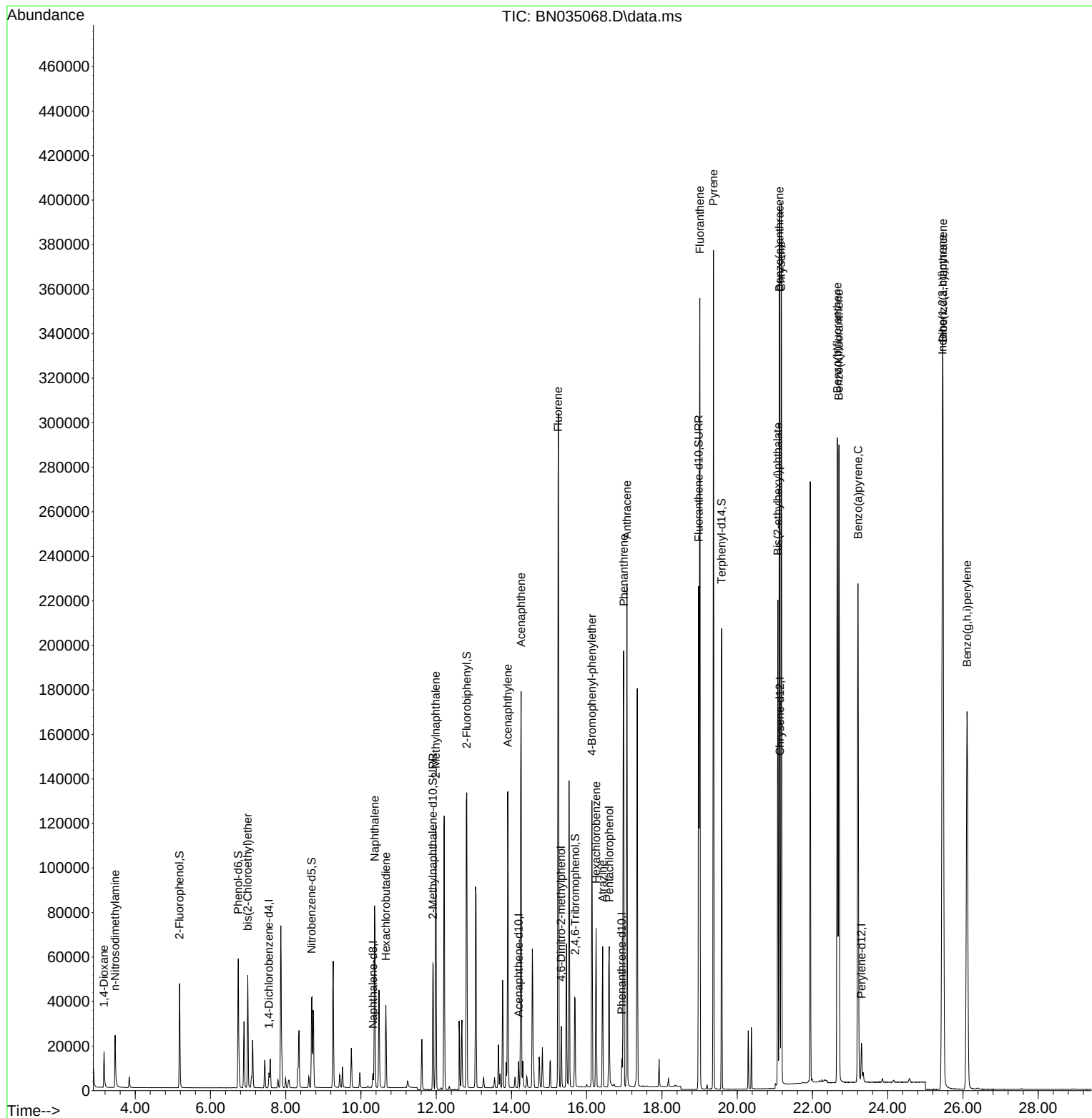
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.553	152	3163	0.400	ng	0.00
7) Naphthalene-d8	10.319	136	8134	0.400	ng	0.00
13) Acenaphthene-d10	14.190	164	6225	0.400	ng	0.00
19) Phenanthrene-d10	16.932	188	16809	0.400	ng	# 0.00
29) Chrysene-d12	21.133	240	19216	0.400	ng	# 0.00
35) Perylene-d12	23.303	264	20465	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	37993	4.732	ng	0.00
5) Phenol-d6	6.737	99	50689	5.035	ng	0.00
8) Nitrobenzene-d5	8.685	82	35941	5.091	ng	-0.01
11) 2-Methylnaphthalene-d10	11.912	152	74330	5.128	ng	0.00
14) 2,4,6-Tribromophenol	15.691	330	25763	5.740	ng	0.00
15) 2-Fluorobiphenyl	12.811	172	125581	4.967	ng	0.00
27) Fluoranthene-d10	18.973	212	260540	5.059	ng	0.00
31) Terphenyl-d14	19.587	244	199585	4.950	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.169	88	13024	4.533	ng	99
3) n-Nitrosodimethylamine	3.465	42	12737	4.774	ng	# 94
6) bis(2-Chloroethyl)ether	6.990	93	36728	4.860	ng	99
9) Naphthalene	10.361	128	104370	4.914	ng	97
10) Hexachlorobutadiene	10.660	225	29615	4.757	ng	# 99
12) 2-Methylnaphthalene	11.988	142	80182	5.118	ng	98
16) Acenaphthylene	13.901	152	139668	5.250	ng	100
17) Acenaphthene	14.254	154	89181	5.115	ng	98
18) Fluorene	15.238	166	129071	5.033	ng	99
20) 4,6-Dinitro-2-methylph...	15.323	198	22059	6.304	ng	# 82
21) 4-Bromophenyl-phenylether	16.138	248	52850	4.935	ng	# 85
22) Hexachlorobenzene	16.250	284	54126	4.870	ng	99
23) Atrazine	16.423	200	47349	4.928	ng	# 93
24) Pentachlorophenol	16.597	266	32339	6.228	ng	98
25) Phenanthrene	16.982	178	217781	4.923	ng	99
26) Anthracene	17.069	178	210303	5.176	ng	100
28) Fluoranthene	19.006	202	305283	5.019	ng	100
30) Pyrene	19.368	202	316225	4.942	ng	100
32) Benzo(a)anthracene	21.124	228	335437	5.013	ng	100
33) Chrysene	21.169	228	317200	4.786	ng	97
34) Bis(2-ethylhexyl)phtha...	21.080	149	178320	5.121	ng	99
36) Indeno(1,2,3-cd)pyrene	25.455	276	405401	4.966	ng	100
37) Benzo(b)fluoranthene	22.660	252	347639	5.049	ng	# 95
38) Benzo(k)fluoranthene	22.703	252	347310	5.041	ng	# 95
39) Benzo(a)pyrene	23.209	252	308664	5.094	ng	# 93
40) Dibenzo(a,h)anthracene	25.469	278	323522	5.002	ng	98
41) Benzo(g,h,i)perylene	26.107	276	339655	4.937	ng	98

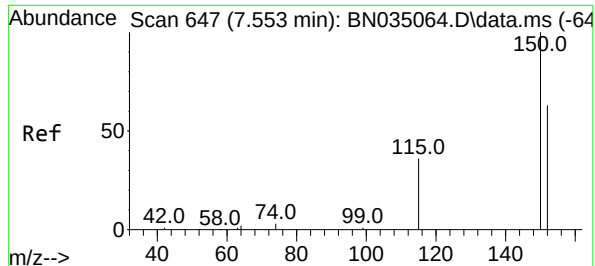
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
 Data File : BN035068.D
 Acq On : 13 Nov 2024 16:15
 Operator : RC/JU
 Sample : SSTDICC5.0
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC5.0

Quant Time: Nov 13 16:45:39 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 16:42:01 2024
 Response via : Initial Calibration

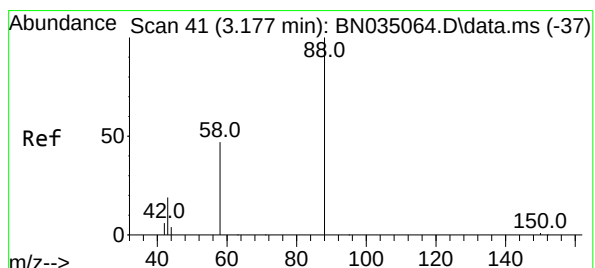
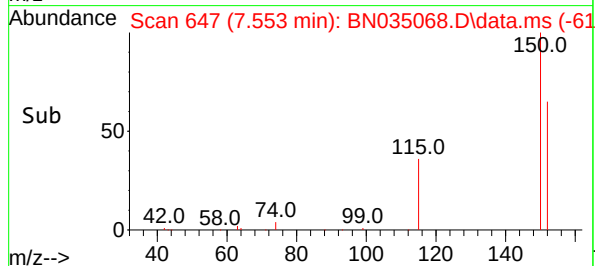
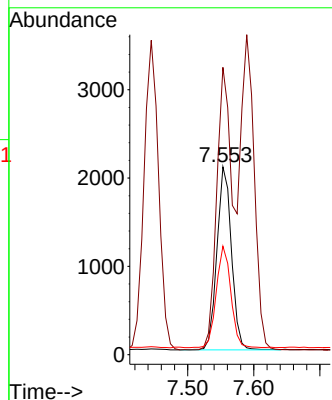
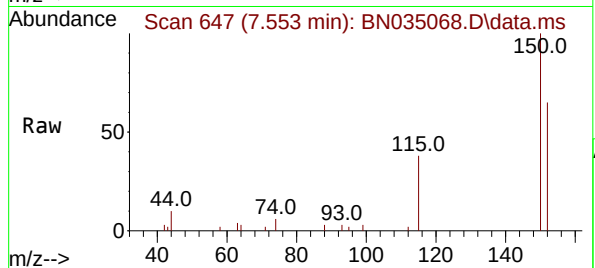




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.553 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

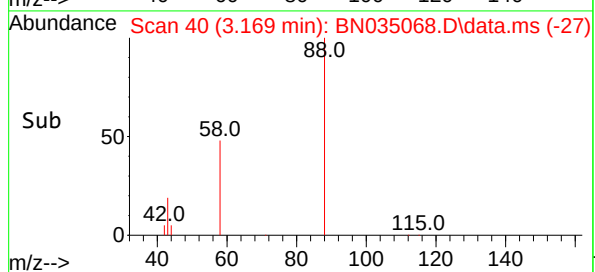
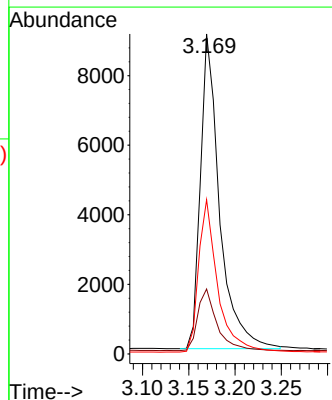
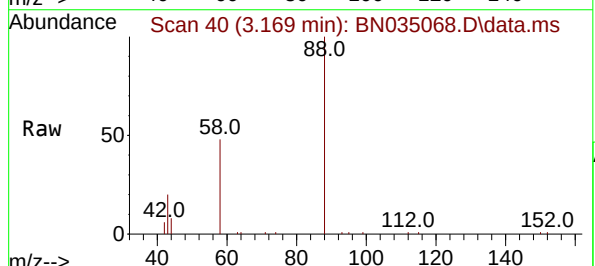
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

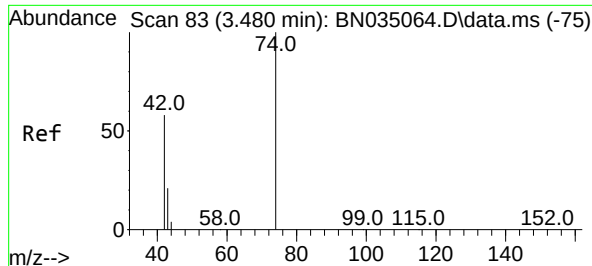
Tgt Ion:152 Resp: 3163
Ion Ratio Lower Upper
152 100
150 152.9 124.5 186.7
115 57.7 47.8 71.6



#2
1,4-Dioxane
Concen: 4.533 ng
RT: 3.169 min Scan# 40
Delta R.T. -0.007 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Tgt Ion: 88 Resp: 13024
Ion Ratio Lower Upper
88 100
43 19.6 16.9 25.3
58 48.2 39.0 58.4

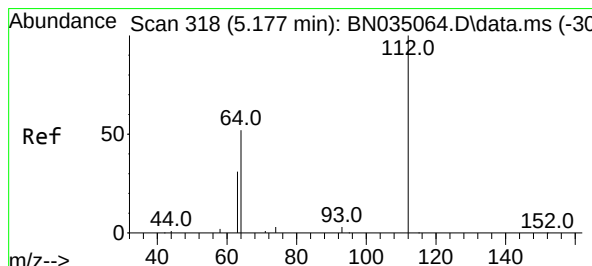
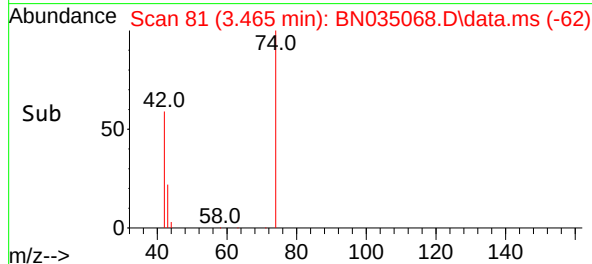
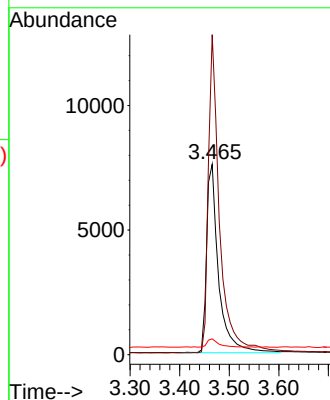
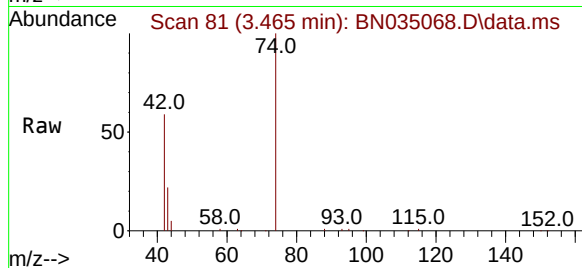




#3
n-Nitrosodimethylamine
Concen: 4.774 ng
RT: 3.465 min Scan# 81
Delta R.T. -0.015 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

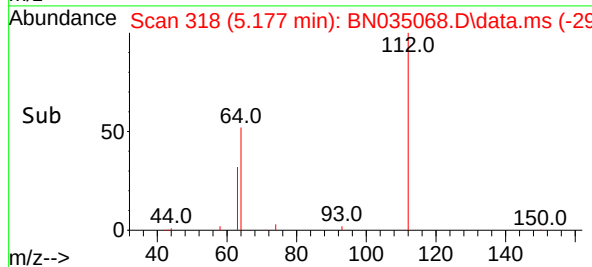
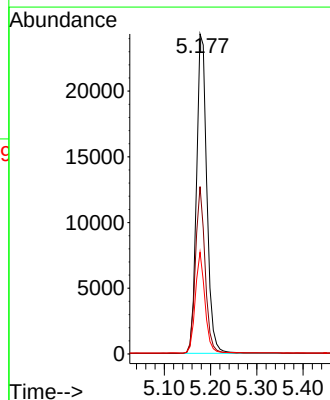
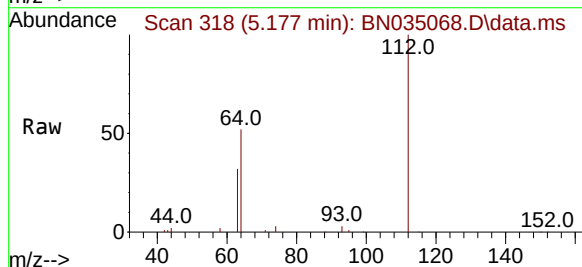
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

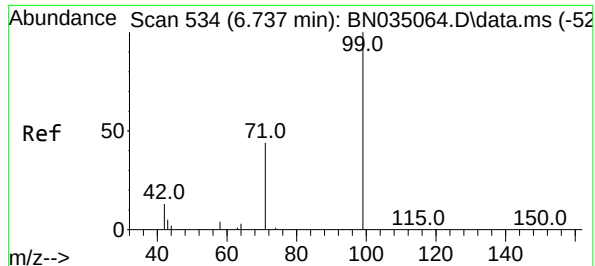
Tgt Ion: 42 Resp: 12737
Ion Ratio Lower Upper
42 100
74 159.1 120.8 181.2
44 4.4 2.9 4.3#



#4
2-Fluorophenol
Concen: 4.732 ng
RT: 5.177 min Scan# 318
Delta R.T. -0.000 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Tgt Ion: 112 Resp: 37993
Ion Ratio Lower Upper
112 100
64 49.0 39.7 59.5
63 29.4 23.0 34.4

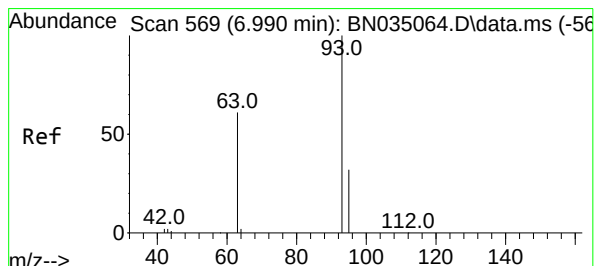
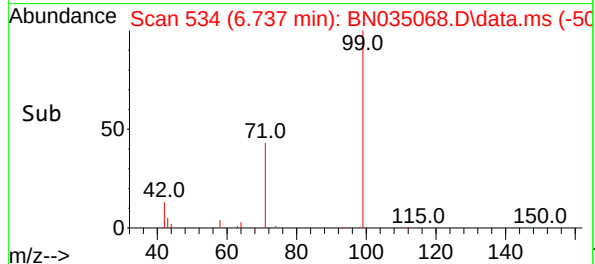
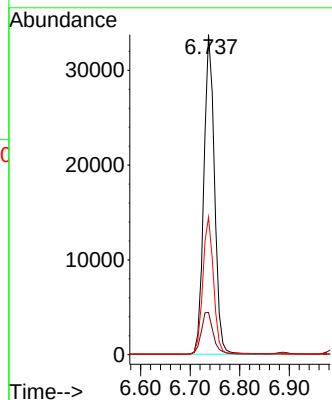
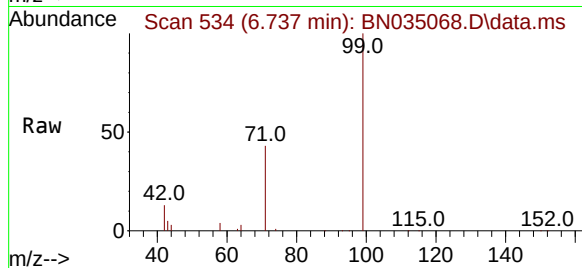




#5
Phenol-d6
Concen: 5.035 ng
RT: 6.737 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

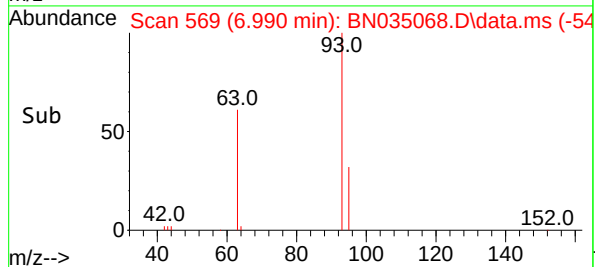
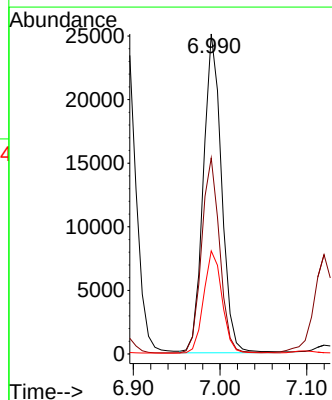
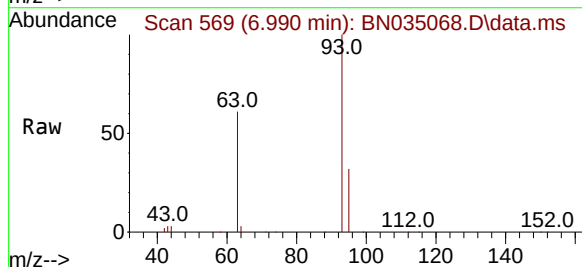
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

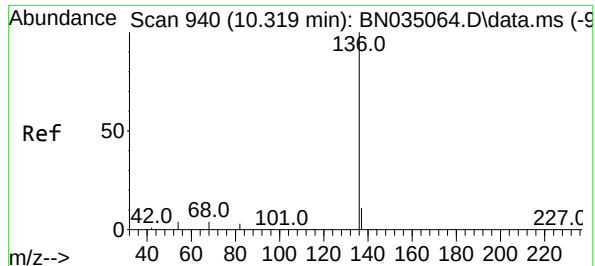
Tgt Ion: 99 Resp: 50689
Ion Ratio Lower Upper
99 100
42 14.6 11.4 17.0
71 43.2 34.6 51.8



#6
bis(2-Chloroethyl)ether
Concen: 4.860 ng
RT: 6.990 min Scan# 569
Delta R.T. -0.000 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Tgt Ion: 93 Resp: 36728
Ion Ratio Lower Upper
93 100
63 60.5 47.4 71.2
95 32.3 26.2 39.4

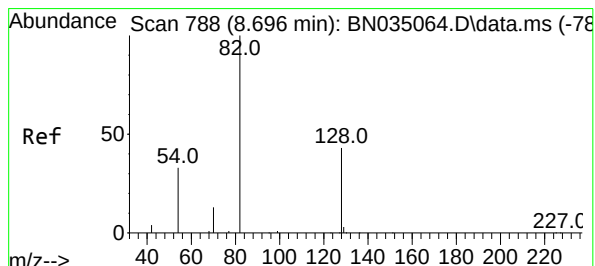
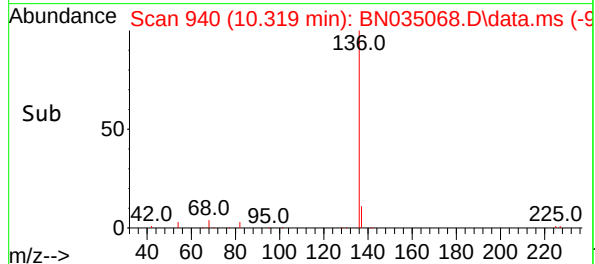
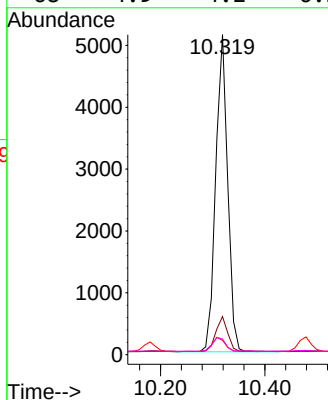
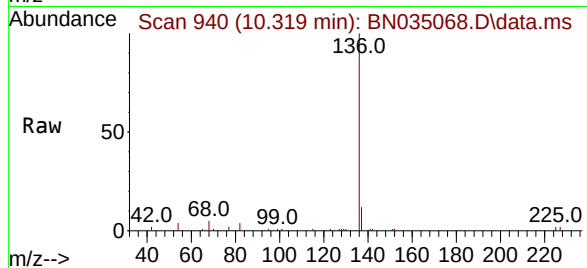




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.319 min Scan# 940
Delta R.T. -0.000 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

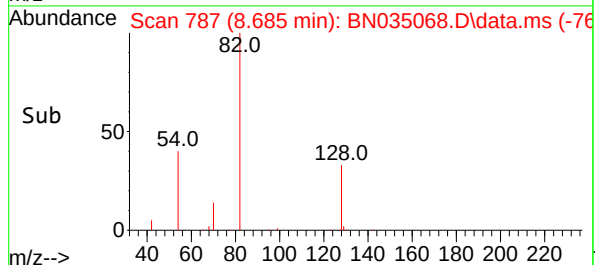
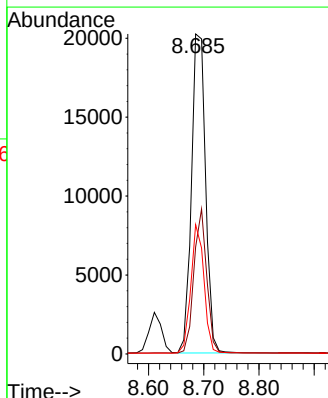
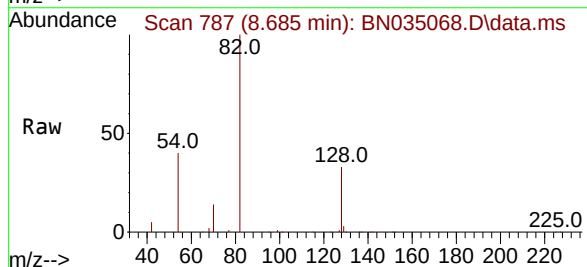
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

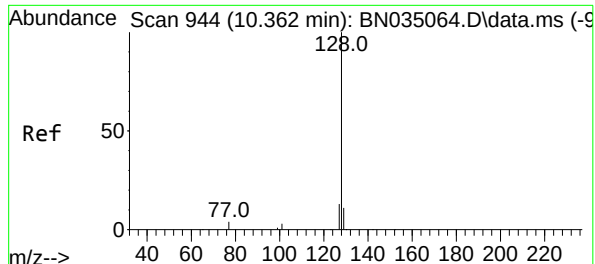
Tgt Ion:	136	Resp:	8134
Ion	Ratio	Lower	Upper
136	100		
137	11.9	9.8	14.8
54	4.4	4.0	6.0
68	4.9	4.2	6.2



#8
Nitrobenzene-d5
Concen: 5.091 ng
RT: 8.685 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Tgt Ion:	82	Resp:	35941
Ion	Ratio	Lower	Upper
82	100		
128	33.5	36.5	54.7#
54	40.4	28.7	43.1

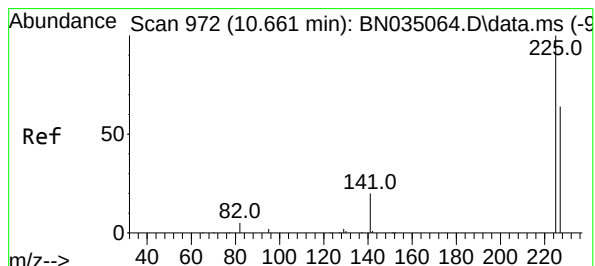
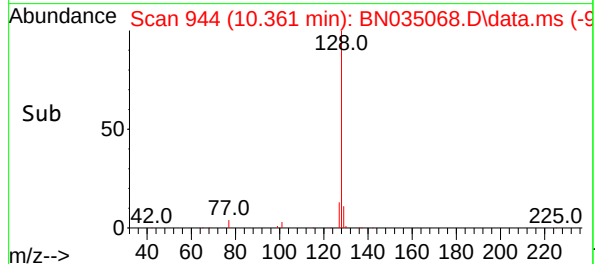
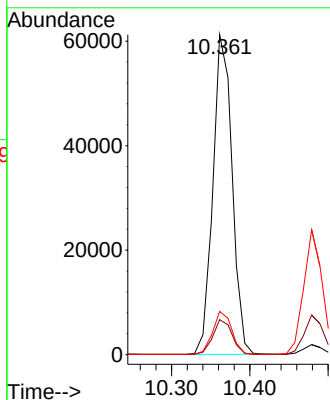
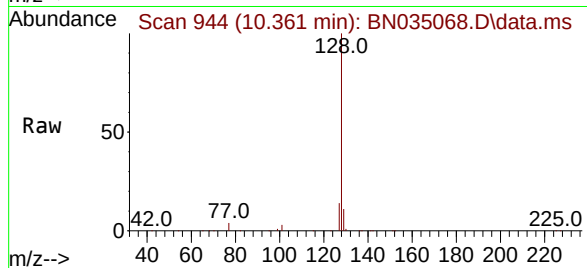




#9
Naphthalene
Concen: 4.914 ng
RT: 10.361 min Scan# 944
Delta R.T. -0.000 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

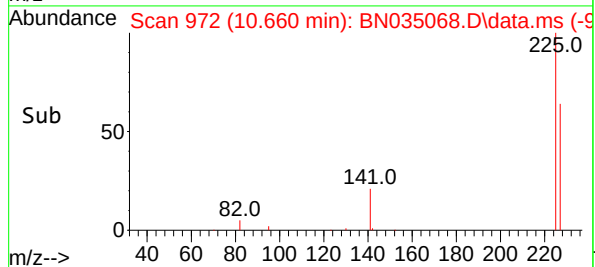
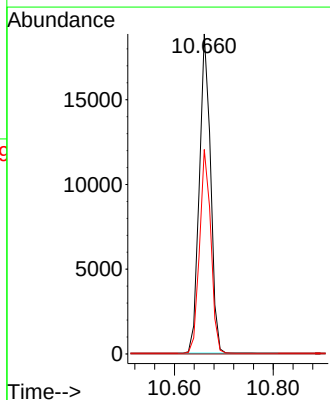
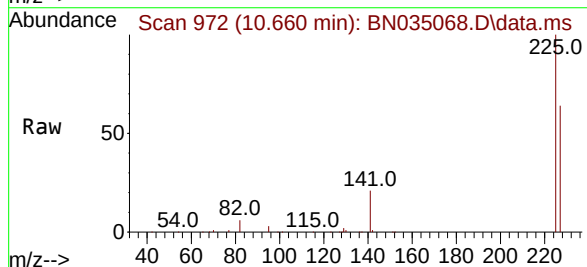
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

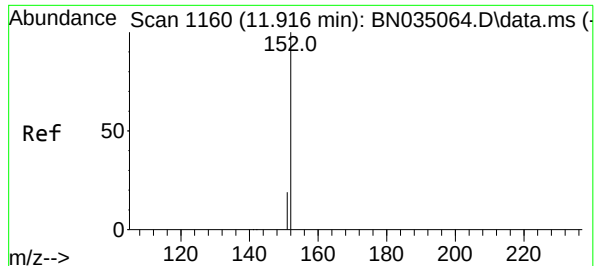
Tgt Ion:128 Resp: 104370
Ion Ratio Lower Upper
128 100
129 10.9 9.6 14.4
127 13.5 11.6 17.4



#10
Hexachlorobutadiene
Concen: 4.757 ng
RT: 10.660 min Scan# 972
Delta R.T. -0.000 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Tgt Ion:225 Resp: 29615
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.9 51.5 77.3

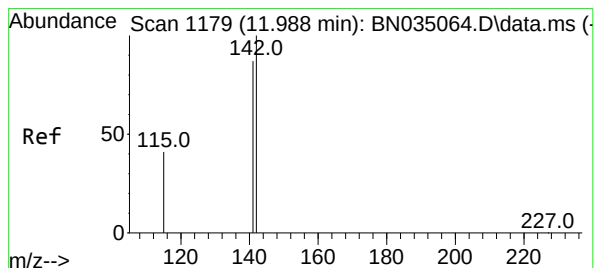
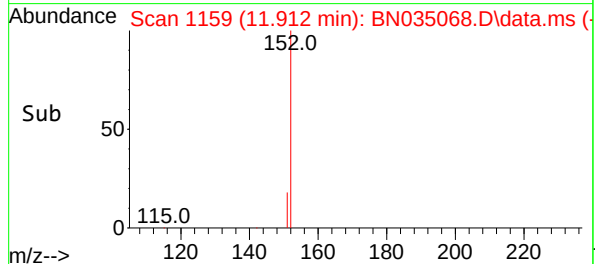
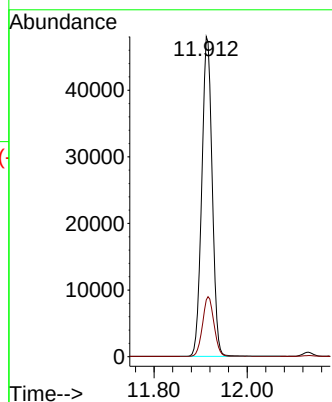
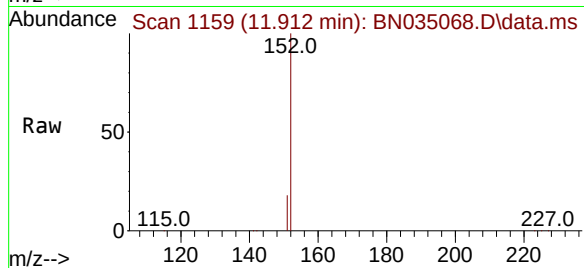




#11
2-Methylnaphthalene-d10
Concen: 5.128 ng
RT: 11.912 min Scan# 1160
Delta R.T. -0.004 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

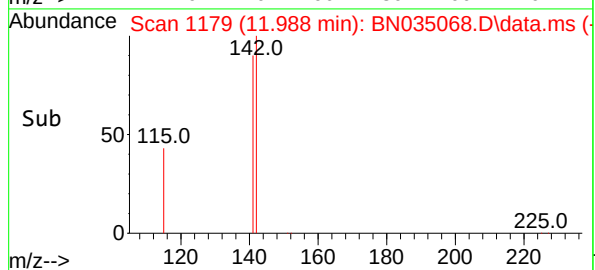
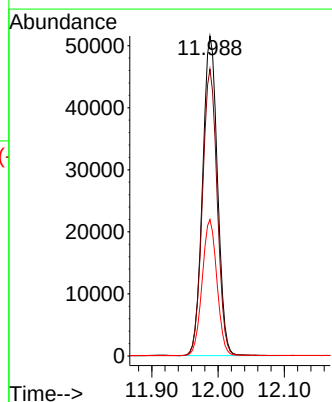
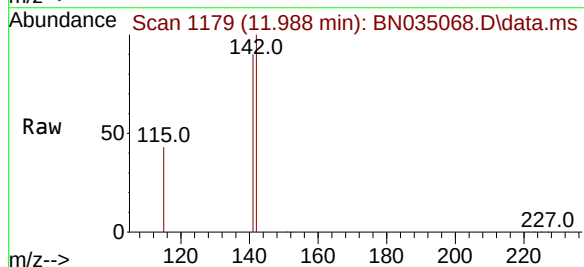
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

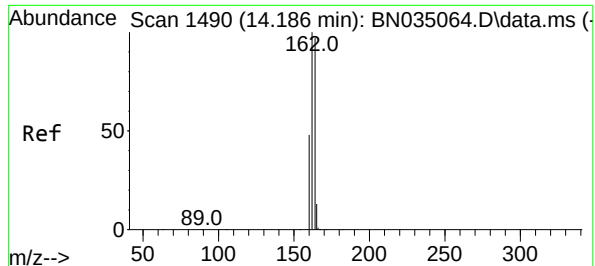
Tgt Ion:152 Resp: 74330
Ion Ratio Lower Upper
152 100
151 20.5 16.2 24.4



#12
2-Methylnaphthalene
Concen: 5.118 ng
RT: 11.988 min Scan# 1179
Delta R.T. -0.000 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Tgt Ion:142 Resp: 80182
Ion Ratio Lower Upper
142 100
141 89.7 70.1 105.1
115 42.7 34.4 51.6

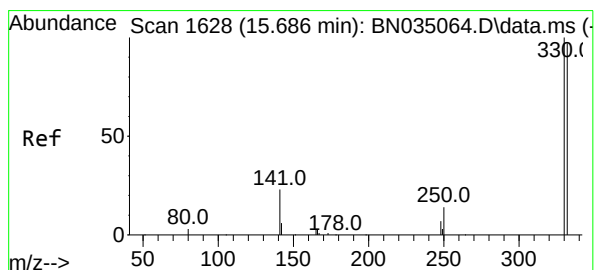
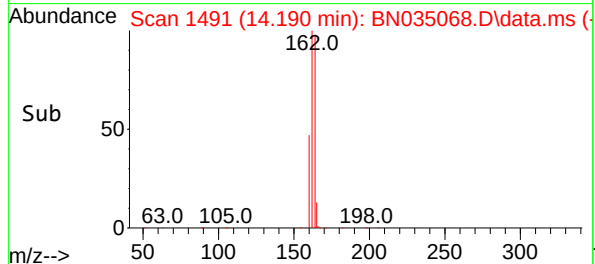
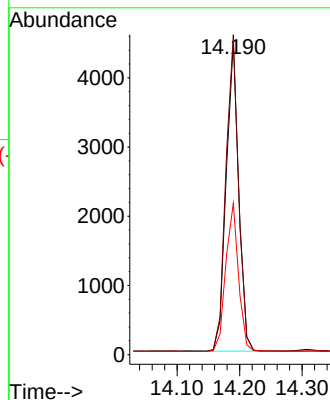
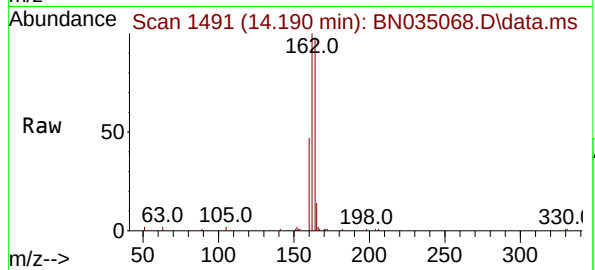




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.190 min Scan# 1491
Delta R.T. 0.004 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

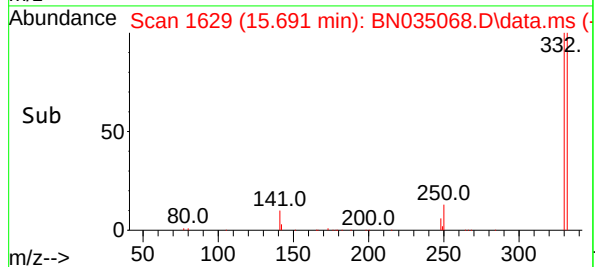
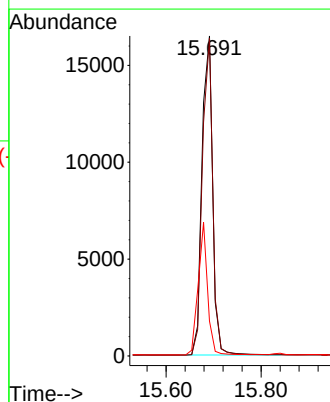
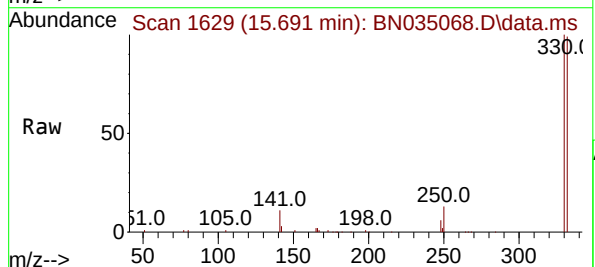
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

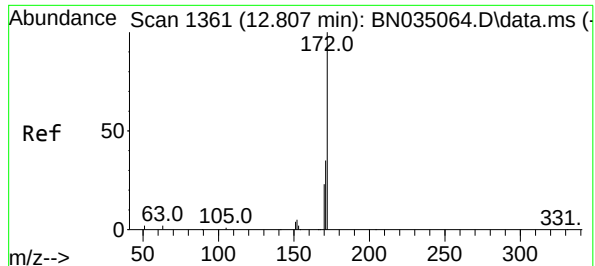
Tgt Ion:164 Resp: 6225
Ion Ratio Lower Upper
164 100
162 102.3 82.2 123.2
160 48.4 40.2 60.4



#14
2,4,6-Tribromophenol
Concen: 5.740 ng
RT: 15.691 min Scan# 1629
Delta R.T. 0.005 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Tgt Ion:330 Resp: 25763
Ion Ratio Lower Upper
330 100
332 96.7 76.9 115.3
141 36.4 29.6 44.4

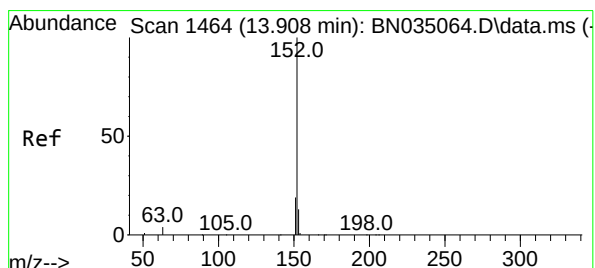
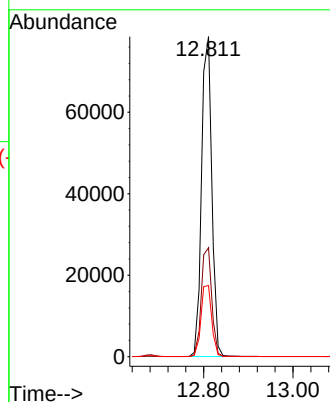
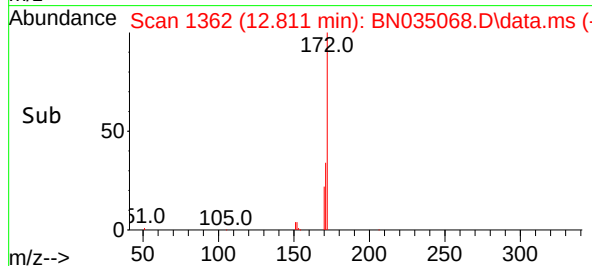
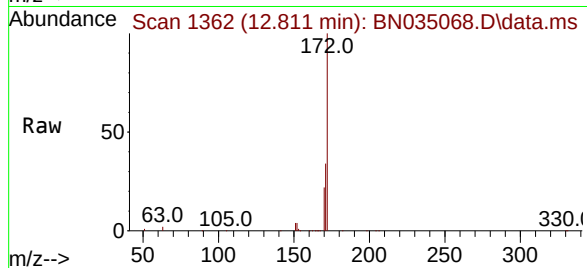




#15
2-Fluorobiphenyl
Concen: 4.967 ng
RT: 12.811 min Scan# 1362
Delta R.T. 0.004 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

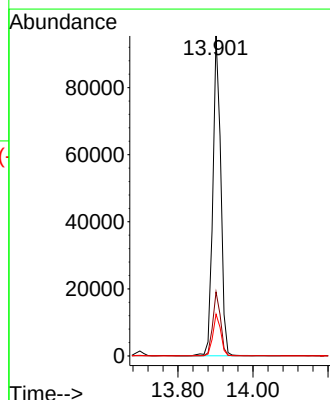
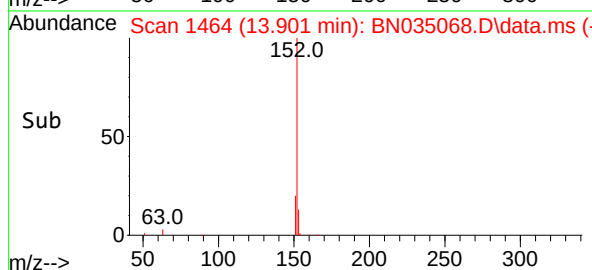
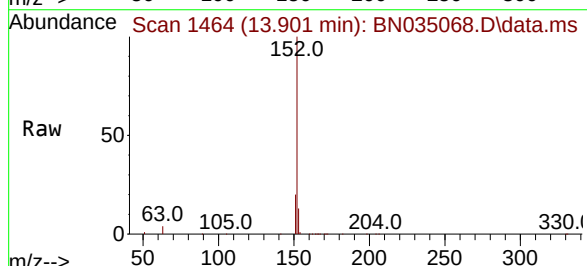
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

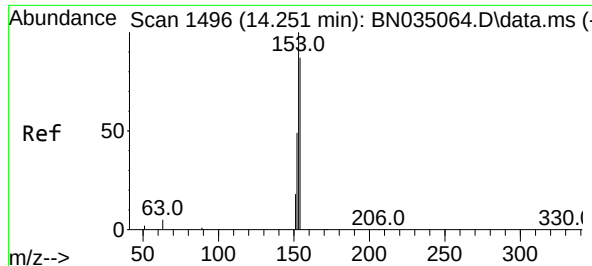
Tgt Ion:172 Resp: 125581
Ion Ratio Lower Upper
172 100
171 34.1 28.2 42.4
170 22.3 19.0 28.6



#16
Acenaphthylene
Concen: 5.250 ng
RT: 13.901 min Scan# 1464
Delta R.T. -0.007 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Tgt Ion:152 Resp: 139668
Ion Ratio Lower Upper
152 100
151 19.7 15.8 23.8
153 13.0 10.2 15.4

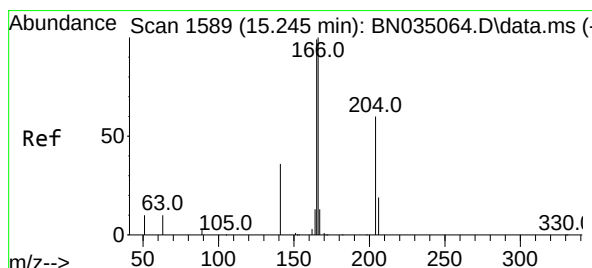
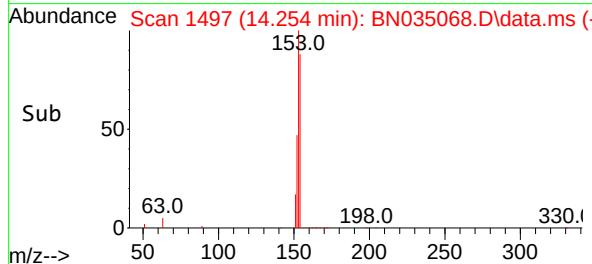
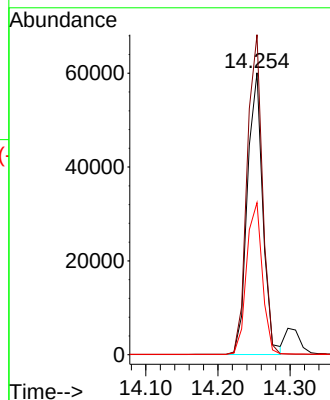
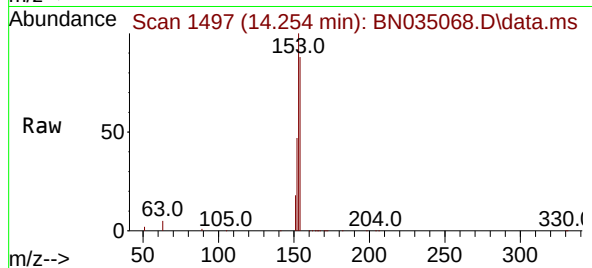




#17
Acenaphthene
Concen: 5.115 ng
RT: 14.254 min Scan# 1497
Delta R.T. 0.004 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

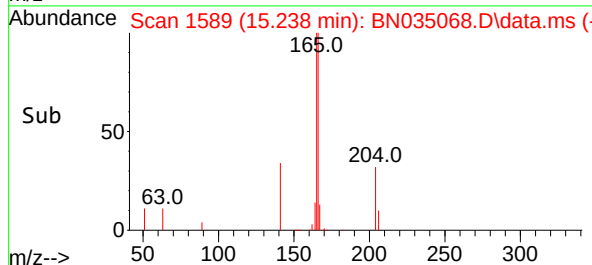
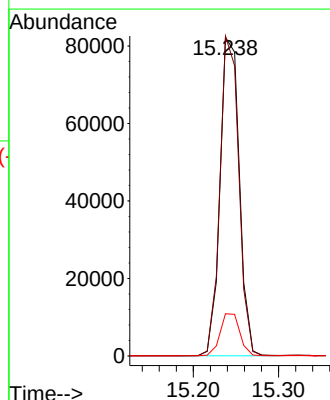
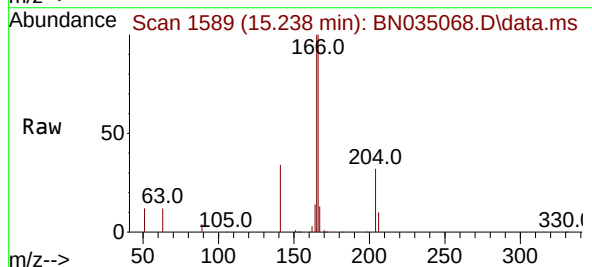
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

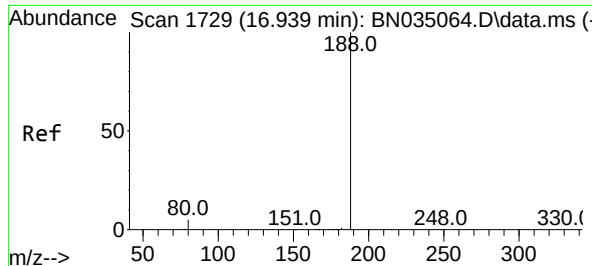
Tgt Ion:154 Resp: 89181
Ion Ratio Lower Upper
154 100
153 113.0 91.6 137.4
152 55.3 45.8 68.6



#18
Fluorene
Concen: 5.033 ng
RT: 15.238 min Scan# 1589
Delta R.T. -0.007 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Tgt Ion:166 Resp: 129071
Ion Ratio Lower Upper
166 100
165 98.2 79.1 118.7
167 13.5 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.932 min Scan# 1729

Delta R.T. -0.007 min

Lab File: BN035068.D

Acq: 13 Nov 2024 16:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

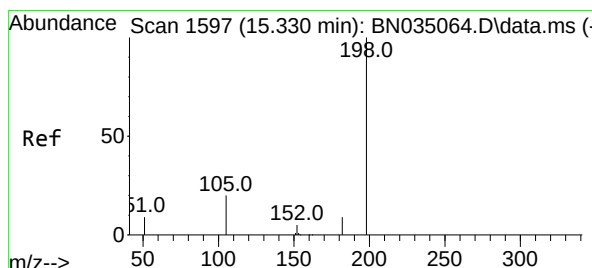
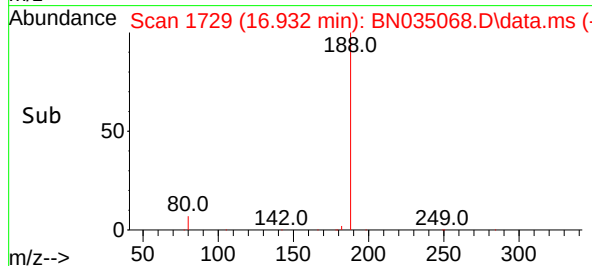
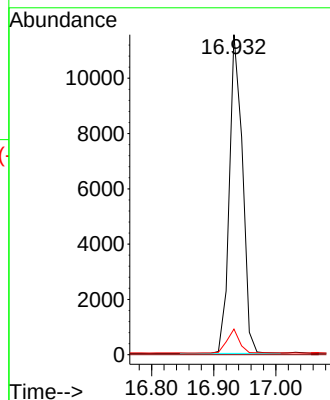
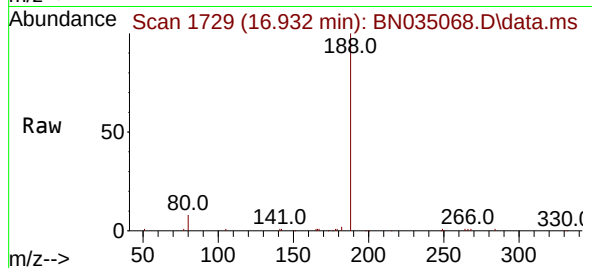
Tgt Ion:188 Resp: 16809

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.0 4.3 6.5#



#20

4,6-Dinitro-2-methylphenol

Concen: 6.304 ng

RT: 15.323 min Scan# 1597

Delta R.T. -0.007 min

Lab File: BN035068.D

Acq: 13 Nov 2024 16:15

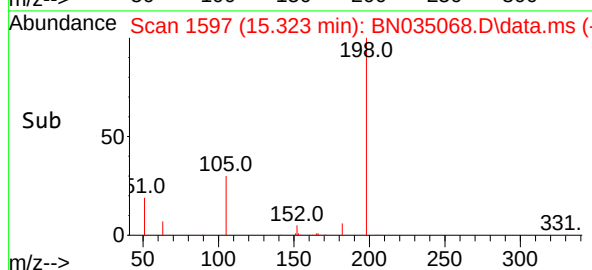
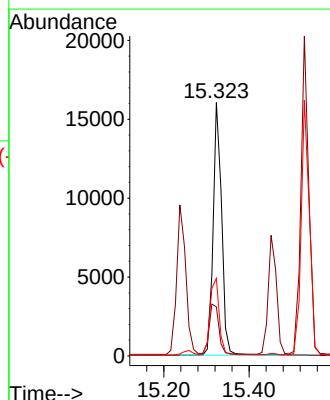
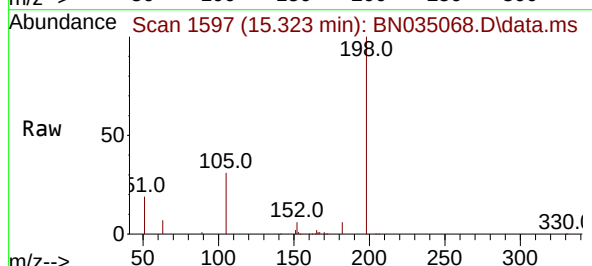
Tgt Ion:198 Resp: 22059

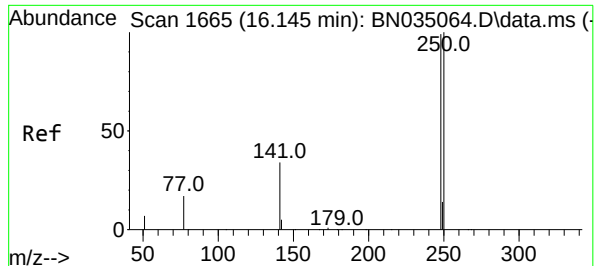
Ion Ratio Lower Upper

198 100

51 19.4 29.9 44.9#

105 30.6 23.7 35.5

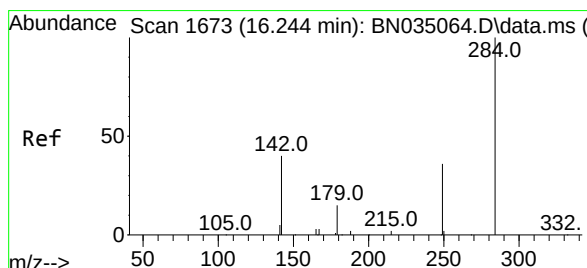
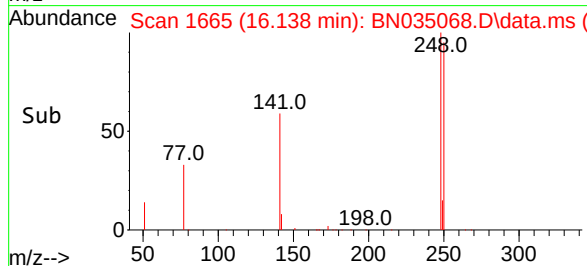
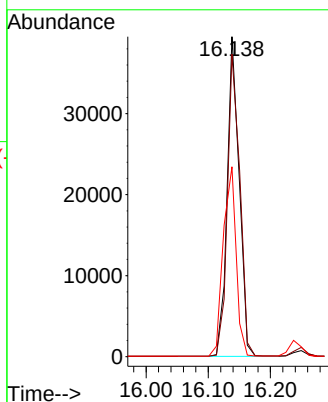
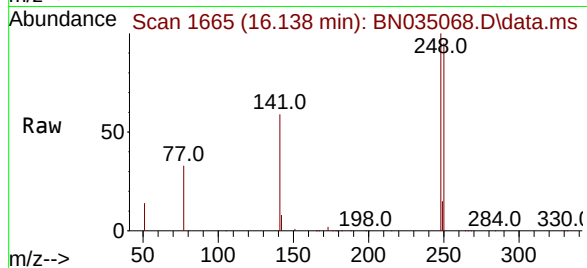




#21
4-Bromophenyl-phenylether
Concen: 4.935 ng
RT: 16.138 min Scan# 1665
Delta R.T. -0.007 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

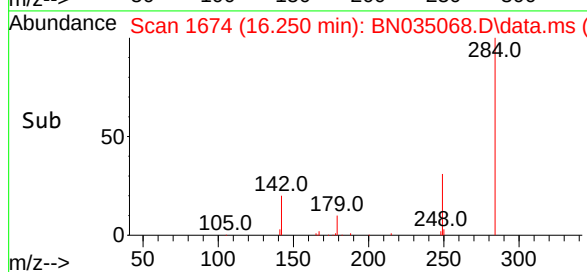
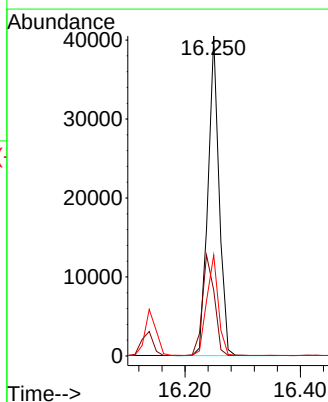
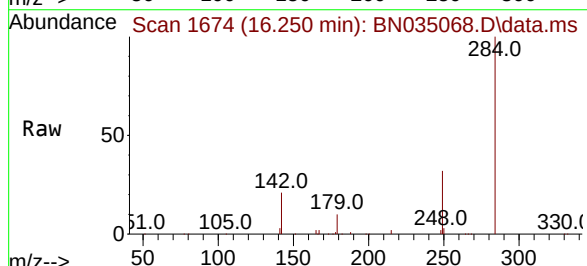
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

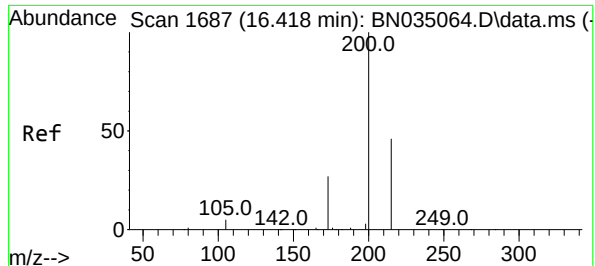
Tgt Ion	Ratio	Lower	Upper
248	100		
250	94.6	81.2	121.8
141	59.4	29.1	43.7



#22
Hexachlorobenzene
Concen: 4.870 ng
RT: 16.250 min Scan# 1674
Delta R.T. 0.005 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Tgt Ion	Ratio	Lower	Upper
284	100		
142	34.0	28.2	42.4
249	32.4	26.2	39.2

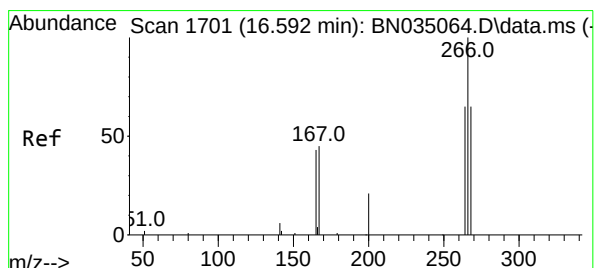
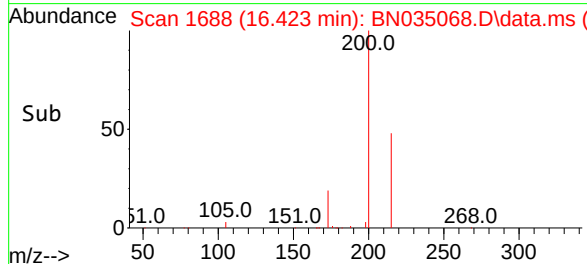
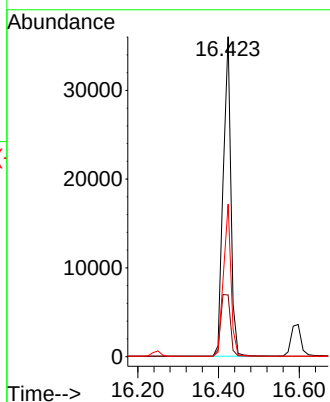
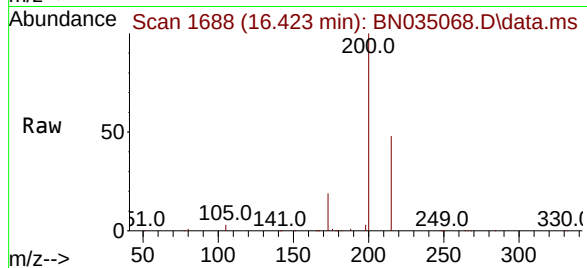




#23
Atrazine
Concen: 4.928 ng
RT: 16.423 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

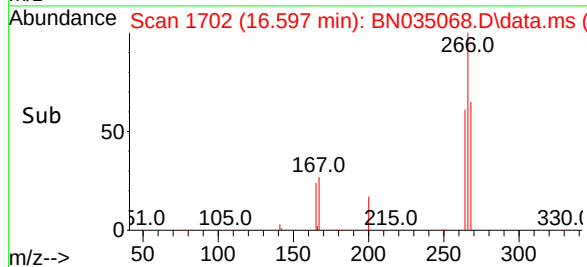
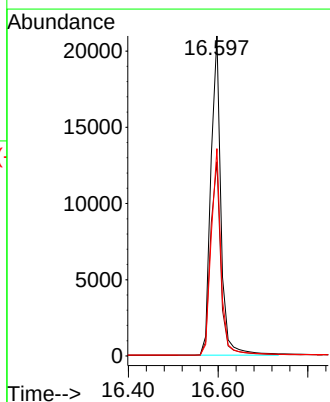
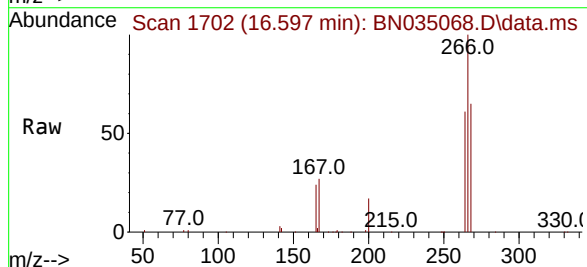
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

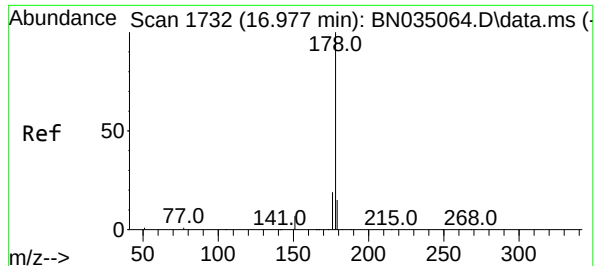
Tgt Ion:200 Resp: 47349
Ion Ratio Lower Upper
200 100
173 19.3 22.6 33.8#
215 47.7 37.8 56.6



#24
Pentachlorophenol
Concen: 6.228 ng
RT: 16.597 min Scan# 1702
Delta R.T. 0.005 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Tgt Ion:266 Resp: 32339
Ion Ratio Lower Upper
266 100
264 62.3 49.4 74.0
268 63.7 52.6 79.0

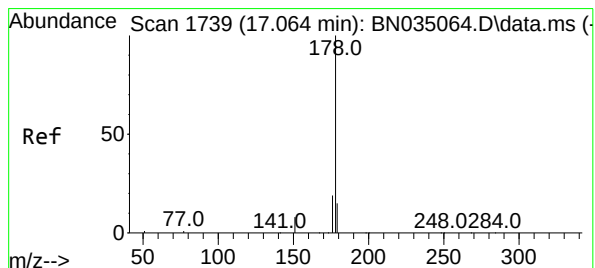
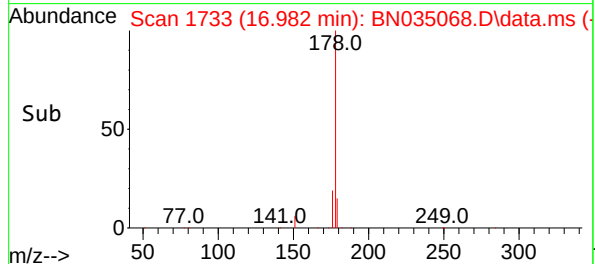
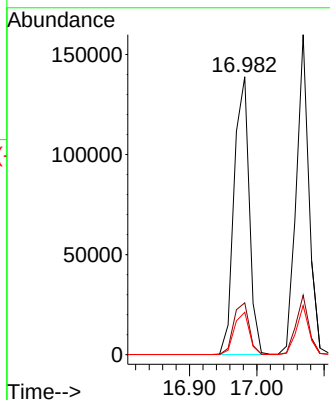
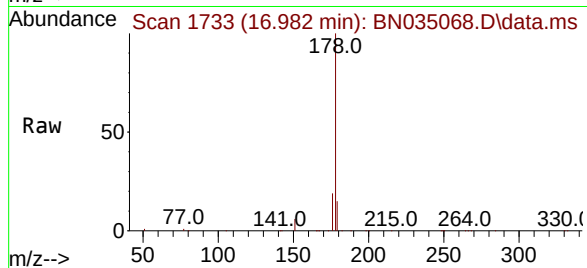




#25
Phenanthrene
Concen: 4.923 ng
RT: 16.982 min Scan# 1733
Delta R.T. 0.005 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

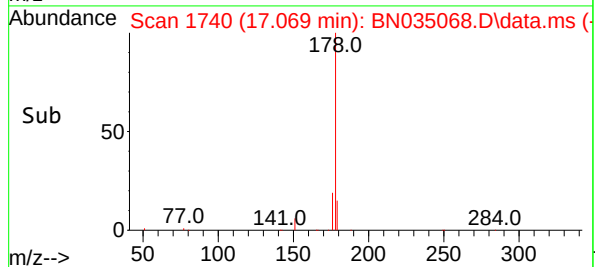
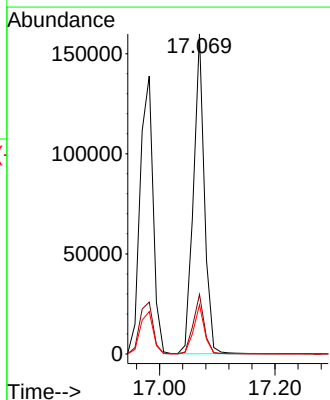
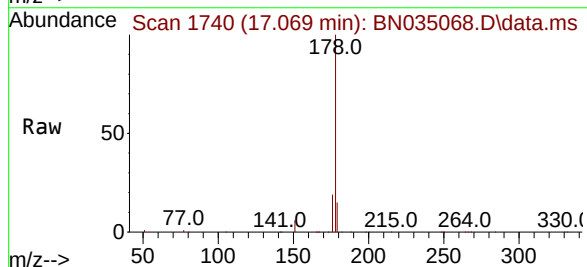
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

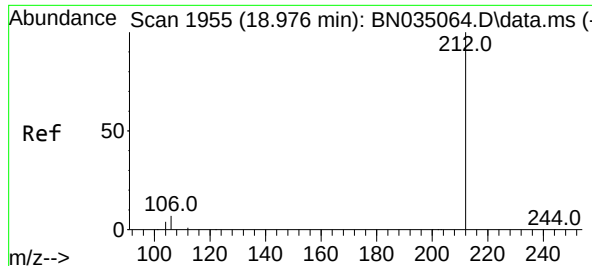
Tgt Ion:178 Resp: 217781
Ion Ratio Lower Upper
178 100
176 19.3 15.2 22.8
179 15.2 12.6 18.8



#26
Anthracene
Concen: 5.176 ng
RT: 17.069 min Scan# 1740
Delta R.T. 0.005 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Tgt Ion:178 Resp: 210303
Ion Ratio Lower Upper
178 100
176 18.6 14.6 22.0
179 15.3 12.2 18.2





#27

Fluoranthene-d10

Concen: 5.059 ng

RT: 18.973 min Scan# 1955

Delta R.T. -0.002 min

Lab File: BN035068.D

Acq: 13 Nov 2024 16:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

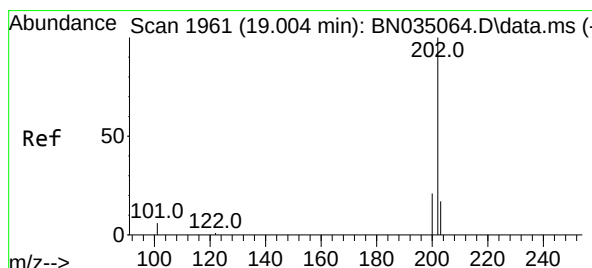
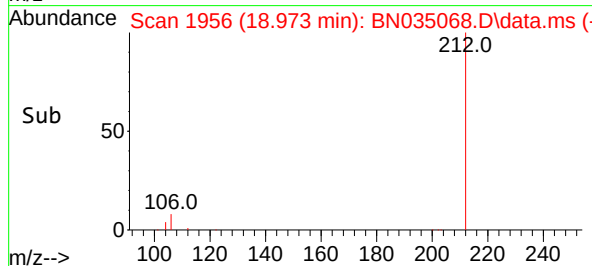
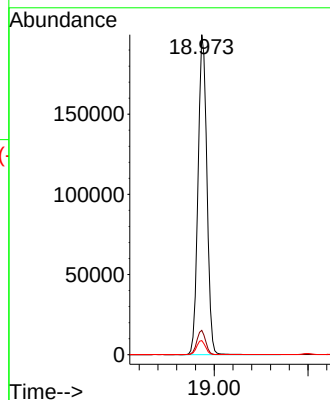
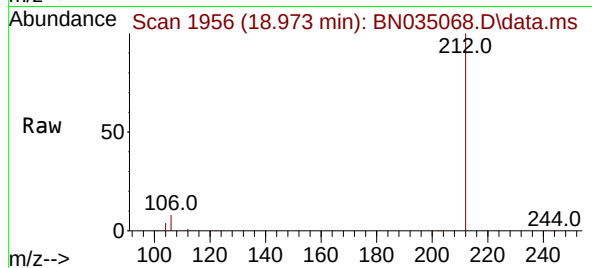
Tgt Ion:212 Resp: 260540

Ion Ratio Lower Upper

212 100

106 7.6 6.0 9.0

104 4.4 3.5 5.3



#28

Fluoranthene

Concen: 5.019 ng

RT: 19.006 min Scan# 1963

Delta R.T. 0.002 min

Lab File: BN035068.D

Acq: 13 Nov 2024 16:15

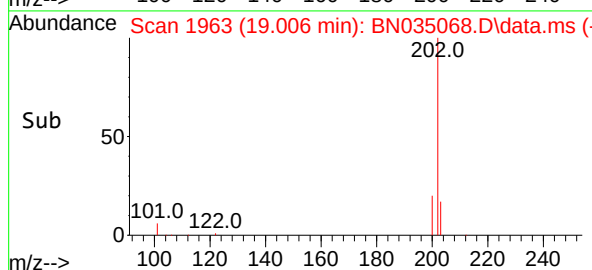
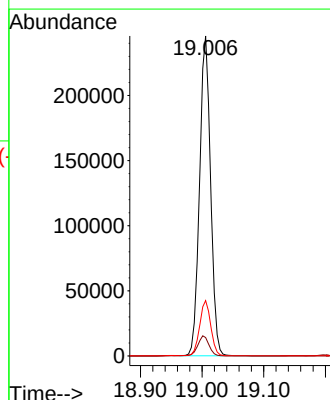
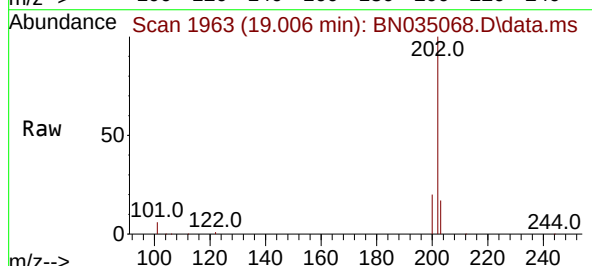
Tgt Ion:202 Resp: 305283

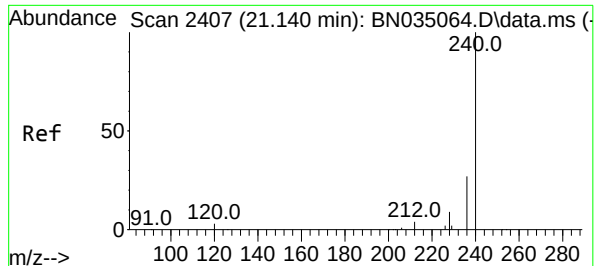
Ion Ratio Lower Upper

202 100

101 6.4 5.2 7.8

203 17.3 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.133 min Scan# 2408

Delta R.T. -0.007 min

Lab File: BN035068.D

Acq: 13 Nov 2024 16:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

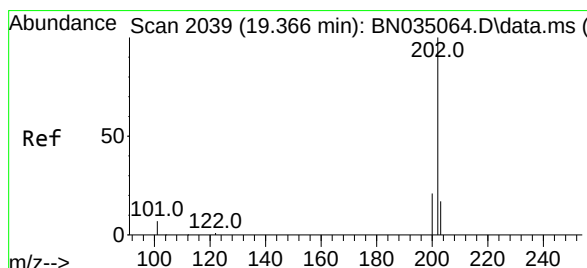
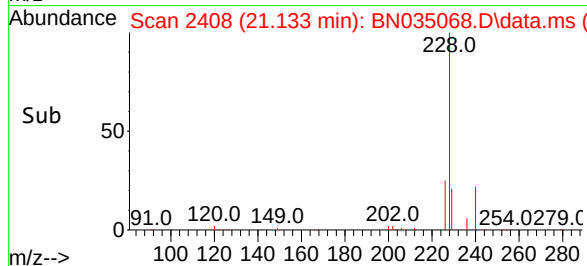
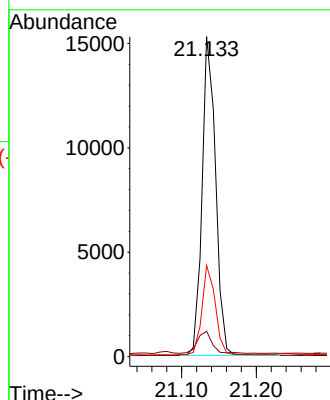
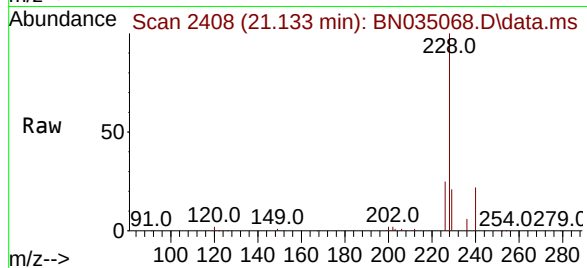
Tgt Ion:240 Resp: 19216

Ion Ratio Lower Upper

240 100

120 8.0 3.8 5.6#

236 28.5 22.2 33.2



#30

Pyrene

Concen: 4.942 ng

RT: 19.368 min Scan# 2041

Delta R.T. 0.002 min

Lab File: BN035068.D

Acq: 13 Nov 2024 16:15

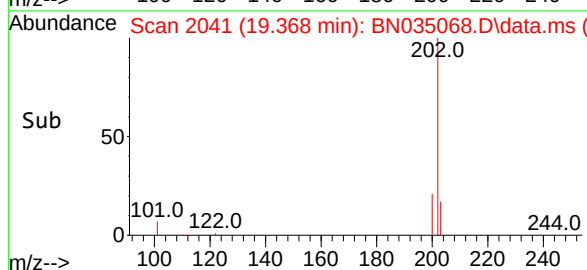
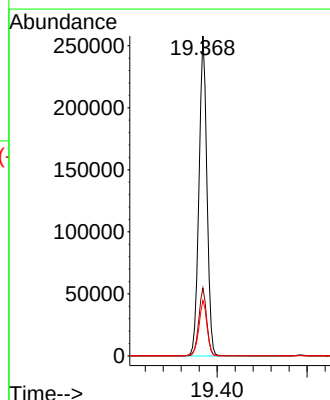
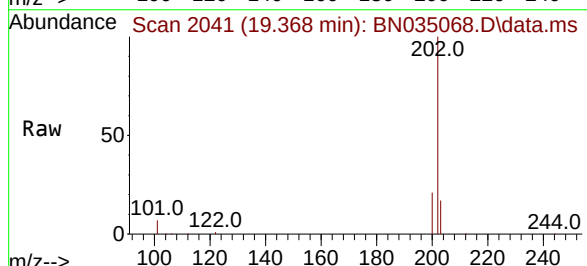
Tgt Ion:202 Resp: 316225

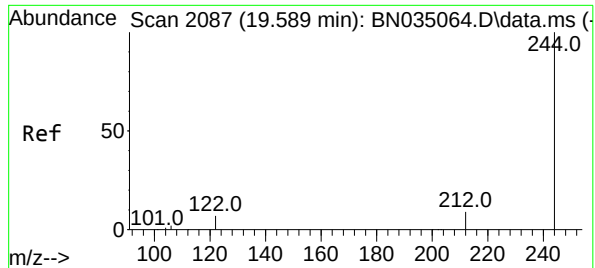
Ion Ratio Lower Upper

202 100

200 21.2 16.7 25.1

203 17.9 14.2 21.4

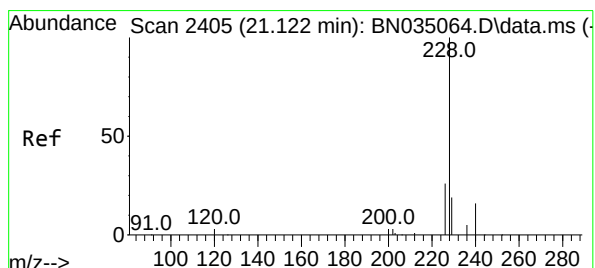
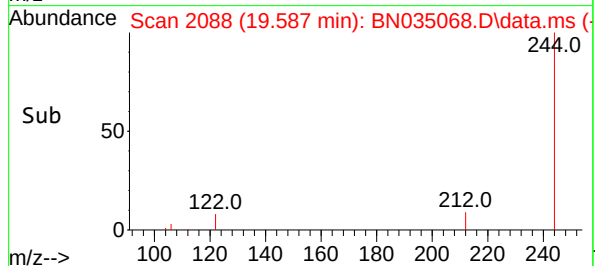
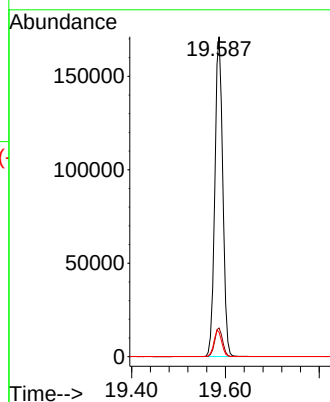
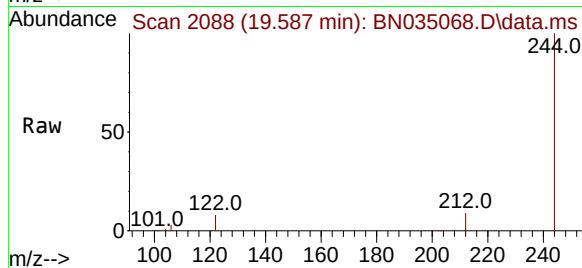




#31
Terphenyl-d14
Concen: 4.950 ng
RT: 19.587 min Scan# 2087
Delta R.T. -0.002 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

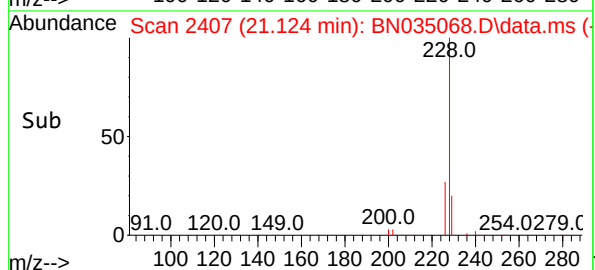
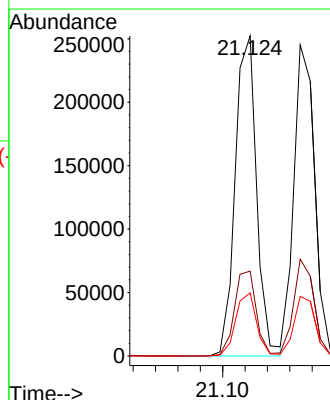
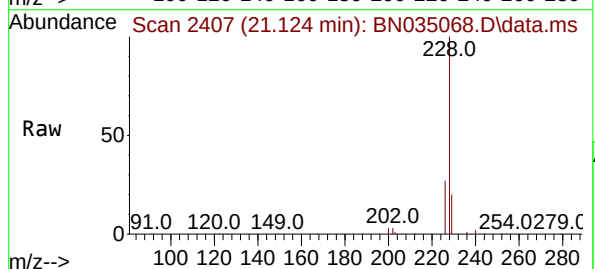
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

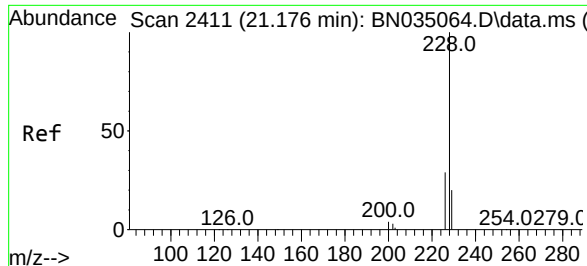
Tgt Ion:244 Resp: 199585
Ion Ratio Lower Upper
244 100
212 9.0 7.6 11.4
122 7.7 6.1 9.1



#32
Benzo(a)anthracene
Concen: 5.013 ng
RT: 21.124 min Scan# 2407
Delta R.T. 0.002 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Tgt Ion:228 Resp: 335437
Ion Ratio Lower Upper
228 100
226 26.5 21.4 32.0
229 19.7 15.7 23.5





#33

Chrysene

Concen: 4.786 ng

RT: 21.169 min Scan# 2411

Delta R.T. -0.007 min

Lab File: BN035068.D

Acq: 13 Nov 2024 16:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

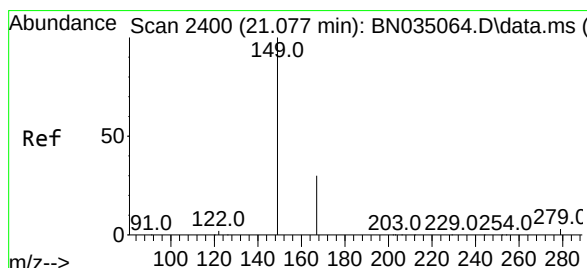
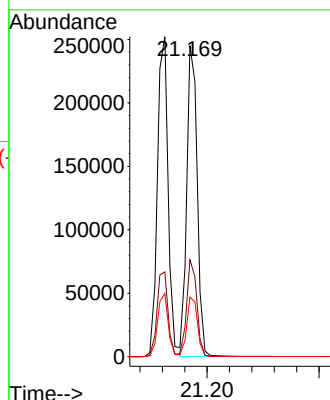
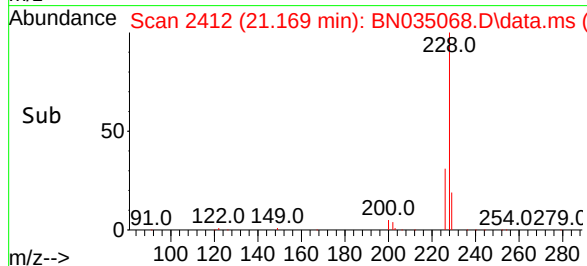
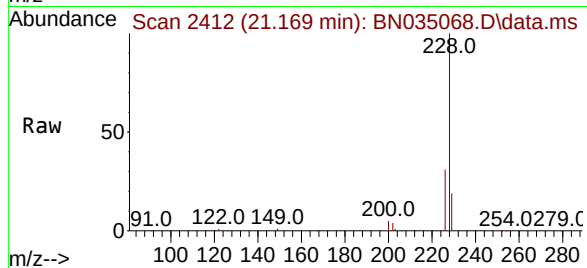
Tgt Ion:228 Resp: 317200

Ion Ratio Lower Upper

228 100

226 31.1 23.7 35.5

229 19.1 16.2 24.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 5.121 ng

RT: 21.080 min Scan# 2402

Delta R.T. 0.002 min

Lab File: BN035068.D

Acq: 13 Nov 2024 16:15

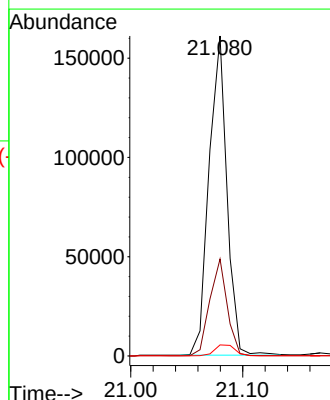
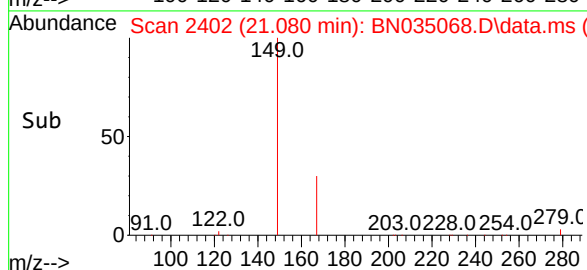
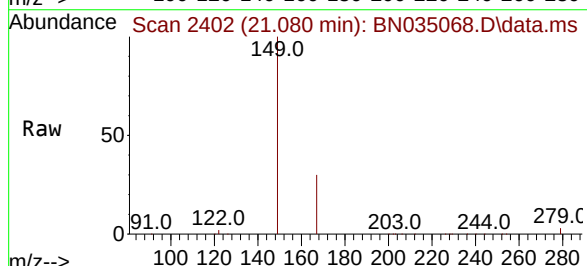
Tgt Ion:149 Resp: 178320

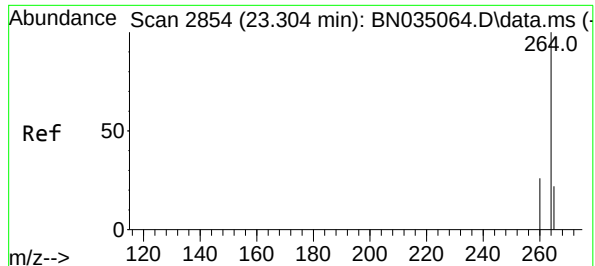
Ion Ratio Lower Upper

149 100

167 29.5 23.2 34.8

279 3.9 3.2 4.8





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.303 min Scan# 21

Delta R.T. -0.001 min

Lab File: BN035068.D

Acq: 13 Nov 2024 16:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

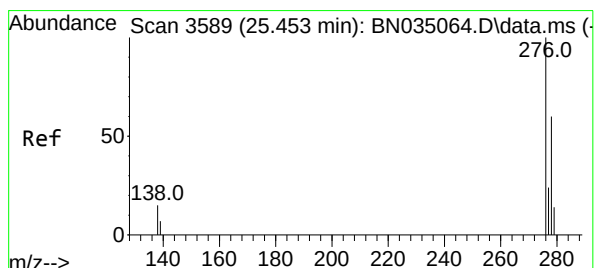
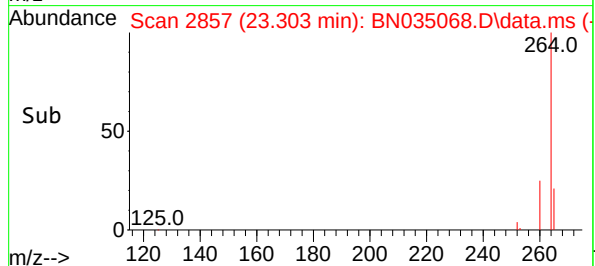
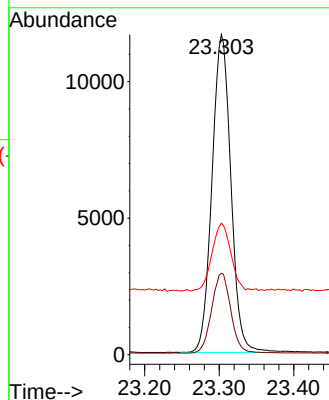
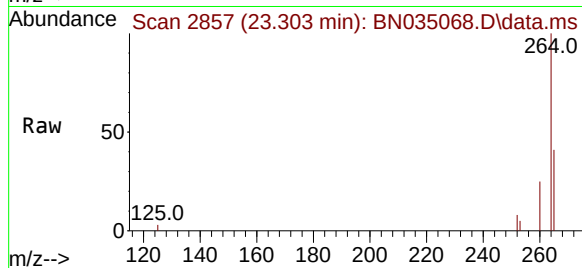
Tgt Ion:264 Resp: 20465

Ion Ratio Lower Upper

264 100

260 25.4 20.9 31.3

265 41.1 35.4 53.2



#36

Indeno(1,2,3-cd)pyrene

Concen: 4.966 ng

RT: 25.455 min Scan# 3593

Delta R.T. 0.002 min

Lab File: BN035068.D

Acq: 13 Nov 2024 16:15

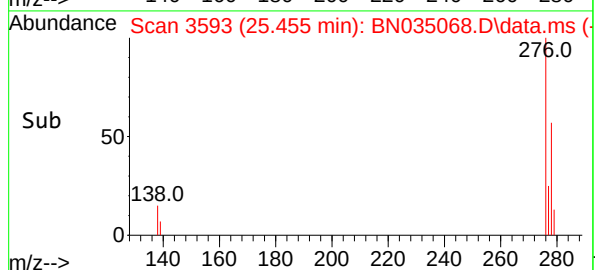
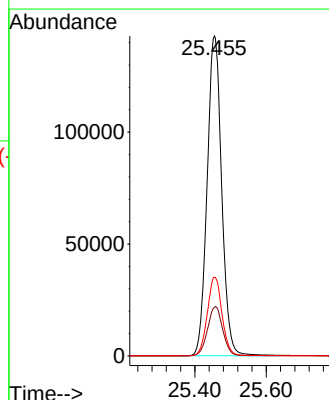
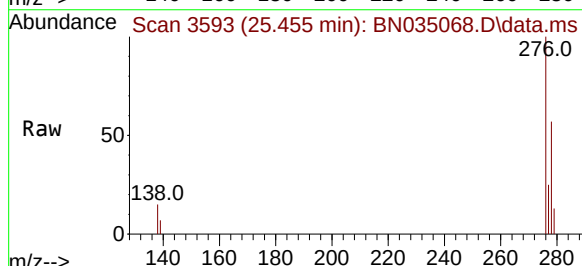
Tgt Ion:276 Resp: 405401

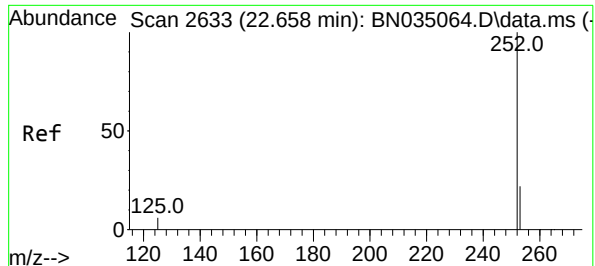
Ion Ratio Lower Upper

276 100

138 16.0 13.0 19.4

277 24.9 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 5.049 ng

RT: 22.660 min Scan# 2637

Delta R.T. 0.002 min

Lab File: BN035068.D

Acq: 13 Nov 2024 16:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

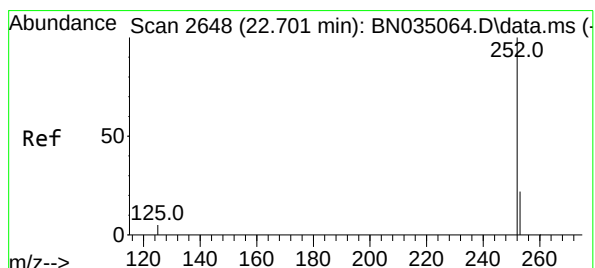
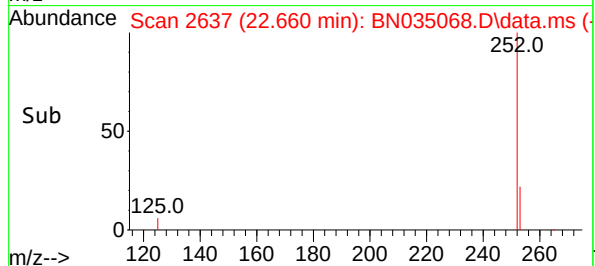
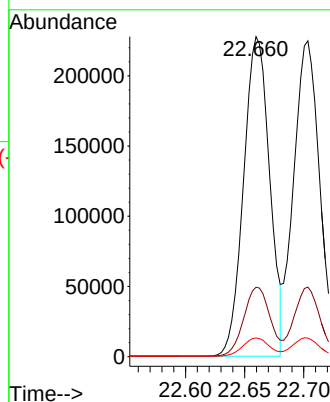
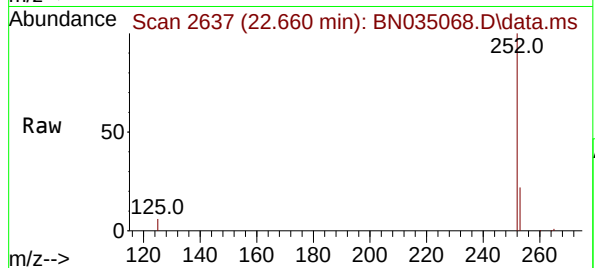
Tgt Ion:252 Resp: 347639

Ion Ratio Lower Upper

252 100

253 21.7 19.3 28.9

125 5.8 6.2 9.2#



#38

Benzo(k)fluoranthene

Concen: 5.041 ng

RT: 22.703 min Scan# 2652

Delta R.T. 0.002 min

Lab File: BN035068.D

Acq: 13 Nov 2024 16:15

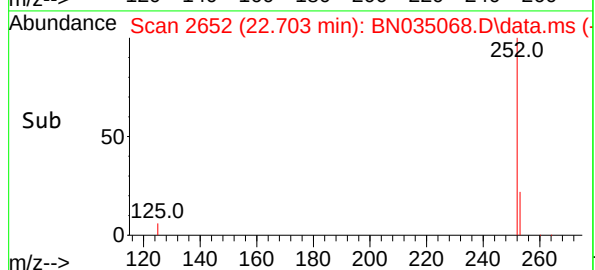
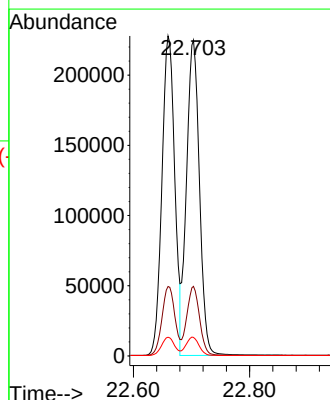
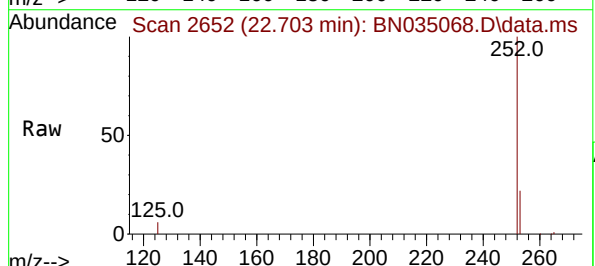
Tgt Ion:252 Resp: 347310

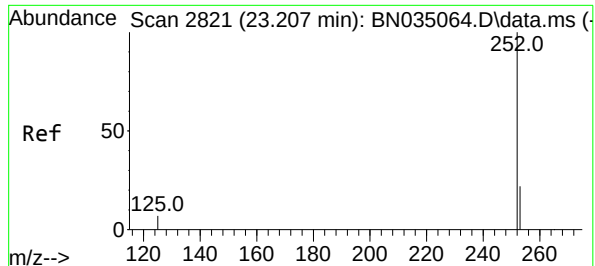
Ion Ratio Lower Upper

252 100

253 22.0 19.5 29.3

125 5.9 6.5 9.7#





#39

Benzo(a)pyrene

Concen: 5.094 ng

RT: 23.209 min Scan# 21

Delta R.T. 0.002 min

Lab File: BN035068.D

Acq: 13 Nov 2024 16:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

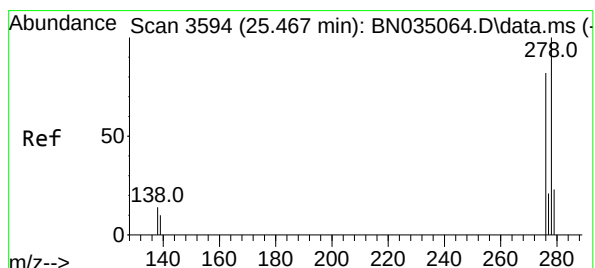
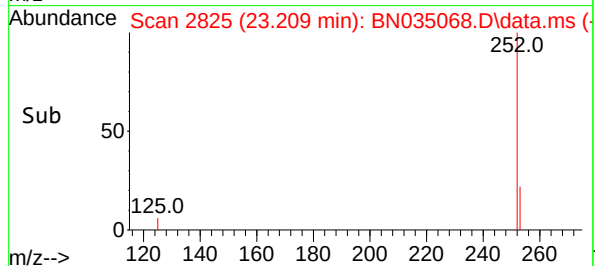
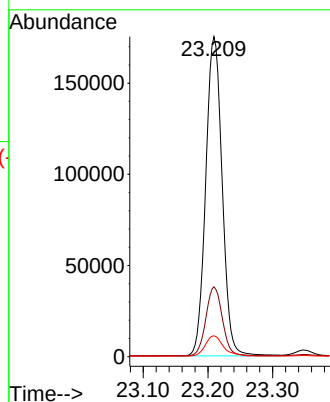
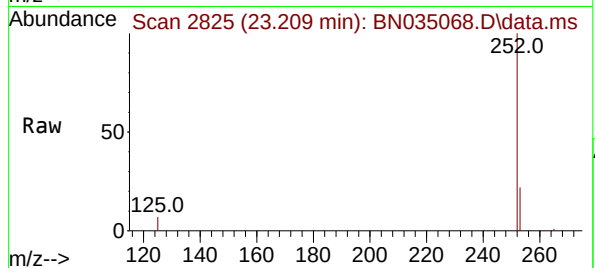
Tgt Ion:252 Resp: 308664

Ion Ratio Lower Upper

252 100

253 21.8 20.1 30.1

125 6.5 7.5 11.3#



#40

Dibenzo(a,h)anthracene

Concen: 5.002 ng

RT: 25.469 min Scan# 3598

Delta R.T. 0.002 min

Lab File: BN035068.D

Acq: 13 Nov 2024 16:15

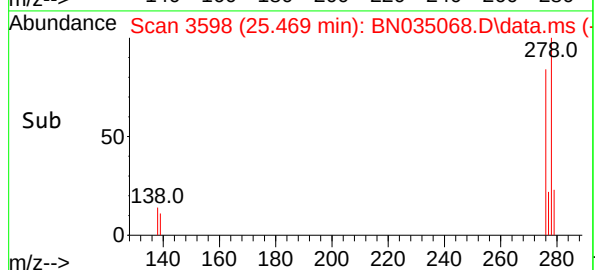
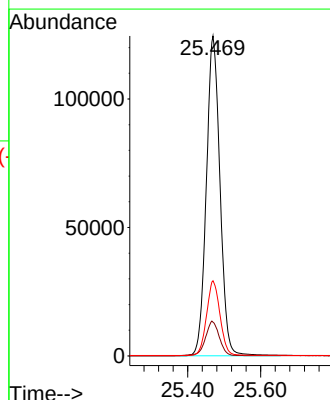
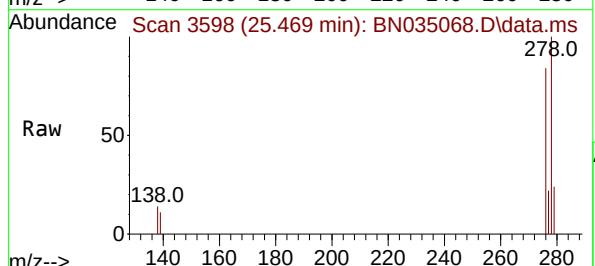
Tgt Ion:278 Resp: 323522

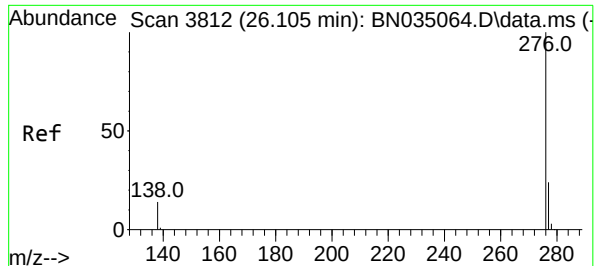
Ion Ratio Lower Upper

278 100

139 10.6 9.3 13.9

279 23.5 19.7 29.5





#41

Benzo(g,h,i)perylene

Concen: 4.937 ng

RT: 26.107 min Scan# 3812

Delta R.T. 0.002 min

Lab File: BN035068.D

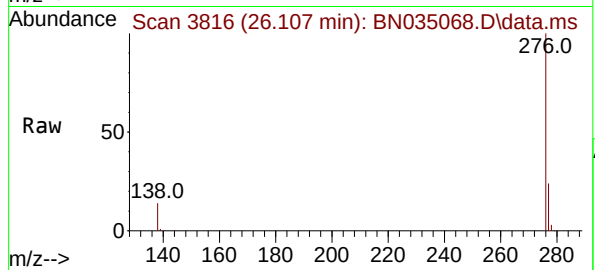
Acq: 13 Nov 2024 16:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0



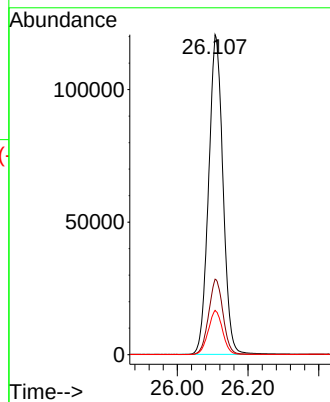
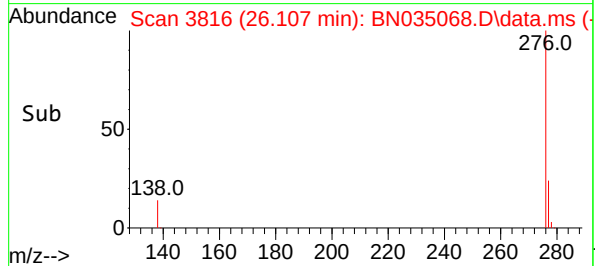
Tgt Ion:276 Resp: 339655

Ion Ratio Lower Upper

276 100

277 23.6 19.9 29.9

138 13.9 11.6 17.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
 Data File : BN035069.D
 Acq On : 13 Nov 2024 16:51
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN111324

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/14/2024
 Supervised By :mohammad ahmed 11/14/2024

Quant Time: Nov 13 17:18:36 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 17:18:14 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.553	152	2509	0.400	ng	0.00
7) Naphthalene-d8	10.319	136	6367	0.400	ng	0.00
13) Acenaphthene-d10	14.186	164	4967	0.400	ng	0.00
19) Phenanthrene-d10	16.939	188	12682	0.400	ng	0.00
29) Chrysene-d12	21.140	240	14055	0.400	ng	0.00
35) Perylene-d12	23.304	264	15724	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	2342	0.368	ng	0.00
5) Phenol-d6	6.737	99	2867	0.359	ng	0.00
8) Nitrobenzene-d5	8.696	82	1983	0.358	ng	0.00
11) 2-Methylnaphthalene-d10	11.916	152	4166	0.367	ng	0.00
14) 2,4,6-Tribromophenol	15.686	330	1154	0.322	ng	0.00
15) 2-Fluorobiphenyl	12.807	172	7205	0.357	ng	0.00
27) Fluoranthene-d10	18.976	212	14530	0.374	ng	0.00
31) Terphenyl-d14	19.584	244	11240	0.381	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.177	88	845	0.371	ng	99
3) n-Nitrosodimethylamine	3.473	42	781	0.368	ng	# 94
6) bis(2-Chloroethyl)ether	6.990	93	2218	0.370	ng	98
9) Naphthalene	10.362	128	6092	0.366	ng	100
10) Hexachlorobutadiene	10.661	225	1817	0.373	ng	# 98
12) 2-Methylnaphthalene	11.988	142	4513	0.368	ng	99
16) Acenaphthylene	13.908	152	7387	0.348	ng	100
17) Acenaphthene	14.250	154	4995	0.359	ng	99
18) Fluorene	15.245	166	7206	0.352	ng	100
20) 4,6-Dinitro-2-methylph...	15.330	198	870m	0.330	ng	
21) 4-Bromophenyl-phenylether	16.145	248	3001	0.371	ng	98
22) Hexachlorobenzene	16.244	284	3175	0.379	ng	99
23) Atrazine	16.418	200	2682	0.370	ng	98
24) Pentachlorophenol	16.592	266	1269	0.324	ng	98
25) Phenanthrene	16.977	178	12517	0.375	ng	99
26) Anthracene	17.063	178	11219	0.366	ng	100
28) Fluoranthene	19.004	202	17084	0.372	ng	100
30) Pyrene	19.366	202	17580	0.376	ng	100
32) Benzo(a)anthracene	21.122	228	18406	0.376	ng	99
33) Chrysene	21.176	228	18693	0.386	ng	99
34) Bis(2-ethylhexyl)phtha...	21.077	149	8691	0.338	ng	100
36) Indeno(1,2,3-cd)pyrene	25.450	276	23546	0.375	ng	99
37) Benzo(b)fluoranthene	22.660	252	20039	0.379	ng	99
38) Benzo(k)fluoranthene	22.701	252	20114	0.380	ng	98
39) Benzo(a)pyrene	23.210	252	17596	0.378	ng	99
40) Dibenzo(a,h)anthracene	25.467	278	18547	0.373	ng	98
41) Benzo(g,h,i)perylene	26.104	276	19649	0.372	ng	99

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

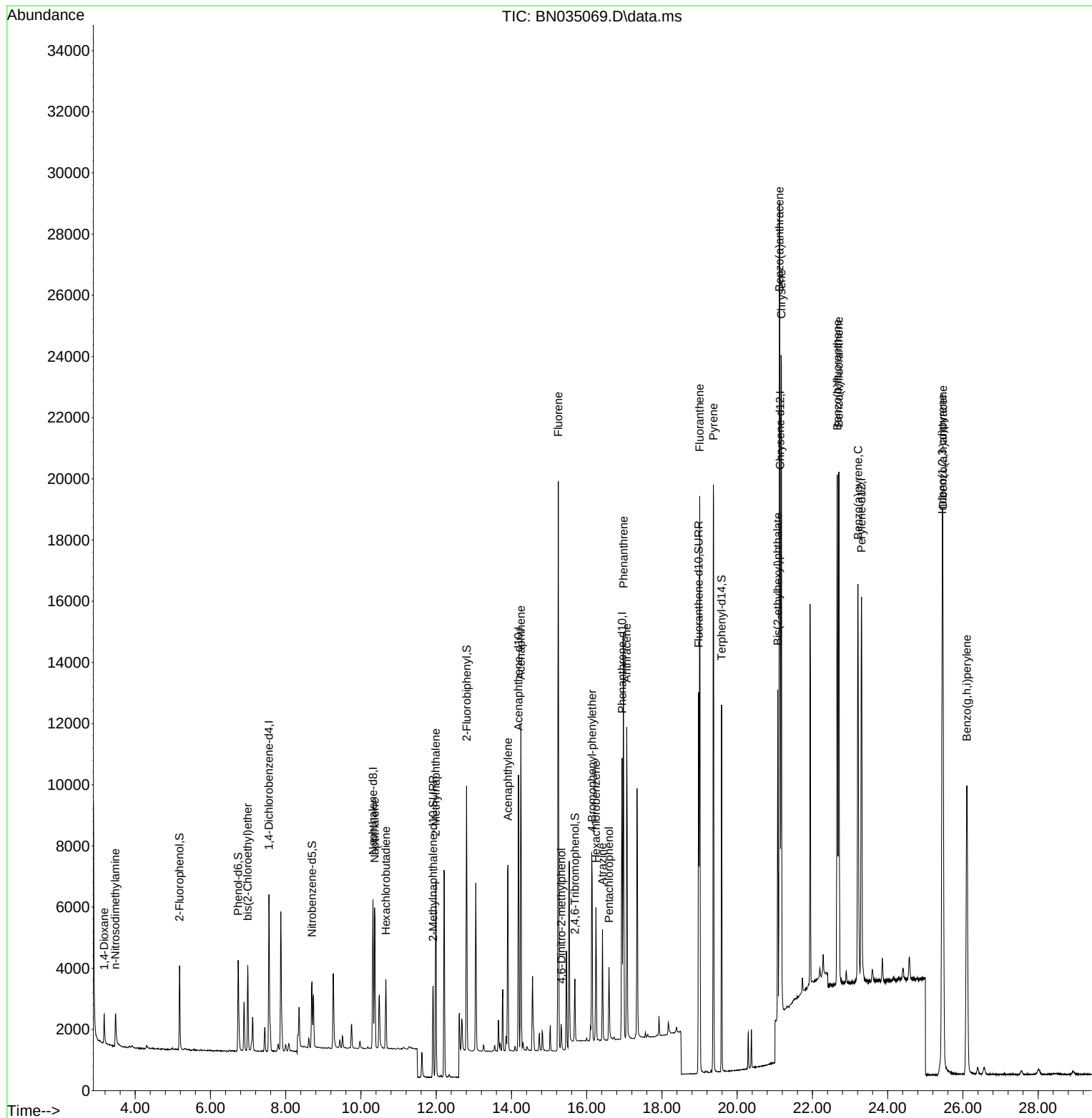
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
Data File : BN035069.D
Acq On : 13 Nov 2024 16:51
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

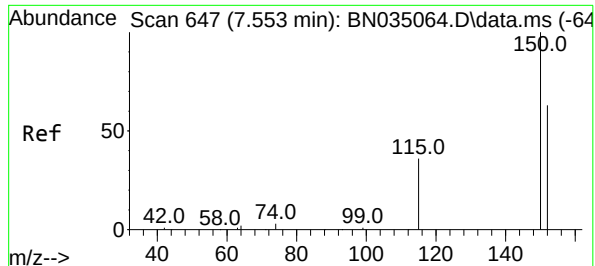
Instrument :
BNA_N
ClientSampleId :
ICVBN111324

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

Quant Time: Nov 13 17:18:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 17:18:14 2024
Response via : Initial Calibration





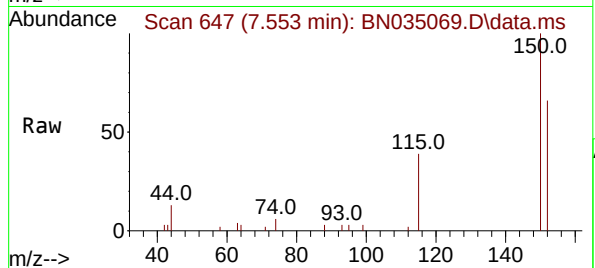
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.553 min Scan# 647
Delta R.T. 0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Instrument :

BNA_N

ClientSampleId :

ICVBN111324

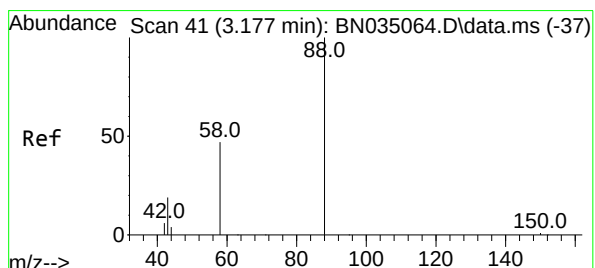
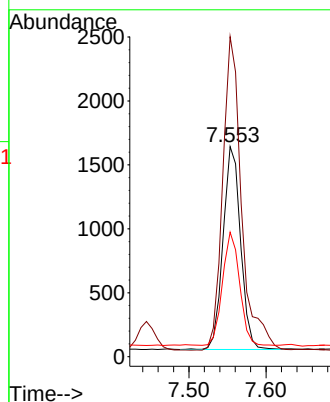
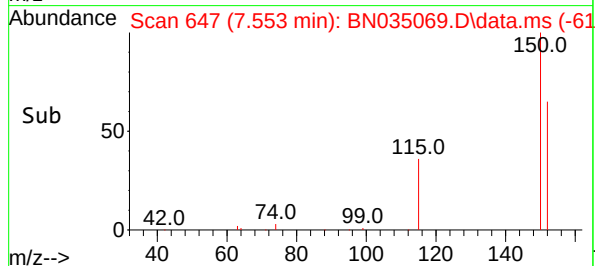


Tgt Ion: 152 Resp: 2509
Ion Ratio Lower Upper
152 100
150 152.3 124.5 186.7
115 59.3 47.8 71.6

Manual Integrations

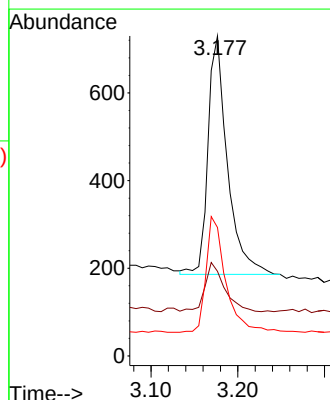
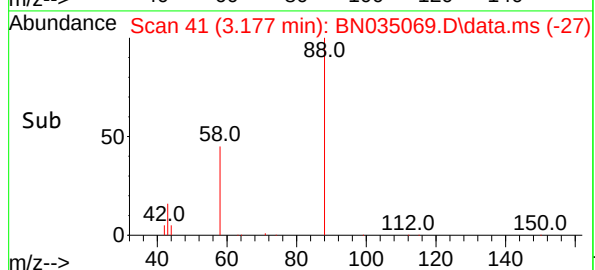
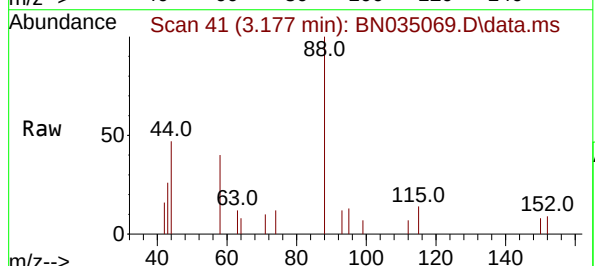
APPROVED

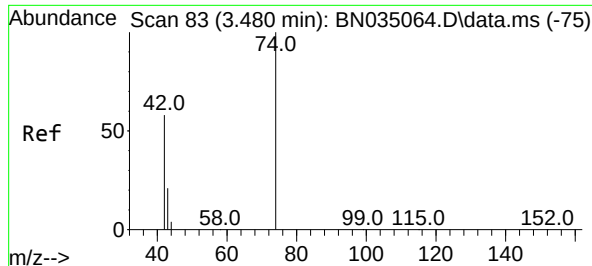
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#2
1,4-Dioxane
Concen: 0.371 ng
RT: 3.177 min Scan# 41
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion: 88 Resp: 845
Ion Ratio Lower Upper
88 100
43 20.8 16.9 25.3
58 49.1 39.0 58.4





#3
n-Nitrosodimethylamine
Concen: 0.368 ng
RT: 3.473 min Scan# 81
Delta R.T. -0.007 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Instrument :

BNA_N

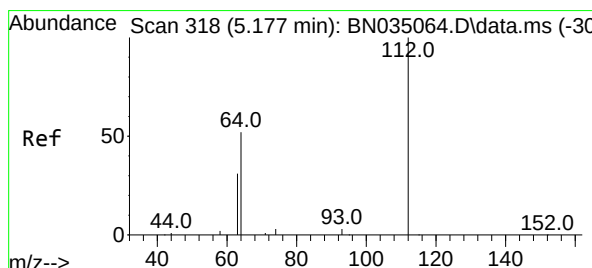
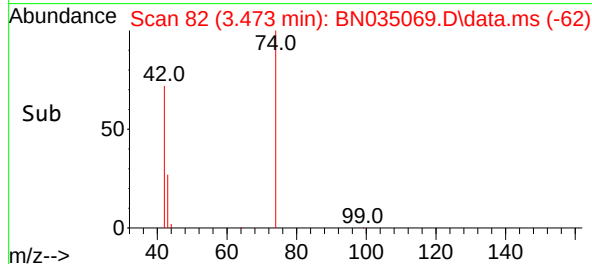
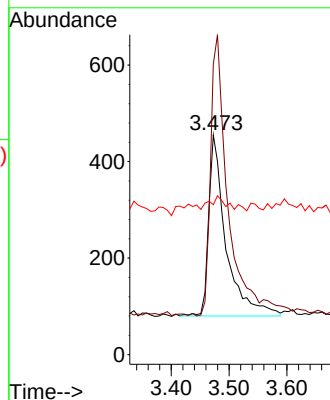
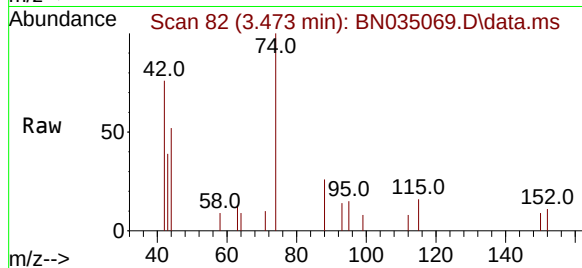
ClientSampleId :

ICVBN111324

Tgt Ion:	42	Resp:	78
Ion	Ratio	Lower	Upper
42	100		
74	158.6	120.8	181.2
44	8.7	2.9	4.3

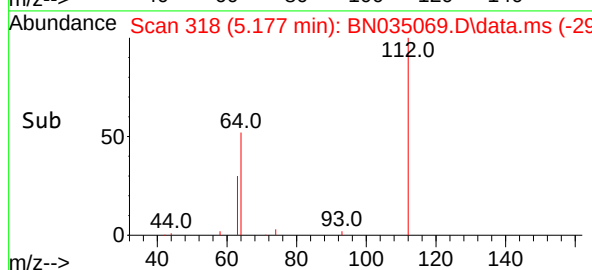
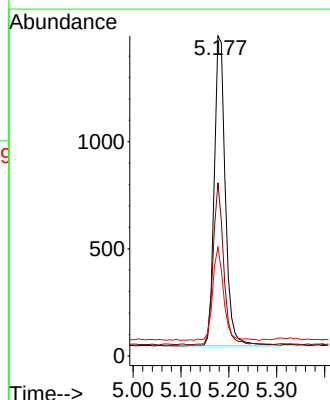
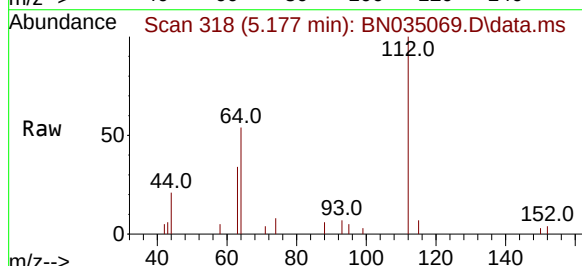
Manual Integrations
APPROVED

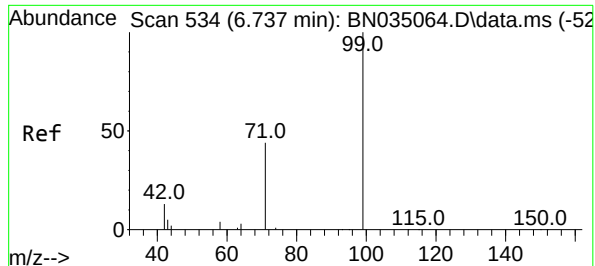
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#4
2-Fluorophenol
Concen: 0.368 ng
RT: 5.177 min Scan# 318
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

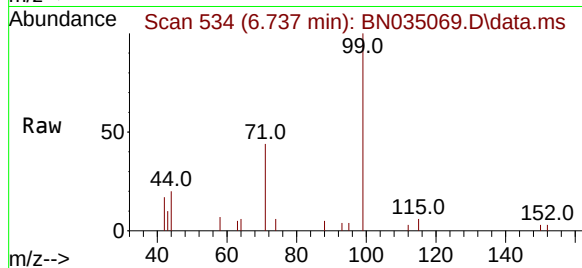
Tgt Ion:	112	Resp:	2342
Ion	Ratio	Lower	Upper
112	100		
64	48.8	39.7	59.5
63	30.1	23.0	34.4





#5
Phenol-d6
Concen: 0.359 ng
RT: 6.737 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

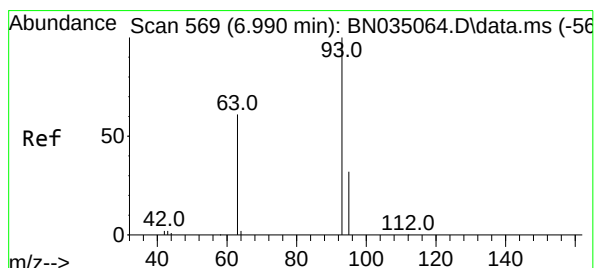
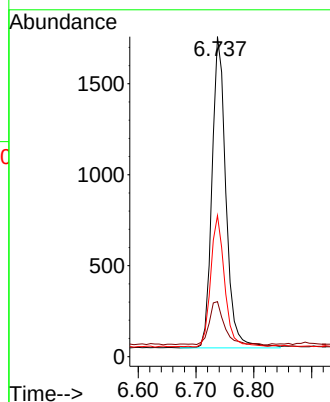
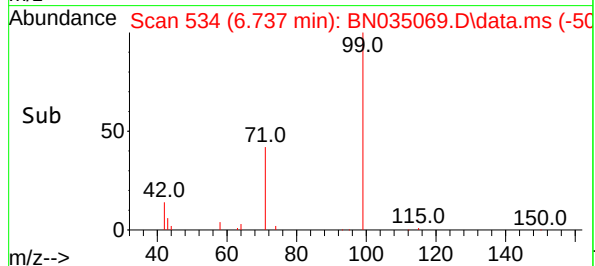
Instrument :
BNA_N
ClientSampleId :
ICVBN111324



Tgt Ion: 99 Resp: 286
Ion Ratio Lower Upper
99 100
42 14.4 11.4 17.0
71 42.1 34.6 51.8

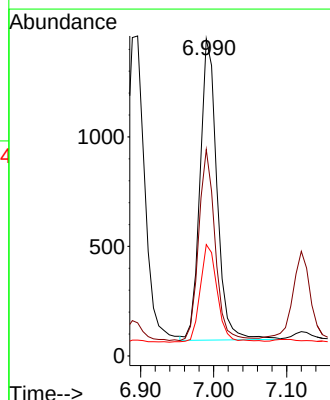
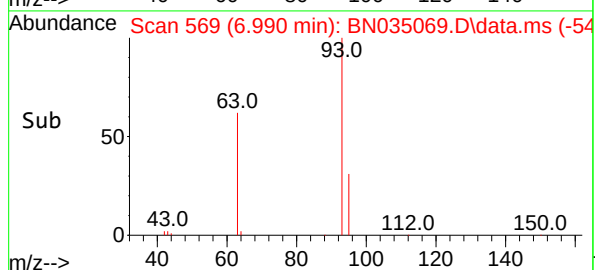
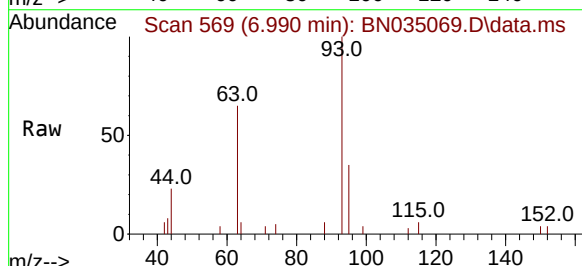
Manual Integrations
APPROVED

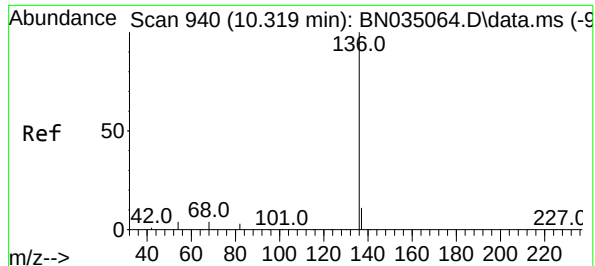
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.370 ng
RT: 6.990 min Scan# 569
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

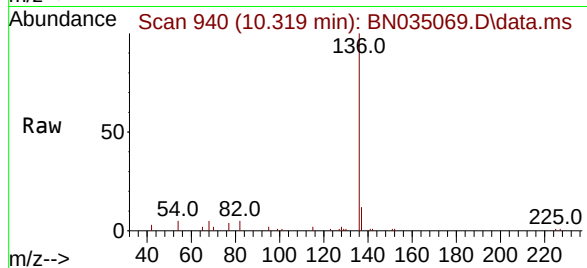
Tgt Ion: 93 Resp: 2218
Ion Ratio Lower Upper
93 100
63 61.3 47.4 71.2
95 33.0 26.2 39.4





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.319 min Scan# 940
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

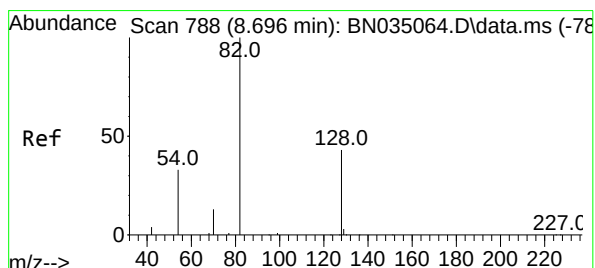
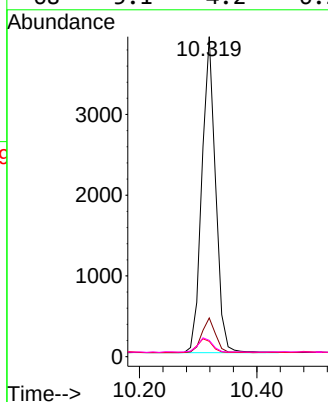
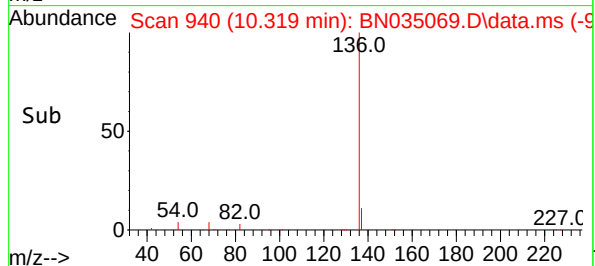
Instrument :
BNA_N
ClientSampleId :
ICVBN111324



Tgt Ion: 136 Resp: 636
Ion Ratio Lower Upper
136 100
137 12.1 9.8 14.8
54 4.8 4.0 6.0
68 5.1 4.2 6.2

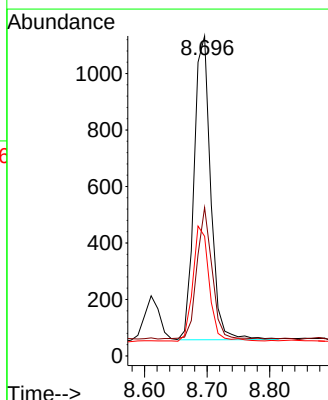
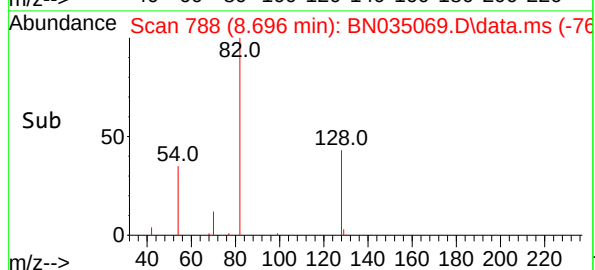
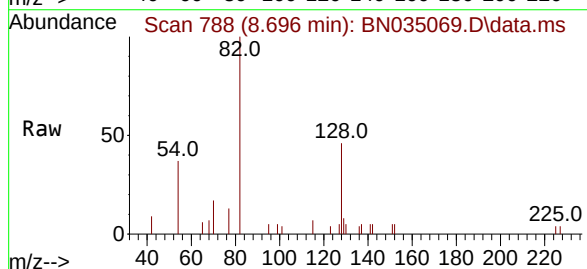
Manual Integrations
APPROVED

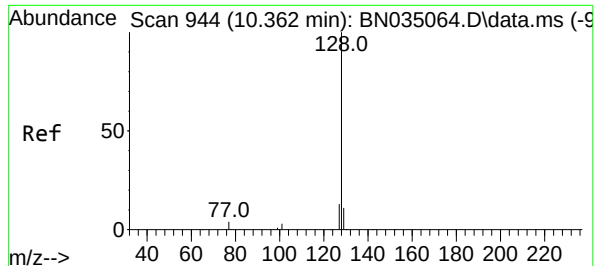
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#8
Nitrobenzene-d5
Concen: 0.358 ng
RT: 8.696 min Scan# 788
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion: 82 Resp: 1983
Ion Ratio Lower Upper
82 100
128 46.4 36.5 54.7
54 37.4 28.7 43.1





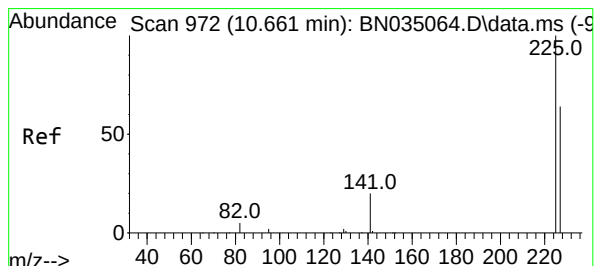
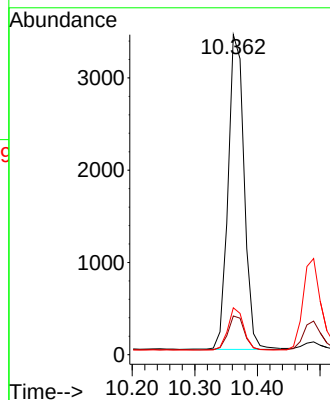
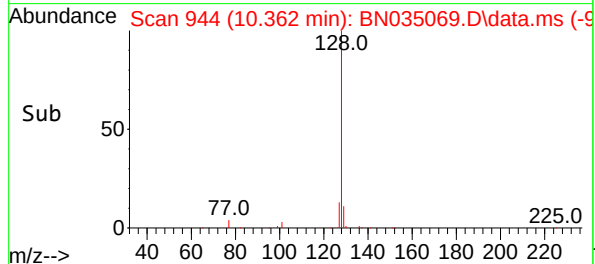
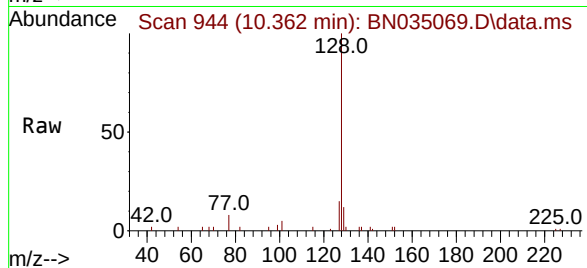
#9
Naphthalene
Concen: 0.366 ng
RT: 10.362 min Scan# 944
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Instrument :
BNA_N
ClientSampleId :
ICVBN111324

Tgt Ion:128 Resp: 6092
Ion Ratio Lower Upper
128 100
129 12.1 9.6 14.4
127 14.7 11.6 17.4

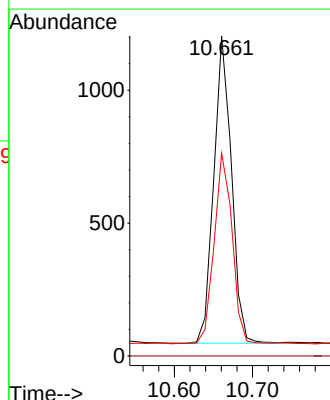
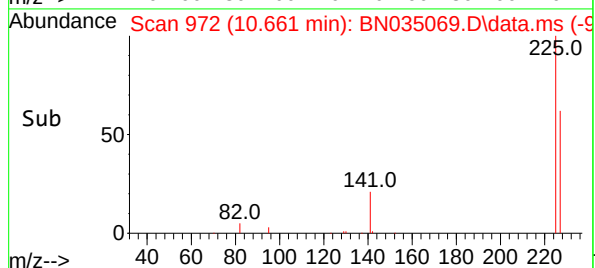
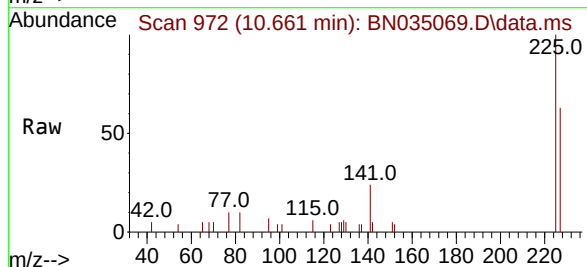
Manual Integrations
APPROVED

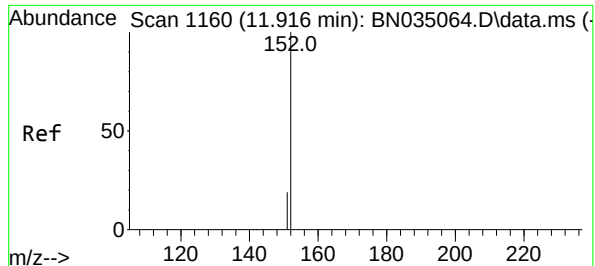
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#10
Hexachlorobutadiene
Concen: 0.373 ng
RT: 10.661 min Scan# 972
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

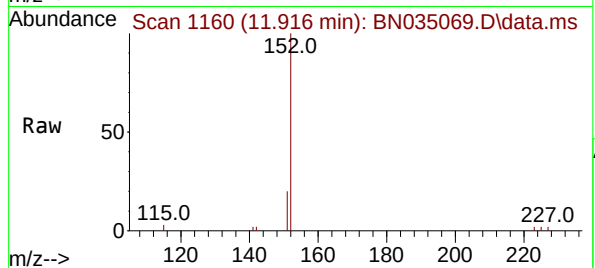
Tgt Ion:225 Resp: 1817
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.2 51.5 77.3





#11
2-Methylnaphthalene-d10
Concen: 0.367 ng
RT: 11.916 min Scan# 1160
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

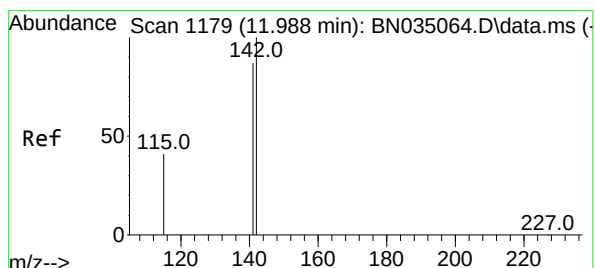
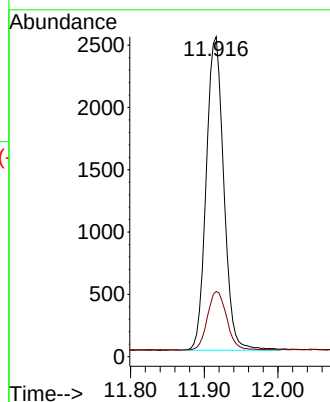
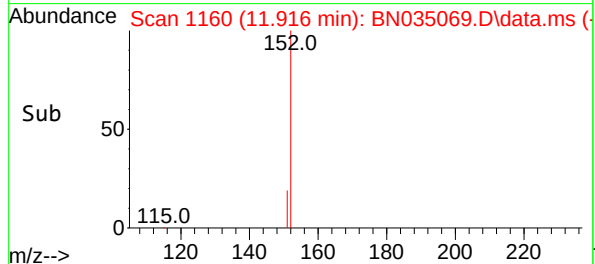
Instrument :
BNA_N
ClientSampleId :
ICVBN111324



Tgt Ion:152 Resp: 4160
Ion Ratio Lower Upper
152 100
151 20.6 16.2 24.4

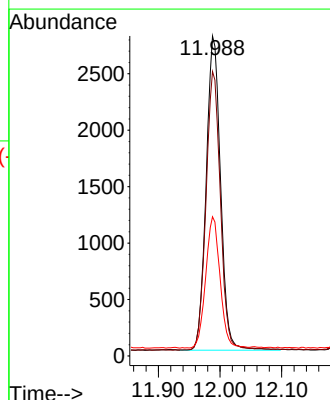
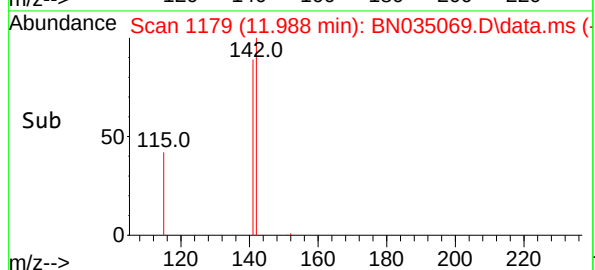
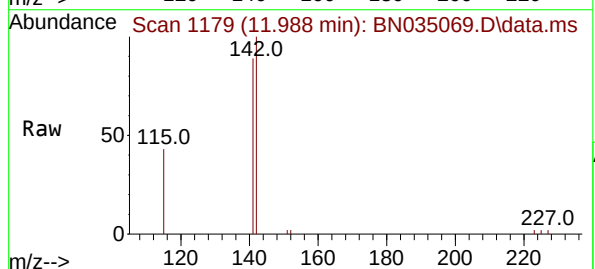
Manual Integrations
APPROVED

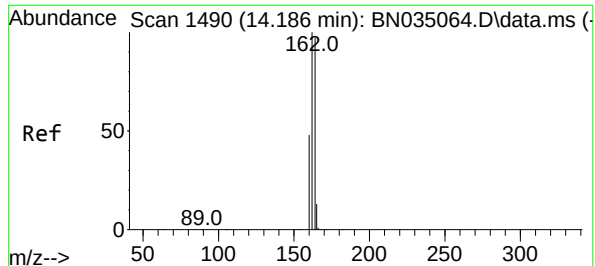
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#12
2-Methylnaphthalene
Concen: 0.368 ng
RT: 11.988 min Scan# 1179
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

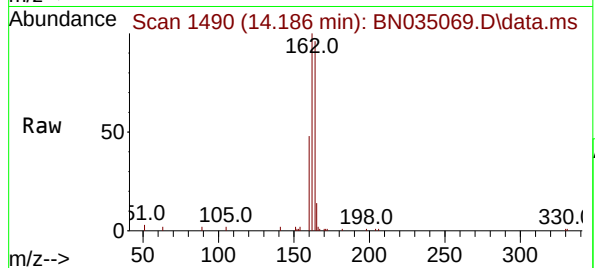
Tgt Ion:142 Resp: 4513
Ion Ratio Lower Upper
142 100
141 88.9 70.1 105.1
115 43.5 34.4 51.6





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.186 min Scan# 1490
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

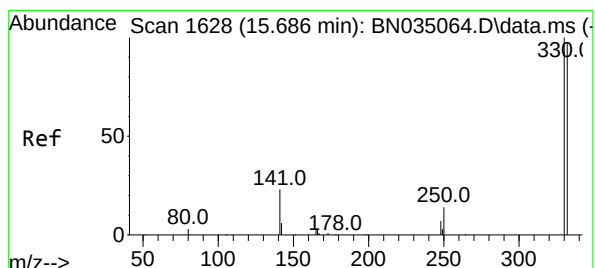
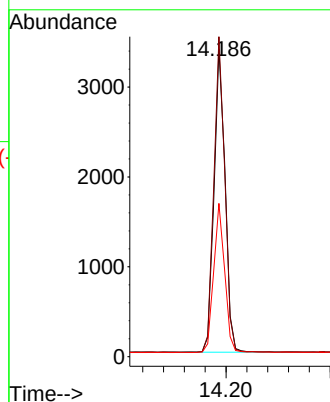
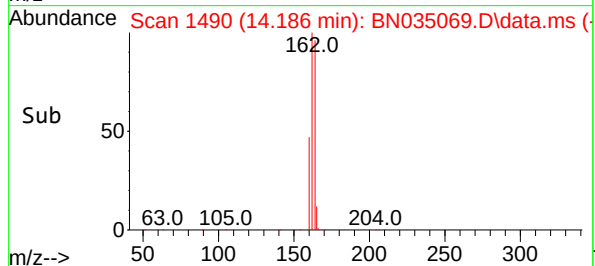
Instrument :
BNA_N
ClientSampleId :
ICVBN111324



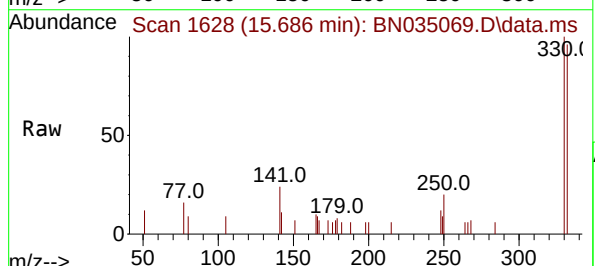
Tgt Ion:164 Resp: 496
Ion Ratio Lower Upper
164 100
162 104.1 82.2 123.2
160 49.8 40.2 60.4

Manual Integrations
APPROVED

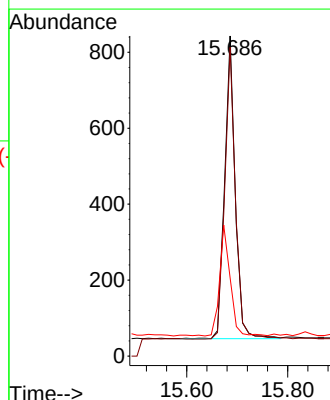
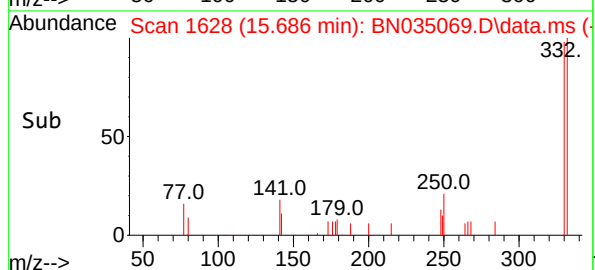
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

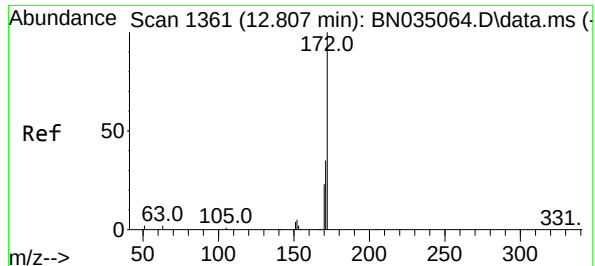


#14
2,4,6-Tribromophenol
Concen: 0.322 ng
RT: 15.686 min Scan# 1628
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51



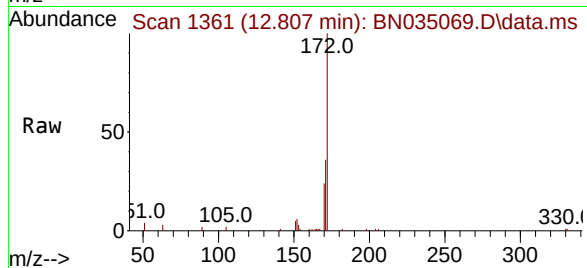
Tgt Ion:330 Resp: 1154
Ion Ratio Lower Upper
330 100
332 97.3 76.9 115.3
141 36.7 29.6 44.4





#15
2-Fluorobiphenyl
Concen: 0.357 ng
RT: 12.807 min Scan# 1361
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

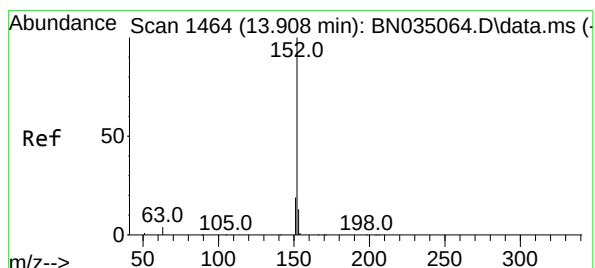
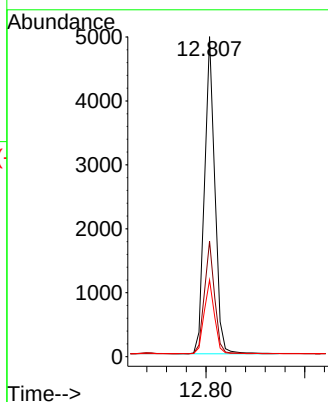
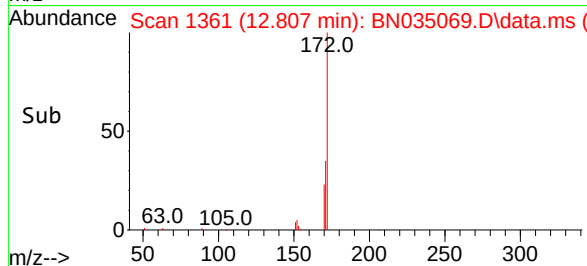
Instrument :
BNA_N
ClientSampleId :
ICVBN111324



Tgt Ion:172 Resp: 7200
Ion Ratio Lower Upper
172 100
171 36.1 28.2 42.4
170 23.9 19.0 28.6

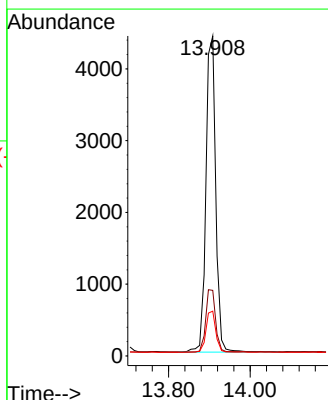
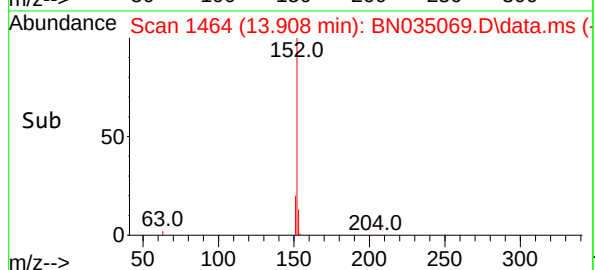
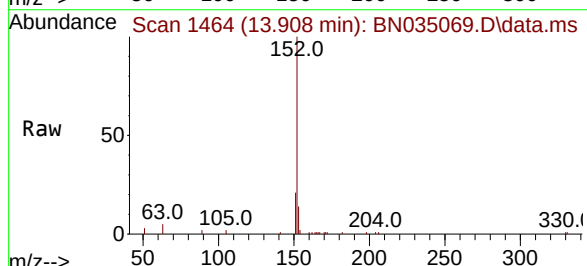
Manual Integrations
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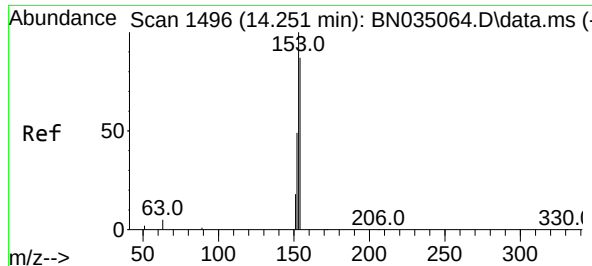
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#16
Acenaphthylene
Concen: 0.348 ng
RT: 13.908 min Scan# 1464
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

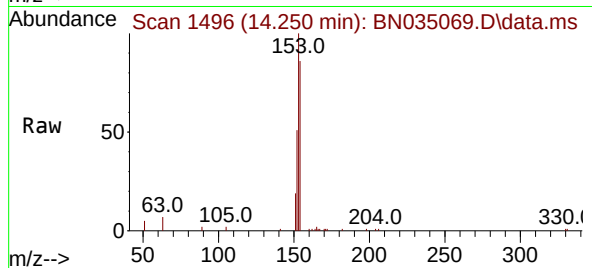
Tgt Ion:152 Resp: 7387
Ion Ratio Lower Upper
152 100
151 20.0 15.8 23.8
153 13.0 10.2 15.4





#17
Acenaphthene
Concen: 0.359 ng
RT: 14.250 min Scan# 1496
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

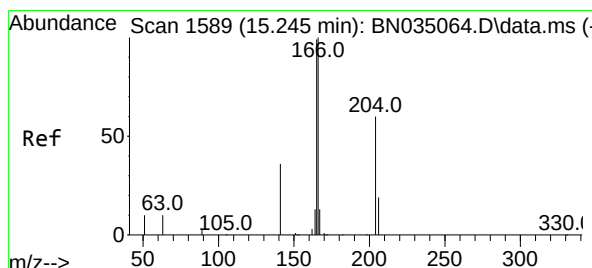
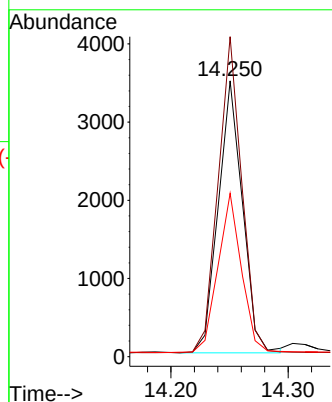
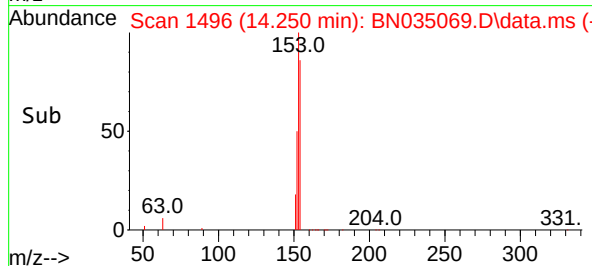
Instrument :
BNA_N
ClientSampleId :
ICVBN111324



Tgt Ion:154 Resp: 4998
Ion Ratio Lower Upper
154 100
153 113.2 91.6 137.4
152 57.7 45.8 68.6

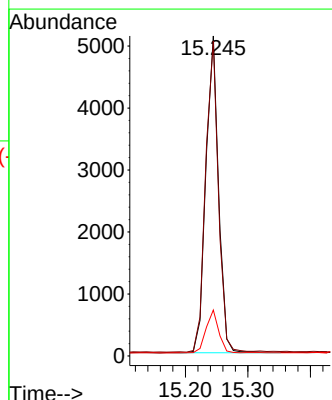
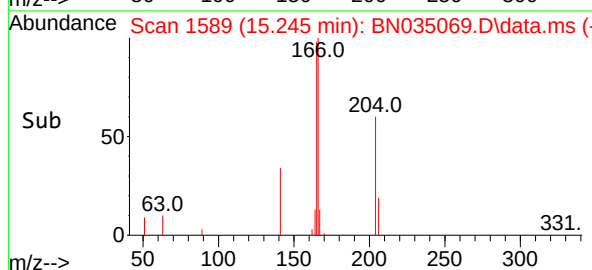
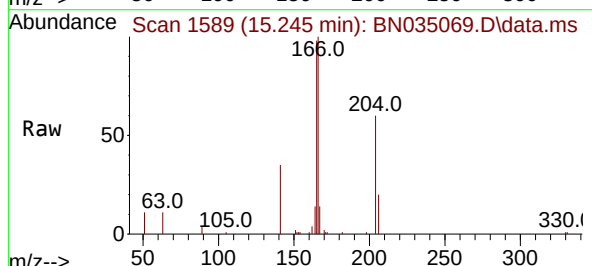
Manual Integrations
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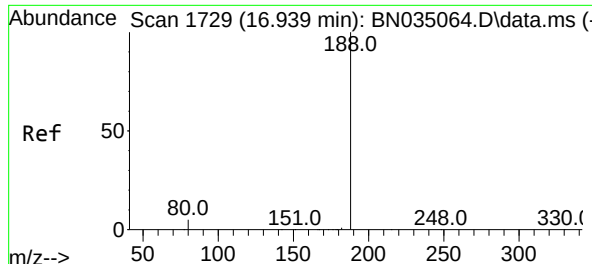
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#18
Fluorene
Concen: 0.352 ng
RT: 15.245 min Scan# 1589
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:166 Resp: 7206
Ion Ratio Lower Upper
166 100
165 99.0 79.1 118.7
167 13.7 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.939 min Scan# 1729

Delta R.T. -0.000 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

Instrument :

BNA_N

ClientSampleId :

ICVBN111324

Tgt Ion:188 Resp: 1268

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

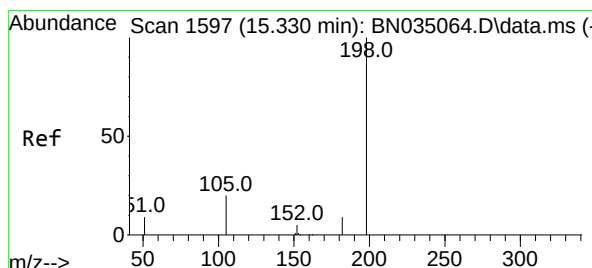
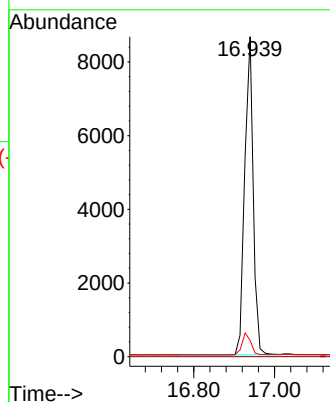
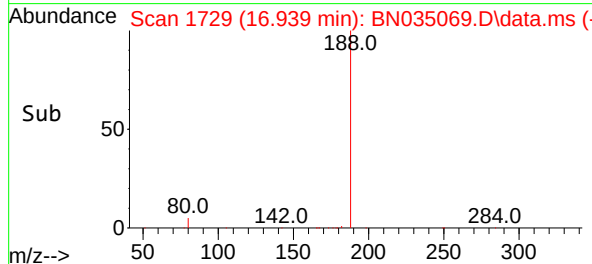
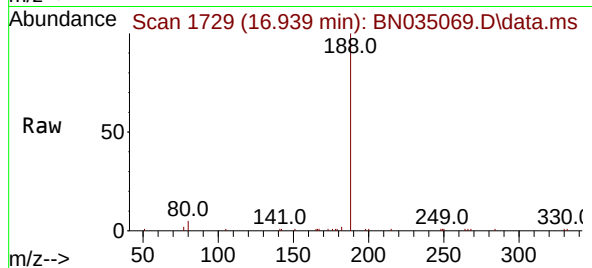
80 5.1 4.3 6.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/14/2024

Supervised By :mohammad ahmed 11/14/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.330 ng m

RT: 15.330 min Scan# 1597

Delta R.T. 0.000 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

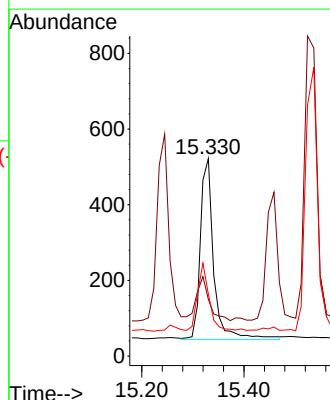
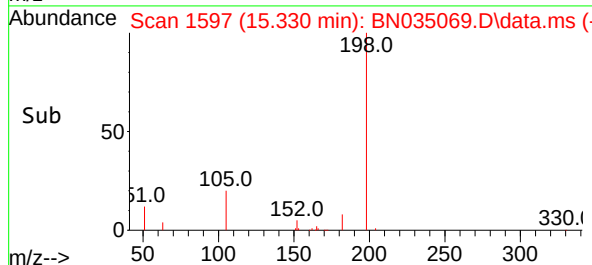
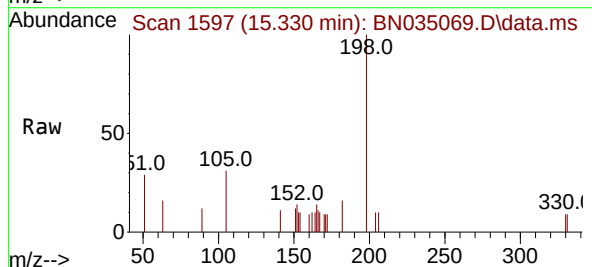
Tgt Ion:198 Resp: 870

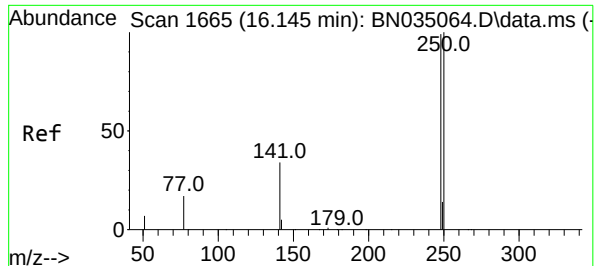
Ion Ratio Lower Upper

198 100

51 28.7 29.9 44.9

105 31.4 23.7 35.5





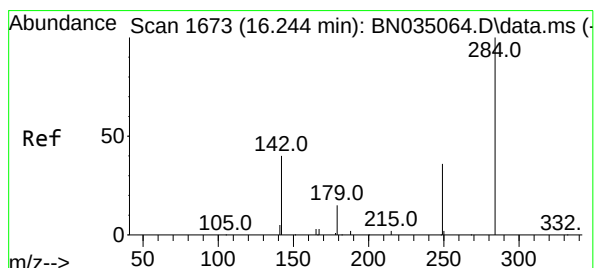
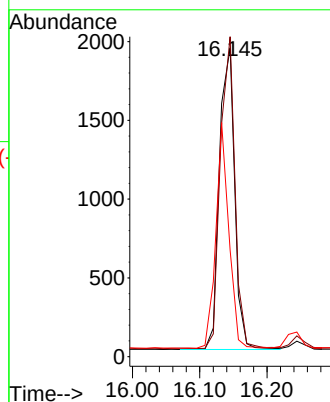
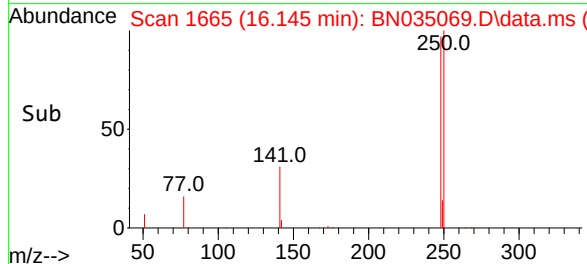
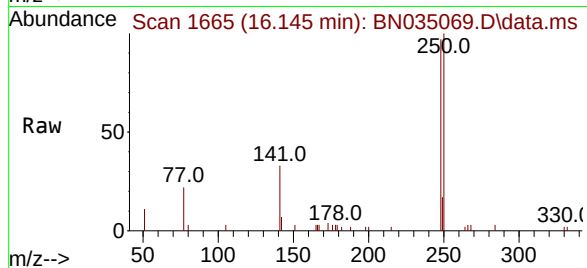
#21
4-Bromophenyl-phenylether
Concen: 0.371 ng
RT: 16.145 min Scan# 1665
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Instrument :
BNA_N
ClientSampleId :
ICVBN111324

Tgt Ion	Ratio	Lower	Upper
248	100		
250	103.6	81.2	121.8
141	34.5	29.1	43.7

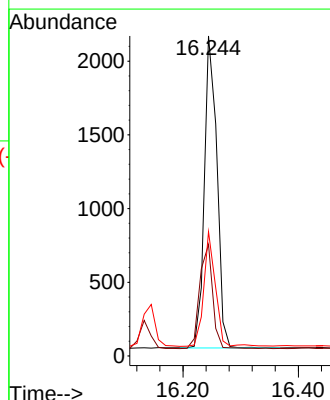
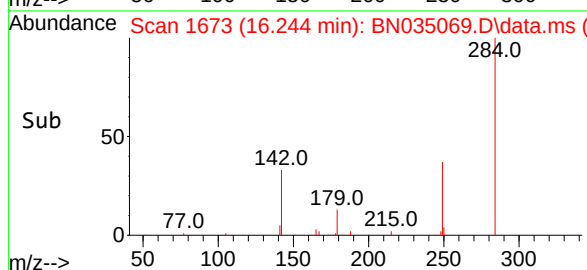
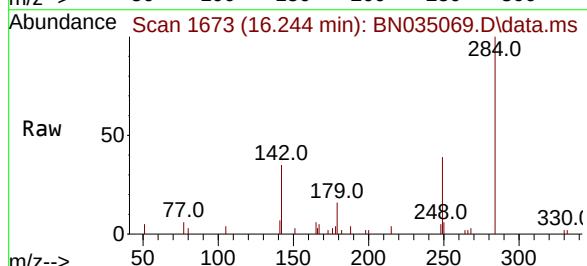
Manual Integrations
APPROVED

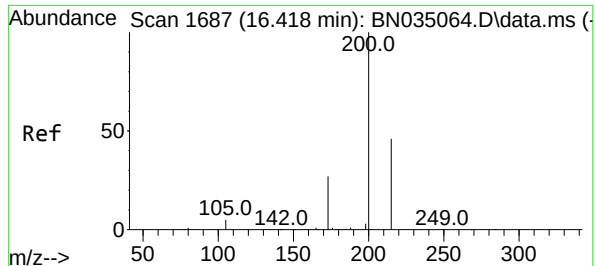
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#22
Hexachlorobenzene
Concen: 0.379 ng
RT: 16.244 min Scan# 1673
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion	Ratio	Lower	Upper
284	100		
142	34.7	28.2	42.4
249	33.7	26.2	39.2





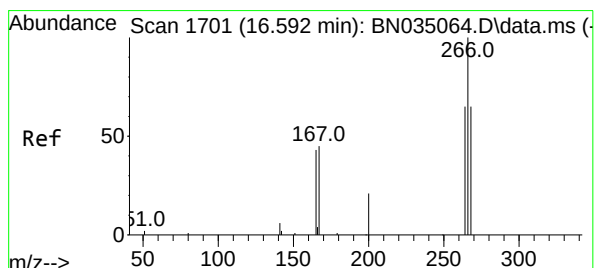
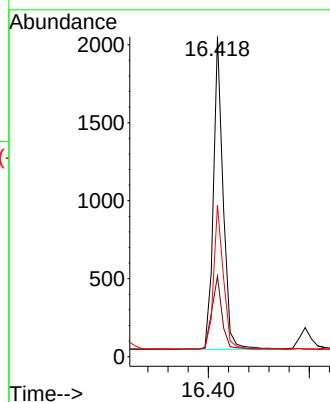
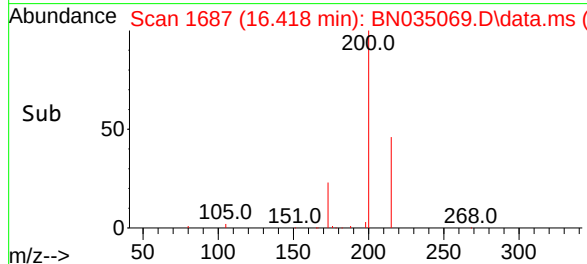
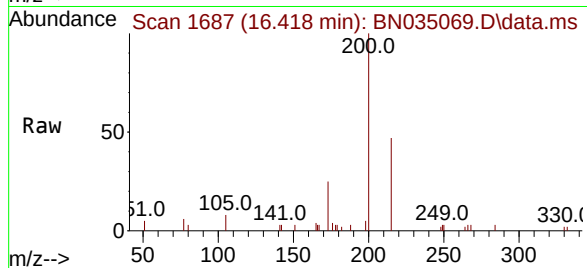
#23
Atrazine
Concen: 0.370 ng
RT: 16.418 min Scan# 1687
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Instrument :
BNA_N
ClientSampleId :
ICVBN111324

Tgt Ion:200 Resp: 268
Ion Ratio Lower Upper
200 100
173 25.1 22.6 33.8
215 47.3 37.8 56.6

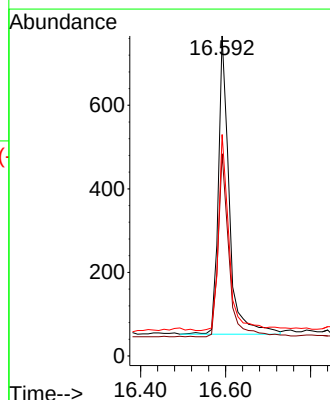
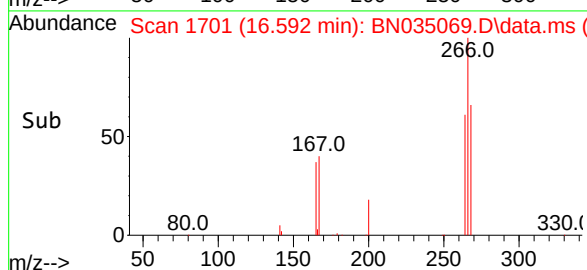
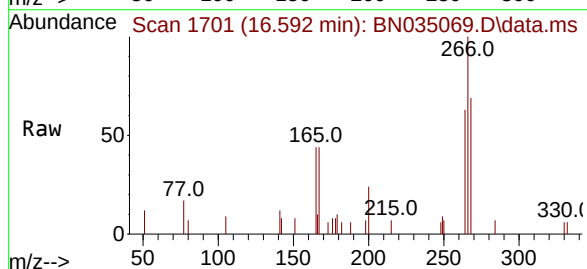
Manual Integrations
APPROVED

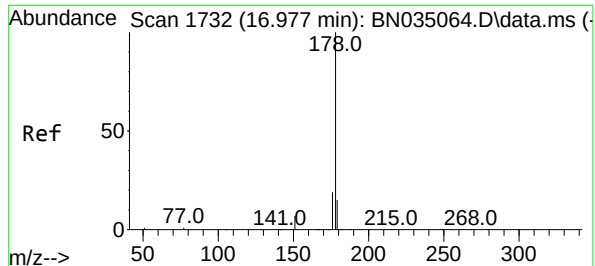
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#24
Pentachlorophenol
Concen: 0.324 ng
RT: 16.592 min Scan# 1701
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

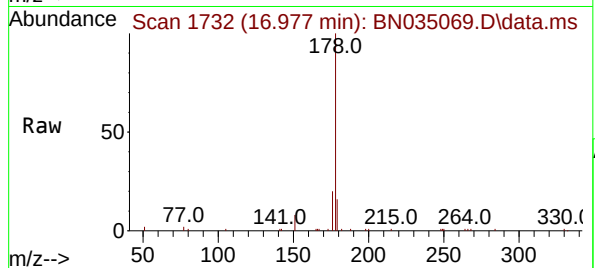
Tgt Ion:266 Resp: 1269
Ion Ratio Lower Upper
266 100
264 60.5 49.4 74.0
268 63.4 52.6 79.0





#25
Phenanthrene
Concen: 0.375 ng
RT: 16.977 min Scan# 1732
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

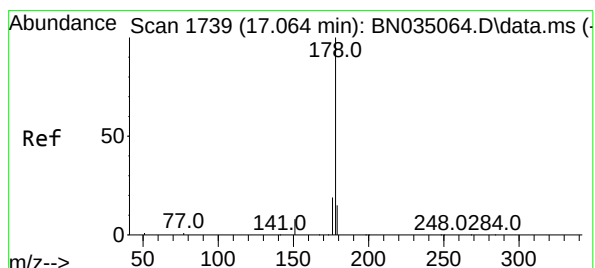
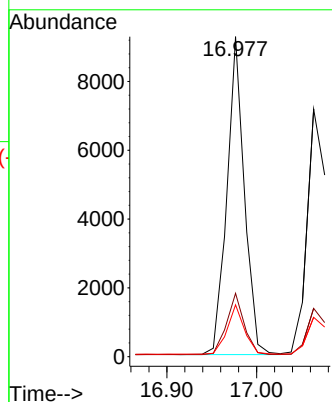
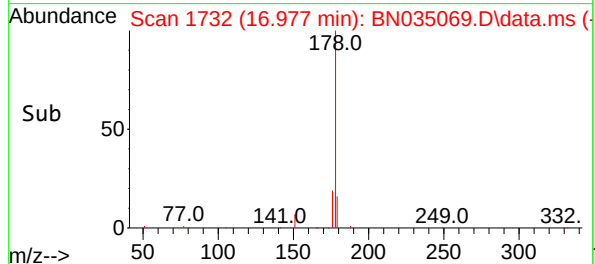
Instrument :
BNA_N
ClientSampleId :
ICVBN111324



Tgt Ion:178 Resp: 1251
Ion Ratio Lower Upper
178 100
176 19.5 15.2 22.8
179 15.6 12.6 18.8

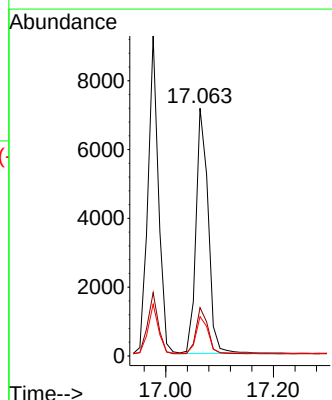
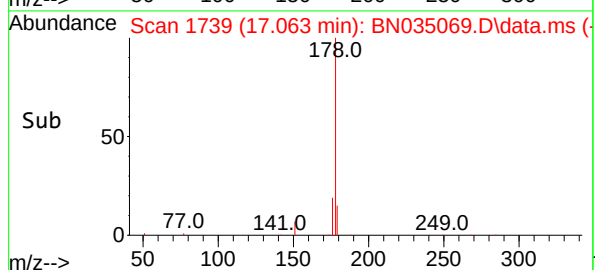
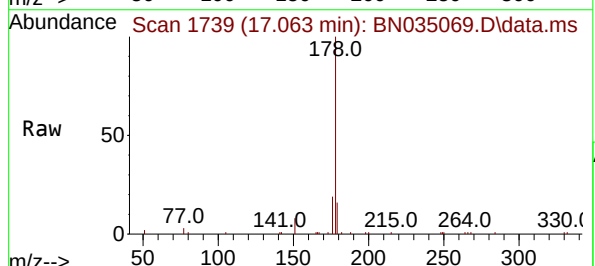
Manual Integrations
APPROVED

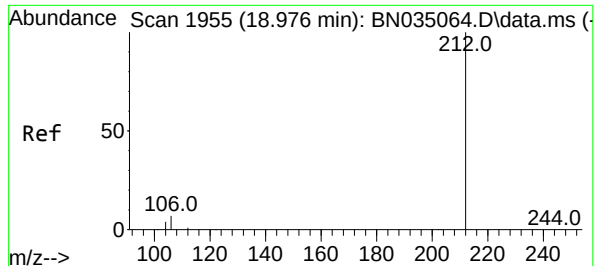
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#26
Anthracene
Concen: 0.366 ng
RT: 17.063 min Scan# 1739
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:178 Resp: 11219
Ion Ratio Lower Upper
178 100
176 18.6 14.6 22.0
179 15.2 12.2 18.2





#27

Fluoranthene-d10

Concen: 0.374 ng

RT: 18.976 min Scan# 1955

Delta R.T. -0.000 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

Instrument :

BNA_N

ClientSampleId :

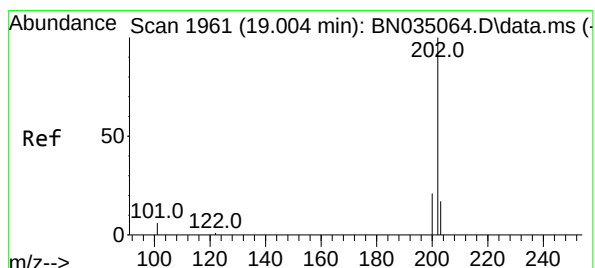
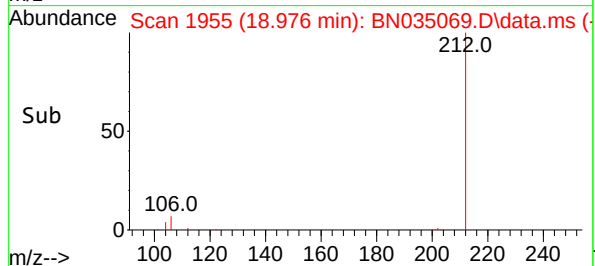
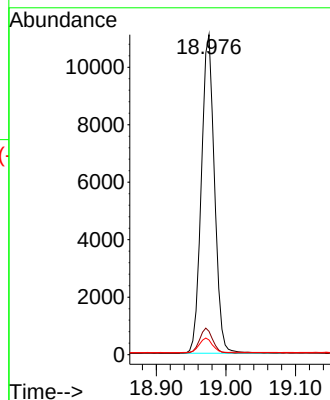
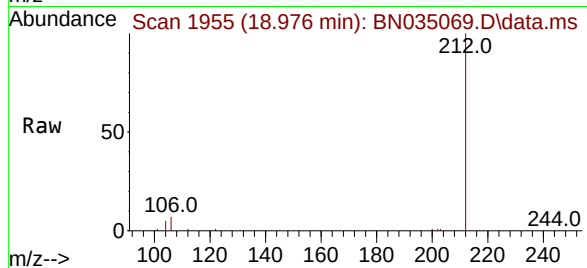
ICVBN111324

Tgt Ion:	212	Resp:	14530
Ion Ratio	Lower	Upper	
212	100		
106	7.8	6.0	9.0
104	4.5	3.5	5.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#28

Fluoranthene

Concen: 0.372 ng

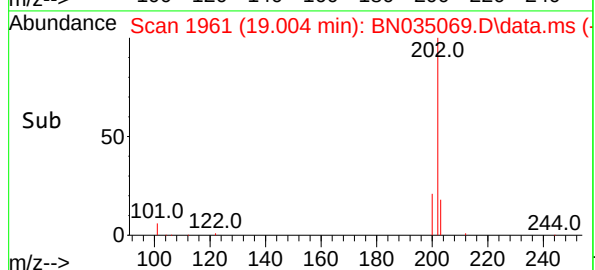
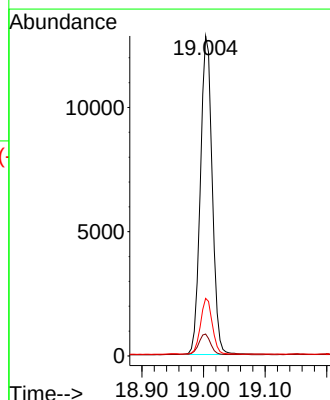
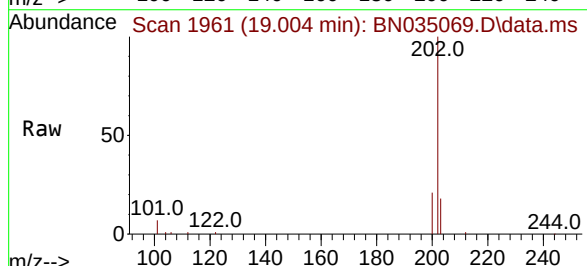
RT: 19.004 min Scan# 1961

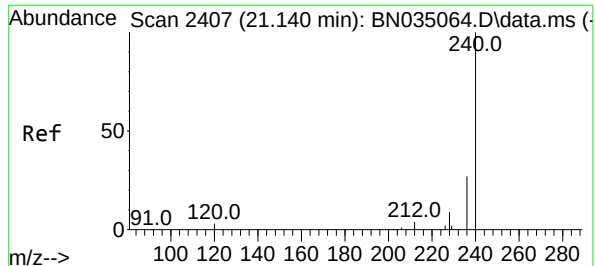
Delta R.T. -0.000 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

Tgt Ion:	202	Resp:	17084
Ion Ratio	Lower	Upper	
202	100		
101	6.6	5.2	7.8
203	17.3	13.8	20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.140 min Scan# 2407

Delta R.T. -0.000 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

Instrument :

BNA_N

ClientSampleId :

ICVBN111324

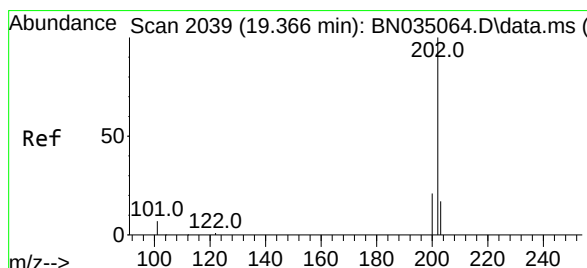
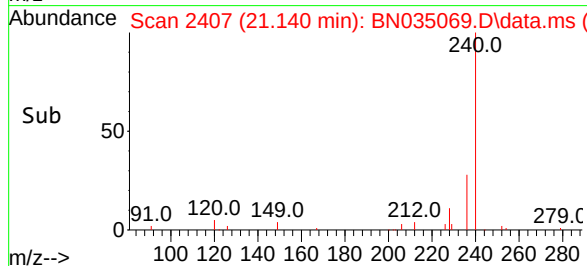
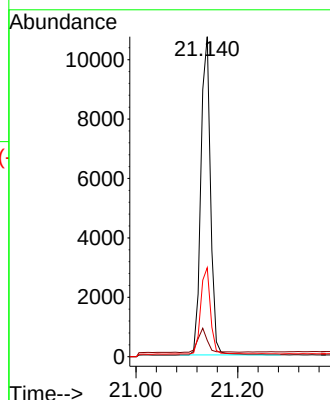
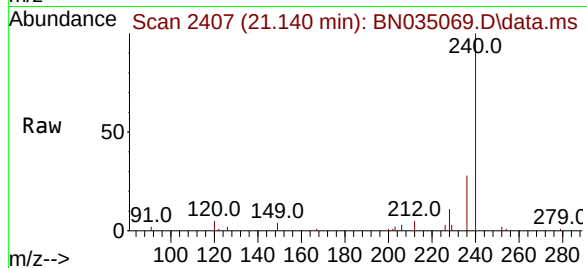
Tgt Ion:	240	Resp:	1405
Ion Ratio	Lower	Upper	
240	100		
120	5.1	3.8	5.6
236	27.8	22.2	33.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/14/2024

Supervised By :mohammad ahmed 11/14/2024



#30

Pyrene

Concen: 0.376 ng

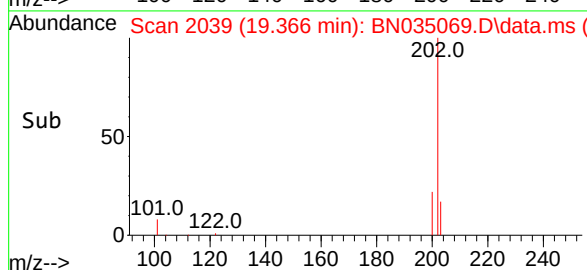
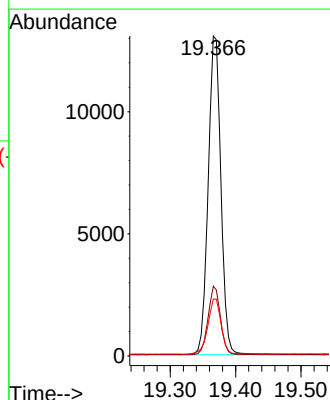
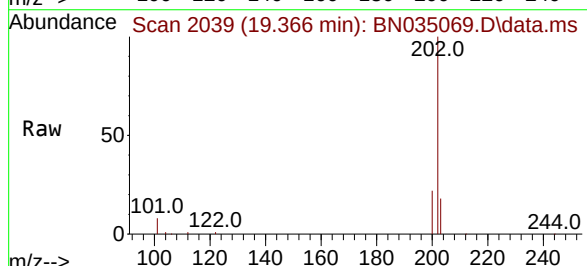
RT: 19.366 min Scan# 2039

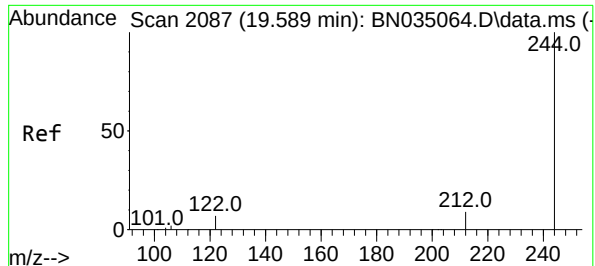
Delta R.T. -0.000 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

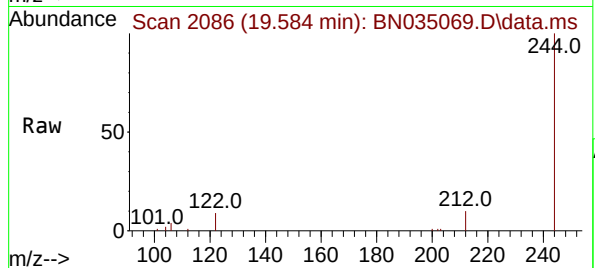
Tgt Ion:	202	Resp:	17580
Ion Ratio	Lower	Upper	
202	100		
200	20.9	16.7	25.1
203	18.1	14.2	21.4





#31
Terphenyl-d14
Concen: 0.381 ng
RT: 19.584 min Scan# 2087
Delta R.T. -0.005 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

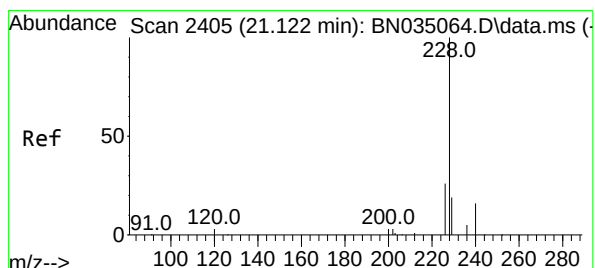
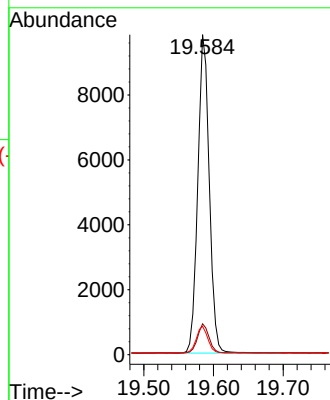
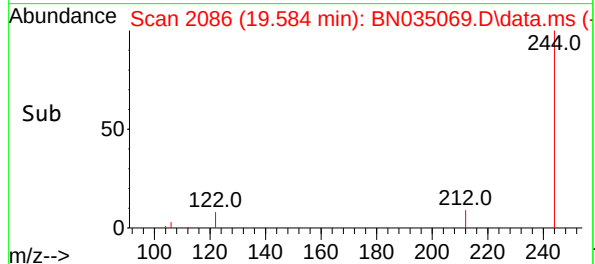
Instrument :
BNA_N
ClientSampleId :
ICVBN111324



Tgt Ion:244 Resp: 11240
Ion Ratio Lower Upper
244 100
212 9.6 7.6 11.4
122 8.9 6.1 9.1

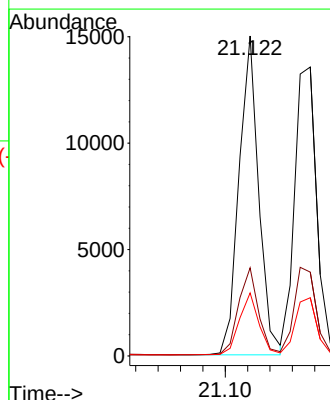
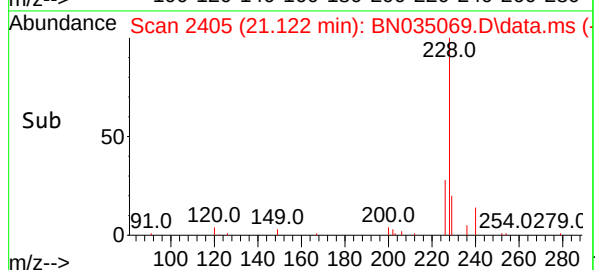
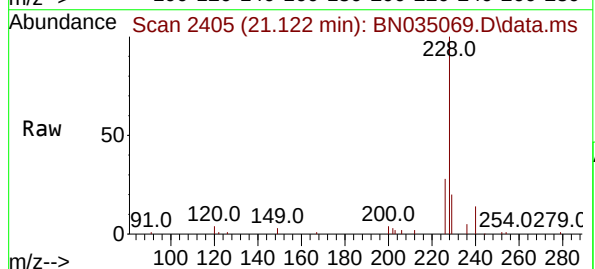
Manual Integrations
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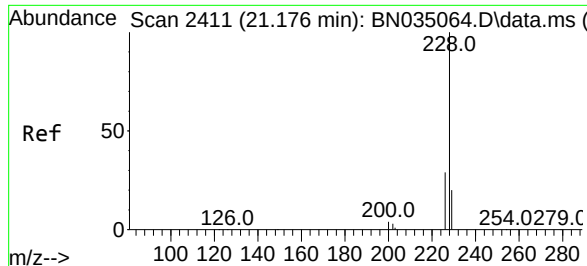
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#32
Benzo(a)anthracene
Concen: 0.376 ng
RT: 21.122 min Scan# 2405
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:228 Resp: 18406
Ion Ratio Lower Upper
228 100
226 27.6 21.4 32.0
229 19.7 15.7 23.5





#33

Chrysene

Concen: 0.386 ng

RT: 21.176 min Scan# 2411

Delta R.T. -0.000 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

Instrument :

BNA_N

ClientSampleId :

ICVBN111324

Tgt Ion:228 Resp: 1869

Ion Ratio Lower Upper

228 100

226 29.0 23.7 35.5

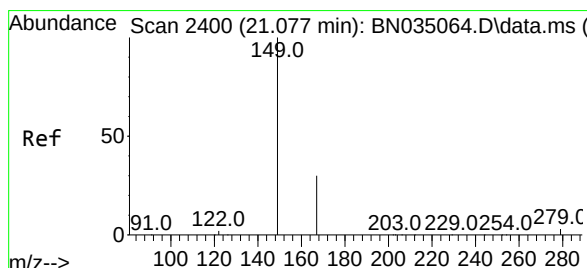
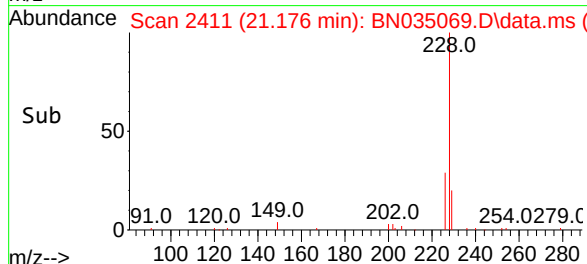
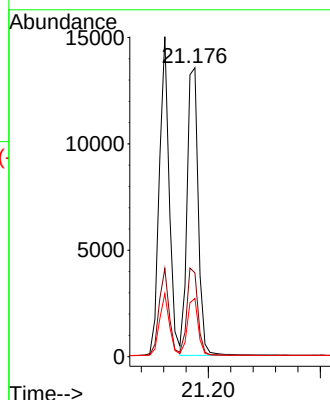
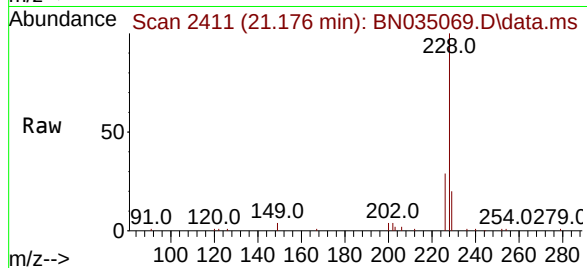
229 20.2 16.2 24.4

Manual Integrations

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Reviewed By :Yogesh Patel 11/14/2024

Supervised By :mohammad ahmed 11/14/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.338 ng

RT: 21.077 min Scan# 2400

Delta R.T. -0.000 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

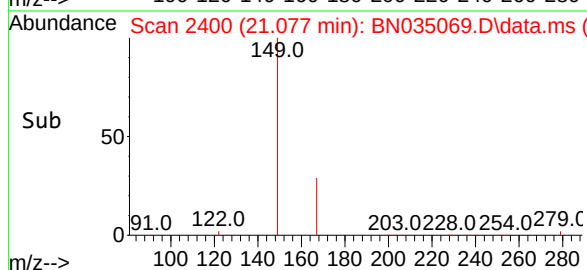
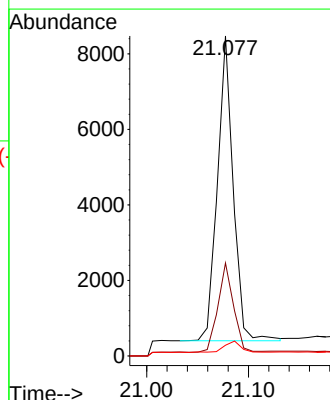
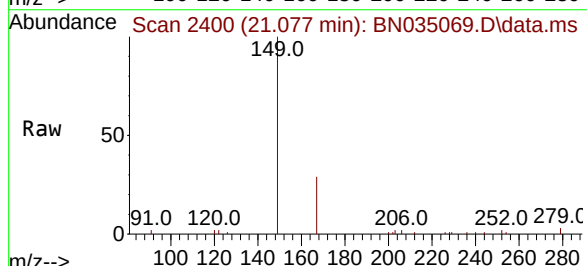
Tgt Ion:149 Resp: 8691

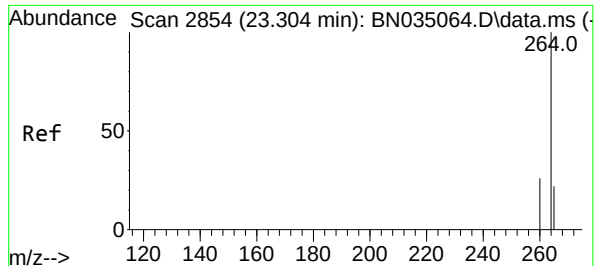
Ion Ratio Lower Upper

149 100

167 29.0 23.2 34.8

279 3.9 3.2 4.8





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.304 min Scan# 2854

Delta R.T. -0.000 min

Lab File: BN035069.D

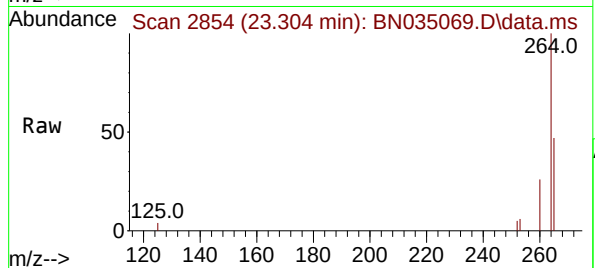
Acq: 13 Nov 2024 16:51

Instrument :

BNA_N

ClientSampleId :

ICVBN111324



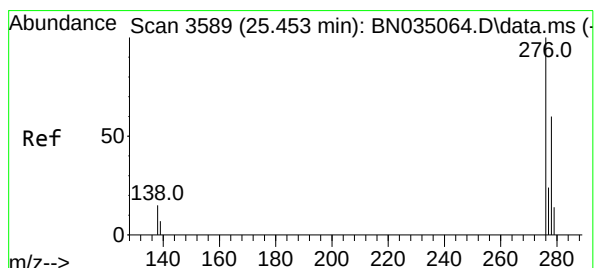
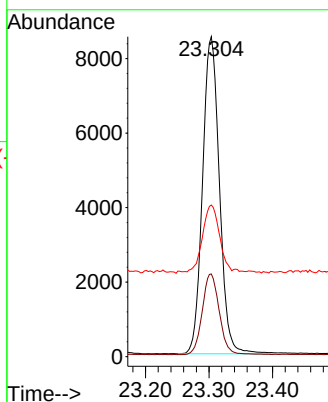
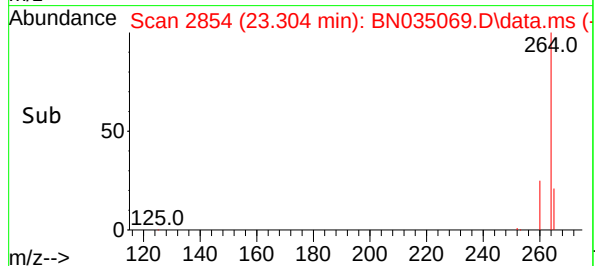
Tgt Ion:	264	Resp:	15724
Ion Ratio	Lower	Upper	
264	100		
260	25.8	20.9	31.3
265	47.4	35.4	53.2

Manual Integrations

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Reviewed By :Yogesh Patel 11/14/2024

Supervised By :mohammad ahmed 11/14/2024



#36

Indeno(1,2,3-cd)pyrene

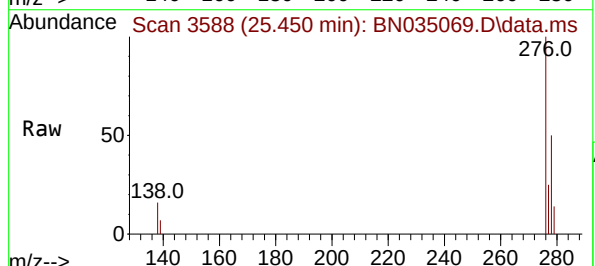
Concen: 0.375 ng

RT: 25.450 min Scan# 3588

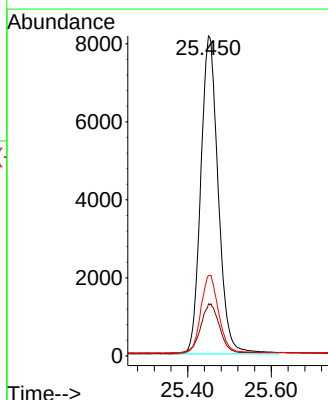
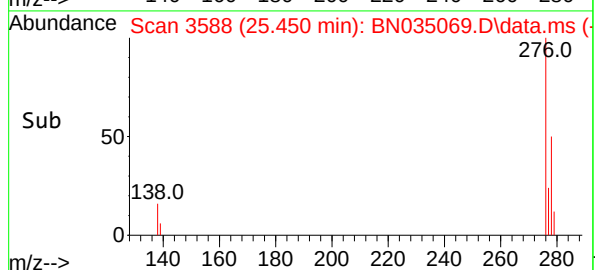
Delta R.T. -0.003 min

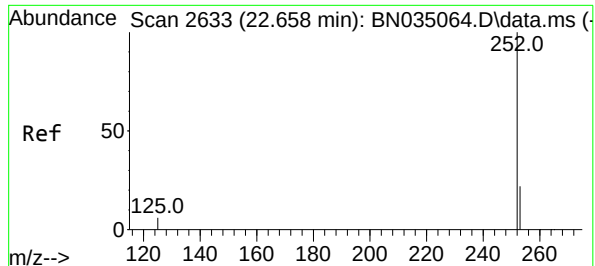
Lab File: BN035069.D

Acq: 13 Nov 2024 16:51



Tgt Ion:	276	Resp:	23546
Ion Ratio	Lower	Upper	
276	100		
138	16.9	13.0	19.4
277	24.2	19.8	29.6





#37

Benzo(b)fluoranthene

Concen: 0.379 ng

RT: 22.660 min Scan# 2633

Delta R.T. 0.003 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

Instrument :

BNA_N

ClientSampleId :

ICVBN111324

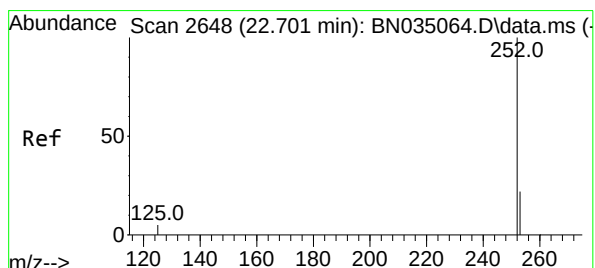
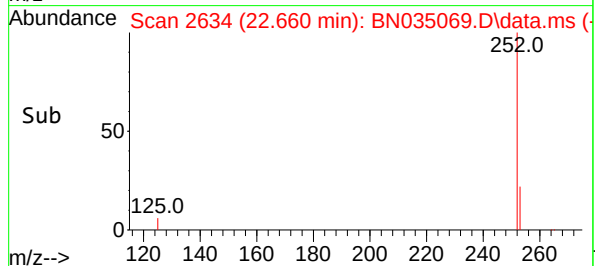
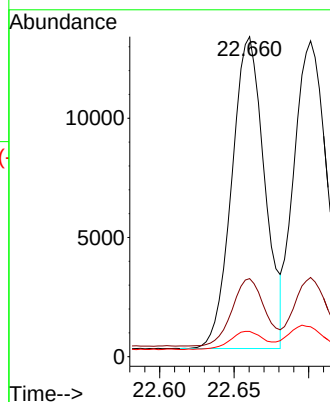
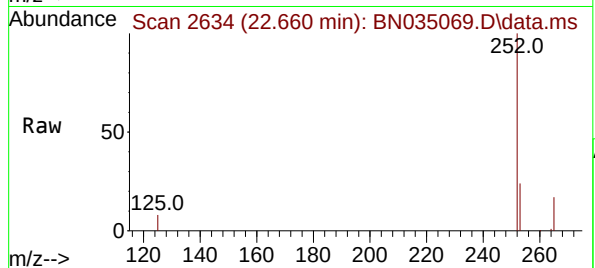
Tgt Ion:	252	Resp:	20039
Ion Ratio	Lower	Upper	
252	100		
253	24.4	19.3	28.9
125	7.9	6.2	9.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/14/2024

Supervised By :mohammad ahmed 11/14/2024



#38

Benzo(k)fluoranthene

Concen: 0.380 ng

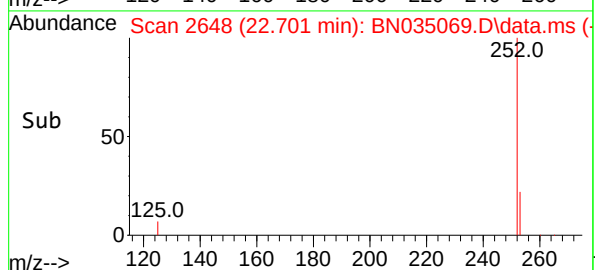
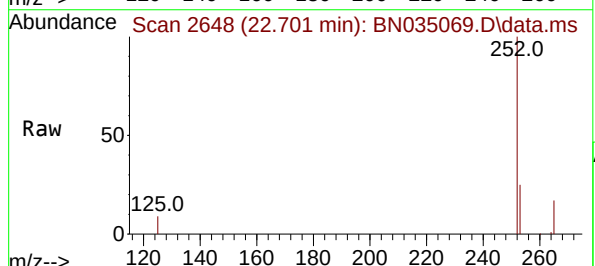
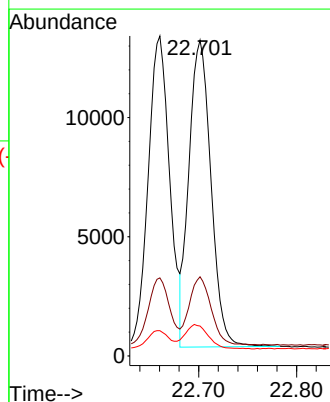
RT: 22.701 min Scan# 2648

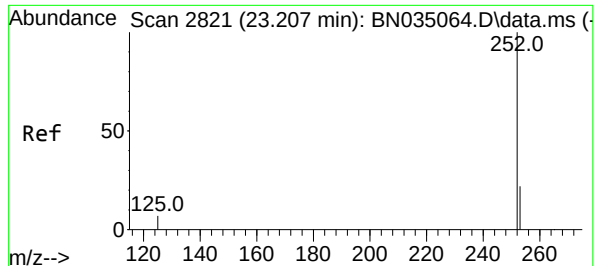
Delta R.T. -0.000 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

Tgt Ion:	252	Resp:	20114
Ion Ratio	Lower	Upper	
252	100		
253	25.1	19.5	29.3
125	9.5	6.5	9.7





#39

Benzo(a)pyrene

Concen: 0.378 ng

RT: 23.210 min Scan# 2821

Delta R.T. 0.003 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

Instrument :

BNA_N

ClientSampleId :

ICVBN111324

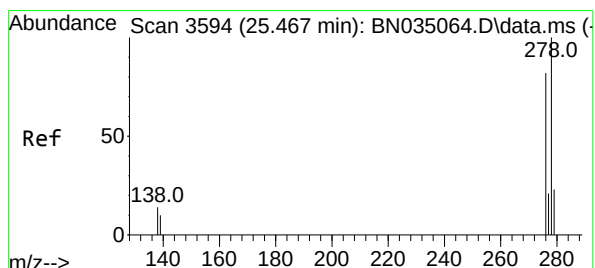
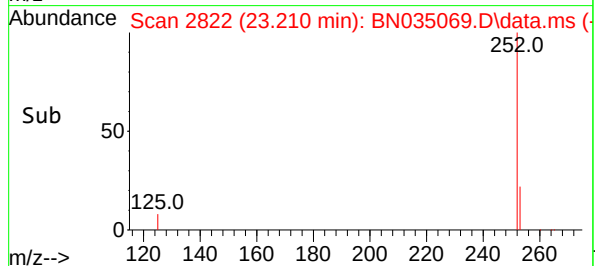
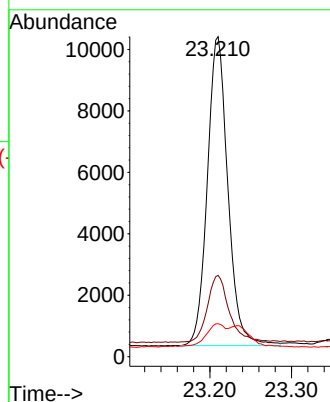
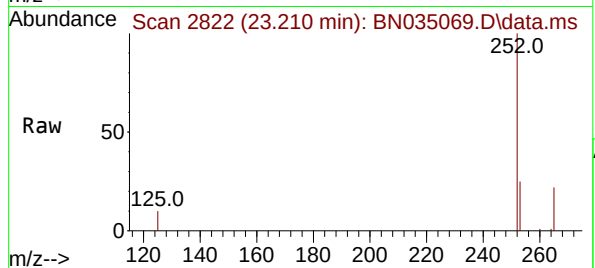
Tgt Ion:	252	Resp:	17590
Ion Ratio	Lower	Upper	
252	100		
253	25.4	20.1	30.1
125	10.3	7.5	11.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/14/2024

Supervised By :mohammad ahmed 11/14/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.373 ng

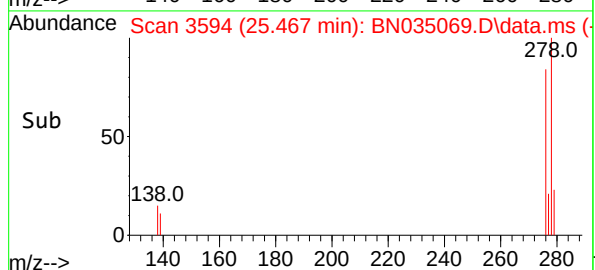
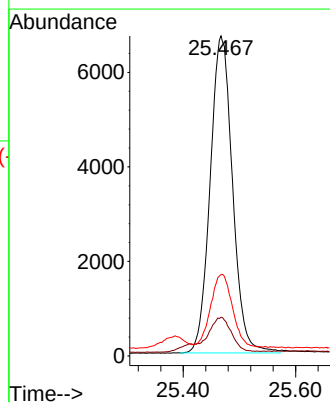
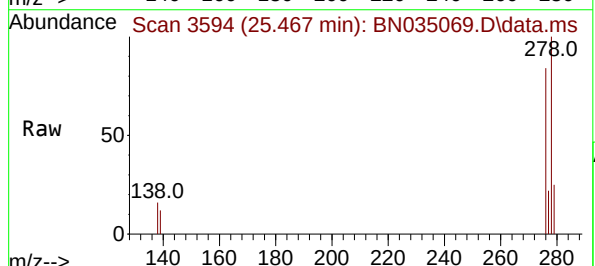
RT: 25.467 min Scan# 3594

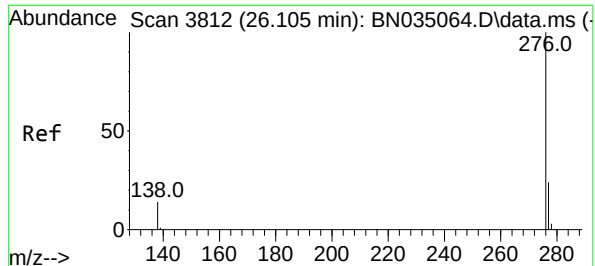
Delta R.T. -0.000 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

Tgt Ion:	278	Resp:	18547
Ion Ratio	Lower	Upper	
278	100		
139	12.1	9.3	13.9
279	25.4	19.7	29.5





#41

Benzo(g,h,i)perylene

Concen: 0.372 ng

RT: 26.104 min Scan# 3812

Delta R.T. -0.000 min

Lab File: BN035069.D

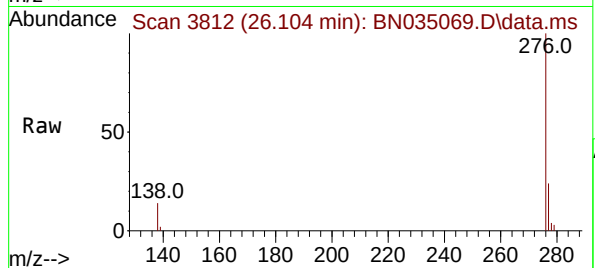
Acq: 13 Nov 2024 16:51

Instrument :

BNA_N

ClientSampleId :

ICVBN111324



Tgt Ion:276 Resp: 19649

Ion Ratio Lower Upper

276 100

277 24.2 19.9 29.9

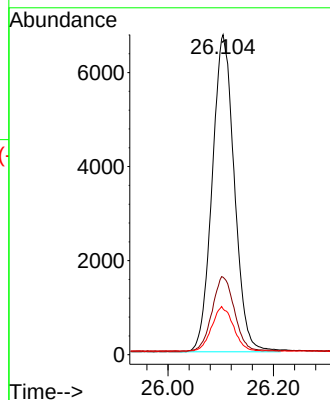
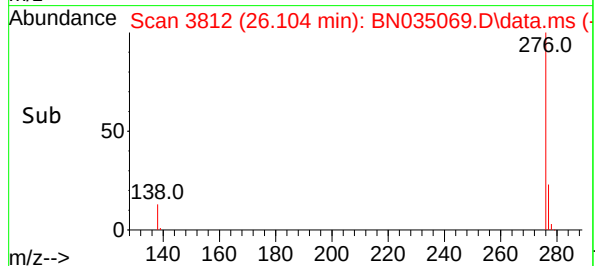
138 14.3 11.6 17.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/14/2024

Supervised By :mohammad ahmed 11/14/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
 Data File : BN035069.D
 Acq On : 13 Nov 2024 16:51
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN111324

Quant Time: Nov 13 17:18:36 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 17:18:14 2024
 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	89	0.00
2	1,4-Dioxane	0.363	0.337	7.2	90	0.00
3	n-Nitrosodimethylamine	0.339	0.311	8.3	85	0.00
4 S	2-Fluorophenol	1.015	0.933	8.1	88	0.00
5 S	Phenol-d6	1.273	1.143	10.2	88	0.00
6	bis(2-Chloroethyl)ether	0.956	0.884	7.5	89	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	93	0.00
8 S	Nitrobenzene-d5	0.348	0.311	10.6	90	0.00
9	Naphthalene	1.044	0.957	8.3	91	0.00
10	Hexachlorobutadiene	0.306	0.285	6.9	90	0.00
11 SURR	2-Methylnaphthalene-d10	0.713	0.654	8.3	91	0.00
12	2-Methylnaphthalene	0.770	0.709	7.9	92	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	92	0.00
14 S	2,4,6-Tribromophenol	0.289	0.232	19.7	89	0.00
15 S	2-Fluorobiphenyl	1.624	1.451	10.7	91	0.00
16	Acenaphthylene	1.709	1.487	13.0	92	0.00
17	Acenaphthene	1.120	1.006	10.2	92	0.00
18	Fluorene	1.648	1.451	12.0	91	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	94	0.00
20	4,6-Dinitro-2-methylphenol	0.083	0.069	16.9	89	0.00
21	4-Bromophenyl-phenylether	0.255	0.237	7.1	90	0.00
22	Hexachlorobenzene	0.264	0.250	5.3	93	0.00
23	Atrazine	0.229	0.211	7.9	92	0.00
24	Pentachlorophenol	0.124	0.100	19.4	91	0.00
25	Phenanthrene	1.053	0.987	6.3	92	0.00
26	Anthracene	0.967	0.885	8.5	90	0.00
27 SURR	Fluoranthene-d10	1.225	1.146	6.4	92	0.00
28	Fluoranthene	1.448	1.347	7.0	91	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	94	0.00
30	Pyrene	1.332	1.251	6.1	91	0.00
31 S	Terphenyl-d14	0.839	0.800	4.6	93	0.00
32	Benzo(a)anthracene	1.393	1.310	6.0	93	0.00
33	Chrysene	1.380	1.330	3.6	94	0.00
34	Bis(2-ethylhexyl)phthalate	0.731	0.618	15.5	90	0.00
35 I	Perylene-d12	1.000	1.000	0.0	92	0.00
36	Indeno(1,2,3-cd)pyrene	1.596	1.497	6.2	91	0.00
37	Benzo(b)fluoranthene	1.346	1.274	5.3	92	0.00
38	Benzo(k)fluoranthene	1.347	1.279	5.0	92	0.00
39 C	Benzo(a)pyrene	1.184	1.119	5.5	92	0.00
40	Dibenzo(a,h)anthracene	1.264	1.180	6.6	90	0.00
41	Benzo(g,h,i)perylene	1.345	1.250	7.1	89	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
 Data File : BN035069.D
 Acq On : 13 Nov 2024 16:51
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN111324

Quant Time: Nov 13 17:18:36 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 17:18:14 2024
 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	89	0.00
2	1,4-Dioxane	0.400	0.371	7.3	90	0.00
3	n-Nitrosodimethylamine	0.400	0.368	8.0	85	0.00
4 S	2-Fluorophenol	0.400	0.368	8.0	88	0.00
5 S	Phenol-d6	0.400	0.359	10.3	88	0.00
6	bis(2-Chloroethyl)ether	0.400	0.370	7.5	89	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	93	0.00
8 S	Nitrobenzene-d5	0.400	0.358	10.5	90	0.00
9	Naphthalene	0.400	0.366	8.5	91	0.00
10	Hexachlorobutadiene	0.400	0.373	6.8	90	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.367	8.3	91	0.00
12	2-Methylnaphthalene	0.400	0.368	8.0	92	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	92	0.00
14 S	2,4,6-Tribromophenol	0.400	0.322	19.5	89	0.00
15 S	2-Fluorobiphenyl	0.400	0.357	10.8	91	0.00
16	Acenaphthylene	0.400	0.348	13.0	92	0.00
17	Acenaphthene	0.400	0.359	10.3	92	0.00
18	Fluorene	0.400	0.352	12.0	91	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	94	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.330	17.5	89	0.00
21	4-Bromophenyl-phenylether	0.400	0.371	7.3	90	0.00
22	Hexachlorobenzene	0.400	0.379	5.3	93	0.00
23	Atrazine	0.400	0.370	7.5	92	0.00
24	Pentachlorophenol	0.400	0.324	19.0	91	0.00
25	Phenanthrene	0.400	0.375	6.3	92	0.00
26	Anthracene	0.400	0.366	8.5	90	0.00
27 SURR	Fluoranthene-d10	0.400	0.374	6.5	92	0.00
28	Fluoranthene	0.400	0.372	7.0	91	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	94	0.00
30	Pyrene	0.400	0.376	6.0	91	0.00
31 S	Terphenyl-d14	0.400	0.381	4.8	93	0.00
32	Benzo(a)anthracene	0.400	0.376	6.0	93	0.00
33	Chrysene	0.400	0.386	3.5	94	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.338	15.5	90	0.00
35 I	Perylene-d12	0.400	0.400	0.0	92	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.375	6.3	91	0.00
37	Benzo(b)fluoranthene	0.400	0.379	5.3	92	0.00
38	Benzo(k)fluoranthene	0.400	0.380	5.0	92	0.00
39 C	Benzo(a)pyrene	0.400	0.378	5.5	92	0.00
40	Dibenzo(a,h)anthracene	0.400	0.373	6.8	90	0.00
41	Benzo(g,h,i)perylene	0.400	0.372	7.0	89	0.00

(#) = Out of Range

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

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
 Method File : 8270-SIM-BN112524.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Tue Nov 26 02:36:08 2024
 Response Via : Initial Calibration

Calibration Files

0.1 =BN035277.D 0.2 =BN035278.D 0.4 =BN035279.D 0.8 =BN035280.D 1.6 =BN035281.D 3.2 =BN035282.D 5.0 =BN035283.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	0.375	0.276	0.287	0.263	0.284	0.262	0.267	0.288	13.80
3)	n-Nitrosodimet...		0.279	0.284	0.306	0.313	0.299	0.306	0.298	4.56
4) S	2-Fluorophenol	0.858	0.793	0.789	0.725	0.730	0.678	0.718	0.756	8.00
5) S	Phenol-d6	1.194	1.125	1.105	1.022	1.025	0.963	0.955	1.056	8.40
6)	bis(2-Chloroet...	0.910	0.870	0.896	0.887	0.914	0.874	0.869	0.889	2.11
7) I	Naphthalene-d8	-----ISTD-----								
8) S	Nitrobenzene-d5	0.267	0.272	0.347	0.327	0.356	0.348	0.354	0.324	11.95
9)	Naphthalene	1.085	1.055	1.091	1.075	1.150	1.140	1.174	1.110	4.01
10)	Hexachlorobuta...	0.281	0.289	0.312	0.311	0.339	0.330	0.322	0.312	6.74
11) SURR	2-Methylnaphth...	0.561	0.531	0.539	0.527	0.566	0.580	0.616	0.560	5.61
12)	2-Methylnaphth...	0.690	0.680	0.680	0.675	0.748	0.782	0.829	0.726	8.37
13) I	Acenaphthene-d10	-----ISTD-----								
14) S	2,4,6-Tribromo...	0.174	0.174	0.180	0.186	0.213	0.230	0.272	0.204	17.97
15) S	2-Fluorobiphenyl	0.595	0.424	0.245	0.118	0.082	0.049	0.033	0.221	97.20
16)	Acenaphthylene	1.859	1.869	1.885	1.919	2.117	2.147	2.294	2.013	8.53
17)	Acenaphthene	1.144	1.158	1.176	1.194	1.341	1.386	1.473	1.267	10.33
18)	Fluorene	1.538	1.617	1.634	1.688	1.907	1.985	2.068	1.777	11.63
19) I	Phenanthrene-d10	-----ISTD-----								
20)	4,6-Dinitro-2-...		0.027	0.034	0.039	0.048	0.056		0.041	27.63
21)	4-Bromophenyl-...	0.248	0.236	0.235	0.233	0.252	0.271	0.300	0.254	9.59
22)	Hexachlorobenzene	0.326	0.336	0.352	0.363	0.391	0.381	0.394	0.363	7.33
23)	Atrazine	0.091	0.095	0.100	0.100	0.114	0.117	0.133	0.107	13.85
24)	Pentachlorophenol		0.067	0.079	0.082	0.097	0.112		0.087	19.82
25)	Phenanthrene	1.121	1.103	1.131	1.162	1.271	1.364	1.448	1.229	11.00
26)	Anthracene	0.904	0.899	0.911	0.953	1.100	1.252	1.367	1.055	18.01
27) SURR	Fluoranthene-d10	0.953	0.963	0.967	0.998	1.120	1.224	1.269	1.070	12.46
28)	Fluoranthene	1.248	1.282	1.340	1.453	1.732	1.890	1.907	1.550	18.48
29) I	Chrysene-d12	-----ISTD-----								
30)	Pyrene	1.357	1.179	1.528	1.271	1.779	1.615		1.455 E1	15.55
31) S	Terphenyl-d14	0.628	0.551	0.726	0.608	0.862	0.764	1.035	0.739 E1	22.66
32)	Benzo(a)anthra...	1.299	1.119	1.382	1.150	1.641	1.439	1.714	1.392 E1	16.32
33)	Chrysene	1.299	1.119	1.382	1.150	1.641	1.439	1.714	1.392 E1	16.32
34)	Bis(2-ethylhex...		1.747	0.910	0.506	0.436	0.229		0.765	78.59
35) I	Perylene-d12	-----ISTD-----								

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

Method File : 8270-SIM-BN112524.M

36)	Indeno(1,2,3-c...	1.377	1.410	1.523	1.574	1.744	1.787	2.049	1.638	14.53
37)	Benzo(b)fluora...	1.505	1.552	1.452	1.714	1.877	2.005	2.064	1.738	14.25
38)	Benzo(k)fluora...	1.567	1.585	1.632	1.796	2.049	2.079	2.165	1.839	13.87
39) C	Benzo(a)pyrene	1.191	1.181	1.143	1.297	1.428	1.476	1.586	1.329	12.80
40)	Dibenzo(a,h)an...	0.961	1.028	1.107	1.202	1.353	1.402	1.612	1.238	18.62
41)	Benzo(g,h,i)pe...	1.296	1.311	1.241	1.412	1.508	1.517	1.737	1.432	11.97

(#) = Out of Range

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
 Data File : BN035277.D
 Acq On : 25 Nov 2024 10:16
 Operator : RC/JU
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 52 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/27/2024
 Supervised By :mohammad ahmed 11/27/2024

Quant Time: Nov 25 14:17:26 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Nov 25 14:16:35 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.315	152	2616	0.400	ng	0.00
7) Naphthalene-d8	10.063	136	6701	0.400	ng	0.00
13) Acenaphthene-d10	13.976	164	3999	0.400	ng	0.00
19) Phenanthrene-d10	16.734	188	9103	0.400	ng	0.00
29) Chrysene-d12	21.008	240	834	0.400	ng	0.00
35) Perylene-d12	23.081	264	5298	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.968	112	561	0.084	ng	0.00
5) Phenol-d6	6.520	99	781	0.094	ng	0.00
8) Nitrobenzene-d5	8.450	82	447m	0.077	ng	0.00
11) 2-Methylnaphthalene-d10	11.670	152	939	0.079	ng	0.00
14) 2,4,6-Tribromophenol	15.484	330	174	0.060	ng	0.00
15) 2-Fluorobiphenyl	12.608	172	595	0.037	ng	0.00
27) Fluoranthene-d10	18.792	212	2168	0.078	ng	0.00
31) Terphenyl-d14	19.419	244	1310	0.749	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.010	88	245	0.103	ng	# 78
6) bis(2-Chloroethyl)ether	6.766	93	595	0.095	ng	97
9) Naphthalene	10.116	128	1817	0.104	ng	# 92
10) Hexachlorobutadiene	10.415	225	471	0.092	ng	# 98
12) 2-Methylnaphthalene	11.746	142	1156	0.090	ng	98
16) Acenaphthylene	13.688	152	1859	0.109	ng	99
17) Acenaphthene	14.030	154	1144	0.102	ng	92
18) Fluorene	15.035	166	1538	0.093	ng	99
21) 4-Bromophenyl-phenylether	15.952	248	565	0.097	ng	# 70
22) Hexachlorobenzene	16.051	284	743	0.123	ng	98
23) Atrazine	16.237	200	206	0.040	ng	# 82
25) Phenanthrene	16.783	178	2552	0.107	ng	99
26) Anthracene	16.870	178	2057	0.093	ng	99
28) Fluoranthene	18.825	202	2840	0.086	ng	99
30) Pyrene	19.192	202	2830	1.019	ng	100
32) Benzo(a)anthracene	21.017	228	2709	0.933	ng	98
33) Chrysene	21.017	228	2709	0.942	ng	98
36) Indeno(1,2,3-cd)pyrene	25.121	276	1824	0.086	ng	98
37) Benzo(b)fluoranthene	22.464	252	1993	0.112	ng	# 78
38) Benzo(k)fluoranthene	22.505	252	2076	0.116	ng	# 78
39) Benzo(a)pyrene	22.987	252	1578	0.101	ng	# 73
40) Dibenzo(a,h)anthracene	25.142	278	1273	0.076	ng	# 76
41) Benzo(g,h,i)perylene	25.738	276	1716	0.096	ng	# 88

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

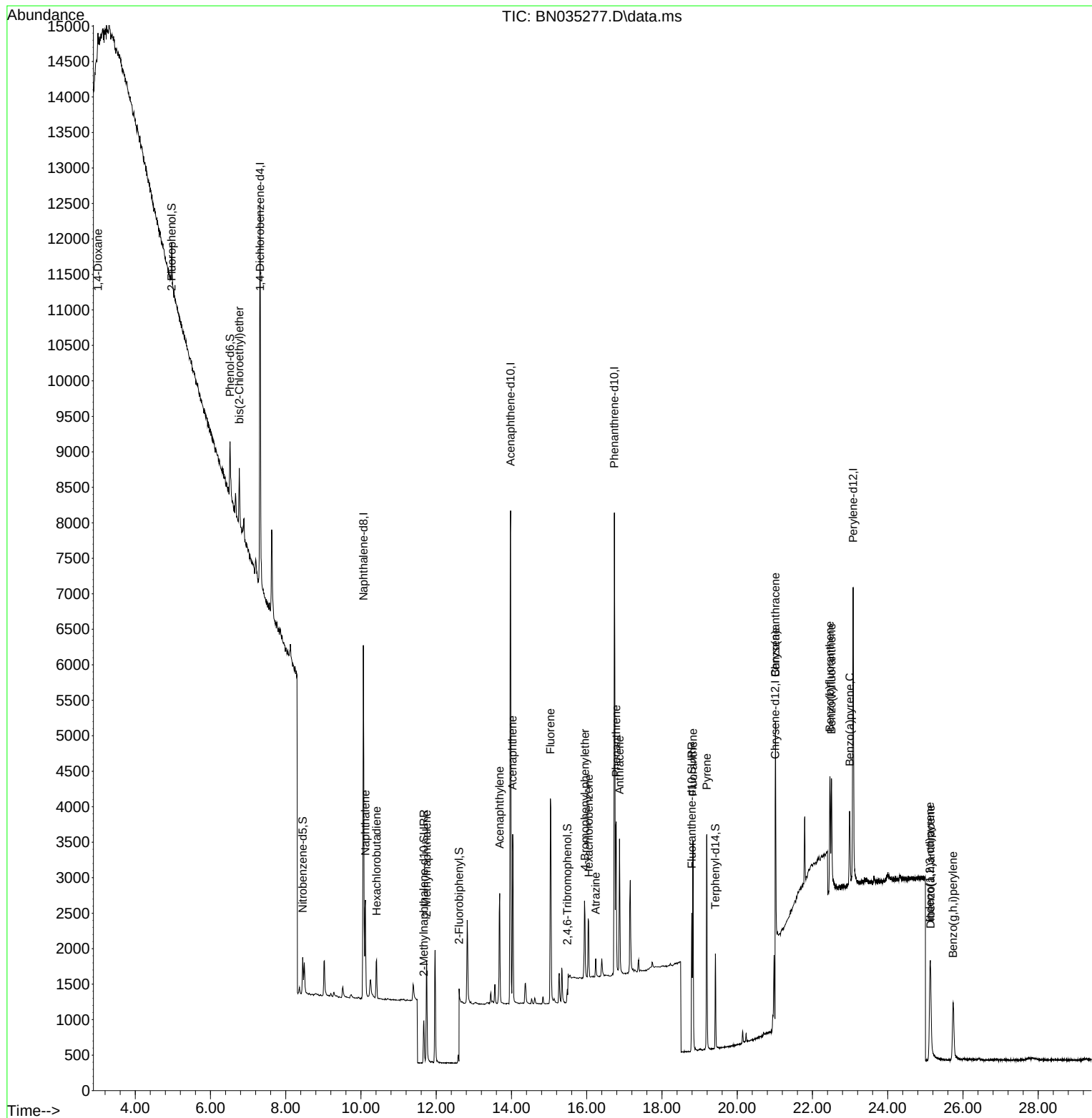
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
Data File : BN035277.D
Acq On : 25 Nov 2024 10:16
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 52 Sample Multiplier: 1

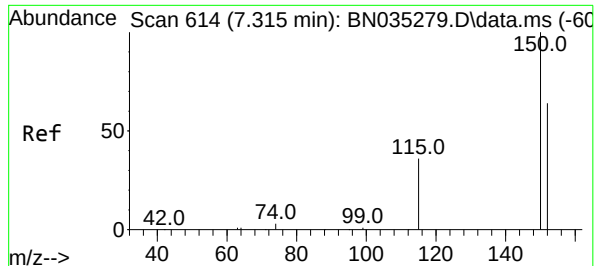
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Quant Time: Nov 25 14:17:26 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 25 14:16:35 2024
Response via : Initial Calibration

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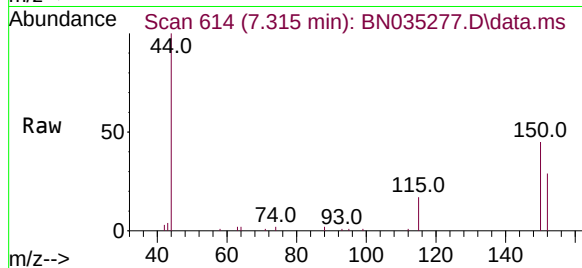
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.315 min Scan# 614
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

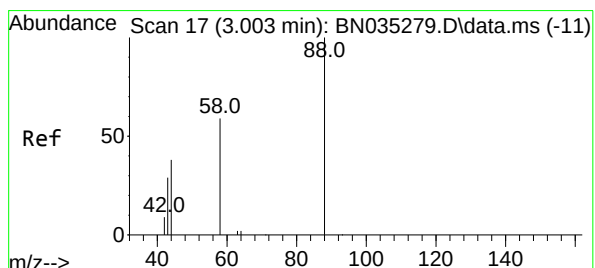
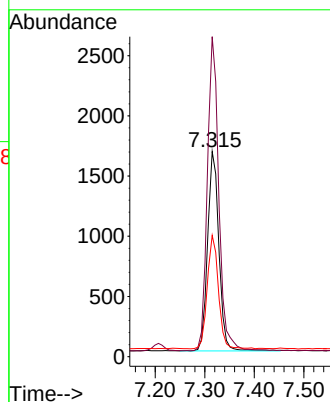
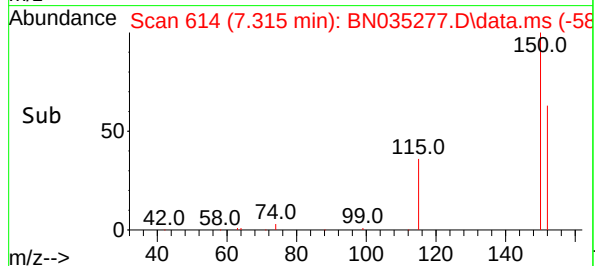
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion: 152 Resp: 2610
Ion Ratio Lower Upper
152 100
150 156.0 124.5 186.7
115 59.1 47.8 71.8

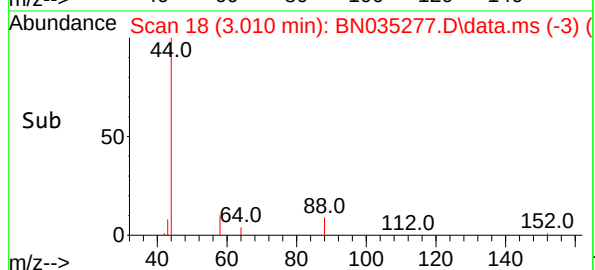
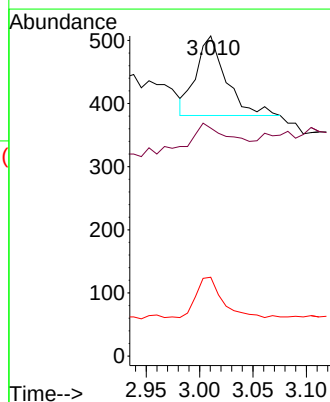
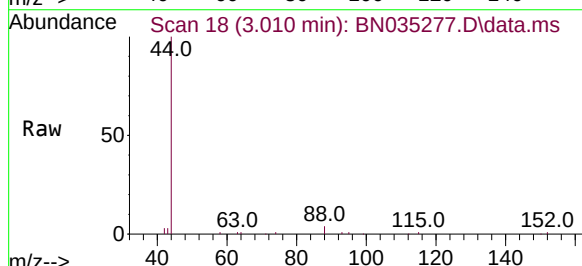
Manual Integrations
APPROVED

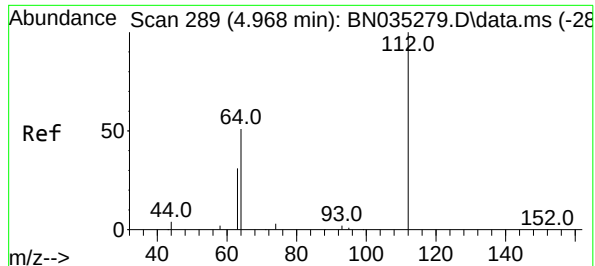
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#2
1,4-Dioxane
Concen: 0.103 ng
RT: 3.010 min Scan# 18
Delta R.T. 0.007 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Tgt Ion: 88 Resp: 245
Ion Ratio Lower Upper
88 100
43 78.8 48.1 72.1#
58 44.9 46.9 70.3#





#4

2-Fluorophenol

Concen: 0.084 ng

RT: 4.968 min Scan# 289

Delta R.T. -0.000 min

Lab File: BN035277.D

Acq: 25 Nov 2024 10:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

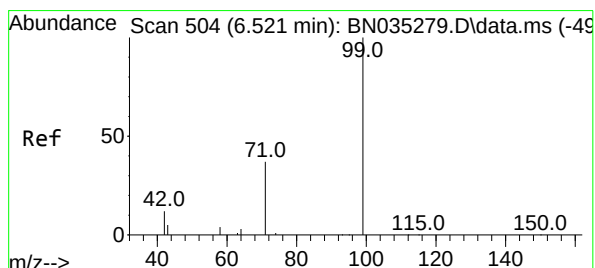
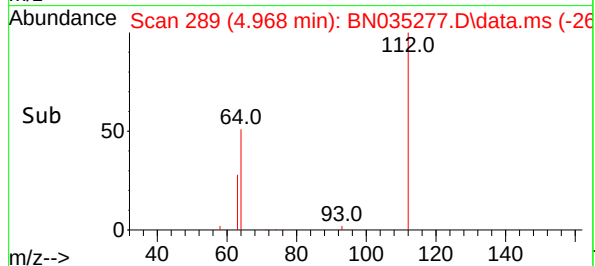
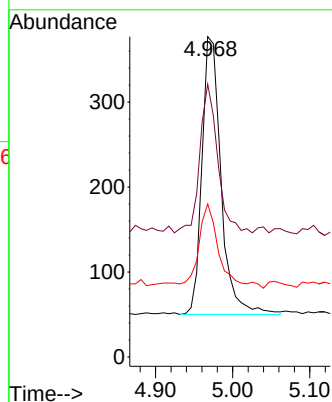
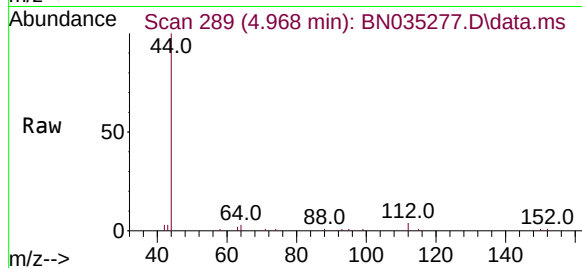
Tgt Ion:	112	Resp:	56
Ion	Ratio	Lower	Upper
112	100		
64	49.9	40.4	60.6
63	32.1	23.8	35.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/27/2024

Supervised By :mohammad ahmed 11/27/2024



#5

Phenol-d6

Concen: 0.094 ng

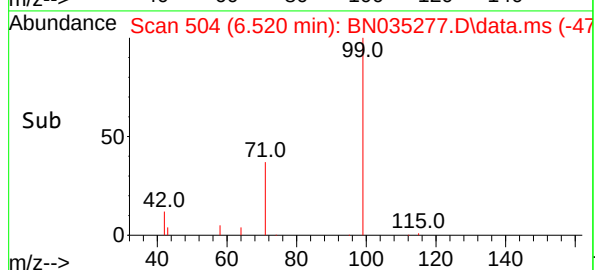
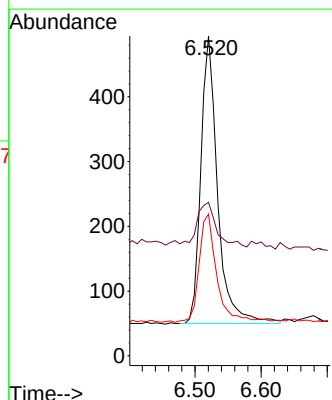
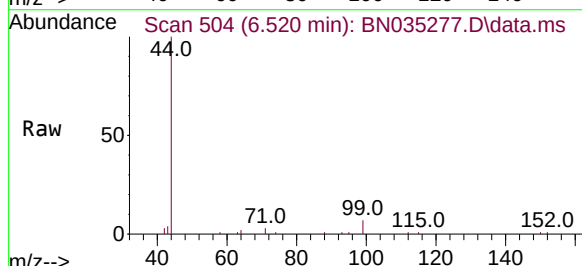
RT: 6.520 min Scan# 504

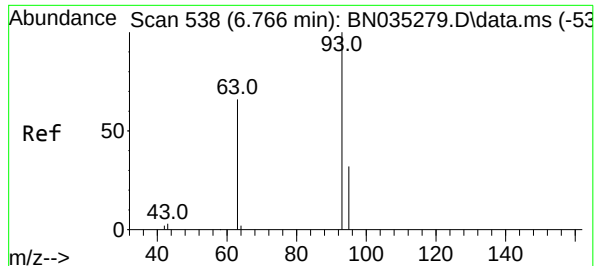
Delta R.T. -0.000 min

Lab File: BN035277.D

Acq: 25 Nov 2024 10:16

Tgt Ion:	99	Resp:	781
Ion	Ratio	Lower	Upper
99	100		
42	18.4	12.8	19.2
71	39.8	31.4	47.2





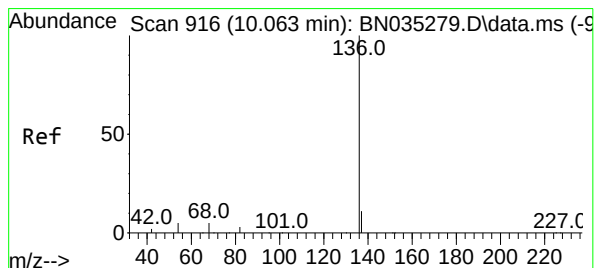
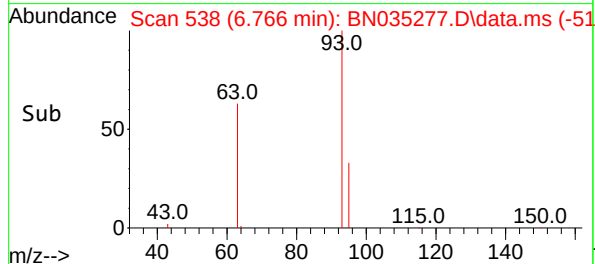
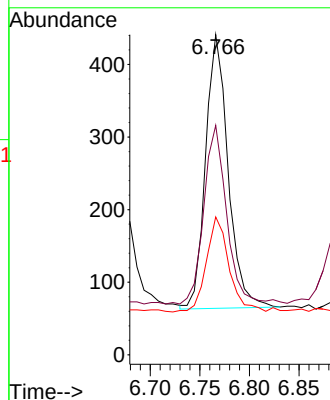
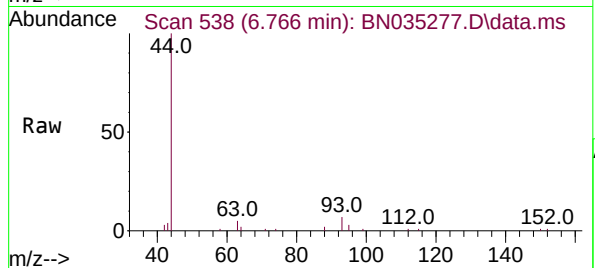
#6
bis(2-Chloroethyl)ether
Concen: 0.095 ng
RT: 6.766 min Scan# 538
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion: 93 Resp: 598
Ion Ratio Lower Upper
93 100
63 66.6 52.3 78.5
95 35.0 25.5 38.3

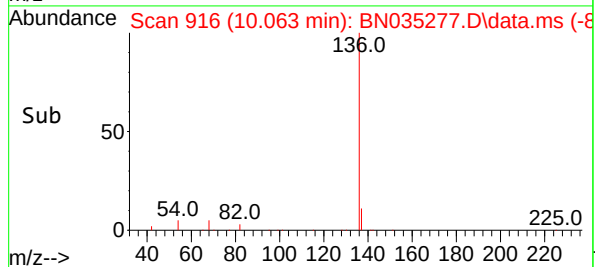
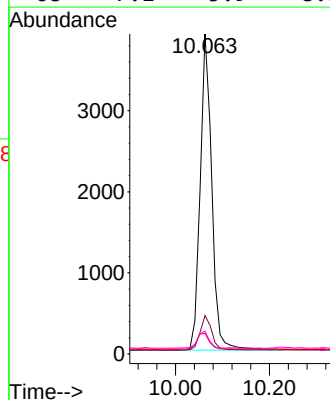
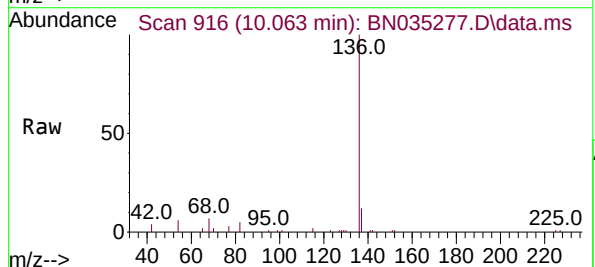
Manual Integrations
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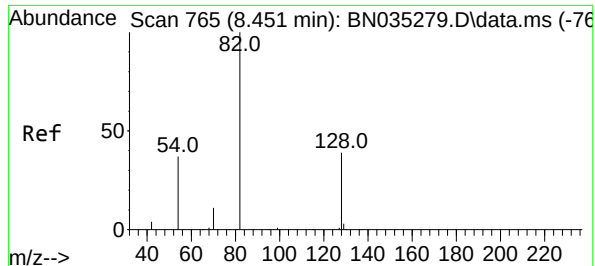
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.063 min Scan# 916
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Tgt Ion:136 Resp: 6701
Ion Ratio Lower Upper
136 100
137 12.0 9.7 14.5
54 6.4 5.3 7.9
68 7.1 5.9 8.9





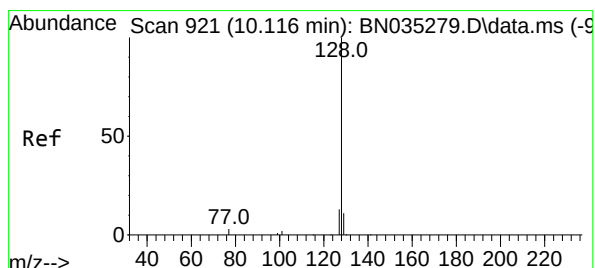
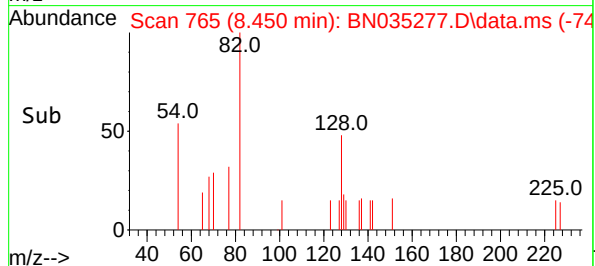
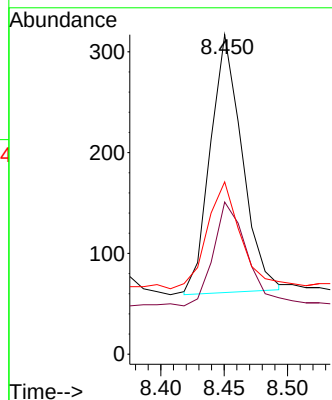
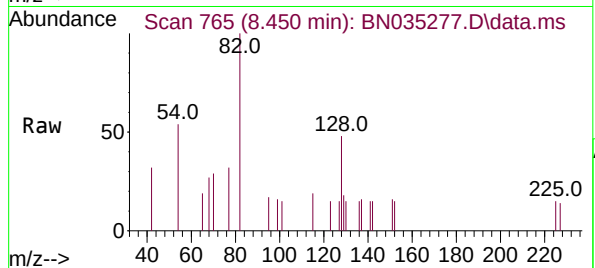
#8
Nitrobenzene-d5
Concen: 0.077 ng m
RT: 8.450 min Scan# 765
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion: 82 Resp: 44
Ion Ratio Lower Upper
82 100
128 47.6 33.0 49.4
54 53.9 33.3 49.9

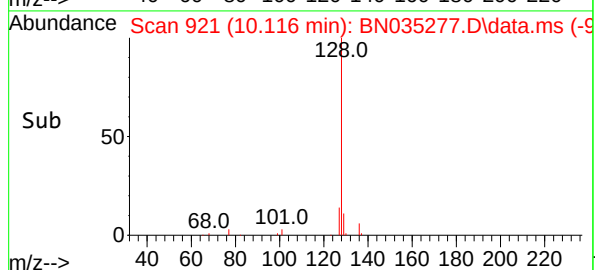
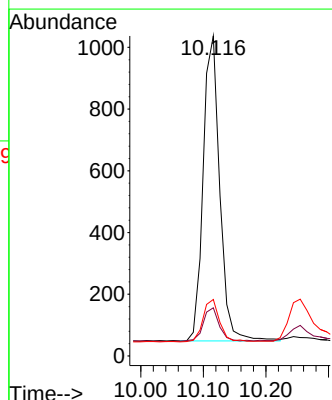
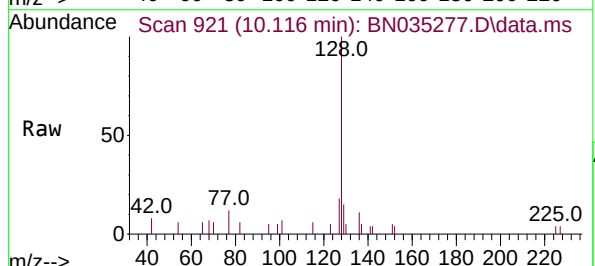
Manual Integrations
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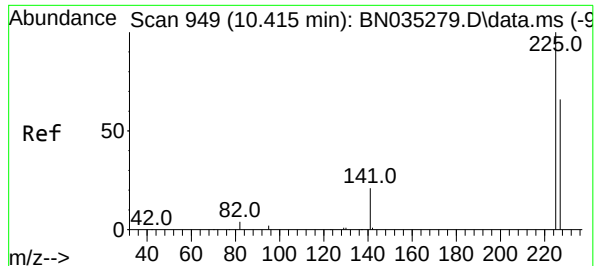
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#9
Naphthalene
Concen: 0.104 ng
RT: 10.116 min Scan# 921
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Tgt Ion:128 Resp: 1817
Ion Ratio Lower Upper
128 100
129 15.0 9.6 14.4#
127 17.6 11.3 16.9#





#10

Hexachlorobutadiene

Concen: 0.092 ng

RT: 10.415 min Scan# 949

Delta R.T. -0.000 min

Lab File: BN035277.D

Acq: 25 Nov 2024 10:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

Tgt Ion:225 Resp: 47

Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

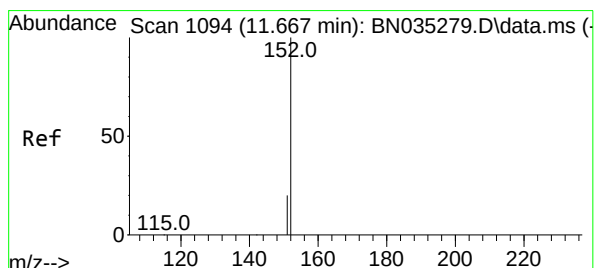
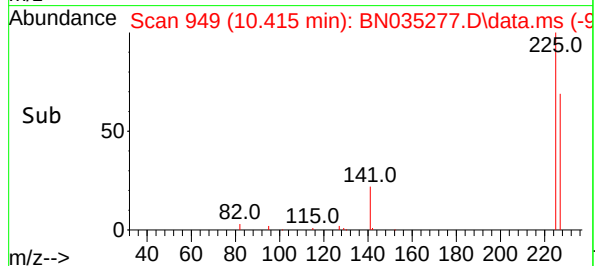
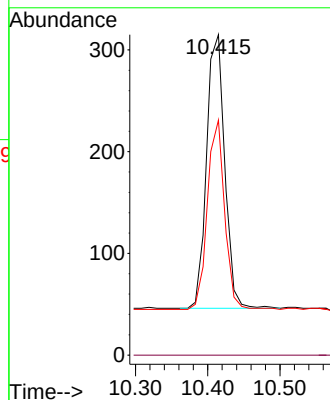
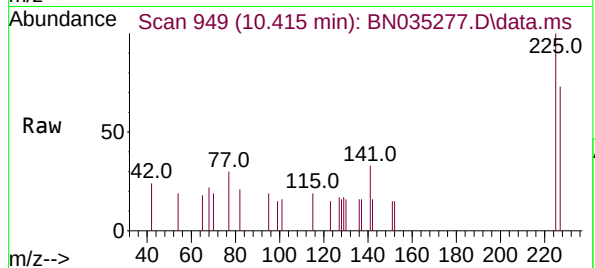
227 65.6 51.3 76.9

Manual Integrations

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Reviewed By :Yogesh Patel 11/27/2024

Supervised By :mohammad ahmed 11/27/2024



#11

2-Methylnaphthalene-d10

Concen: 0.079 ng

RT: 11.670 min Scan# 1095

Delta R.T. 0.004 min

Lab File: BN035277.D

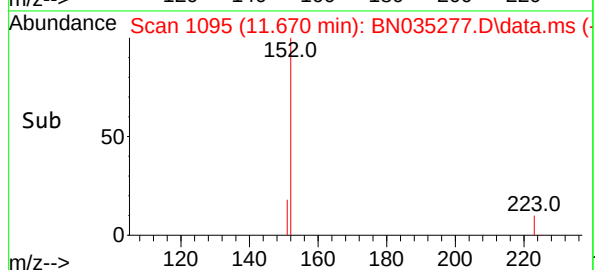
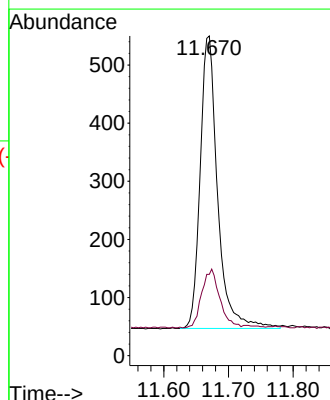
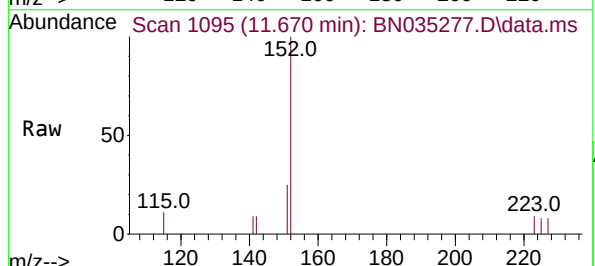
Acq: 25 Nov 2024 10:16

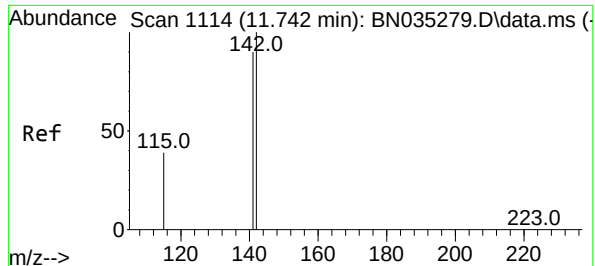
Tgt Ion:152 Resp: 939

Ion Ratio Lower Upper

152 100

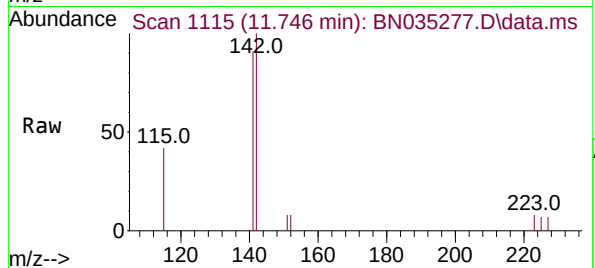
151 20.7 17.2 25.8





#12
2-Methylnaphthalene
Concen: 0.090 ng
RT: 11.746 min Scan# 1114
Delta R.T. 0.004 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

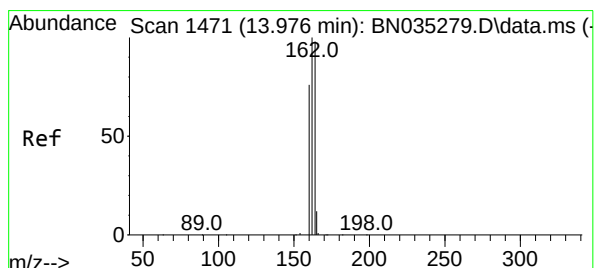
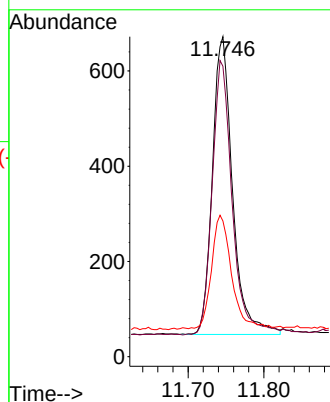
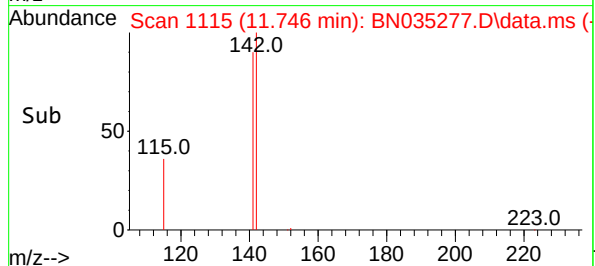
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:142 Resp: 1150
Ion Ratio Lower Upper
142 100
141 90.8 71.8 107.8
115 42.4 32.6 49.0

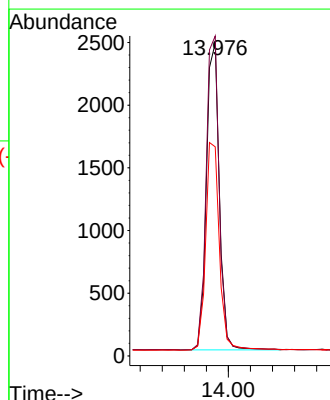
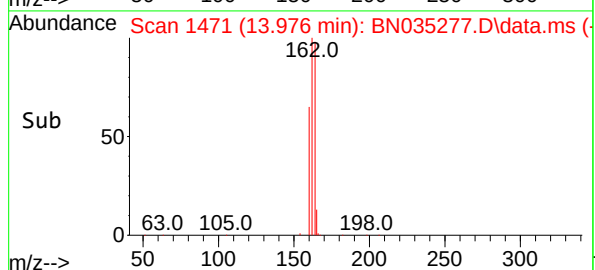
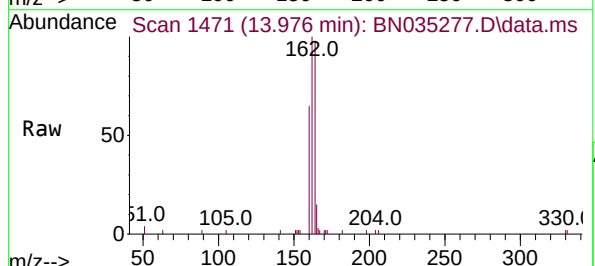
Manual Integrations
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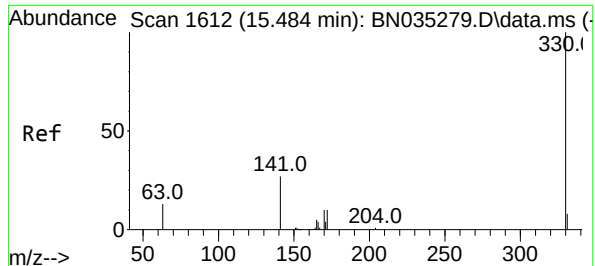
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.976 min Scan# 1471
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Tgt Ion:164 Resp: 3999
Ion Ratio Lower Upper
164 100
162 102.2 82.0 123.0
160 66.8 63.0 94.4





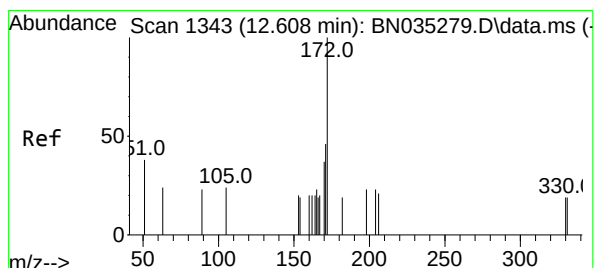
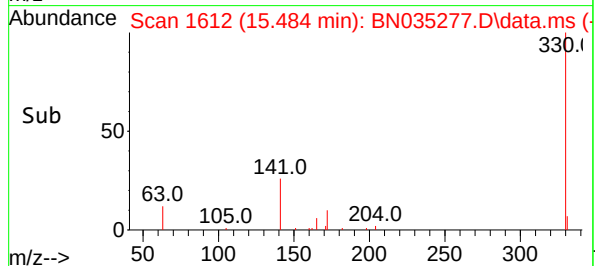
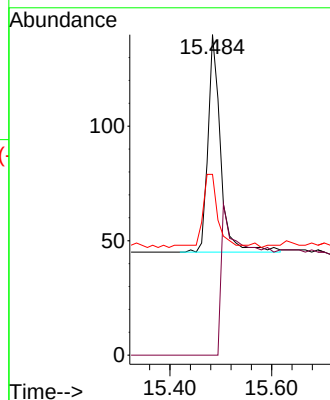
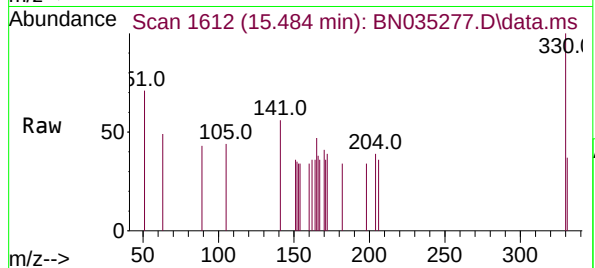
#14
2,4,6-Tribromophenol
Concen: 0.060 ng
RT: 15.484 min Scan# 1612
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:330 Resp: 174
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 34.5 32.4 48.6

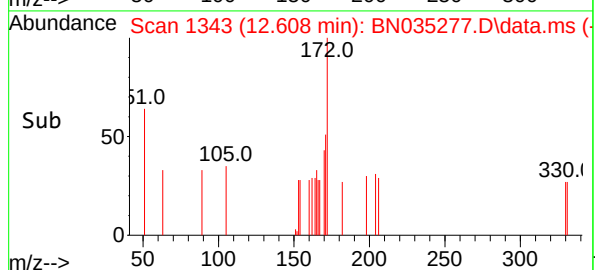
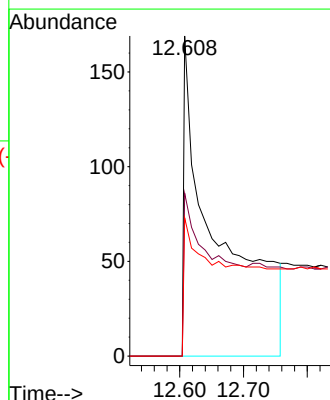
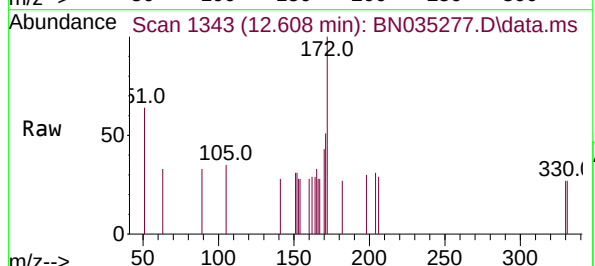
Manual Integrations
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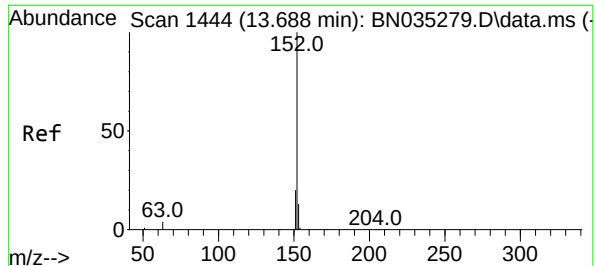
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#15
2-Fluorobiphenyl
Concen: 0.037 ng
RT: 12.608 min Scan# 1343
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Tgt Ion:172 Resp: 595
Ion Ratio Lower Upper
172 100
171 50.9 36.6 55.0
170 43.2 29.7 44.5





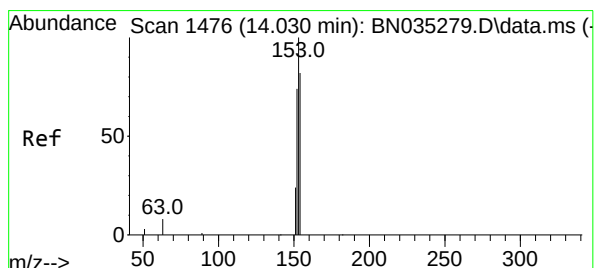
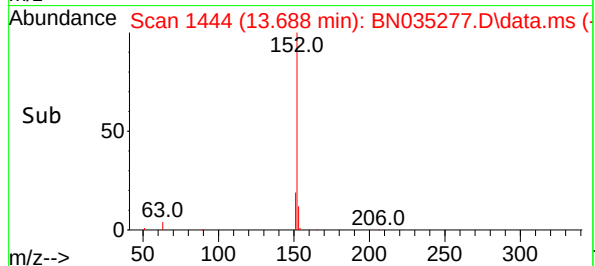
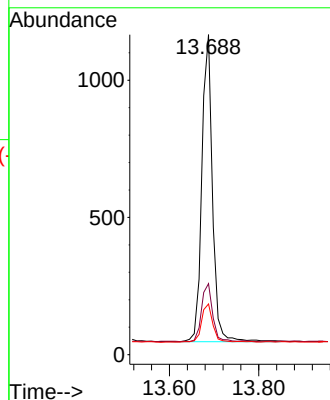
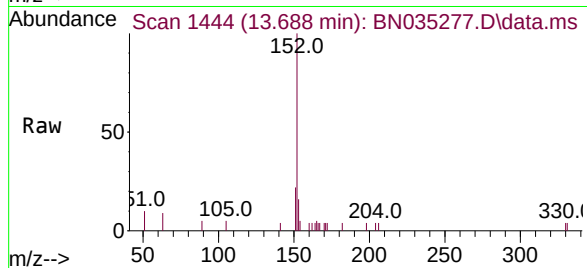
#16
Acenaphthylene
Concen: 0.109 ng
RT: 13.688 min Scan# 1444
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:152 Resp: 1859
Ion Ratio Lower Upper
152 100
151 19.4 15.9 23.9
153 13.4 10.2 15.4

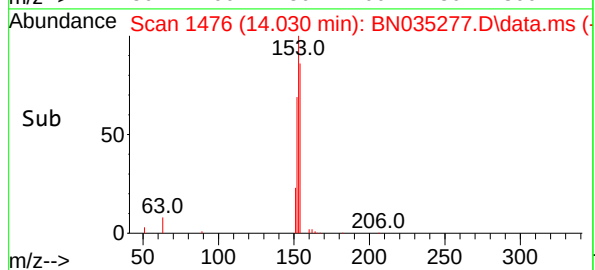
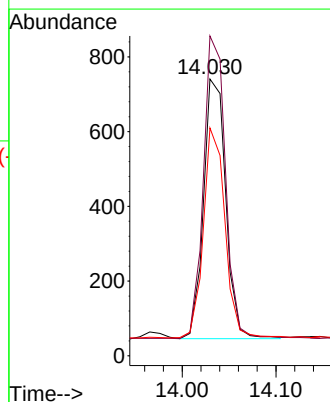
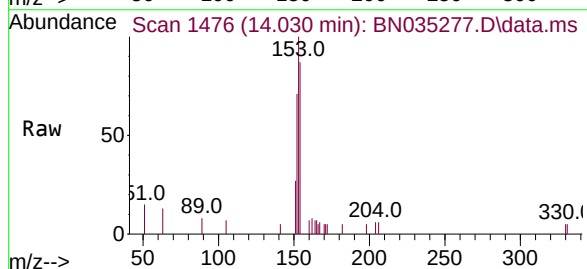
Manual Integrations
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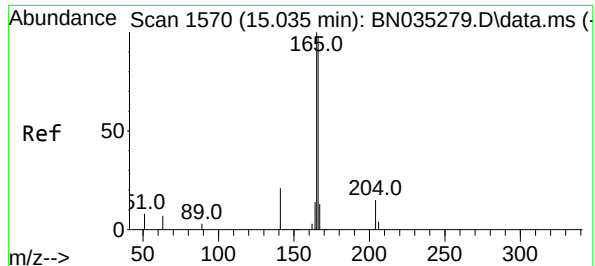
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#17
Acenaphthene
Concen: 0.102 ng
RT: 14.030 min Scan# 1476
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

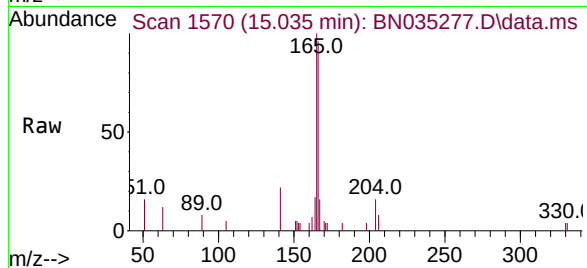
Tgt Ion:154 Resp: 1144
Ion Ratio Lower Upper
154 100
153 115.4 96.1 144.1
152 78.8 72.2 108.2





#18
Fluorene
Concen: 0.093 ng
RT: 15.035 min Scan# 1538
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

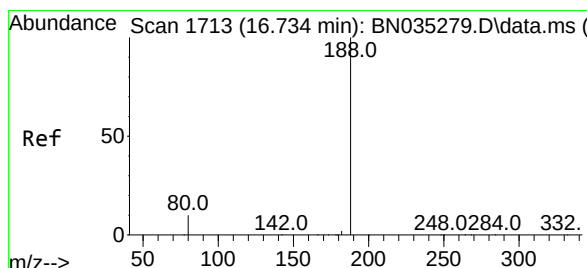
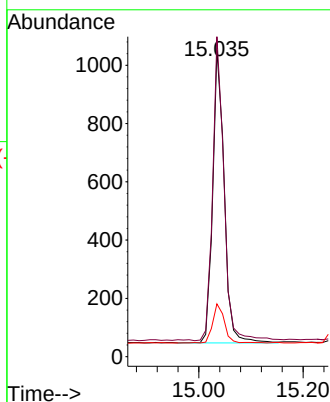
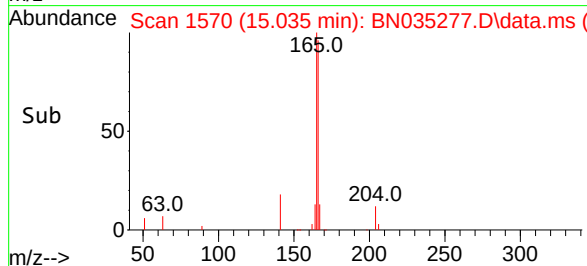
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:166 Resp: 1538
Ion Ratio Lower Upper
166 100
165 101.9 81.2 121.8
167 13.8 10.5 15.7

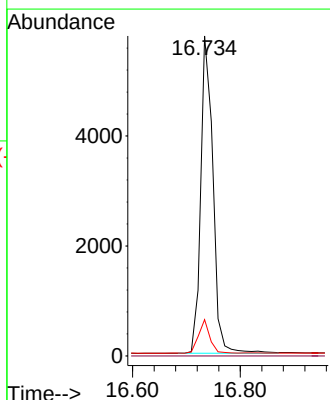
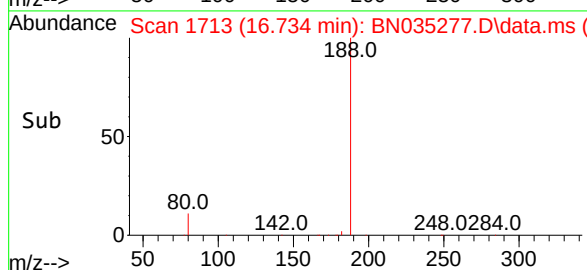
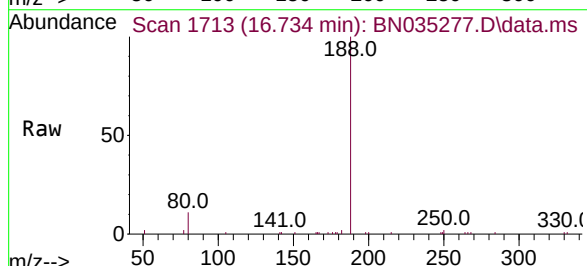
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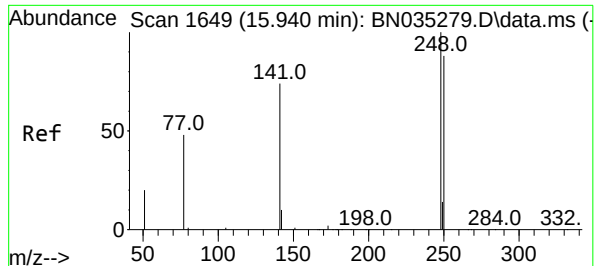
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.734 min Scan# 1713
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

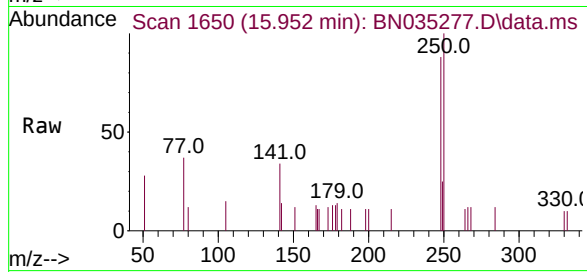
Tgt Ion:188 Resp: 9103
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 11.4 8.9 13.3





#21
4-Bromophenyl-phenylether
Concen: 0.097 ng
RT: 15.952 min Scan# 1650
Delta R.T. 0.012 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

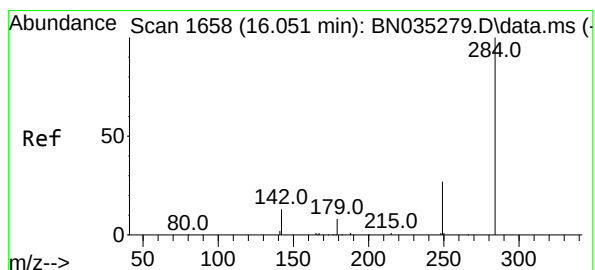
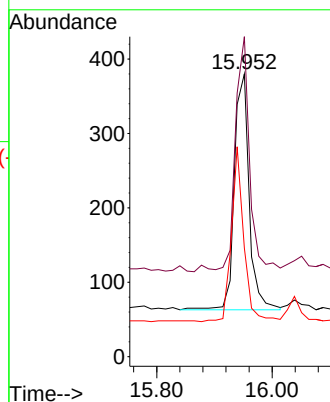
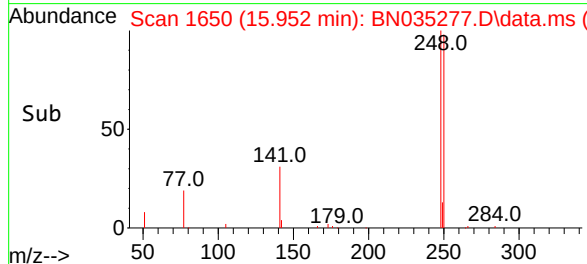
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:248 Resp: 56
Ion Ratio Lower Upper
248 100
250 113.2 74.8 112.2
141 38.4 59.0 88.4

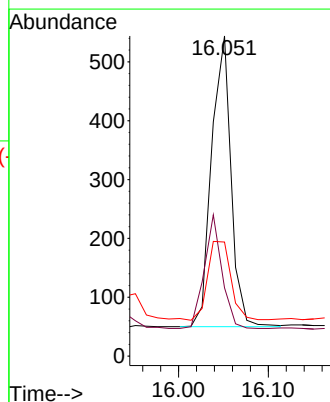
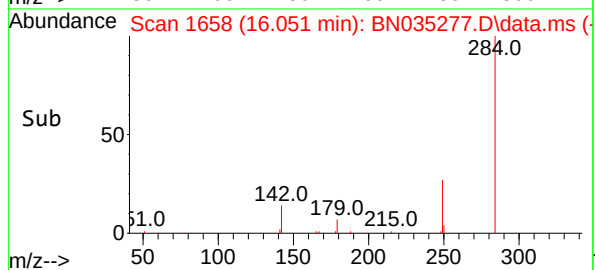
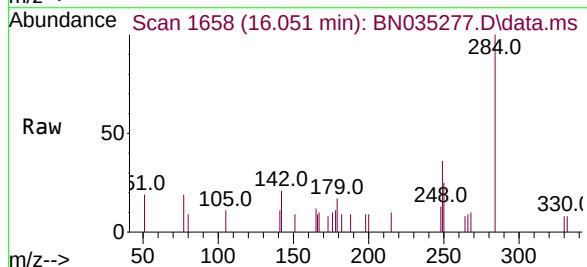
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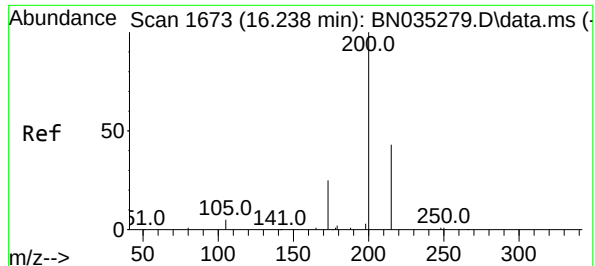
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#22
Hexachlorobenzene
Concen: 0.123 ng
RT: 16.051 min Scan# 1658
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Tgt Ion:284 Resp: 743
Ion Ratio Lower Upper
284 100
142 35.4 28.7 43.1
249 33.1 25.4 38.0





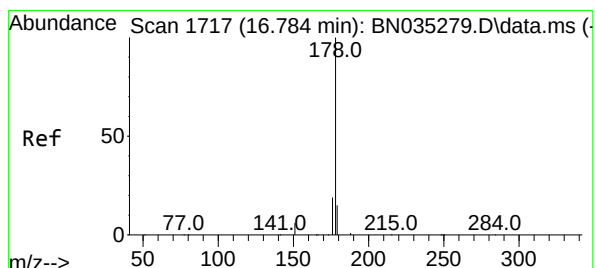
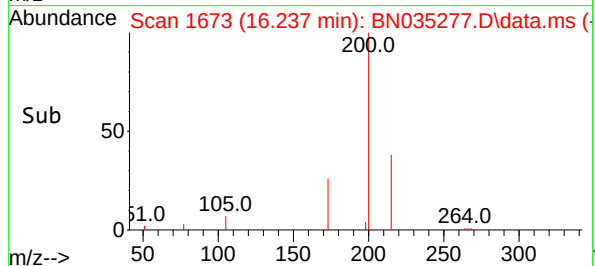
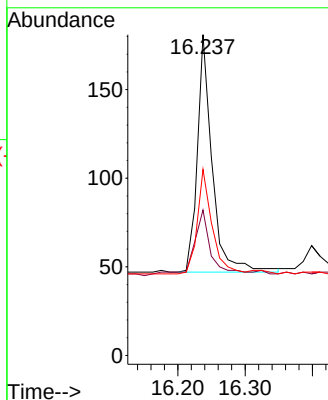
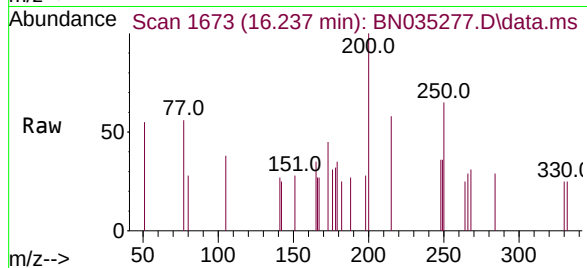
#23
Atrazine
Concen: 0.040 ng
RT: 16.237 min Scan# 1673
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:200 Resp: 200
Ion Ratio Lower Upper
200 100
173 45.3 25.8 38.8
215 58.0 38.6 58.0

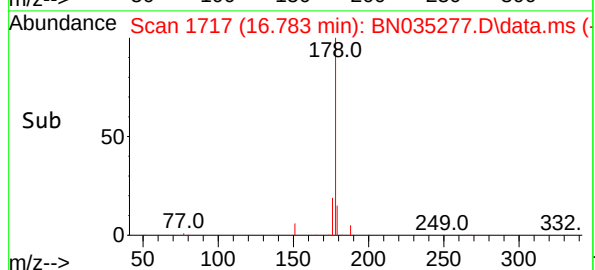
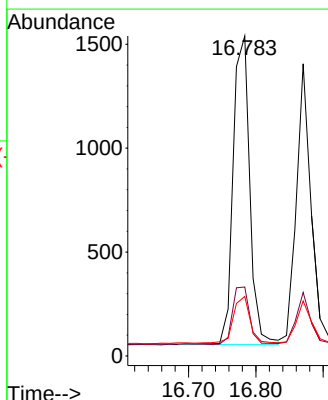
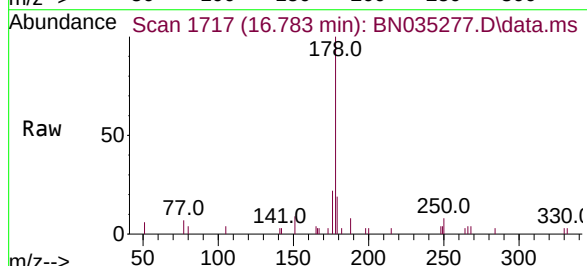
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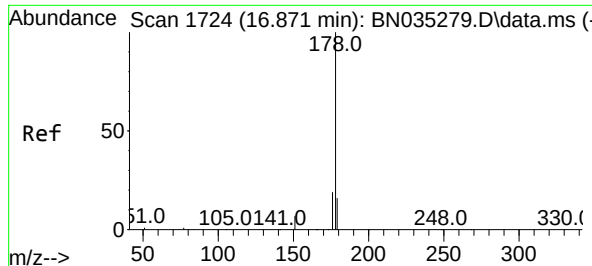
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#25
Phenanthrene
Concen: 0.107 ng
RT: 16.783 min Scan# 1717
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

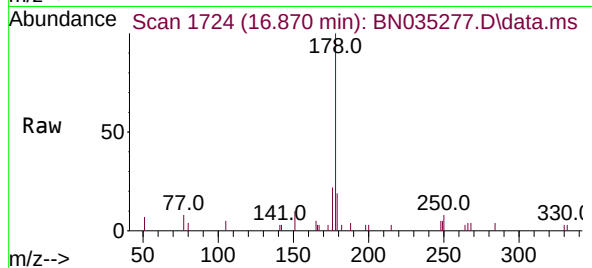
Tgt Ion:178 Resp: 2552
Ion Ratio Lower Upper
178 100
176 19.1 15.4 23.0
179 15.2 12.6 18.8





#26
Anthracene
Concen: 0.093 ng
RT: 16.870 min Scan# 1724
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

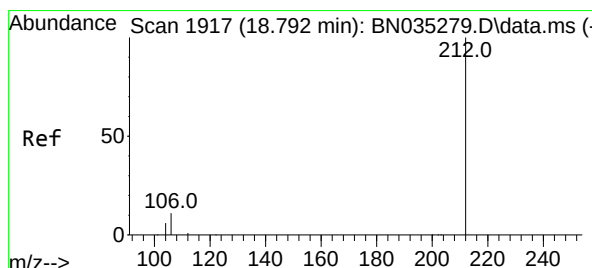
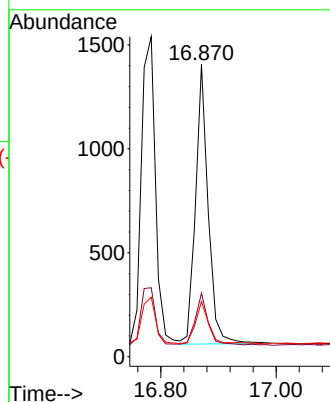
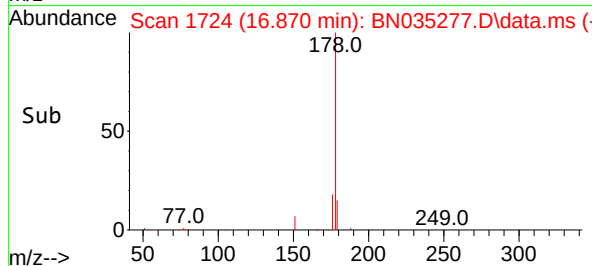
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:178 Resp: 205
Ion Ratio Lower Upper
178 100
176 18.3 15.0 22.4
179 15.9 12.4 18.6

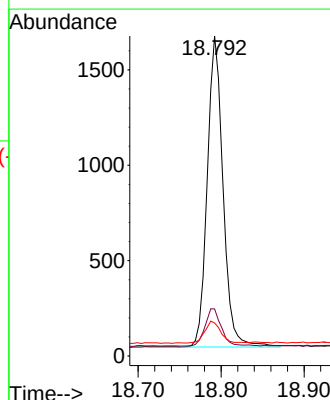
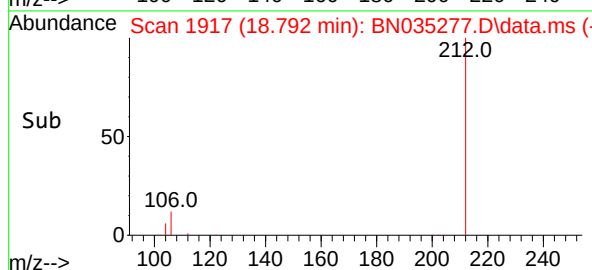
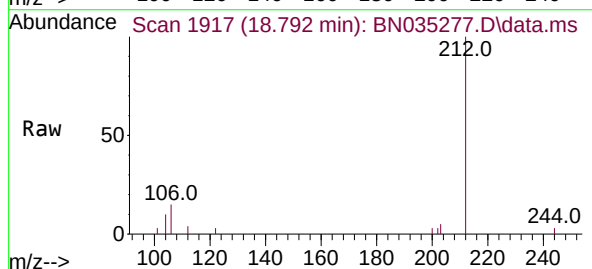
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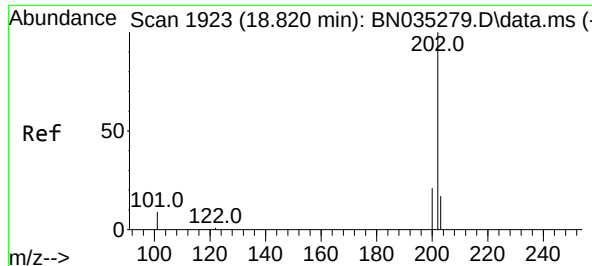
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#27
Fluoranthene-d10
Concen: 0.078 ng
RT: 18.792 min Scan# 1917
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

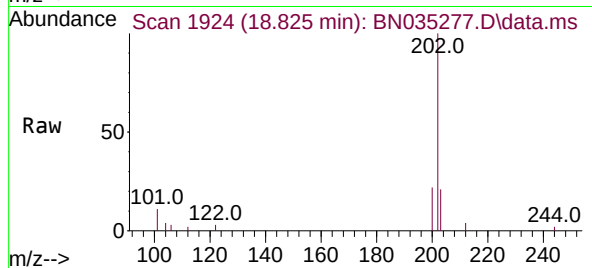
Tgt Ion:212 Resp: 2168
Ion Ratio Lower Upper
212 100
106 12.5 9.8 14.8
104 7.1 5.6 8.4





#28
Fluoranthene
Concen: 0.086 ng
RT: 18.825 min Scan# 1924
Delta R.T. 0.004 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

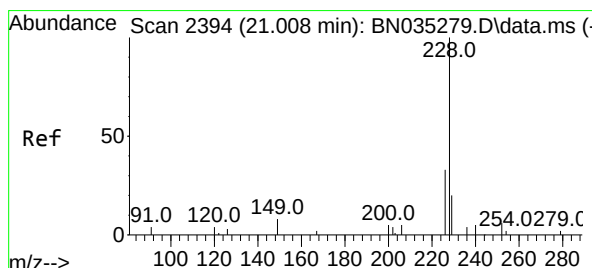
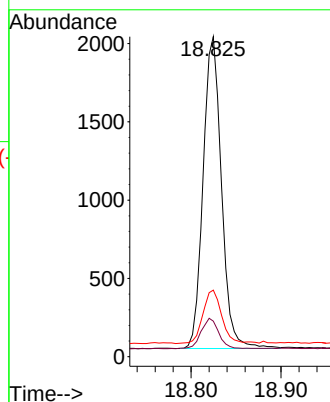
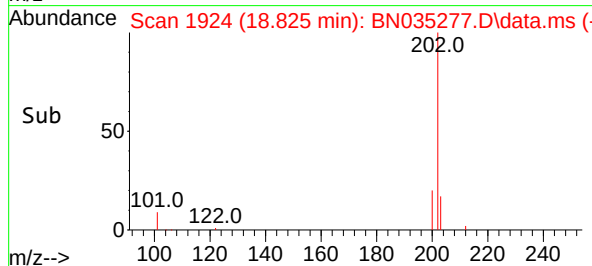
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:202 Resp: 2840
Ion Ratio Lower Upper
202 100
101 9.6 7.6 11.4
203 17.6 13.8 20.8

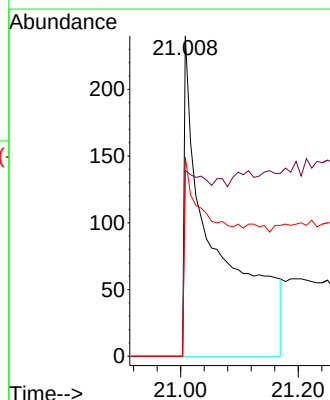
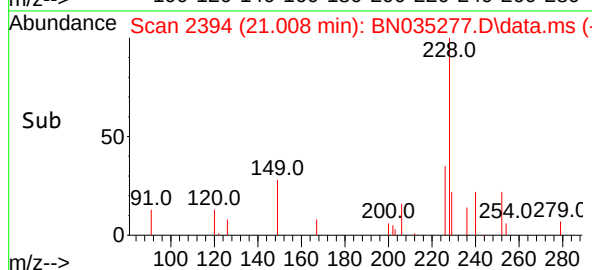
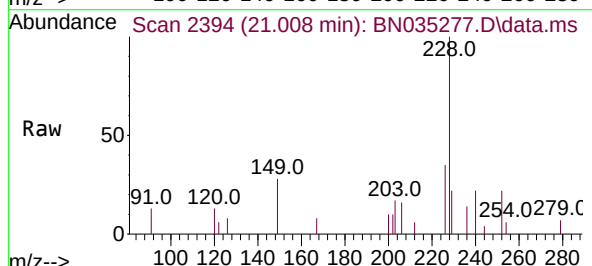
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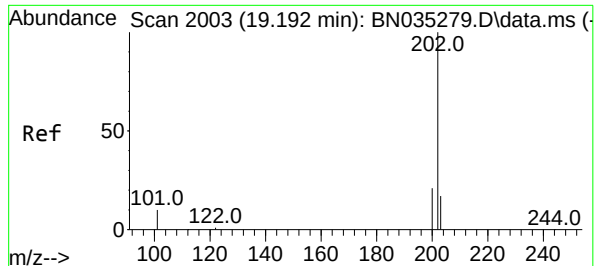
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.008 min Scan# 2394
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Tgt Ion:240 Resp: 834
Ion Ratio Lower Upper
240 100
120 57.9 54.9 82.3
236 62.1 54.0 81.0





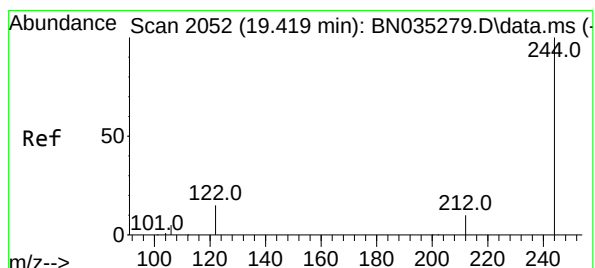
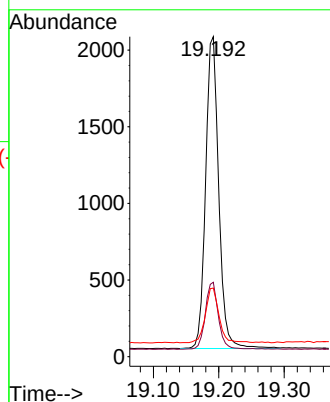
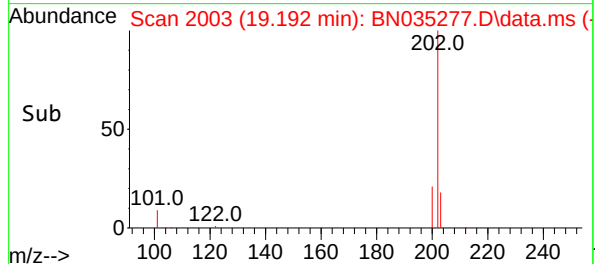
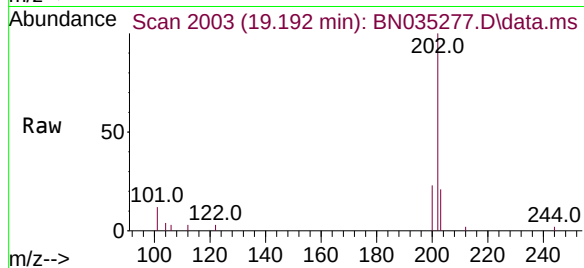
#30
Pyrene
Concen: 1.019 ng
RT: 19.192 min Scan# 2003
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:202 Resp: 2830
Ion Ratio Lower Upper
202 100
200 21.3 16.8 25.2
203 17.9 14.4 21.6

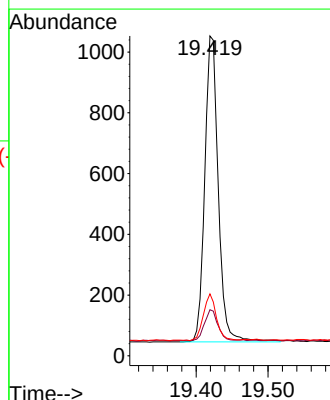
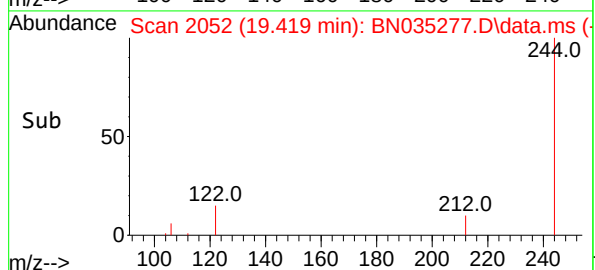
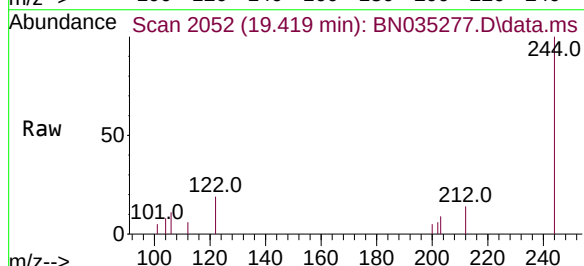
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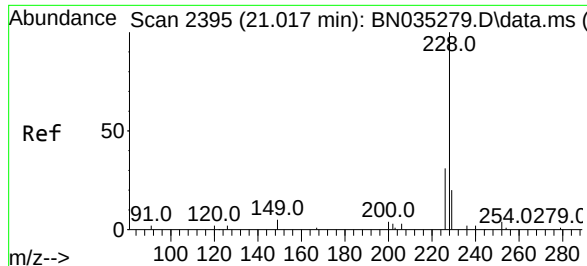
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#31
Terphenyl-d14
Concen: 0.749 ng
RT: 19.419 min Scan# 2052
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

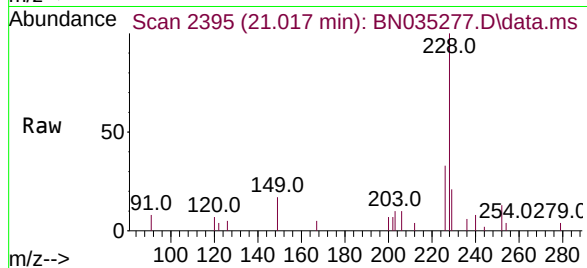
Tgt Ion:244 Resp: 1310
Ion Ratio Lower Upper
244 100
212 14.4 9.4 14.0#
122 19.4 13.0 19.4





#32
Benzo(a)anthracene
Concen: 0.933 ng
RT: 21.017 min Scan# 2109
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

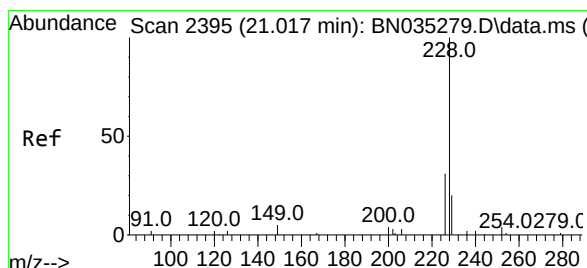
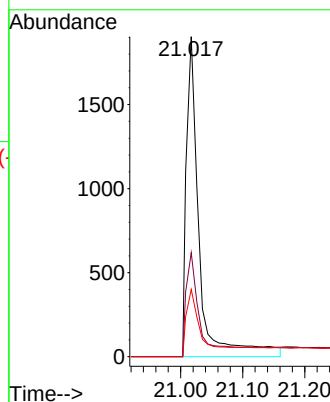
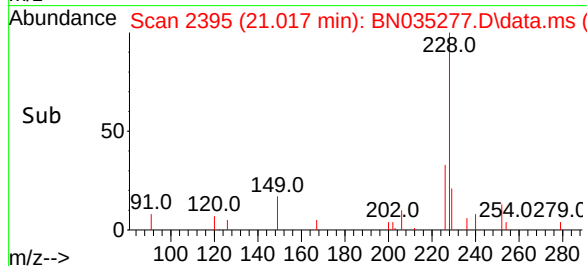
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:228 Resp: 2709
Ion Ratio Lower Upper
228 100
226 32.5 24.7 37.1
229 21.0 16.2 24.2

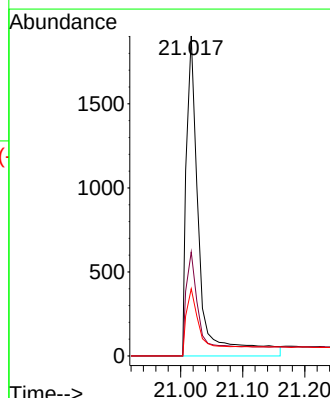
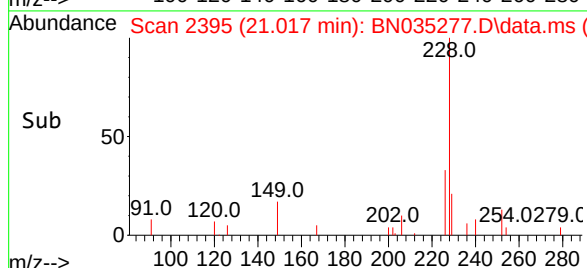
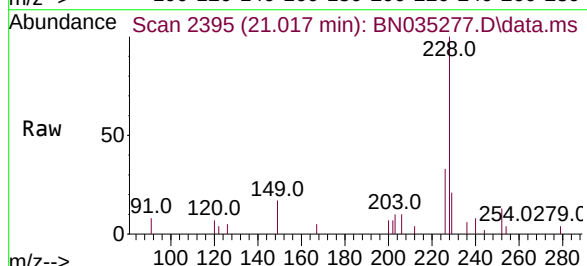
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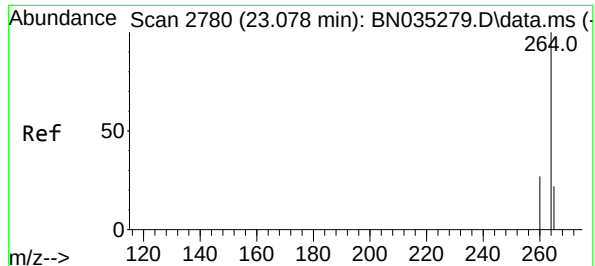
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#33
Chrysene
Concen: 0.942 ng
RT: 21.017 min Scan# 2395
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

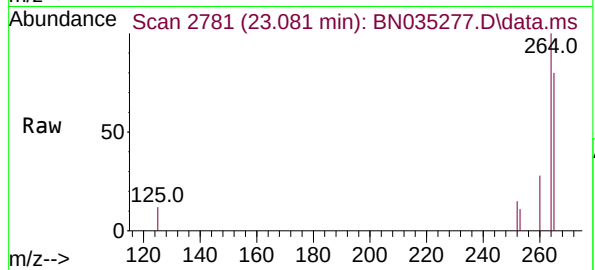
Tgt Ion:228 Resp: 2709
Ion Ratio Lower Upper
228 100
226 32.5 24.7 37.1
229 21.0 16.2 24.2





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.081 min Scan# 21
Delta R.T. 0.003 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

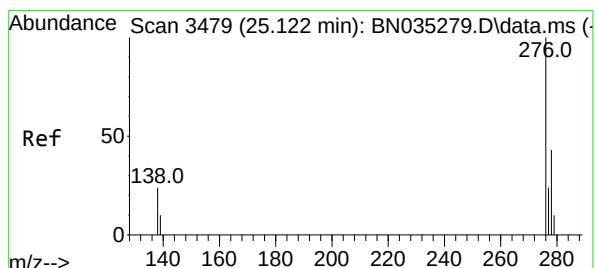
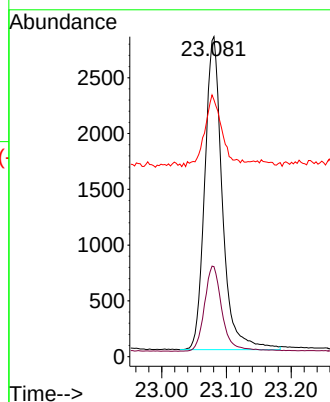
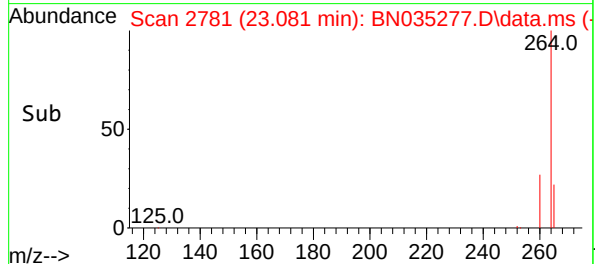
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:264 Resp: 5298
Ion Ratio Lower Upper
264 100
260 28.1 22.3 33.5
265 80.3 68.6 103.0

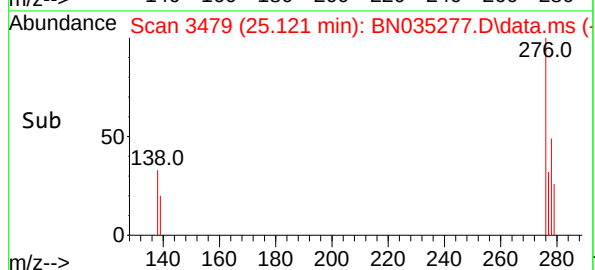
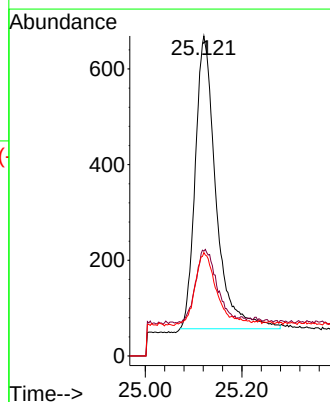
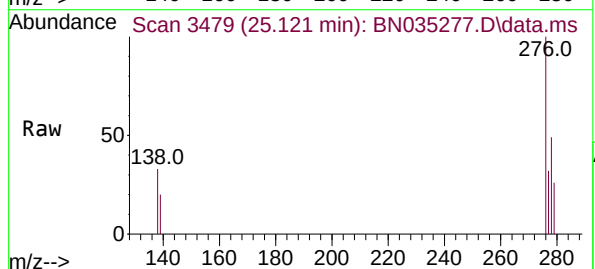
Manual Integrations
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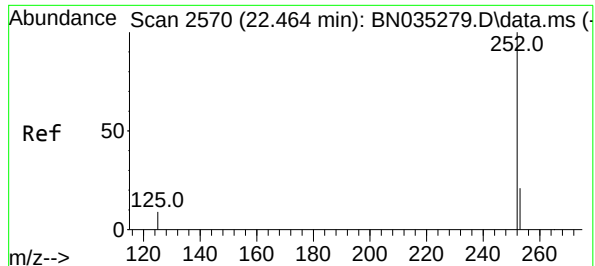
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.086 ng
RT: 25.121 min Scan# 3479
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Tgt Ion:276 Resp: 1824
Ion Ratio Lower Upper
276 100
138 21.8 18.8 28.2
277 22.8 18.2 27.4





#37

Benzo(b)fluoranthene

Concen: 0.112 ng

RT: 22.464 min Scan# 2570

Delta R.T. -0.000 min

Lab File: BN035277.D

Acq: 25 Nov 2024 10:16

Instrument :

BNA_N

ClientSampleId :

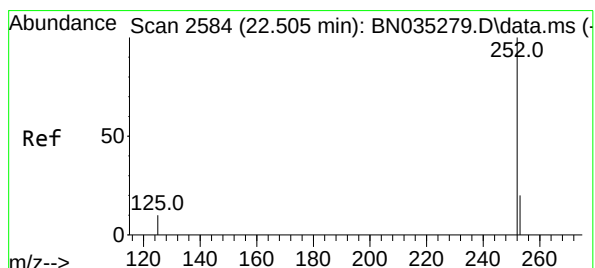
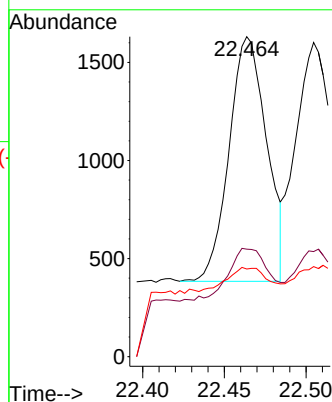
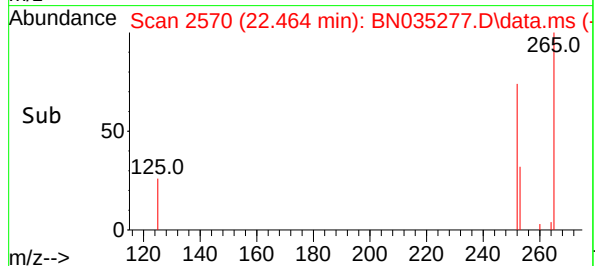
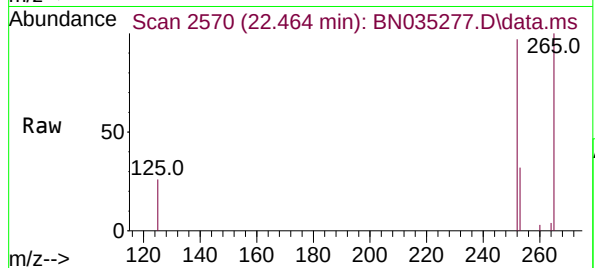
SSTDICC0.1

Tgt Ion:	252	Resp:	199
Ion	Ratio	Lower	Upper
252	100		
253	33.6	20.2	30.2
125	27.4	12.0	18.0

Manual Integrations

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Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#38

Benzo(k)fluoranthene

Concen: 0.116 ng

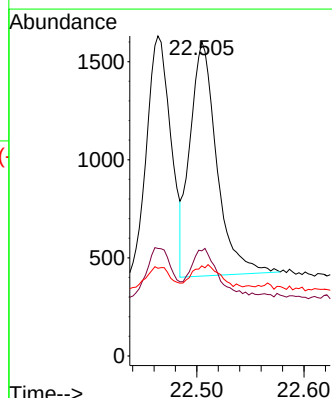
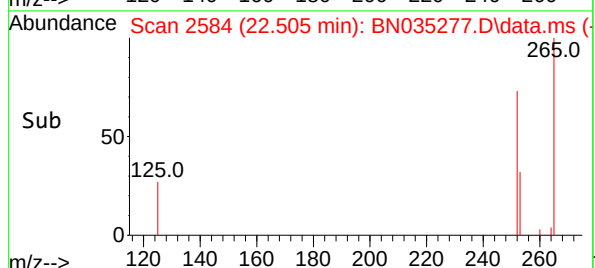
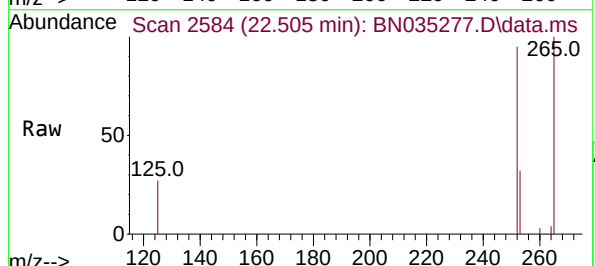
RT: 22.505 min Scan# 2584

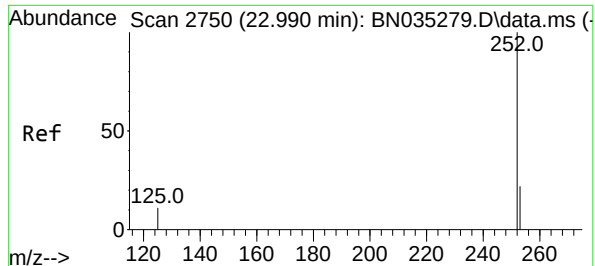
Delta R.T. -0.000 min

Lab File: BN035277.D

Acq: 25 Nov 2024 10:16

Tgt Ion:	252	Resp:	2076
Ion	Ratio	Lower	Upper
252	100		
253	33.5	20.1	30.1
125	28.7	12.7	19.1





#39

Benzo(a)pyrene

Concen: 0.101 ng

RT: 22.987 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN035277.D

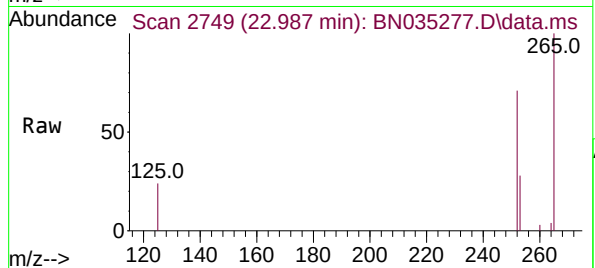
Acq: 25 Nov 2024 10:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1



Tgt Ion:252 Resp: 1578

Ion Ratio Lower Upper

252 100

253 39.3 22.3 33.5

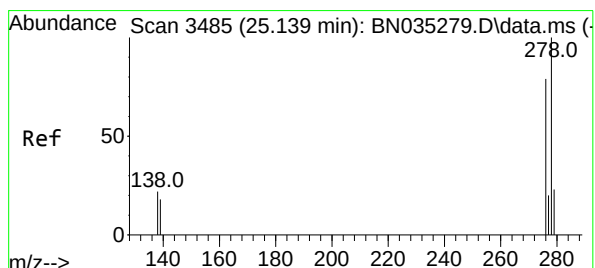
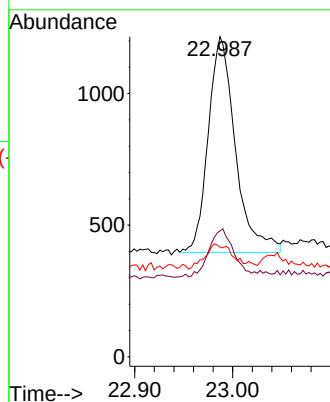
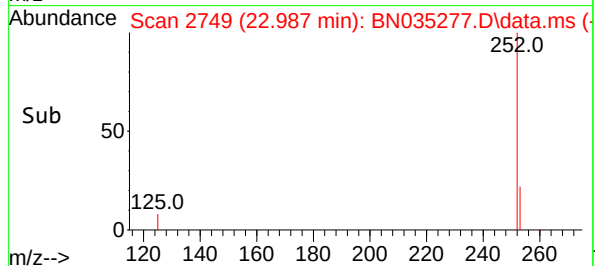
125 34.3 15.3 22.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/27/2024

Supervised By :mohammad ahmed 11/27/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.076 ng

RT: 25.142 min Scan# 3486

Delta R.T. 0.003 min

Lab File: BN035277.D

Acq: 25 Nov 2024 10:16

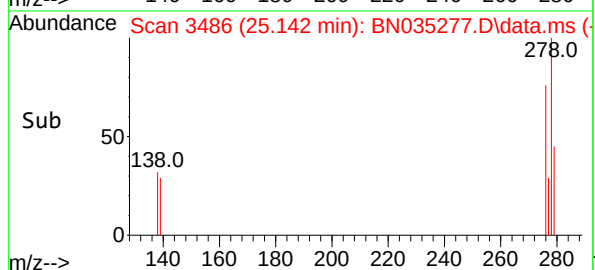
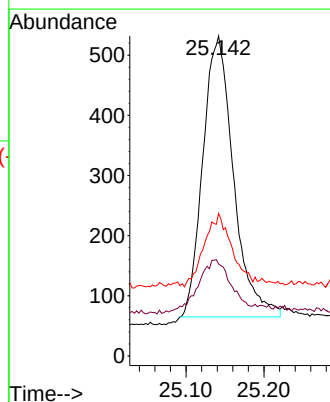
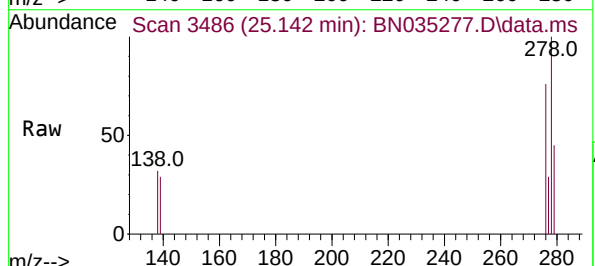
Tgt Ion:278 Resp: 1273

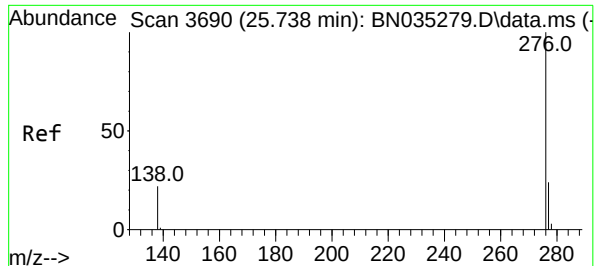
Ion Ratio Lower Upper

278 100

139 28.8 17.0 25.6

279 44.5 23.0 34.4





#41

Benzo(g,h,i)perylene

Concen: 0.096 ng

RT: 25.738 min Scan# 30

Delta R.T. -0.000 min

Lab File: BN035277.D

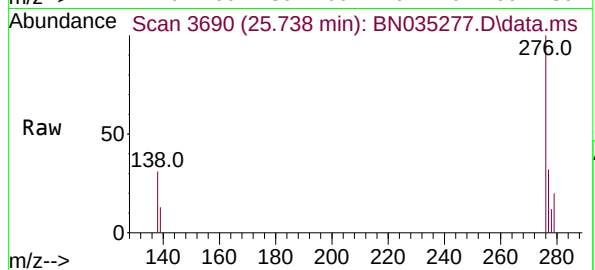
Acq: 25 Nov 2024 10:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1



Tgt Ion:276 Resp: 1710

Ion Ratio Lower Upper

276 100

277 32.3 21.1 31.7

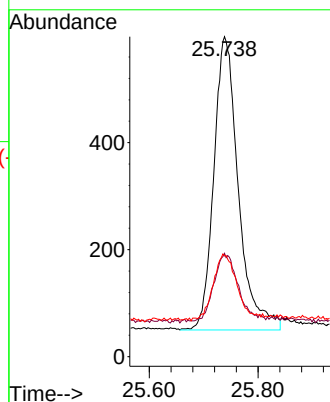
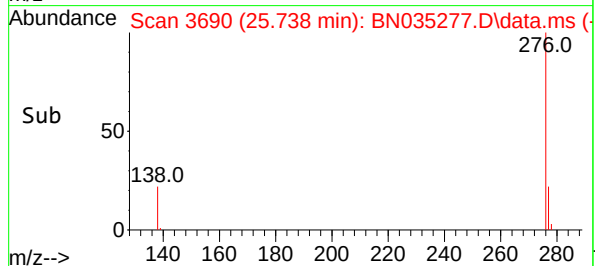
138 31.4 19.8 29.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/27/2024

Supervised By :mohammad ahmed 11/27/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
 Data File : BN035278.D
 Acq On : 25 Nov 2024 10:52
 Operator : RC/JU
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 53 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/27/2024
 Supervised By :mohammad ahmed 11/27/2024

Quant Time: Nov 25 14:18:27 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Nov 25 14:16:35 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.315	152	2248	0.400	ng	0.00
7) Naphthalene-d8	10.063	136	5670	0.400	ng	0.00
13) Acenaphthene-d10	13.976	164	3200	0.400	ng	0.00
19) Phenanthrene-d10	16.734	188	7531	0.400	ng	0.00
29) Chrysene-d12	21.008	240	797	0.400	ng	0.00
35) Perylene-d12	23.084	264	4527	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.975	112	891	0.156	ng	0.00
5) Phenol-d6	6.520	99	1264	0.177	ng	0.00
8) Nitrobenzene-d5	8.450	82	771m	0.156	ng	0.00
11) 2-Methylnaphthalene-d10	11.666	152	1506	0.149	ng	0.00
14) 2,4,6-Tribromophenol	15.484	330	279	0.121	ng	0.00
15) 2-Fluorobiphenyl	12.608	172	679	0.052	ng	0.00
27) Fluoranthene-d10	18.792	212	3625	0.157	ng	0.00
31) Terphenyl-d14	19.424	244	2197	1.314	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.003	88	310	0.152	ng	# 75
3) n-Nitrosodimethylamine	3.299	42	314	0.165	ng	# 82
6) bis(2-Chloroethyl)ether	6.766	93	978	0.182	ng	98
9) Naphthalene	10.116	128	2990	0.202	ng	96
10) Hexachlorobutadiene	10.415	225	818	0.189	ng	# 98
12) 2-Methylnaphthalene	11.742	142	1929	0.177	ng	97
16) Acenaphthylene	13.688	152	2991	0.219	ng	99
17) Acenaphthene	14.040	154	1852	0.207	ng	97
18) Fluorene	15.035	166	2587	0.196	ng	98
20) 4,6-Dinitro-2-methylph...	15.131	198	102	0.065	ng	# 49
21) 4-Bromophenyl-phenylether	15.952	248	888	0.185	ng	# 70
22) Hexachlorobenzene	16.051	284	1264	0.254	ng	98
23) Atrazine	16.237	200	357	0.083	ng	92
24) Pentachlorophenol	16.399	266	252	0.108	ng	97
25) Phenanthrene	16.783	178	4155	0.210	ng	100
26) Anthracene	16.870	178	3384	0.186	ng	99
28) Fluoranthene	18.825	202	4828	0.177	ng	100
30) Pyrene	19.192	202	4697	1.770	ng	99
32) Benzo(a)anthracene	21.017	228	4459	1.607	ng	99
33) Chrysene	21.017	228	4459	1.622	ng	99
34) Bis(2-ethylhexyl)phtha...	21.017	149	696	0.478	ng	# 92
36) Indeno(1,2,3-cd)pyrene	25.121	276	3191	0.177	ng	99
37) Benzo(b)fluoranthene	22.467	252	3513	0.231	ng	# 90
38) Benzo(k)fluoranthene	22.505	252	3588	0.235	ng	# 90
39) Benzo(a)pyrene	22.990	252	2673	0.199	ng	# 87
40) Dibenzo(a,h)anthracene	25.142	278	2328	0.163	ng	# 90
41) Benzo(g,h,i)perylene	25.741	276	2967	0.195	ng	95

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

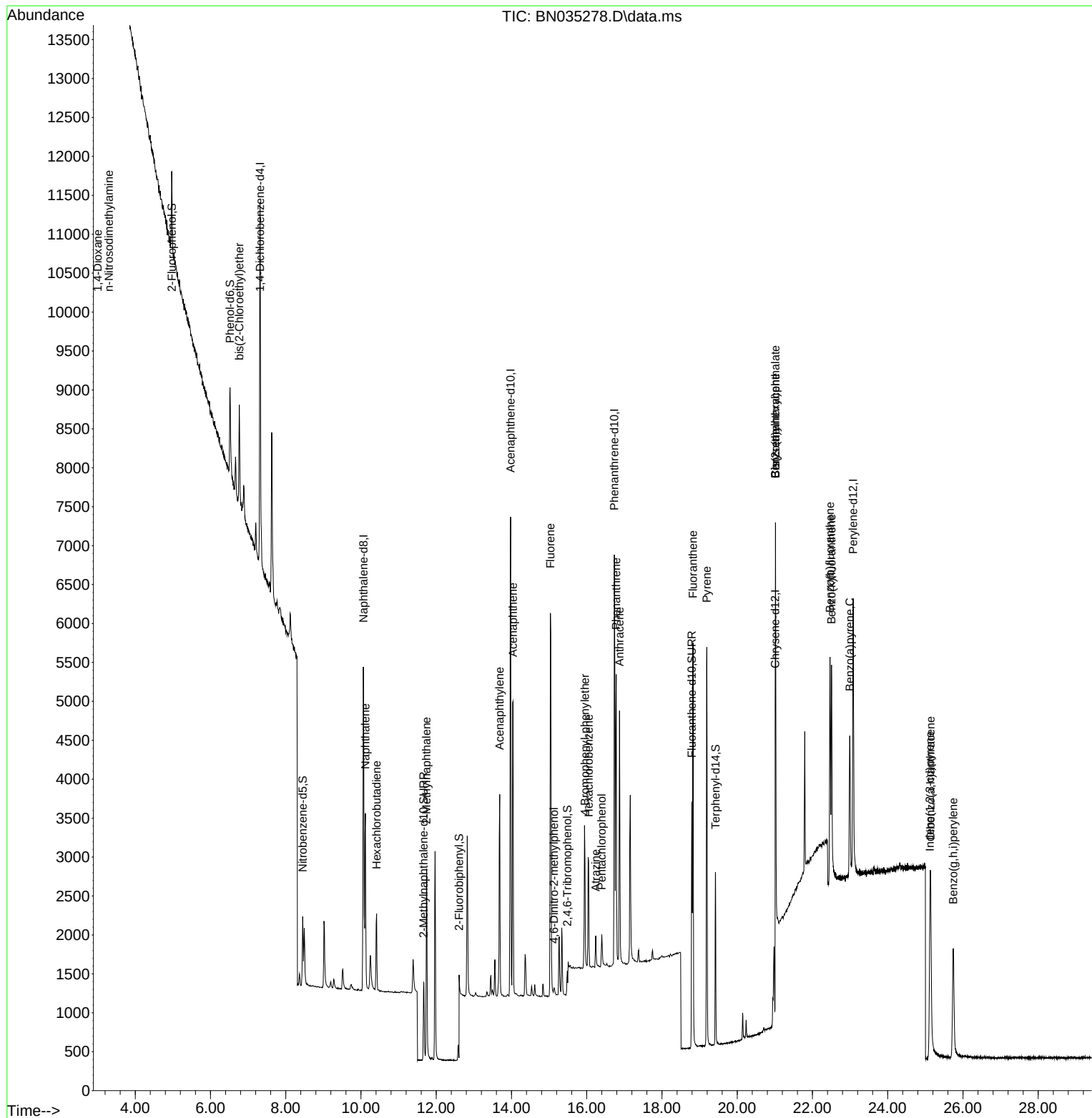
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Data File : BN035278.D
Acq On : 25 Nov 2024 10:52
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 53 Sample Multiplier: 1

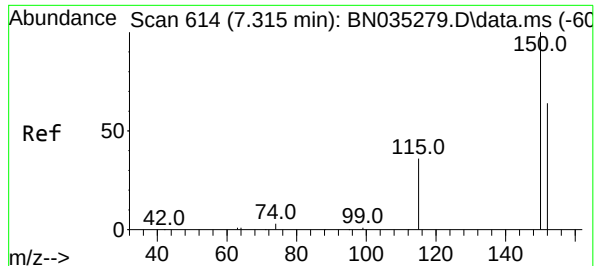
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Nov 25 14:18:27 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 25 14:16:35 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

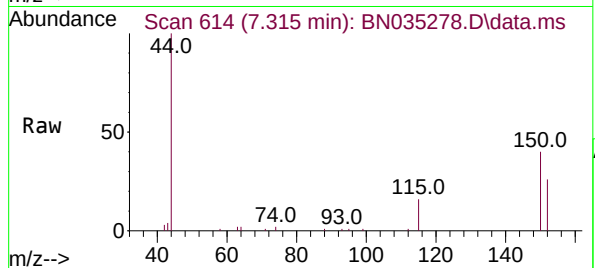
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.315 min Scan# 614
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

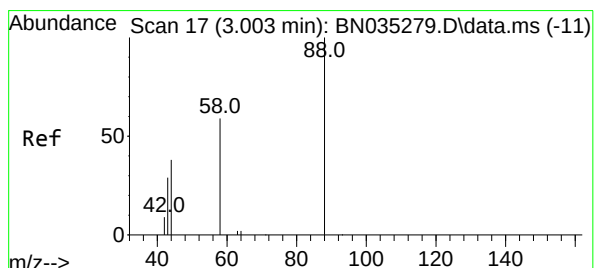
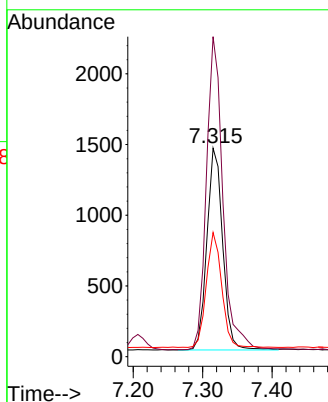
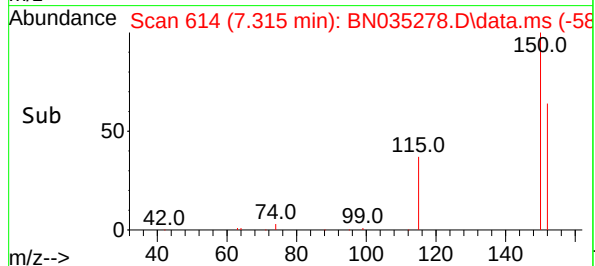
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion: 152 Resp: 2248
Ion Ratio Lower Upper
152 100
150 153.5 124.5 186.7
115 59.6 47.8 71.8

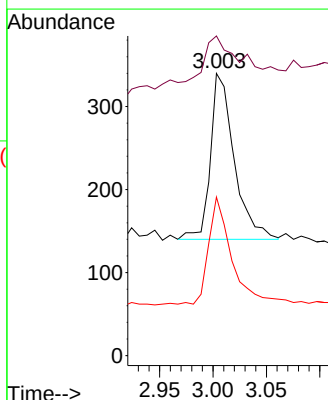
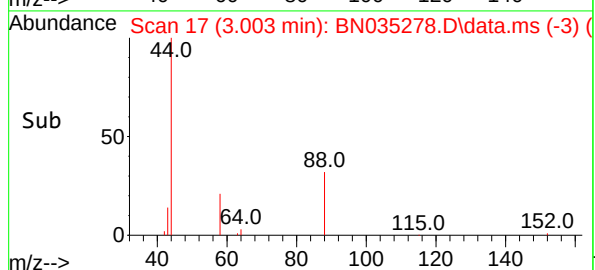
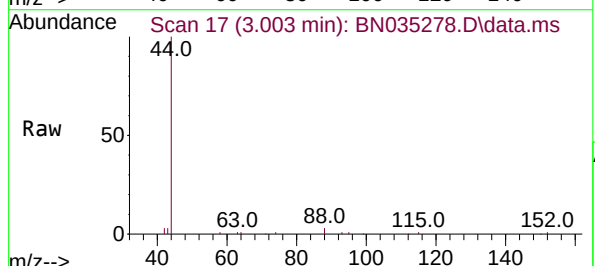
Manual Integrations
APPROVED

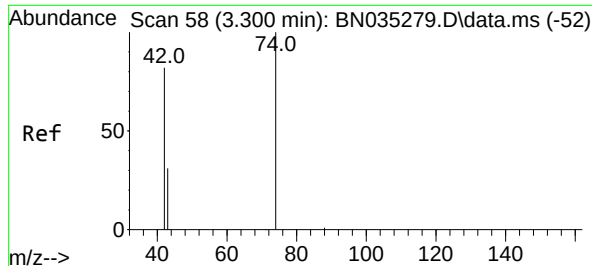
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#2
1,4-Dioxane
Concen: 0.152 ng
RT: 3.003 min Scan# 17
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

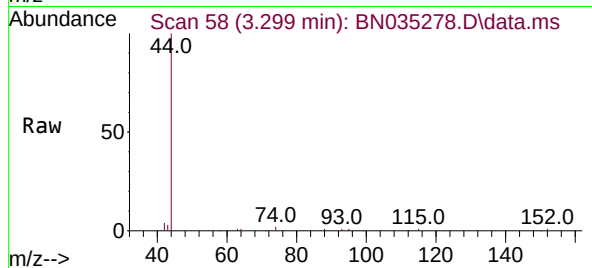
Tgt Ion: 88 Resp: 310
Ion Ratio Lower Upper
88 100
43 91.0 48.1 72.1#
58 65.5 46.9 70.3





#3
n-Nitrosodimethylamine
Concen: 0.165 ng
RT: 3.299 min Scan# 58
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

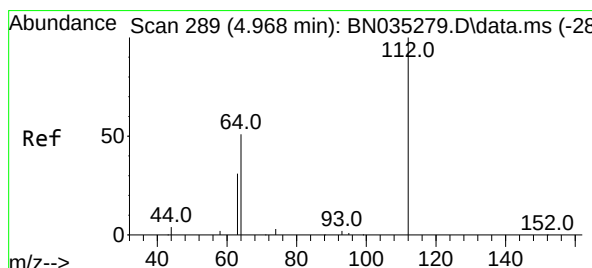
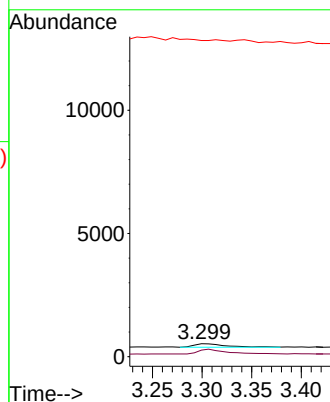
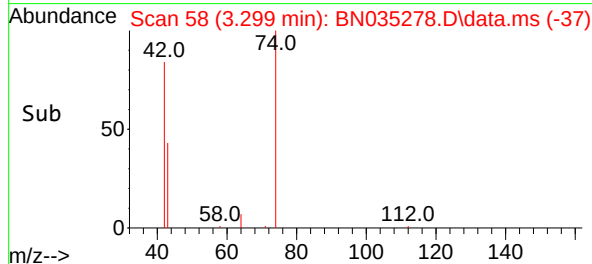
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion: 42 Resp: 314
Ion Ratio Lower Upper
42 100
74 125.8 102.7 154.1
44 0.0 34.1 51.1

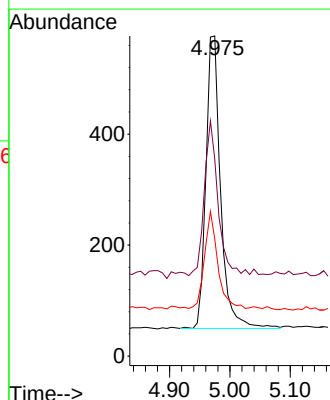
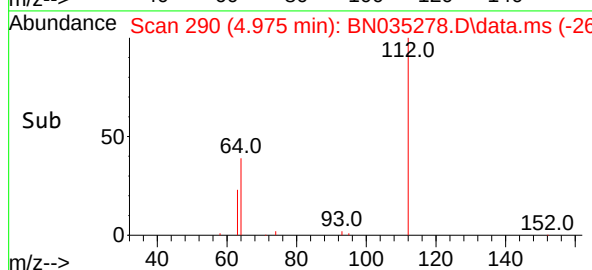
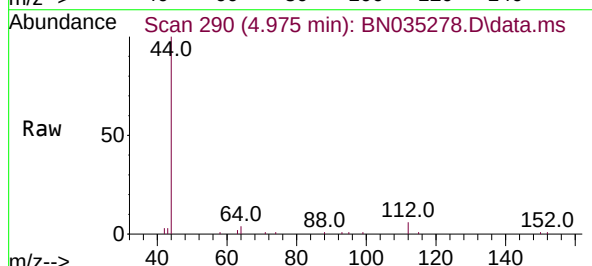
Manual Integrations
APPROVED

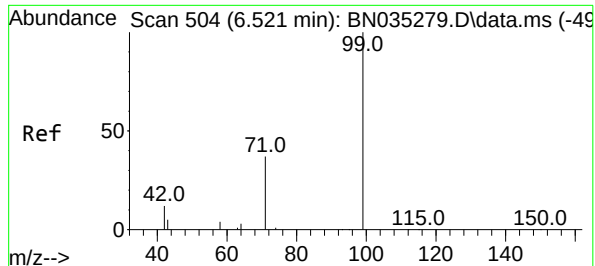
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#4
2-Fluorophenol
Concen: 0.156 ng
RT: 4.975 min Scan# 290
Delta R.T. 0.007 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion:112 Resp: 891
Ion Ratio Lower Upper
112 100
64 50.3 40.4 60.6
63 29.5 23.8 35.8





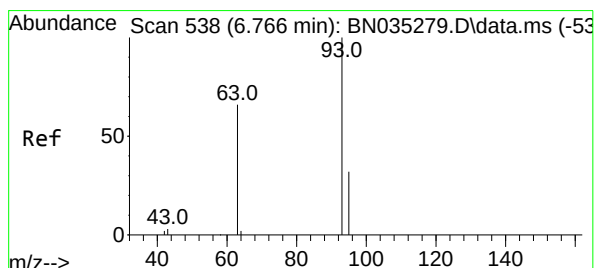
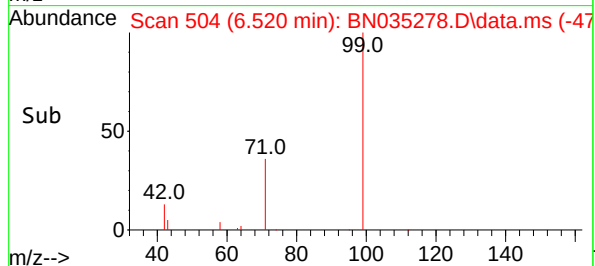
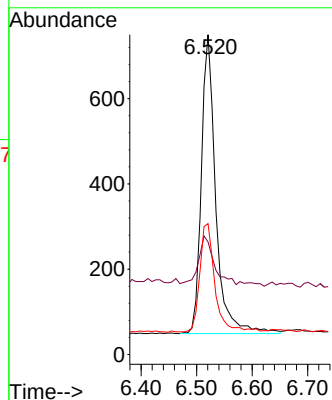
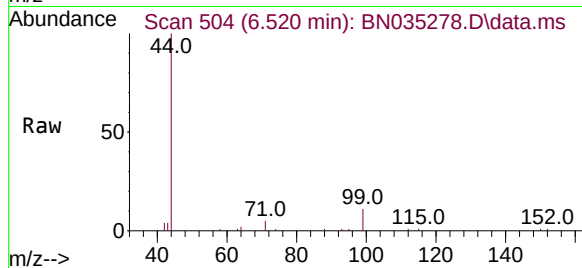
#5
Phenol-d6
Concen: 0.177 ng
RT: 6.520 min Scan# 504
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion: 99 Resp: 1264
Ion Ratio Lower Upper
99 100
42 20.3 12.8 19.2
71 37.8 31.4 47.2

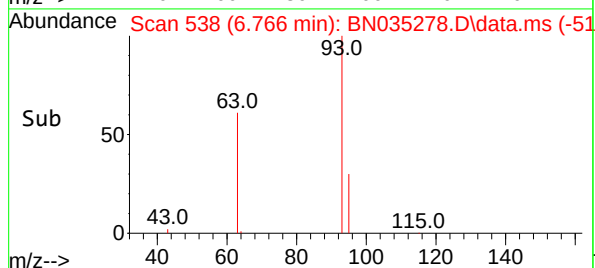
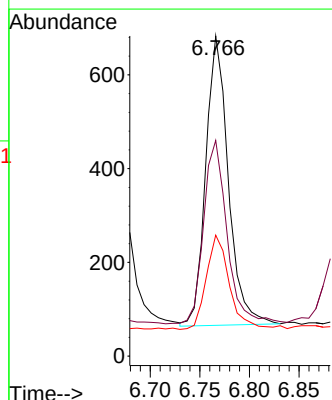
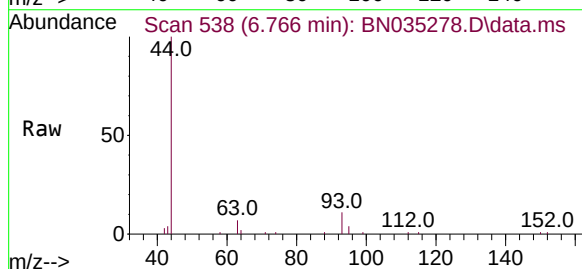
Manual Integrations
APPROVED

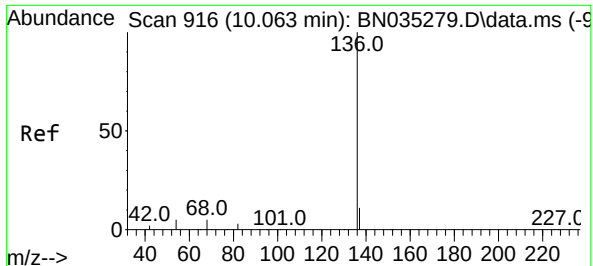
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.182 ng
RT: 6.766 min Scan# 538
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

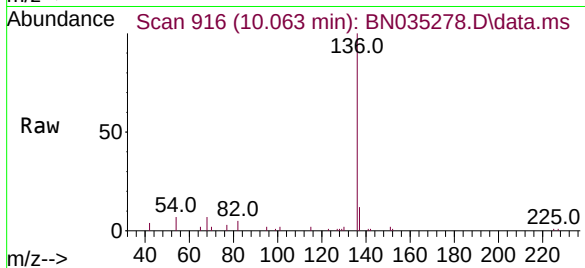
Tgt Ion: 93 Resp: 978
Ion Ratio Lower Upper
93 100
63 66.0 52.3 78.5
95 33.7 25.5 38.3





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.063 min Scan# 916
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

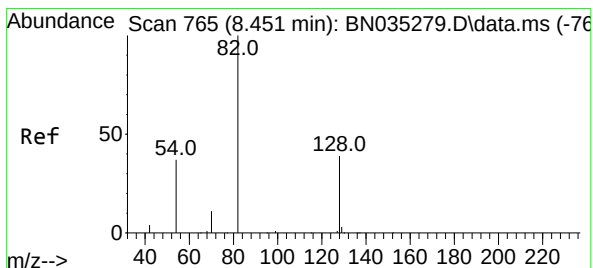
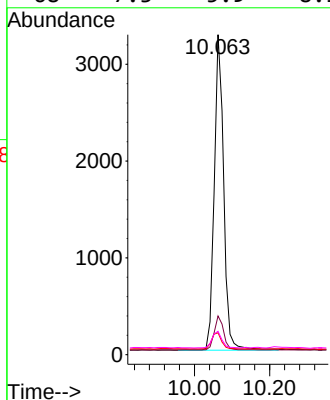
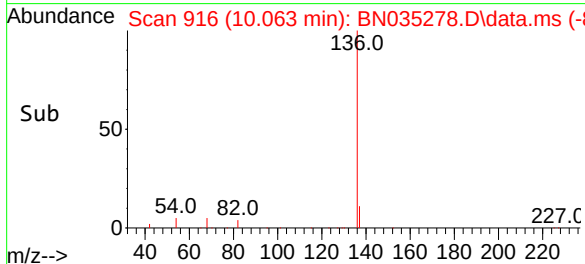
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion: 136 Resp: 5670
Ion Ratio Lower Upper
136 100
137 12.1 9.7 14.5
54 6.8 5.3 7.9
68 7.3 5.9 8.9

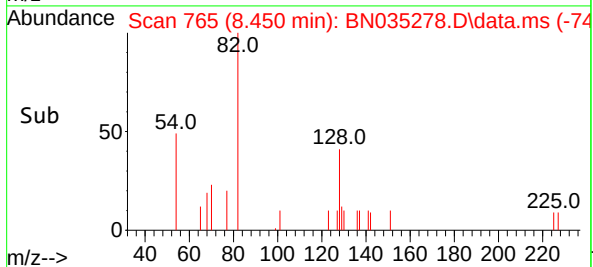
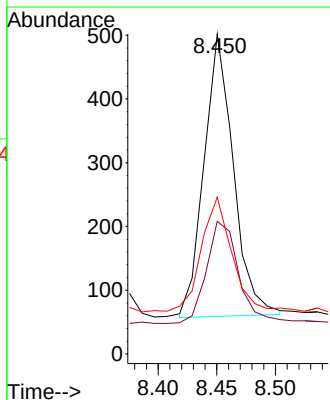
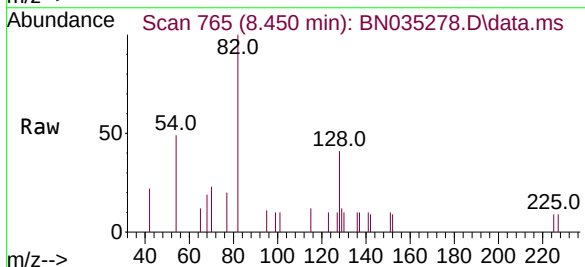
Manual Integrations
APPROVED

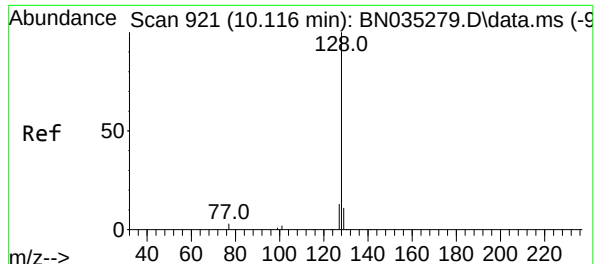
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#8
Nitrobenzene-d5
Concen: 0.156 ng m
RT: 8.450 min Scan# 765
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion: 82 Resp: 771
Ion Ratio Lower Upper
82 100
128 41.4 33.0 49.4
54 49.0 33.3 49.9





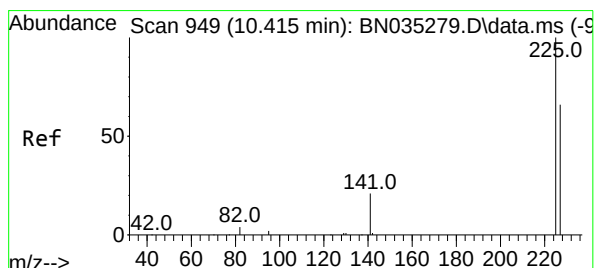
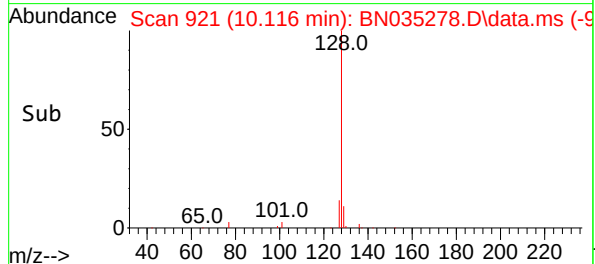
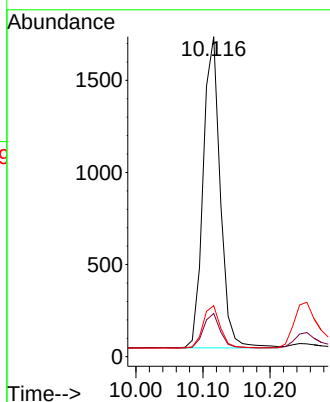
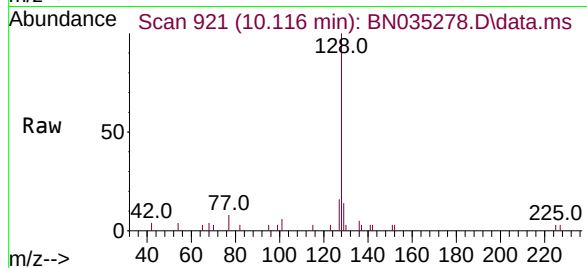
#9
Naphthalene
Concen: 0.202 ng
RT: 10.116 min Scan# 921
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:128 Resp: 2990
Ion Ratio Lower Upper
128 100
129 13.5 9.6 14.4
127 15.9 11.3 16.9

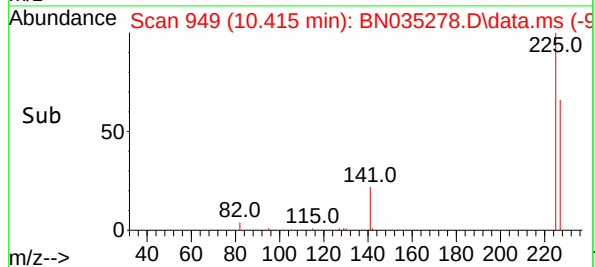
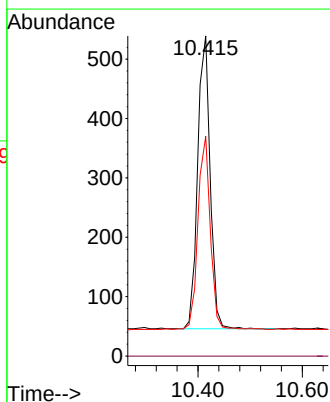
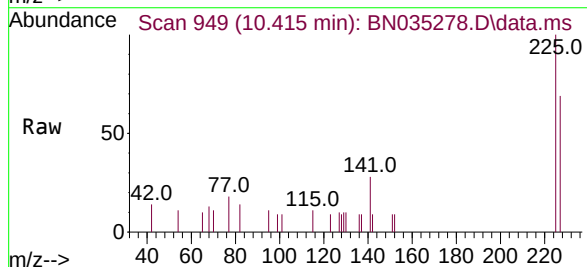
Manual Integrations
APPROVED

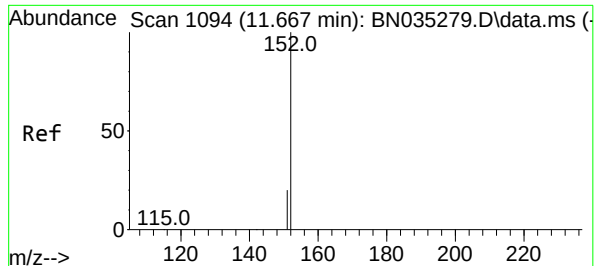
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#10
Hexachlorobutadiene
Concen: 0.189 ng
RT: 10.415 min Scan# 949
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

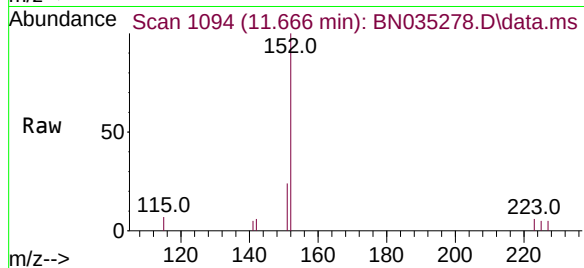
Tgt Ion:225 Resp: 818
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 65.4 51.3 76.9





#11
2-Methylnaphthalene-d10
Concen: 0.149 ng
RT: 11.666 min Scan# 1094
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

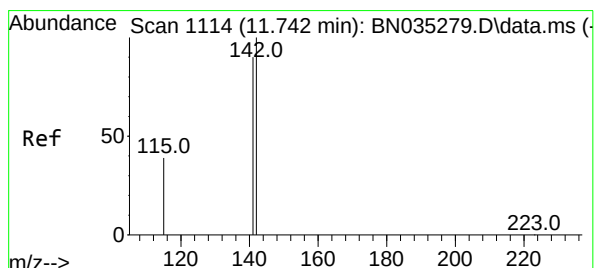
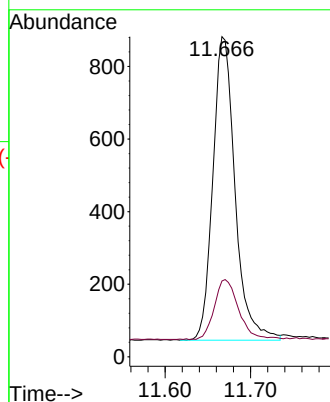
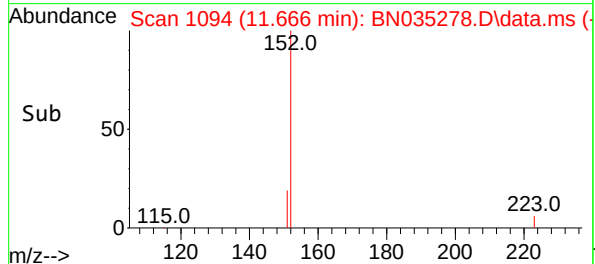
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:152 Resp: 1500
Ion Ratio Lower Upper
152 100
151 22.0 17.2 25.8

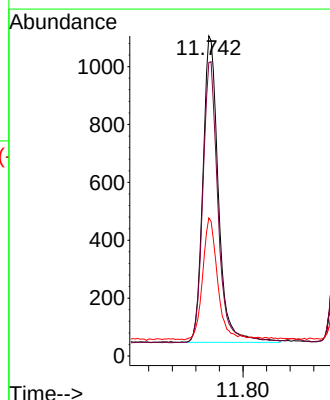
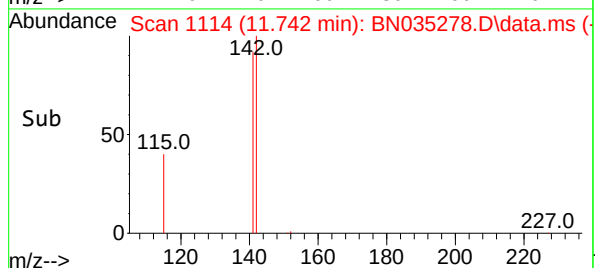
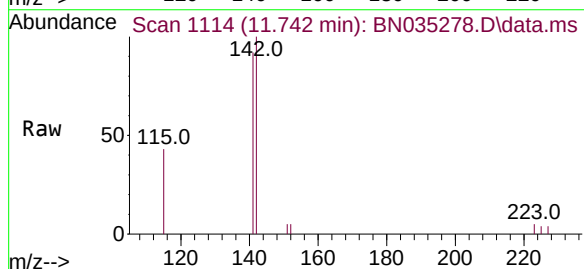
Manual Integrations
APPROVED

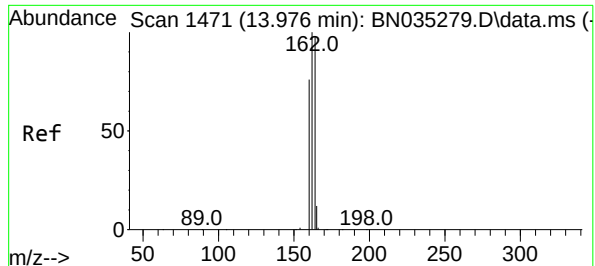
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#12
2-Methylnaphthalene
Concen: 0.177 ng
RT: 11.742 min Scan# 1114
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

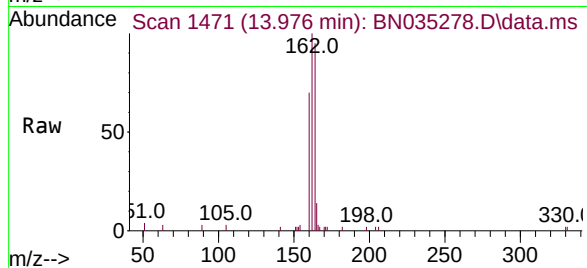
Tgt Ion:142 Resp: 1929
Ion Ratio Lower Upper
142 100
141 91.7 71.8 107.8
115 43.1 32.6 49.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.976 min Scan# 1471
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

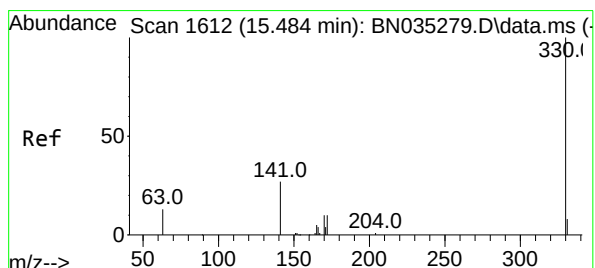
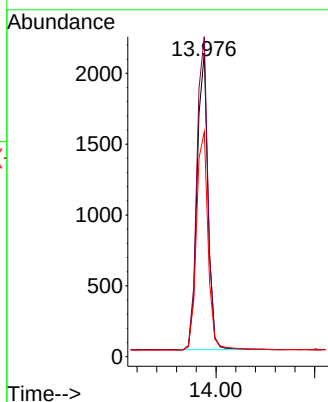
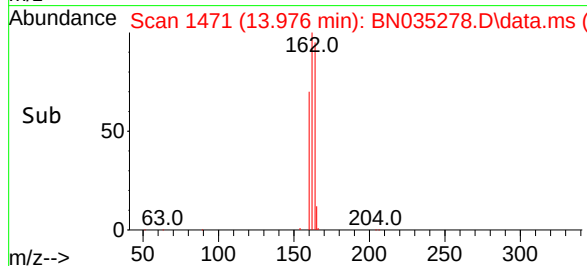
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:164 Resp: 3200
Ion Ratio Lower Upper
164 100
162 105.6 82.0 123.0
160 74.2 63.0 94.4

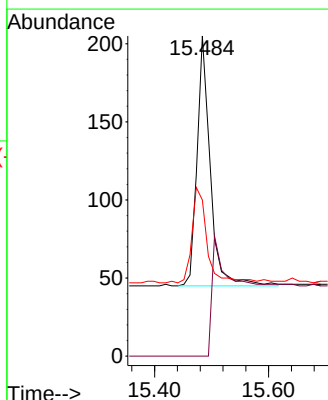
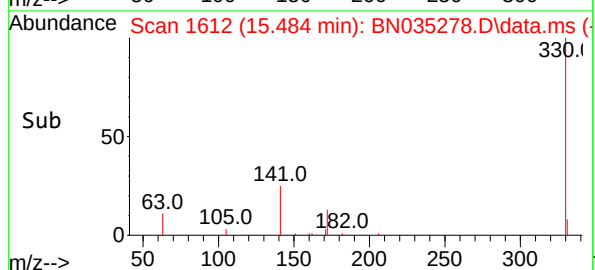
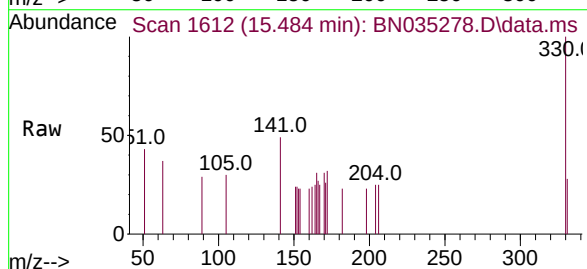
Manual Integrations
APPROVED

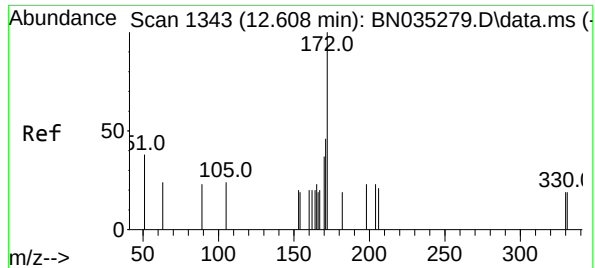
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#14
2,4,6-Tribromophenol
Concen: 0.121 ng
RT: 15.484 min Scan# 1612
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion:330 Resp: 279
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 43.4 32.4 48.6





#15
2-Fluorobiphenyl
Concen: 0.052 ng
RT: 12.608 min Scan# 1343
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Instrument :

BNA_N

ClientSampleId :

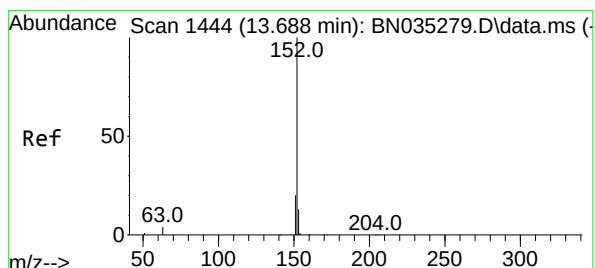
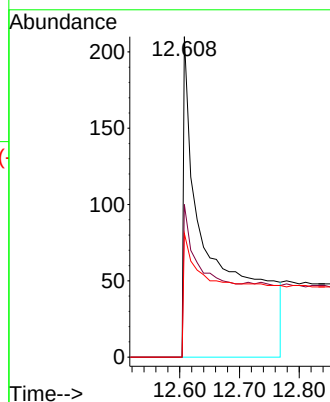
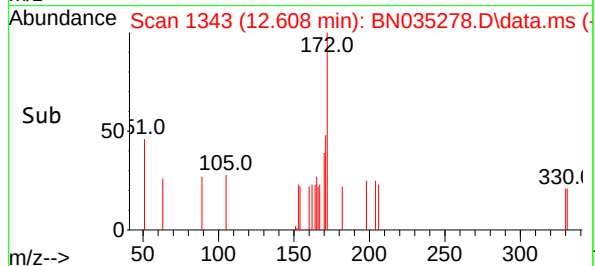
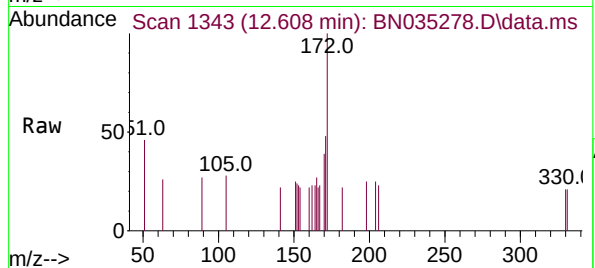
SSTDICC0.2

Tgt Ion	Ratio	Lower	Upper
172	100		
171	47.6	36.6	55.0
170	38.6	29.7	44.5

Manual Integrations

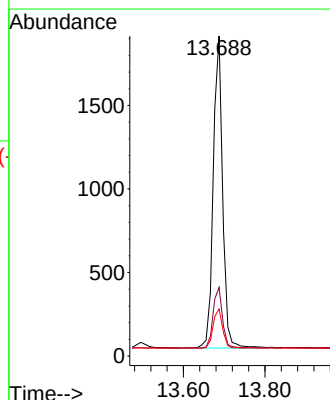
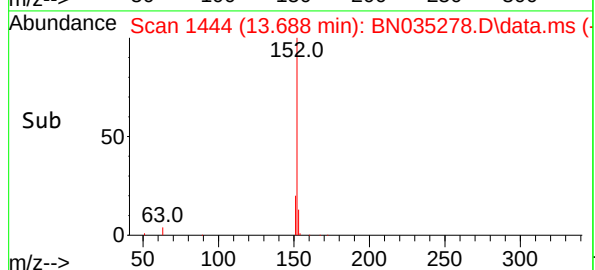
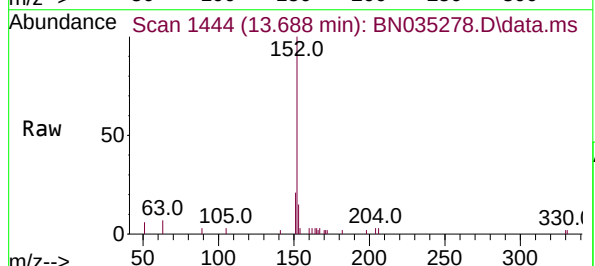
APPROVED

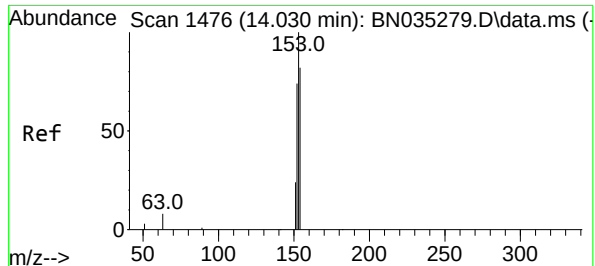
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#16
Acenaphthylene
Concen: 0.219 ng
RT: 13.688 min Scan# 1444
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

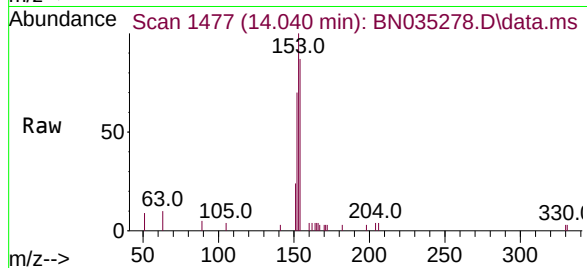
Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.4	15.9	23.9
153	12.9	10.2	15.4





#17
Acenaphthene
Concen: 0.207 ng
RT: 14.040 min Scan# 1476
Delta R.T. 0.010 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

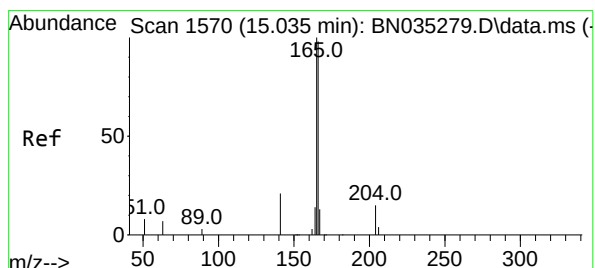
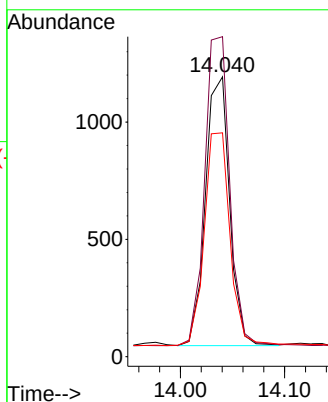
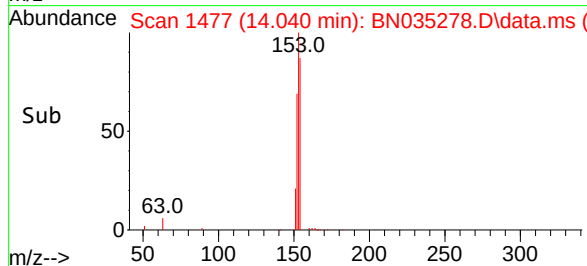
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:154 Resp: 1852
Ion Ratio Lower Upper
154 100
153 119.7 96.1 144.1
152 84.6 72.2 108.2

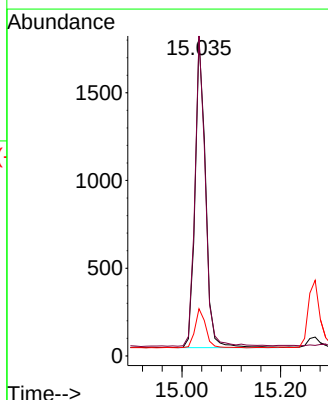
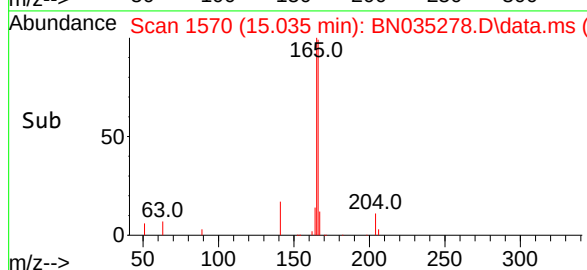
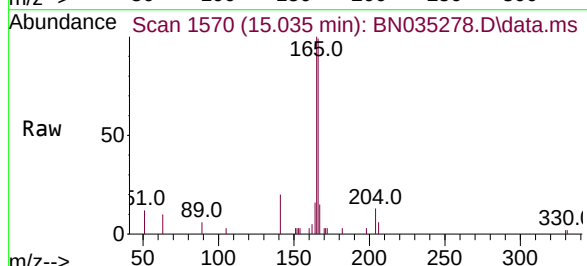
Manual Integrations
APPROVED

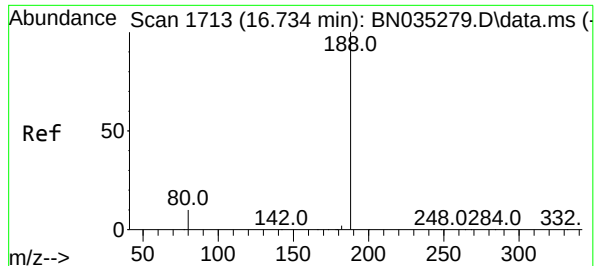
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#18
Fluorene
Concen: 0.196 ng
RT: 15.035 min Scan# 1570
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion:166 Resp: 2587
Ion Ratio Lower Upper
166 100
165 99.7 81.2 121.8
167 13.2 10.5 15.7





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.734 min Scan# 1713

Delta R.T. -0.000 min

Lab File: BN035278.D

Acq: 25 Nov 2024 10:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

Tgt Ion:188 Resp: 753

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

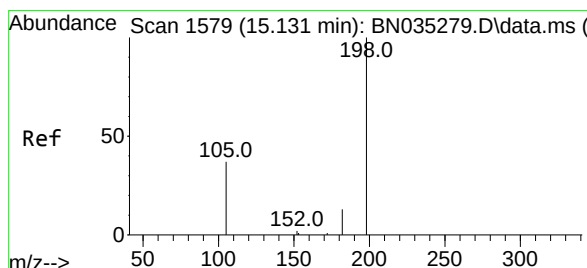
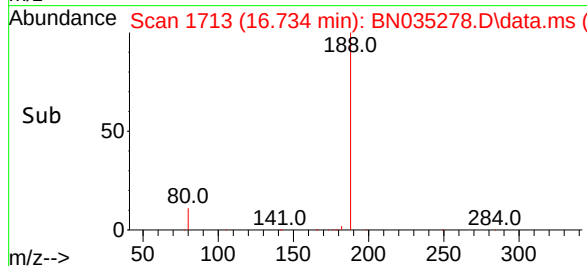
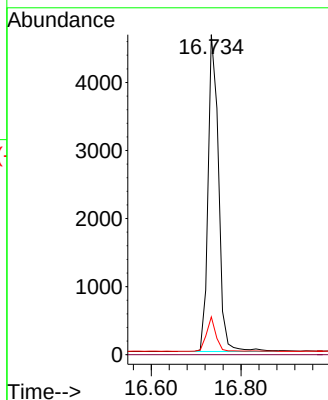
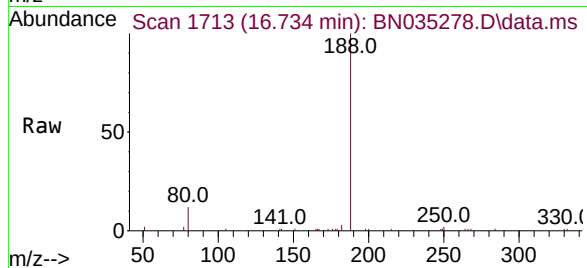
80 11.8 8.9 13.3

Manual Integrations

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Reviewed By :Yogesh Patel 11/27/2024

Supervised By :mohammad ahmed 11/27/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.065 ng

RT: 15.131 min Scan# 1579

Delta R.T. -0.000 min

Lab File: BN035278.D

Acq: 25 Nov 2024 10:52

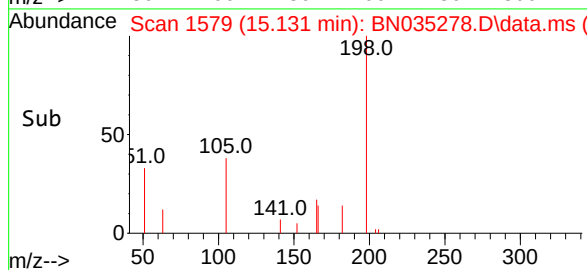
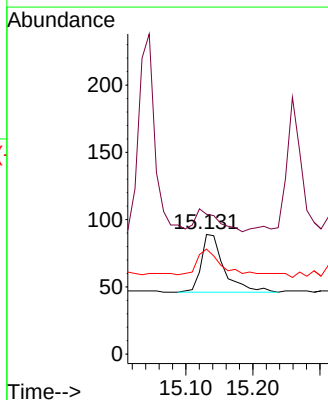
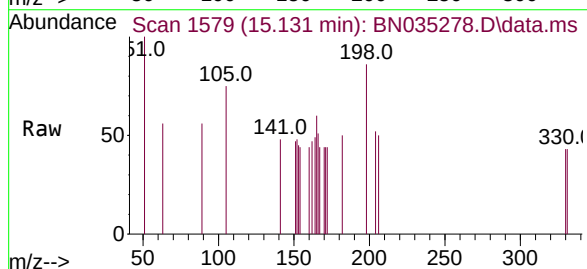
Tgt Ion:198 Resp: 102

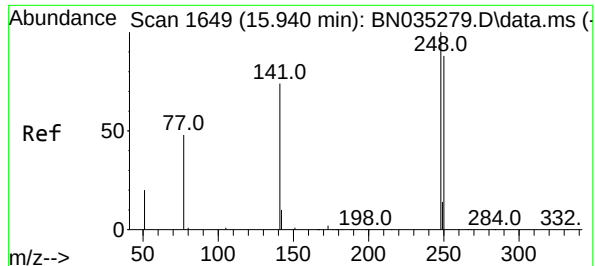
Ion Ratio Lower Upper

198 100

51 116.9 53.6 80.4#

105 87.6 47.4 71.2#





#21

4-Bromophenyl-phenylether

Concen: 0.185 ng

RT: 15.952 min Scan# 1650

Delta R.T. 0.012 min

Lab File: BN035278.D

Acq: 25 Nov 2024 10:52

Instrument :

BNA_N

ClientSampleId :

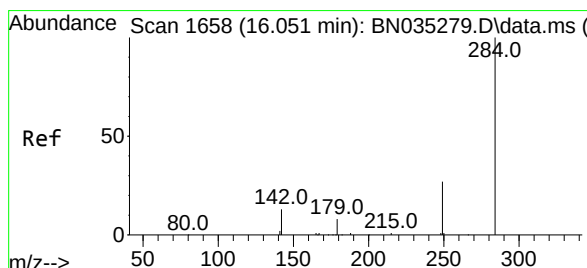
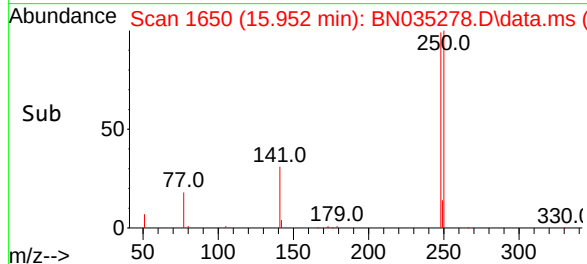
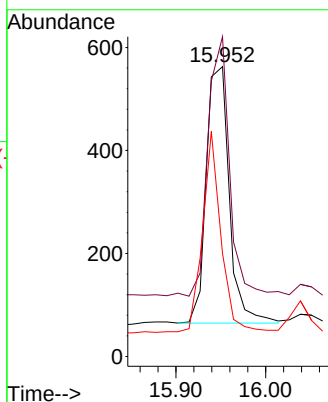
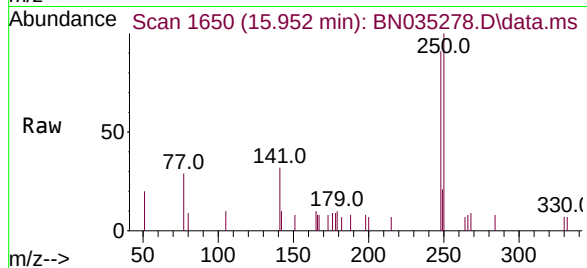
SSTDICC0.2

Tgt Ion:	248	Resp:	88.4
Ion	Ratio	Lower	Upper
248	100		
250	110.3	74.8	112.2
141	35.5	59.0	88.4

Manual Integrations

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Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#22

Hexachlorobenzene

Concen: 0.254 ng

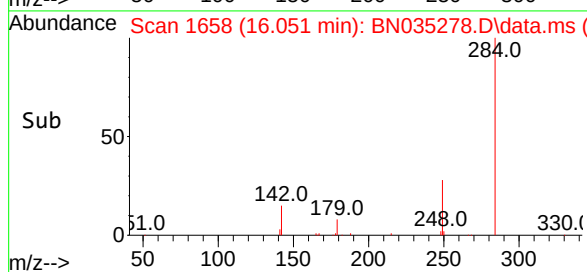
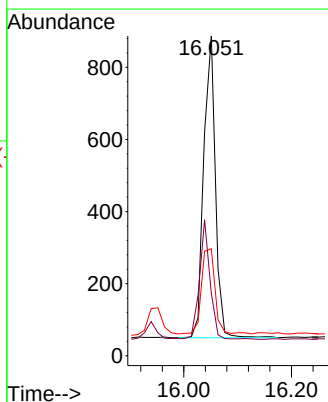
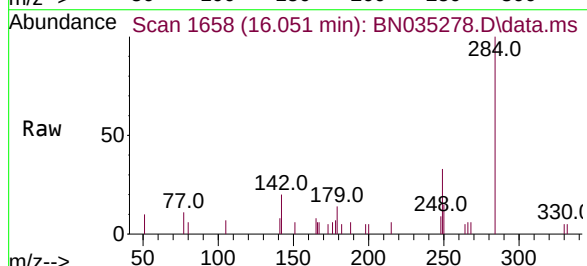
RT: 16.051 min Scan# 1658

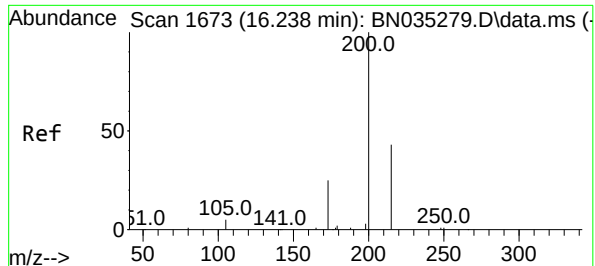
Delta R.T. -0.000 min

Lab File: BN035278.D

Acq: 25 Nov 2024 10:52

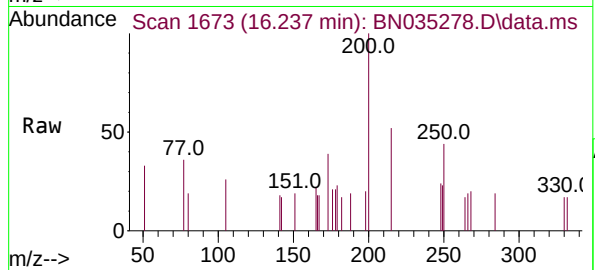
Tgt Ion:	284	Resp:	1264
Ion	Ratio	Lower	Upper
284	100		
142	35.2	28.7	43.1
249	33.8	25.4	38.0





#23
Atrazine
Concen: 0.083 ng
RT: 16.237 min Scan# 1673
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

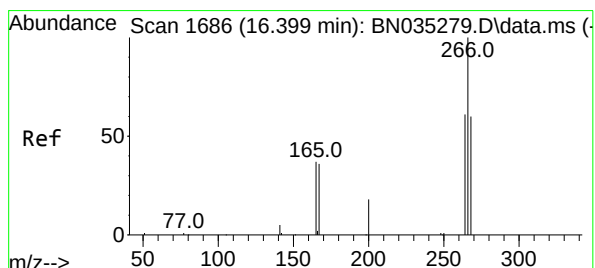
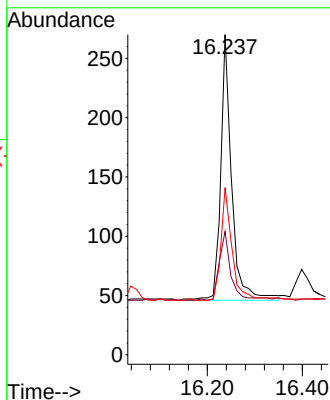
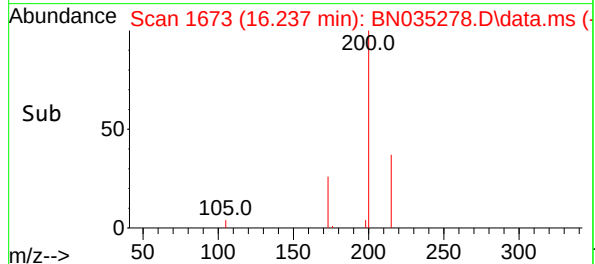
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:200 Resp: 352
Ion Ratio Lower Upper
200 100
173 38.5 25.8 38.8
215 52.2 38.6 58.0

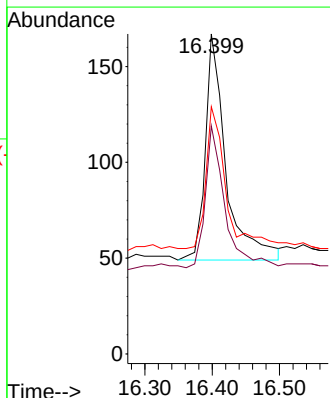
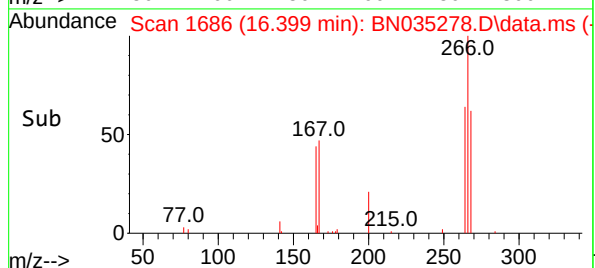
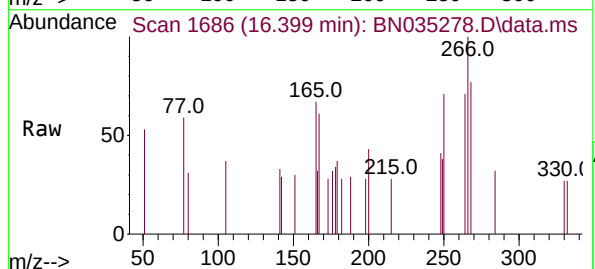
Manual Integrations
APPROVED

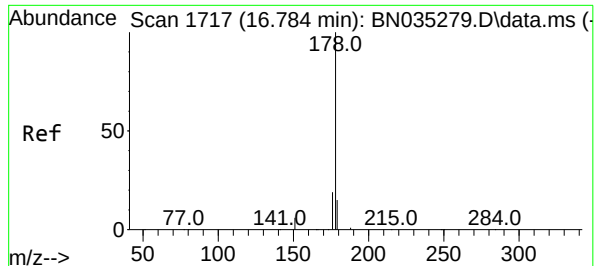
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#24
Pentachlorophenol
Concen: 0.108 ng
RT: 16.399 min Scan# 1686
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

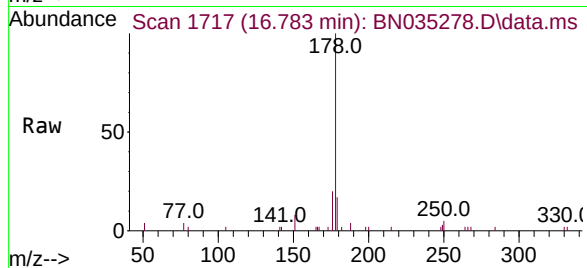
Tgt Ion:266 Resp: 252
Ion Ratio Lower Upper
266 100
264 59.1 49.3 73.9
268 63.1 48.6 73.0





#25
Phenanthrene
Concen: 0.210 ng
RT: 16.783 min Scan# 1717
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

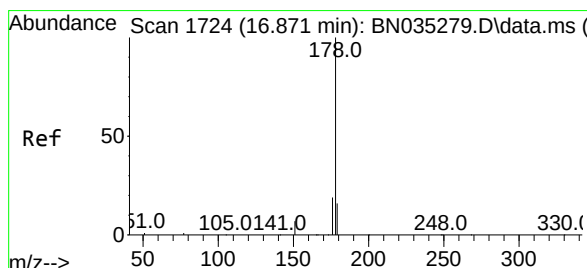
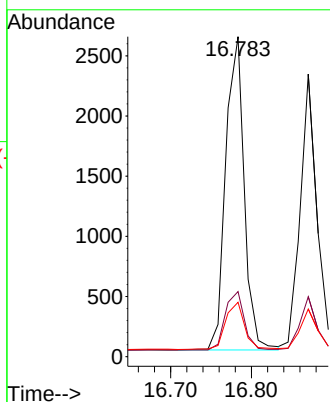
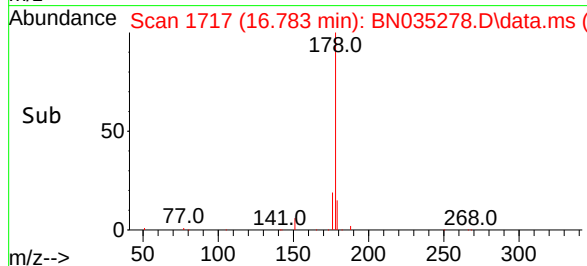
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:178 Resp: 4158
Ion Ratio Lower Upper
178 100
176 19.2 15.4 23.0
179 15.5 12.6 18.8

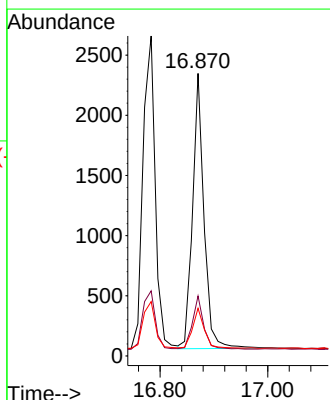
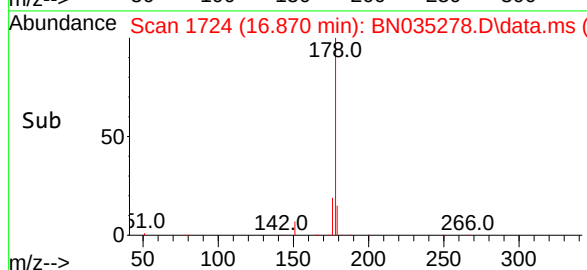
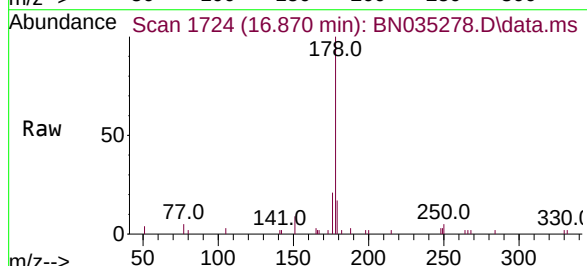
Manual Integrations
APPROVED

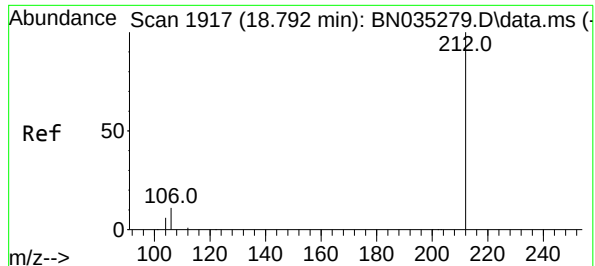
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#26
Anthracene
Concen: 0.186 ng
RT: 16.870 min Scan# 1724
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion:178 Resp: 3384
Ion Ratio Lower Upper
178 100
176 18.9 15.0 22.4
179 15.0 12.4 18.6





#27

Fluoranthene-d10

Concen: 0.157 ng

RT: 18.792 min Scan# 1917

Delta R.T. -0.000 min

Lab File: BN035278.D

Acq: 25 Nov 2024 10:52

Instrument :

BNA_N

ClientSampleId :

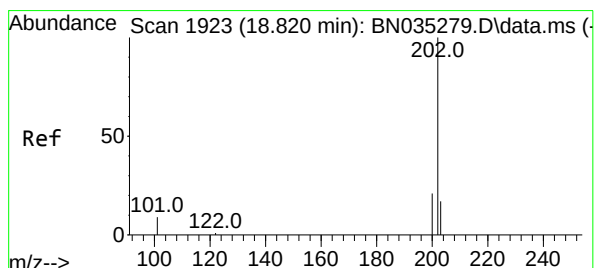
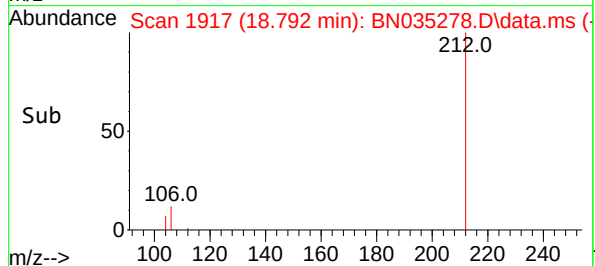
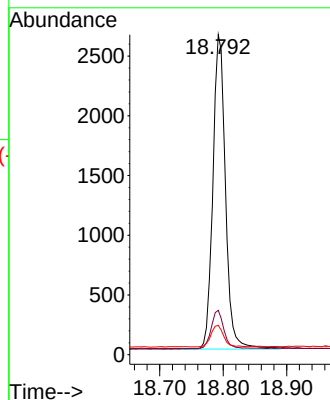
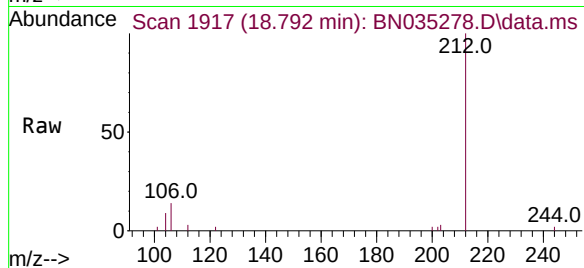
SSTDICC0.2

Tgt Ion:	212	Resp:	362
Ion Ratio	Lower	Upper	
212	100		
106	12.3	9.8	14.8
104	6.9	5.6	8.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#28

Fluoranthene

Concen: 0.177 ng

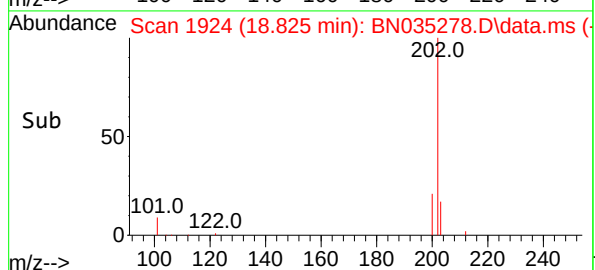
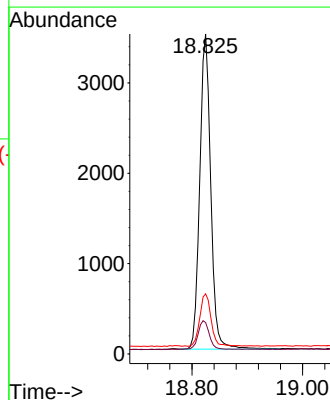
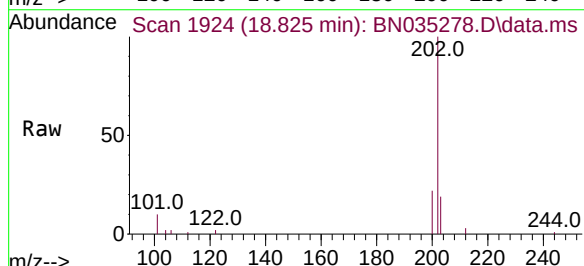
RT: 18.825 min Scan# 1924

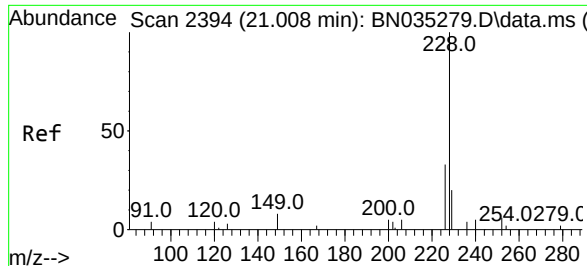
Delta R.T. 0.004 min

Lab File: BN035278.D

Acq: 25 Nov 2024 10:52

Tgt Ion:	202	Resp:	4828
Ion Ratio	Lower	Upper	
202	100		
101	9.2	7.6	11.4
203	17.3	13.8	20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.008 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035278.D

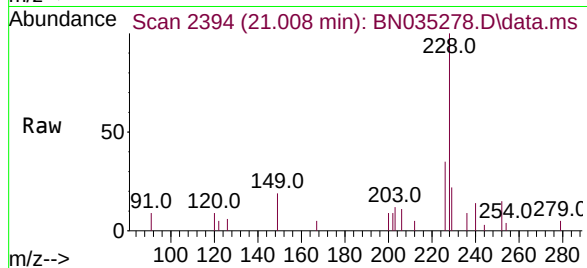
Acq: 25 Nov 2024 10:52

Instrument :

BNA_N

ClientSampleId :

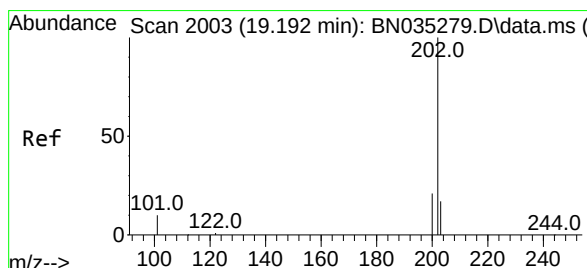
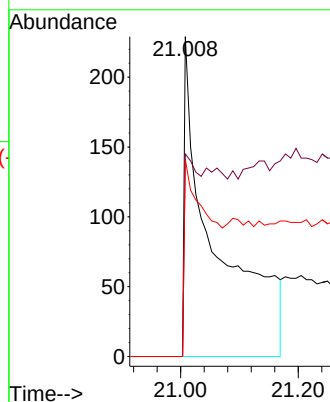
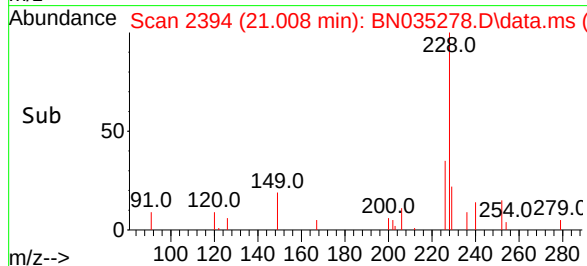
SSTDICC0.2



Tgt Ion:	240	Resp:	79
Ion Ratio	Lower	Upper	
240	100		
120	63.3	54.9	82.3
236	61.6	54.0	81.0

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#30

Pyrene

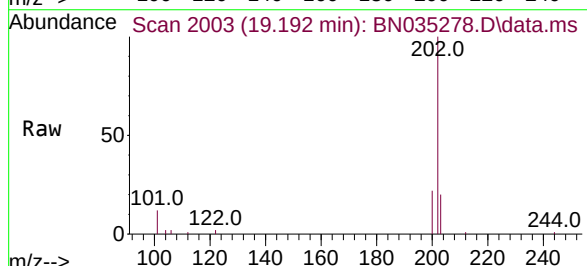
Concen: 1.770 ng

RT: 19.192 min Scan# 2003

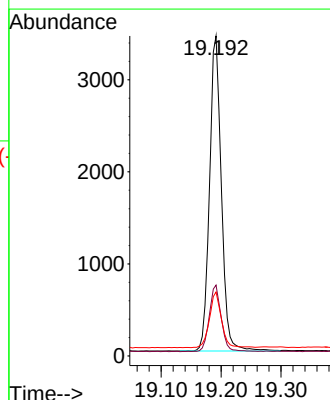
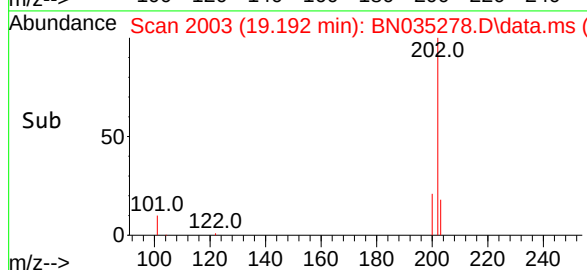
Delta R.T. -0.000 min

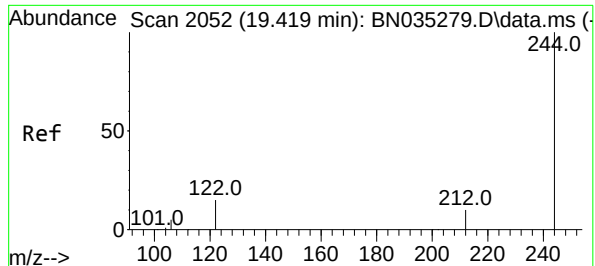
Lab File: BN035278.D

Acq: 25 Nov 2024 10:52



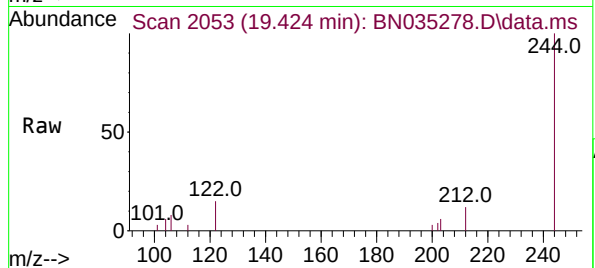
Tgt Ion:	202	Resp:	4697
Ion Ratio	Lower	Upper	
202	100		
200	21.2	16.8	25.2
203	17.7	14.4	21.6





#31
Terphenyl-d14
Concen: 1.314 ng
RT: 19.424 min Scan# 2052
Delta R.T. 0.004 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

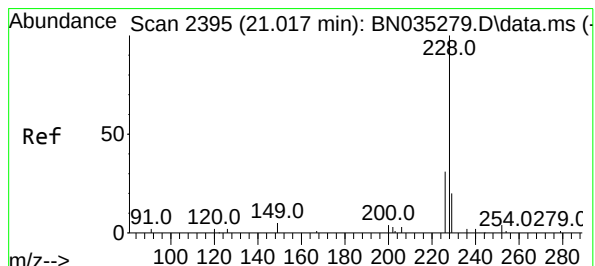
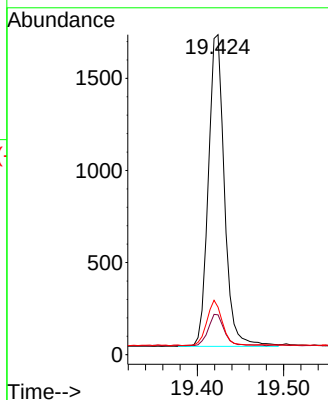
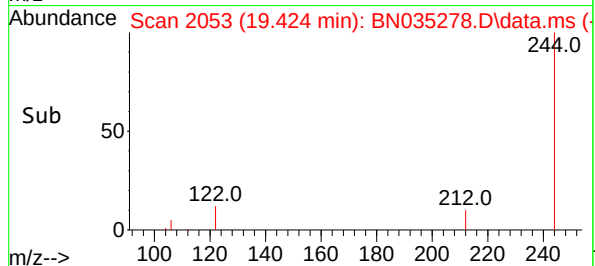
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:244 Resp: 219
Ion Ratio Lower Upper
244 100
212 12.4 9.4 14.0
122 14.9 13.0 19.4

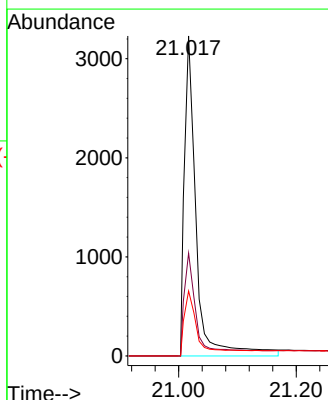
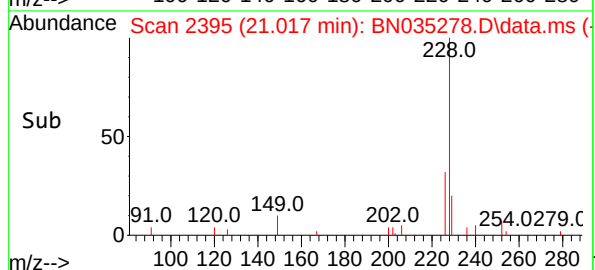
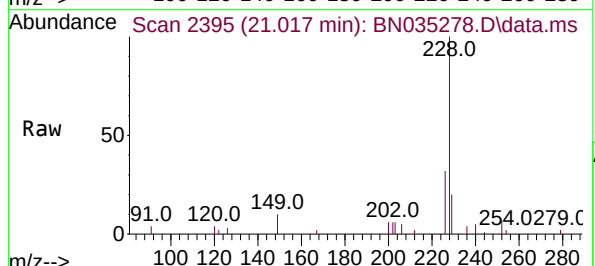
Manual Integrations
APPROVED

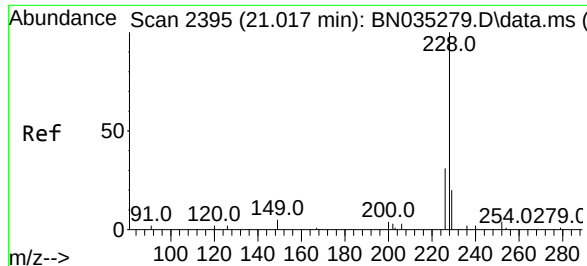
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#32
Benzo(a)anthracene
Concen: 1.607 ng
RT: 21.017 min Scan# 2395
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion:228 Resp: 4459
Ion Ratio Lower Upper
228 100
226 32.1 24.7 37.1
229 20.3 16.2 24.2





#33

Chrysene

Concen: 1.622 ng

RT: 21.017 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035278.D

Acq: 25 Nov 2024 10:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

Tgt Ion:228 Resp: 445

Ion Ratio Lower Upper

228 100

226 32.1 24.7 37.1

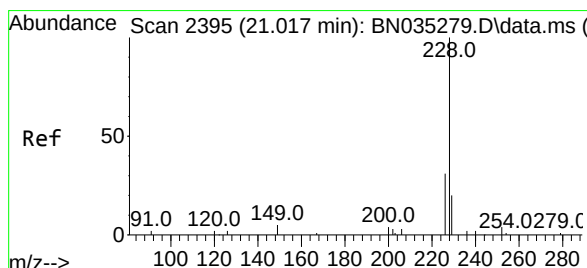
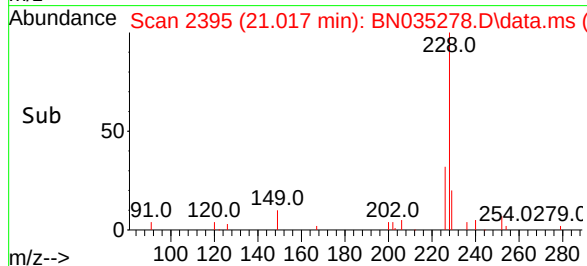
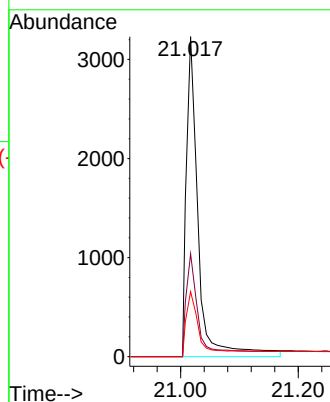
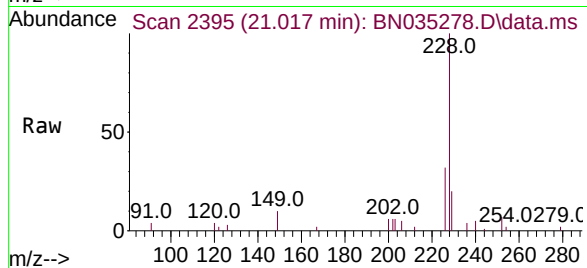
229 20.3 16.2 24.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/27/2024

Supervised By :mohammad ahmed 11/27/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.478 ng

RT: 21.017 min Scan# 2395

Delta R.T. -0.000 min

Lab File: BN035278.D

Acq: 25 Nov 2024 10:52

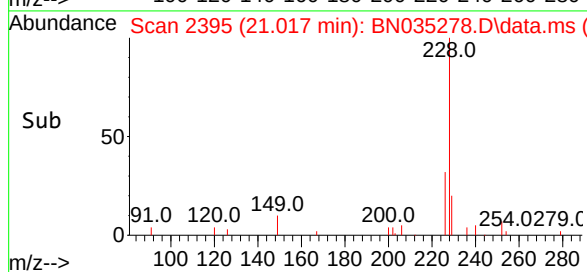
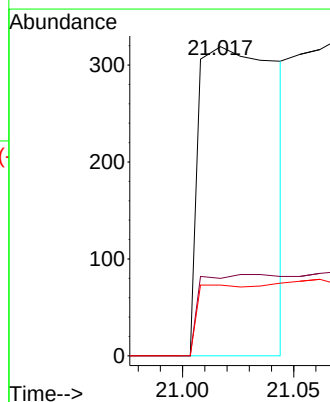
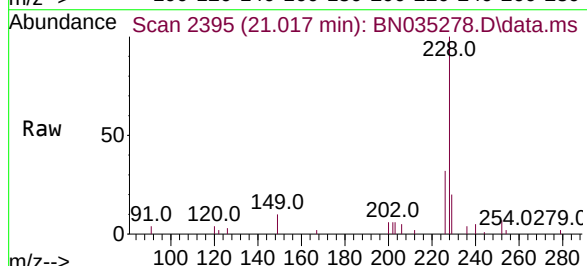
Tgt Ion:149 Resp: 696

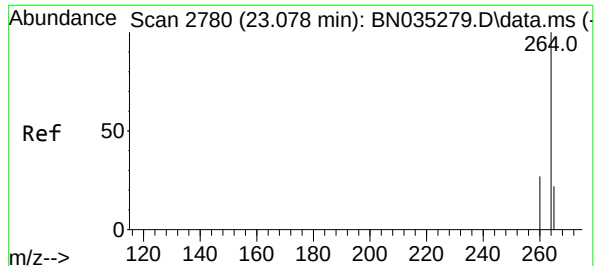
Ion Ratio Lower Upper

149 100

167 26.7 0.0 0.0#

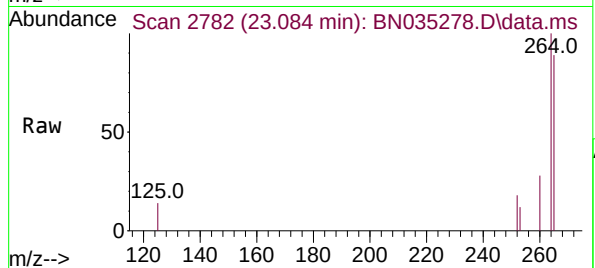
279 12.8 13.0 19.6#





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.084 min Scan# 21
Delta R.T. 0.006 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

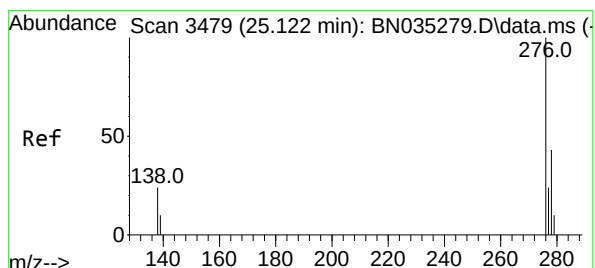
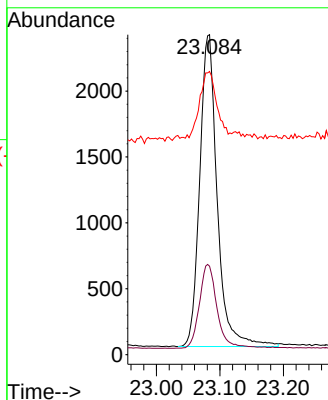
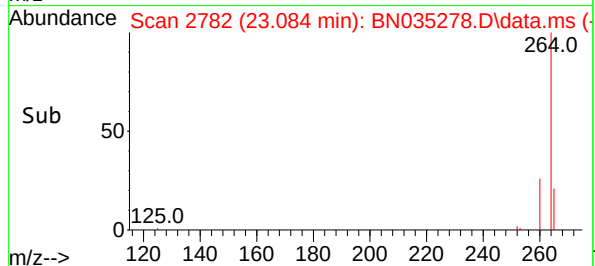
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:264 Resp: 452
Ion Ratio Lower Upper
264 100
260 27.6 22.3 33.5
265 88.5 68.6 103.0

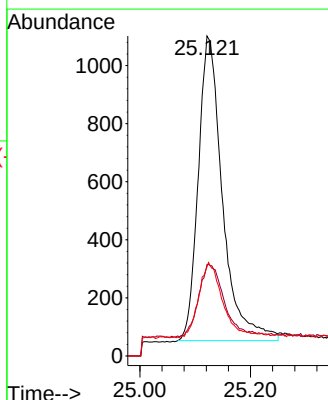
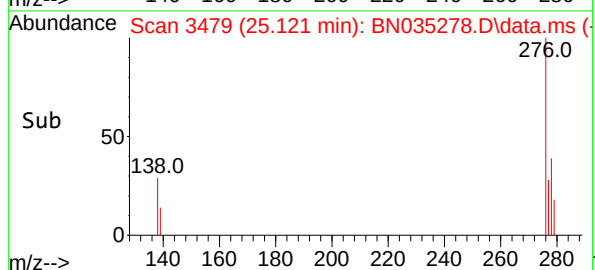
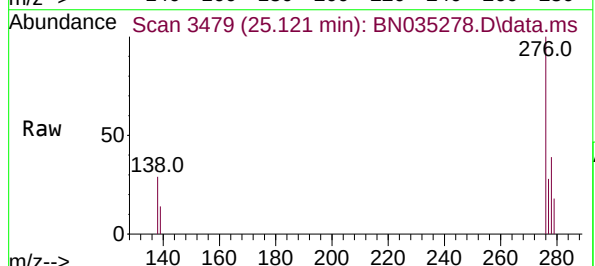
Manual Integrations
APPROVED

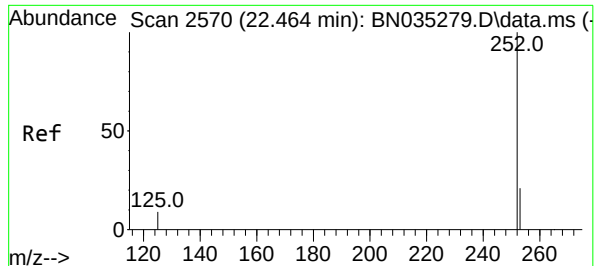
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.177 ng
RT: 25.121 min Scan# 3479
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion:276 Resp: 3191
Ion Ratio Lower Upper
276 100
138 23.2 18.8 28.2
277 23.0 18.2 27.4





#37

Benzo(b)fluoranthene

Concen: 0.231 ng

RT: 22.467 min Scan# 2571

Delta R.T. 0.003 min

Lab File: BN035278.D

Acq: 25 Nov 2024 10:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

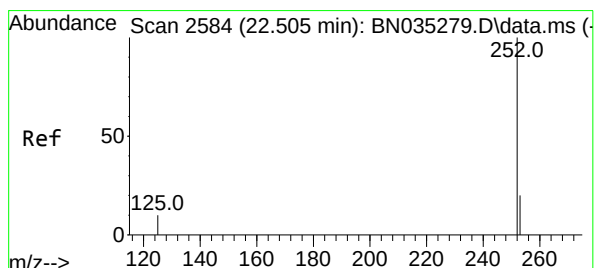
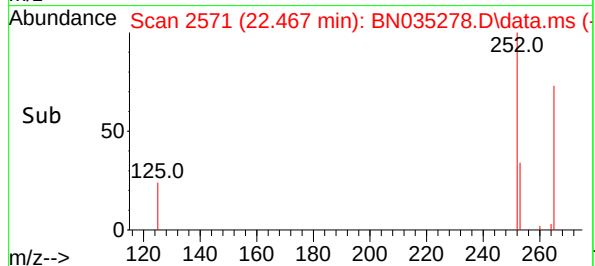
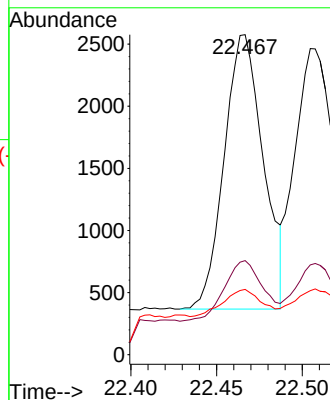
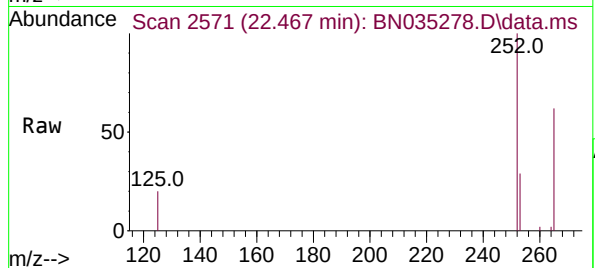
Tgt Ion:	252	Resp:	351
Ion Ratio	Lower	Upper	
252	100		
253	29.4	20.2	30.2
125	20.4	12.0	18.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/27/2024

Supervised By :mohammad ahmed 11/27/2024



#38

Benzo(k)fluoranthene

Concen: 0.235 ng

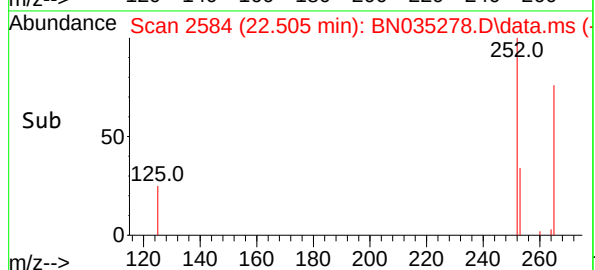
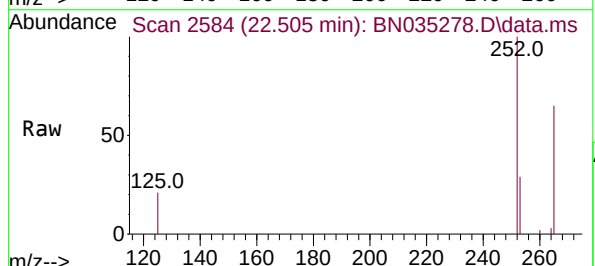
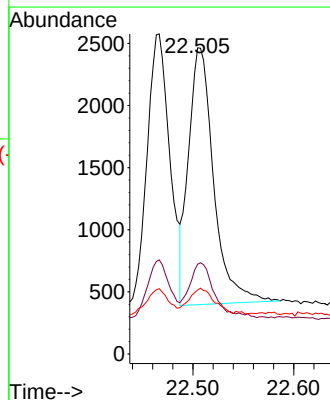
RT: 22.505 min Scan# 2584

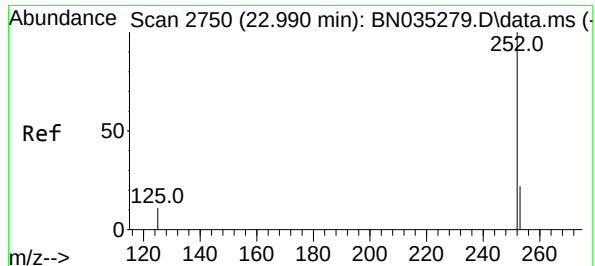
Delta R.T. -0.000 min

Lab File: BN035278.D

Acq: 25 Nov 2024 10:52

Tgt Ion:	252	Resp:	3588
Ion Ratio	Lower	Upper	
252	100		
253	29.3	20.1	30.1
125	20.9	12.7	19.1





#39

Benzo(a)pyrene

Concen: 0.199 ng

RT: 22.990 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035278.D

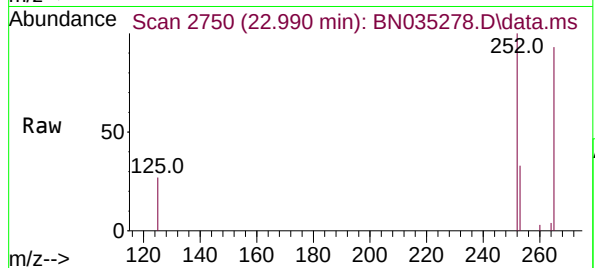
Acq: 25 Nov 2024 10:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



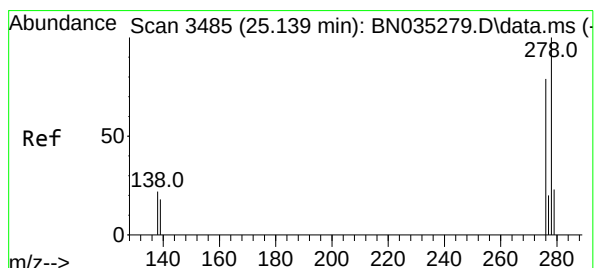
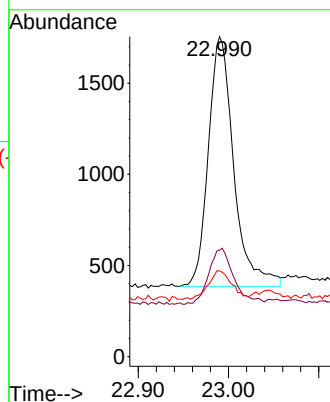
Tgt Ion:	252	Resp:	267
Ion Ratio	Lower	Upper	
252	100		
253	33.2	22.3	33.5
125	26.8	15.3	22.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/27/2024

Supervised By :mohammad ahmed 11/27/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.163 ng

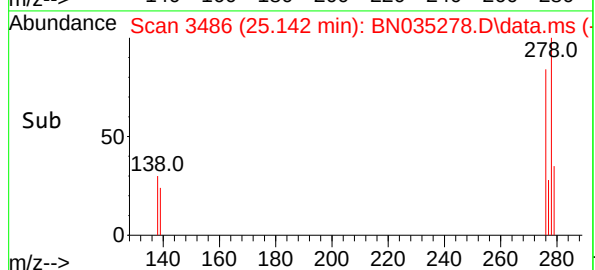
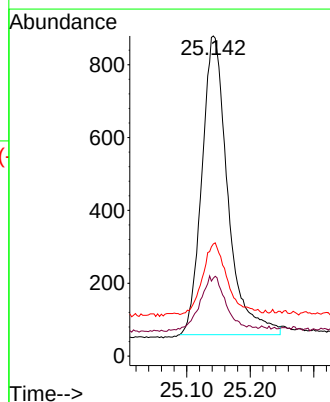
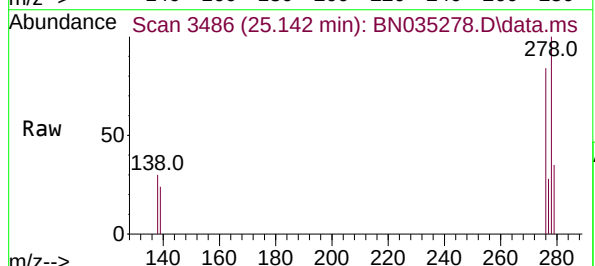
RT: 25.142 min Scan# 3486

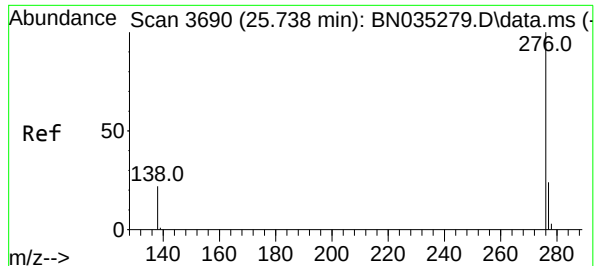
Delta R.T. 0.003 min

Lab File: BN035278.D

Acq: 25 Nov 2024 10:52

Tgt Ion:	278	Resp:	2328
Ion Ratio	Lower	Upper	
278	100		
139	24.3	17.0	25.6
279	35.0	23.0	34.4





#41

Benzo(g,h,i)perylene

Concen: 0.195 ng

RT: 25.741 min Scan# 30

Delta R.T. 0.003 min

Lab File: BN035278.D

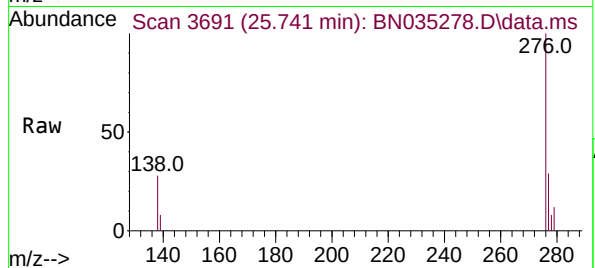
Acq: 25 Nov 2024 10:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



Tgt Ion:276 Resp: 296

Ion Ratio Lower Upper

276 100

277 28.6 21.1 31.7

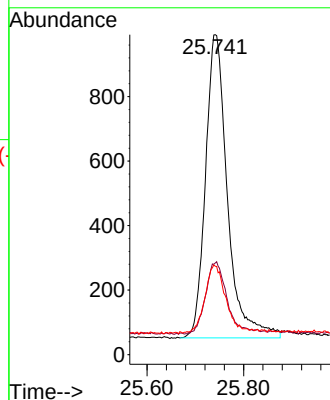
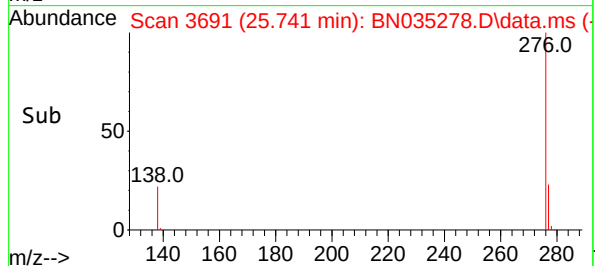
138 27.6 19.8 29.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/27/2024

Supervised By :mohammad ahmed 11/27/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
 Data File : BN035279.D
 Acq On : 25 Nov 2024 11:28
 Operator : RC/JU
 Sample : SSTDICCC0.4
 Misc :
 ALS Vial : 54 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCC0.4

Quant Time: Nov 25 14:13:14 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Nov 25 14:13:00 2024
 Response via : Initial Calibration

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

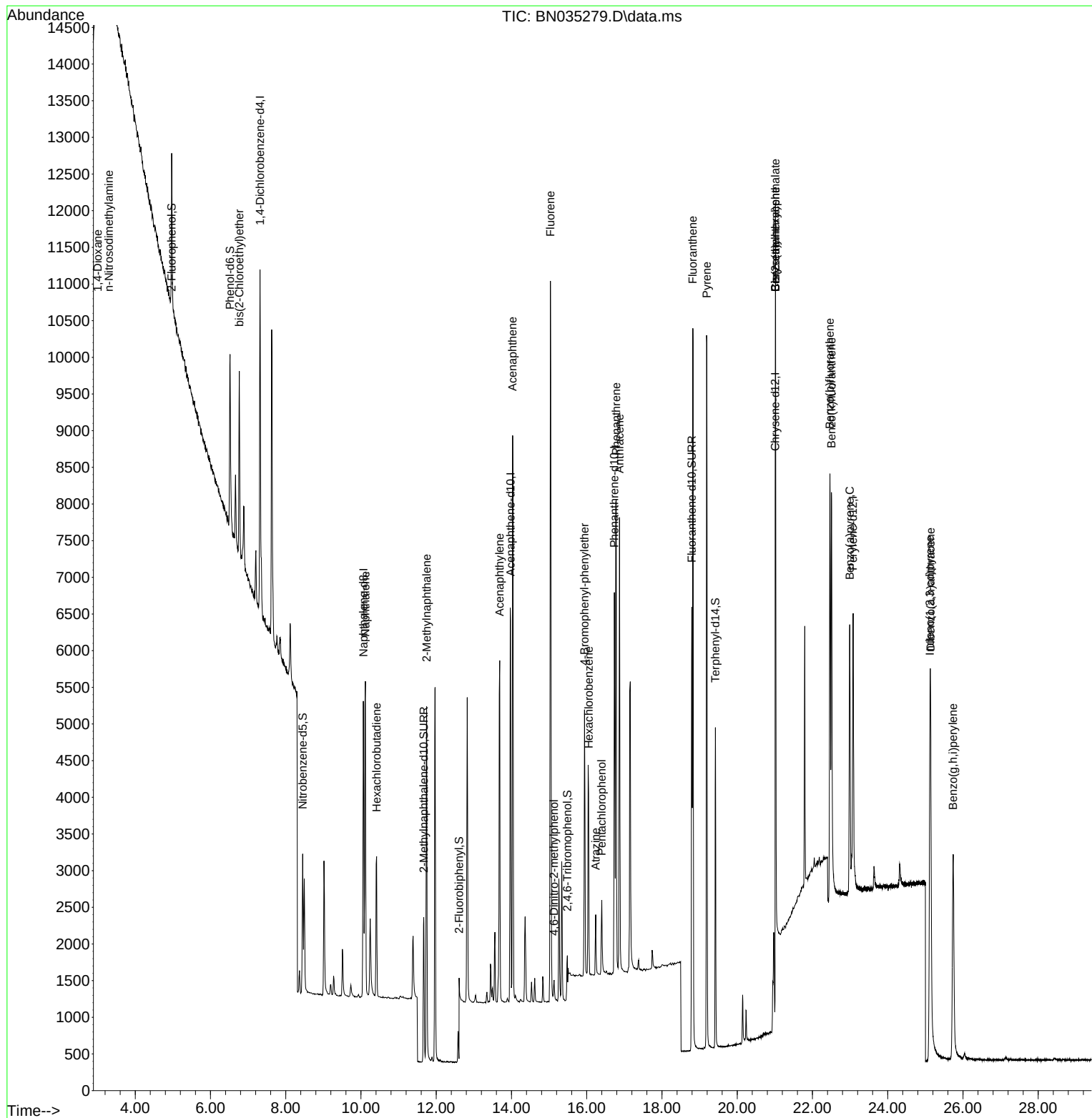
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.315	152	2200	0.400	ng	0.00
7) Naphthalene-d8	10.063	136	5326	0.400	ng	0.00
13) Acenaphthene-d10	13.976	164	2947	0.400	ng	0.00
19) Phenanthrene-d10	16.734	188	6895	0.400	ng	0.00
29) Chrysene-d12	21.008	240	586	0.400	ng	0.00
35) Perylene-d12	23.078	264	4692	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.968	112	1735	0.311	ng	0.00
5) Phenol-d6	6.521	99	2431	0.347	ng	0.00
8) Nitrobenzene-d5	8.451	82	1846	0.398	ng	0.00
11) 2-Methylnaphthalene-d10	11.667	152	2873	0.303	ng	0.00
14) 2,4,6-Tribromophenol	15.484	330	531	0.250	ng	0.00
15) 2-Fluorobiphenyl	12.608	172	721	0.060	ng	0.00
27) Fluoranthene-d10	18.792	212	6669	0.316	ng	0.00
31) Terphenyl-d14	19.419	244	4254	3.460	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.003	88	631	0.316	ng	100
3) n-Nitrosodimethylamine	3.300	42	624	0.335	ng	100
6) bis(2-Chloroethyl)ether	6.766	93	1971	0.375	ng	100
9) Naphthalene	10.116	128	5810	0.418	ng	100
10) Hexachlorobutadiene	10.415	225	1664	0.408	ng	# 100
12) 2-Methylnaphthalene	11.742	142	3623	0.353	ng	100
16) Acenaphthylene	13.688	152	5556	0.441	ng	100
17) Acenaphthene	14.030	154	3465	0.420	ng	100
18) Fluorene	15.035	166	4816	0.397	ng	100
20) 4,6-Dinitro-2-methylph...	15.131	198	233	0.162	ng	100
21) 4-Bromophenyl-phenylether	15.940	248	1623	0.369	ng	100
22) Hexachlorobenzene	16.051	284	2429	0.533	ng	100
23) Atrazine	16.238	200	689	0.175	ng	100
24) Pentachlorophenol	16.399	266	544	0.255	ng	100
25) Phenanthrene	16.784	178	7798	0.430	ng	100
26) Anthracene	16.871	178	6280	0.377	ng	100
28) Fluoranthene	18.820	202	9240	0.370	ng	100
30) Pyrene	19.192	202	8957	4.590	ng	100
32) Benzo(a)anthracene	21.017	228	8100	3.970	ng	100
33) Chrysene	21.017	228	8100	4.007	ng	100
34) Bis(2-ethylhexyl)phtha...	21.017	149	533	0.498	ng	# 100
36) Indeno(1,2,3-cd)pyrene	25.122	276	7146	0.382	ng	100
37) Benzo(b)fluoranthene	22.464	252	6813	0.432	ng	100
38) Benzo(k)fluoranthene	22.505	252	7659	0.485	ng	100
39) Benzo(a)pyrene	22.990	252	5365	0.386	ng	100
40) Dibenzo(a,h)anthracene	25.139	278	5194	0.350	ng	100
41) Benzo(g,h,i)perylene	25.738	276	5823	0.369	ng	100

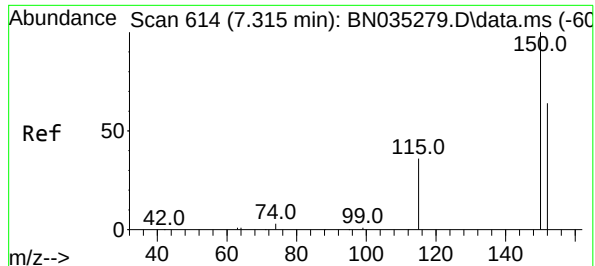
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
Data File : BN035279.D
Acq On : 25 Nov 2024 11:28
Operator : RC/JU
Sample : SSTDICC0.4
Misc :
ALS Vial : 54 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.4

Quant Time: Nov 25 14:13:14 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 25 14:13:00 2024
Response via : Initial Calibration

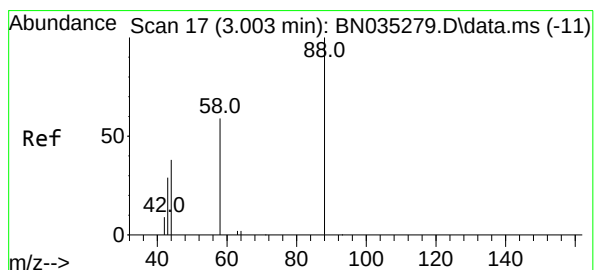
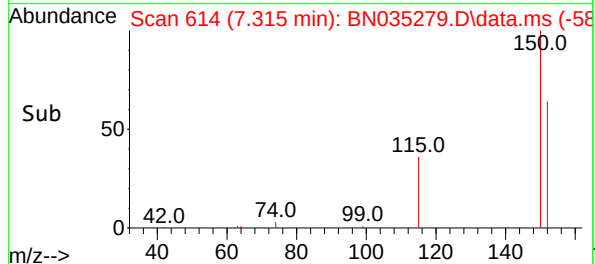
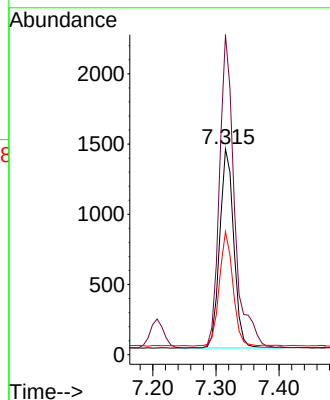
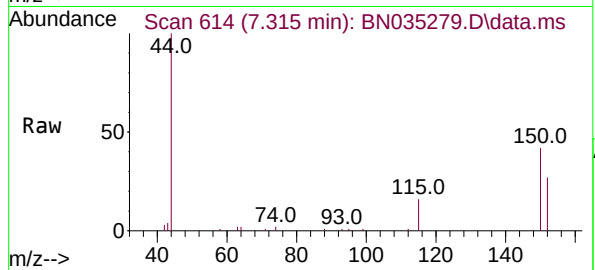




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.315 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN035279.D
Acq: 25 Nov 2024 11:28

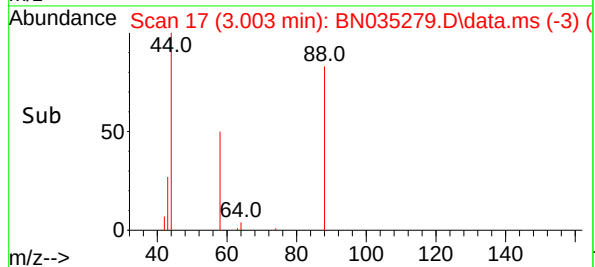
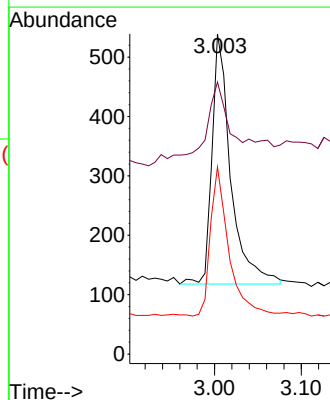
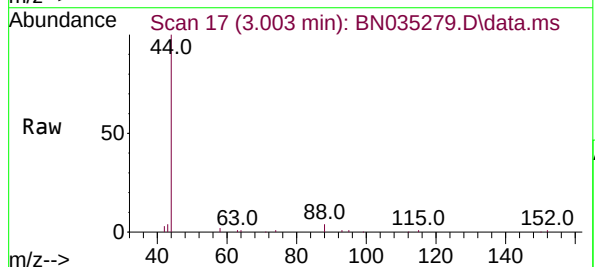
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

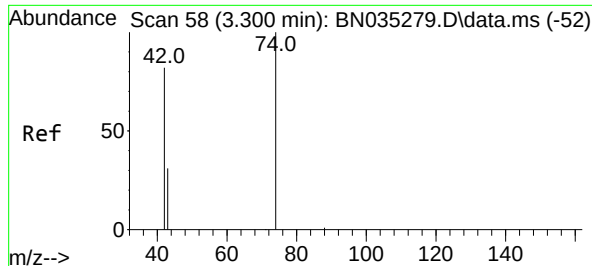
Tgt Ion:152 Resp: 2200
Ion Ratio Lower Upper
152 100
150 155.6 124.5 186.7
115 59.8 47.8 71.8



#2
1,4-Dioxane
Concen: 0.316 ng
RT: 3.003 min Scan# 17
Delta R.T. 0.000 min
Lab File: BN035279.D
Acq: 25 Nov 2024 11:28

Tgt Ion: 88 Resp: 631
Ion Ratio Lower Upper
88 100
43 60.1 48.1 72.1
58 58.6 46.9 70.3

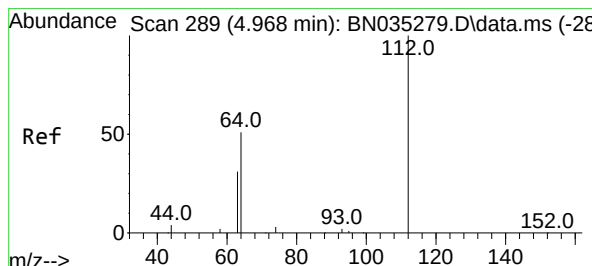
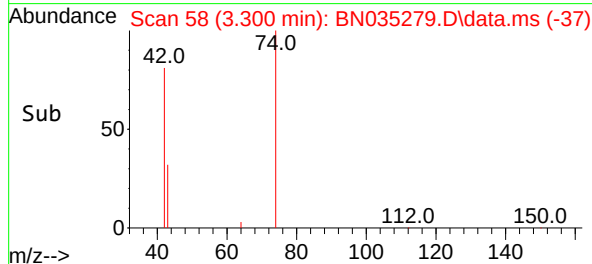
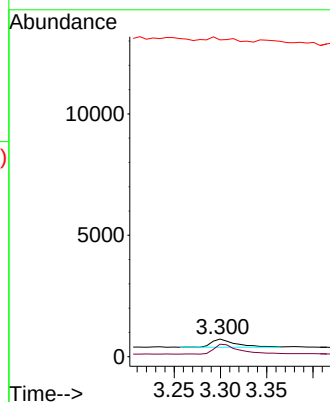
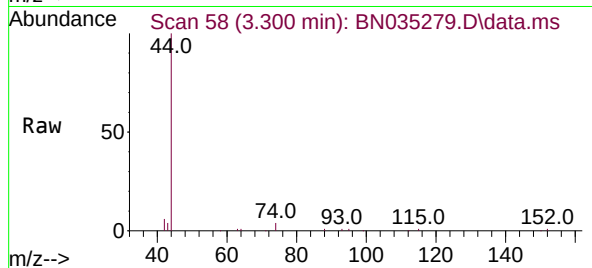




#3
n-Nitrosodimethylamine
Concen: 0.335 ng
RT: 3.300 min Scan# 58
Delta R.T. 0.000 min
Lab File: BN035279.D
Acq: 25 Nov 2024 11:28

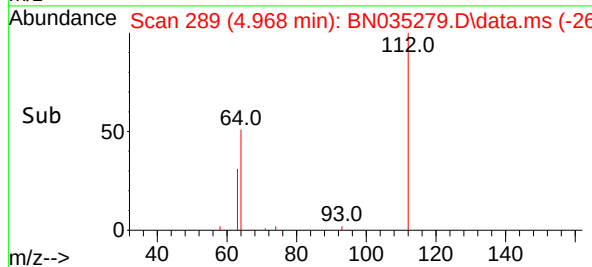
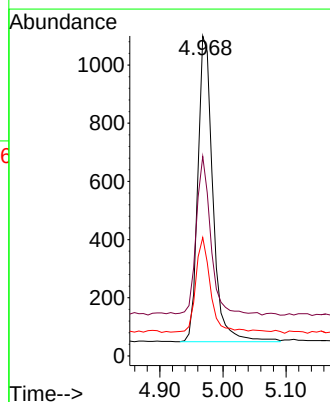
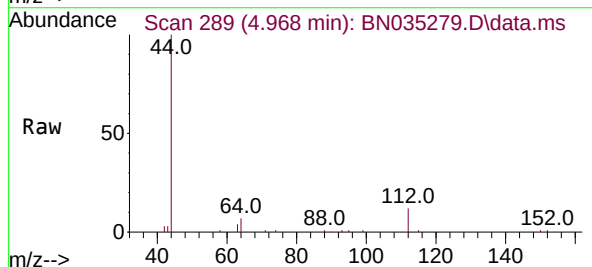
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

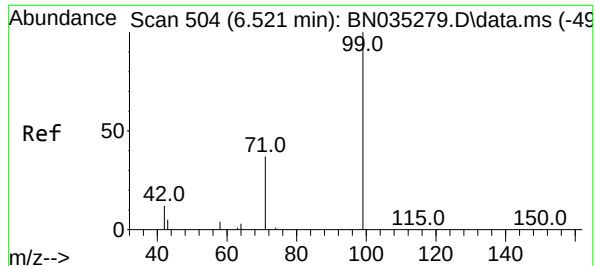
Tgt Ion: 42 Resp: 624
Ion Ratio Lower Upper
42 100
74 128.4 102.7 154.1
44 42.6 34.1 51.1



#4
2-Fluorophenol
Concen: 0.311 ng
RT: 4.968 min Scan# 289
Delta R.T. 0.000 min
Lab File: BN035279.D
Acq: 25 Nov 2024 11:28

Tgt Ion: 112 Resp: 1735
Ion Ratio Lower Upper
112 100
64 50.5 40.4 60.6
63 29.8 23.8 35.8





#5

Phenol-d6

Concen: 0.347 ng

RT: 6.521 min Scan# 504

Delta R.T. 0.000 min

Lab File: BN035279.D

Acq: 25 Nov 2024 11:28

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

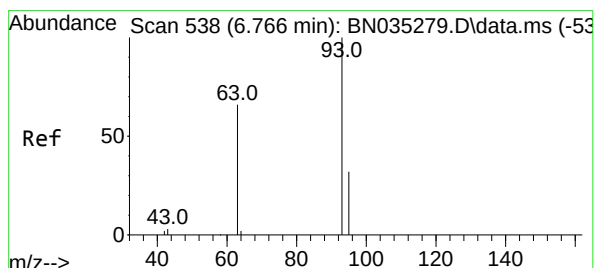
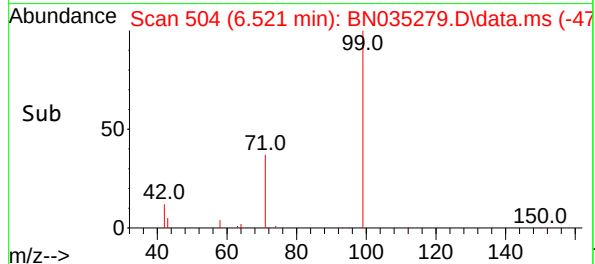
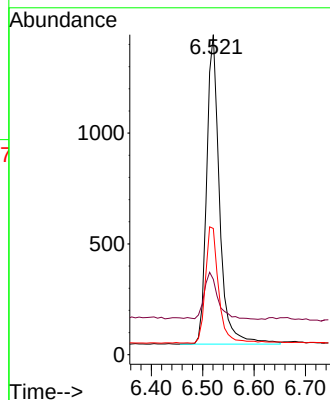
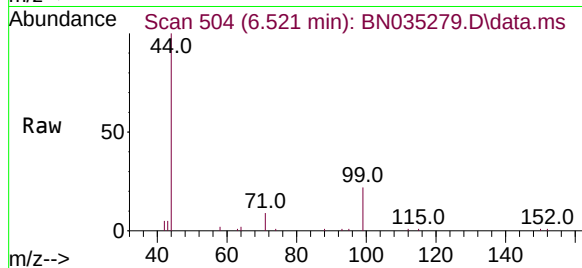
Tgt Ion: 99 Resp: 2431

Ion Ratio Lower Upper

99 100

42 16.0 12.8 19.2

71 39.3 31.4 47.2



#6

bis(2-Chloroethyl)ether

Concen: 0.375 ng

RT: 6.766 min Scan# 538

Delta R.T. 0.000 min

Lab File: BN035279.D

Acq: 25 Nov 2024 11:28

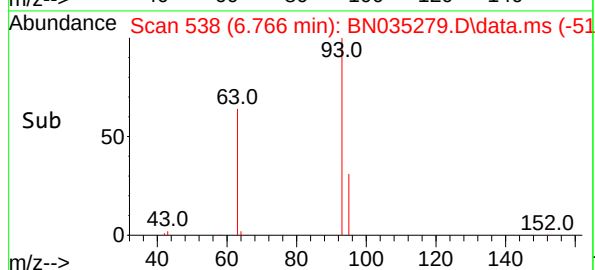
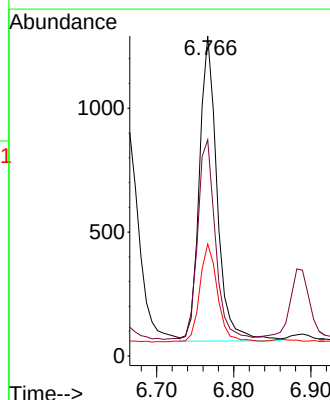
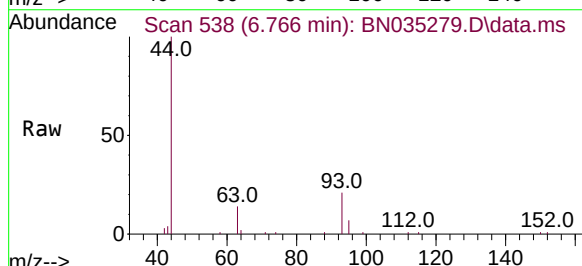
Tgt Ion: 93 Resp: 1971

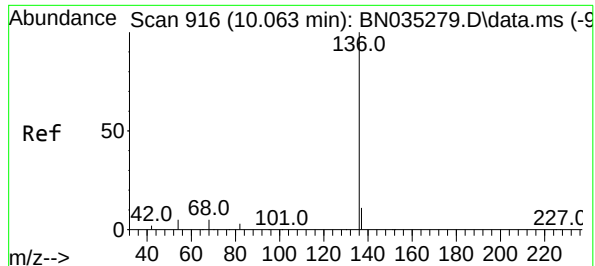
Ion Ratio Lower Upper

93 100

63 65.4 52.3 78.5

95 31.9 25.5 38.3

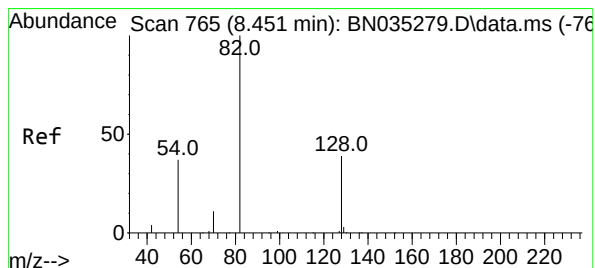
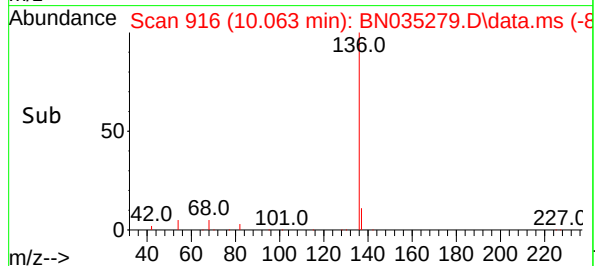
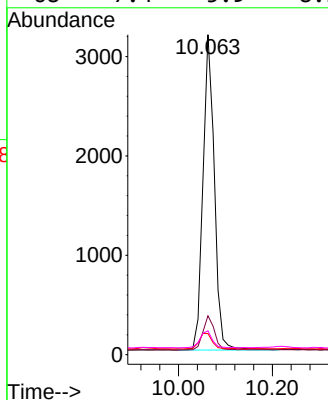
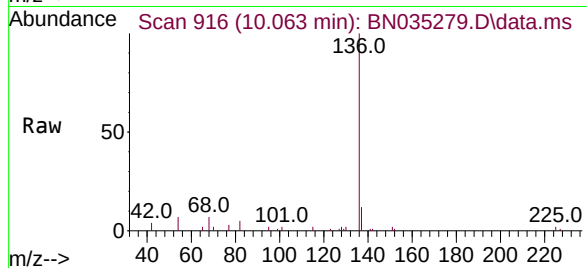




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.063 min Scan# 916
Delta R.T. 0.000 min
Lab File: BN035279.D
Acq: 25 Nov 2024 11:28

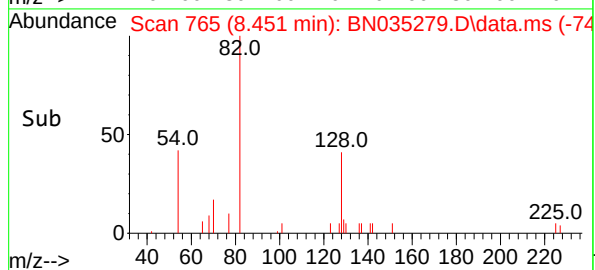
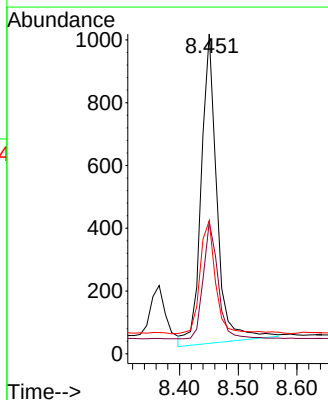
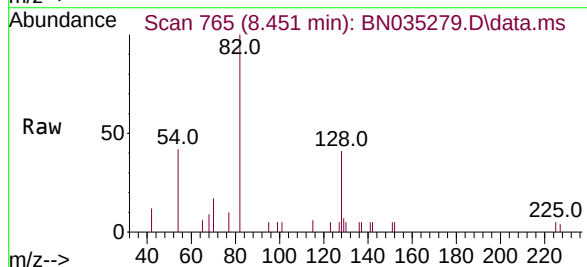
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

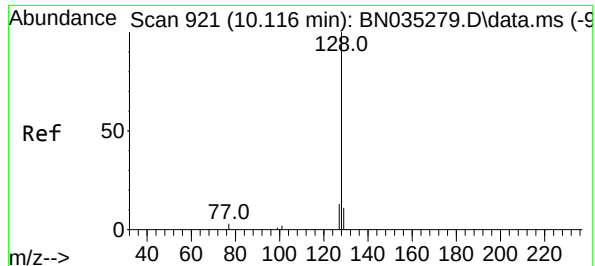
Tgt Ion:	136	Resp:	5326
Ion	Ratio	Lower	Upper
136	100		
137	12.1	9.7	14.5
54	6.6	5.3	7.9
68	7.4	5.9	8.9



#8
Nitrobenzene-d5
Concen: 0.398 ng
RT: 8.451 min Scan# 765
Delta R.T. 0.000 min
Lab File: BN035279.D
Acq: 25 Nov 2024 11:28

Tgt Ion:	82	Resp:	1846
Ion	Ratio	Lower	Upper
82	100		
128	41.2	33.0	49.4
54	41.6	33.3	49.9





#9
Naphthalene

Concen: 0.418 ng

RT: 10.116 min Scan# 921

Delta R.T. 0.000 min

Lab File: BN035279.D

Acq: 25 Nov 2024 11:28

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

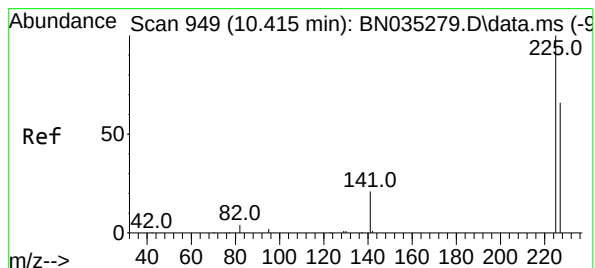
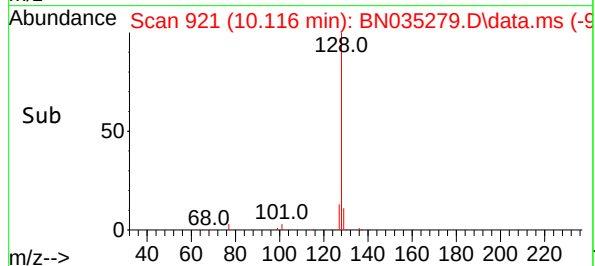
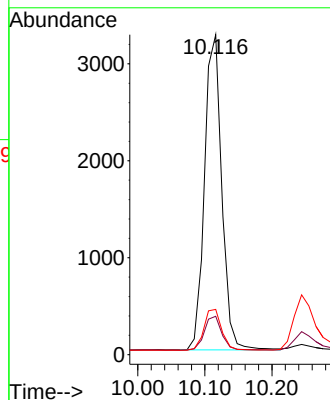
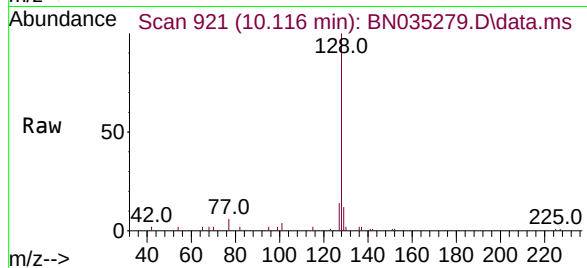
Tgt Ion:128 Resp: 5810

Ion Ratio Lower Upper

128 100

129 12.0 9.6 14.4

127 14.1 11.3 16.9



#10

Hexachlorobutadiene

Concen: 0.408 ng

RT: 10.415 min Scan# 949

Delta R.T. 0.000 min

Lab File: BN035279.D

Acq: 25 Nov 2024 11:28

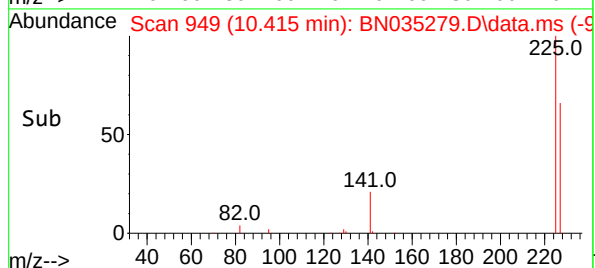
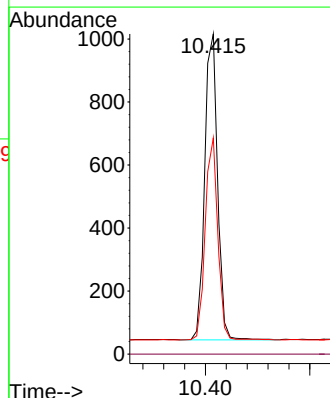
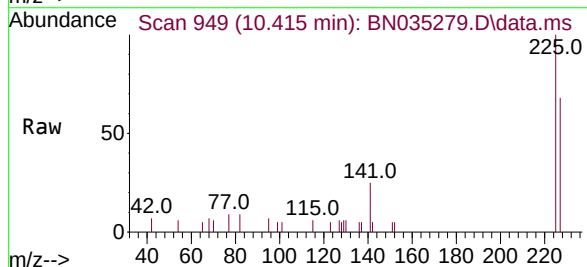
Tgt Ion:225 Resp: 1664

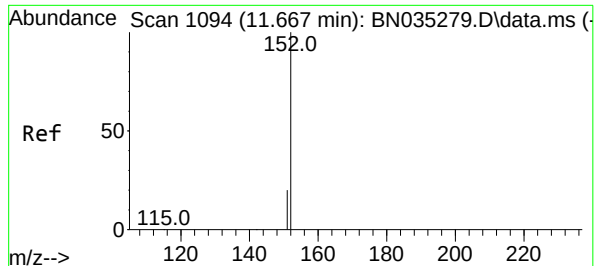
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 64.1 51.3 76.9

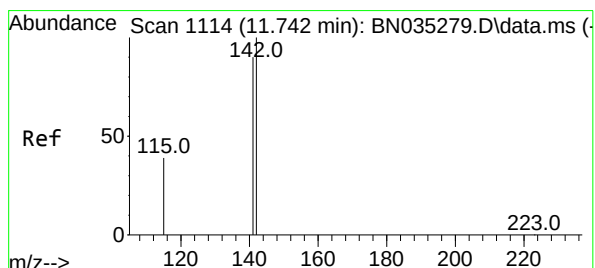
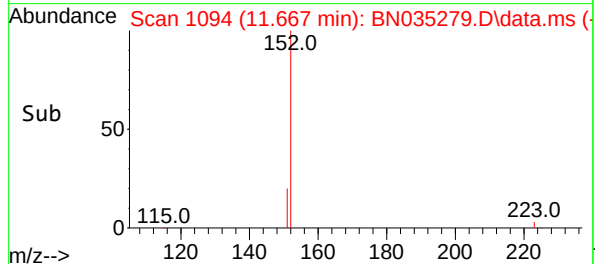
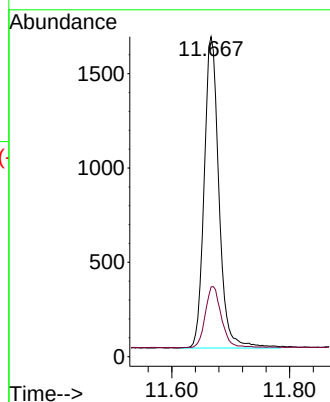
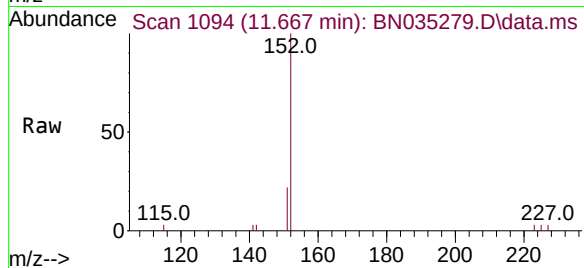




#11
2-Methylnaphthalene-d10
Concen: 0.303 ng
RT: 11.667 min Scan# 1094
Delta R.T. 0.000 min
Lab File: BN035279.D
Acq: 25 Nov 2024 11:28

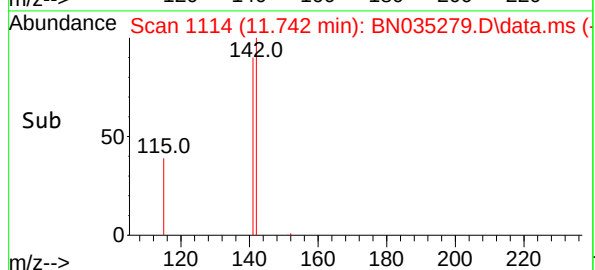
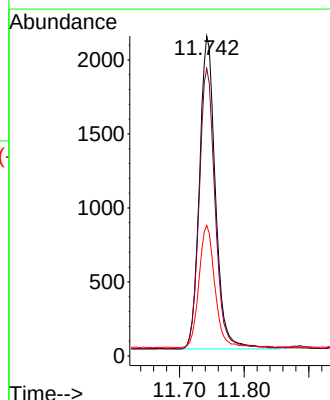
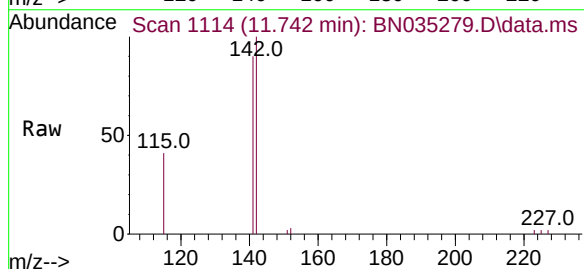
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ClientSampleId :
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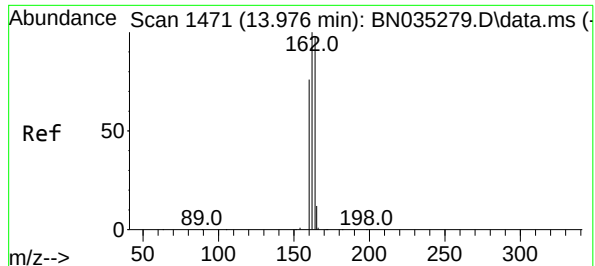
Tgt Ion:152 Resp: 2873
Ion Ratio Lower Upper
152 100
151 21.5 17.2 25.8



#12
2-Methylnaphthalene
Concen: 0.353 ng
RT: 11.742 min Scan# 1114
Delta R.T. 0.000 min
Lab File: BN035279.D
Acq: 25 Nov 2024 11:28

Tgt Ion:142 Resp: 3623
Ion Ratio Lower Upper
142 100
141 89.8 71.8 107.8
115 40.8 32.6 49.0

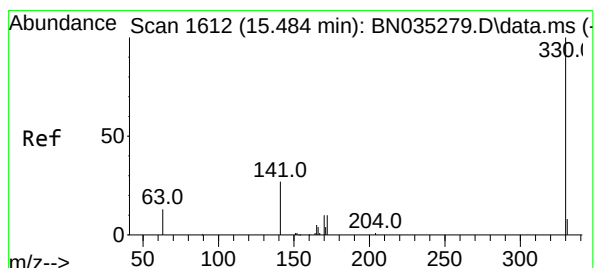
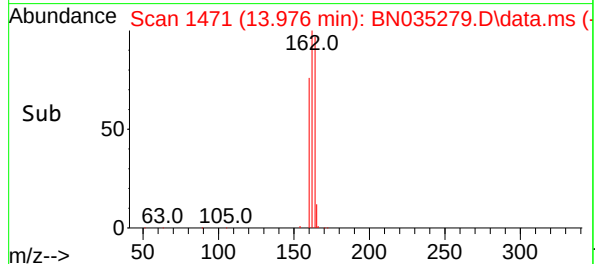
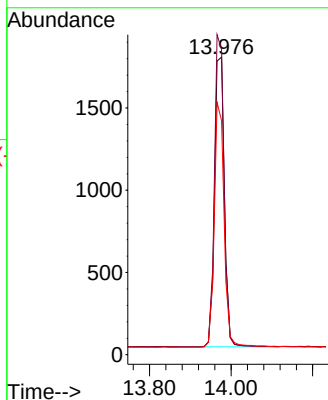
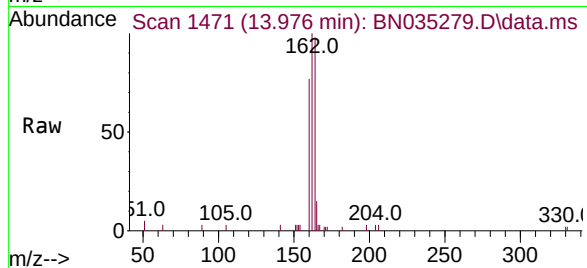




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.976 min Scan# 1471
Delta R.T. 0.000 min
Lab File: BN035279.D
Acq: 25 Nov 2024 11:28

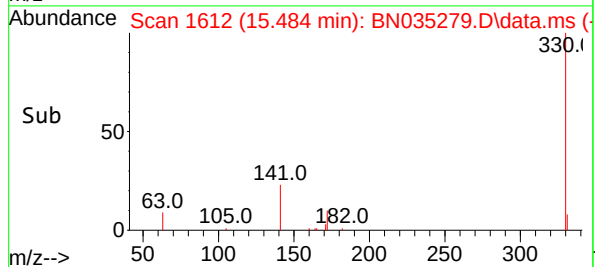
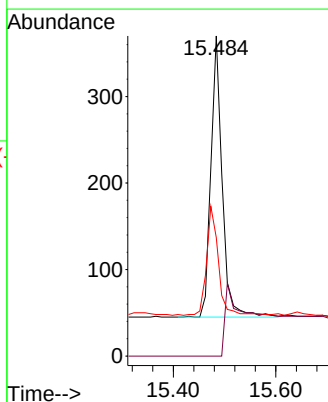
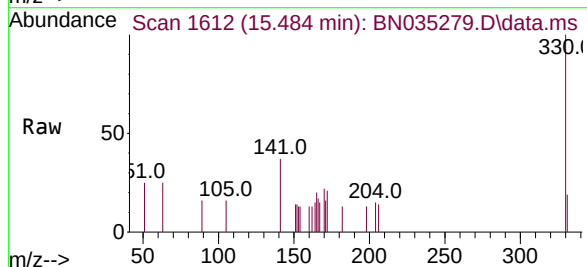
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

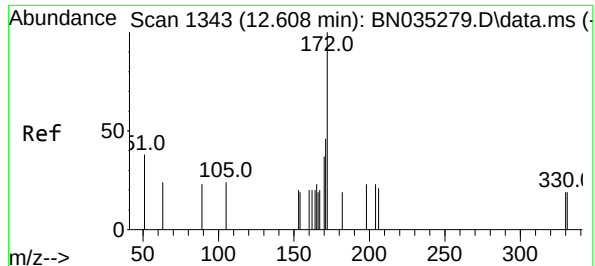
Tgt Ion:164 Resp: 2947
Ion Ratio Lower Upper
164 100
162 102.5 82.0 123.0
160 78.7 63.0 94.4



#14
2,4,6-Tribromophenol
Concen: 0.250 ng
RT: 15.484 min Scan# 1612
Delta R.T. 0.000 min
Lab File: BN035279.D
Acq: 25 Nov 2024 11:28

Tgt Ion:330 Resp: 531
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 40.5 32.4 48.6

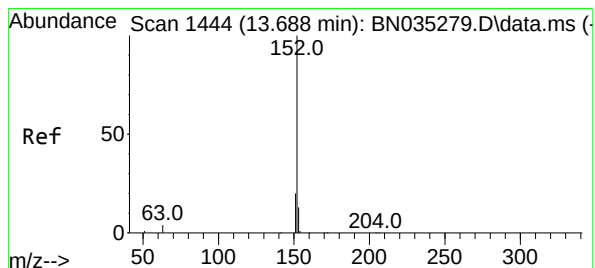
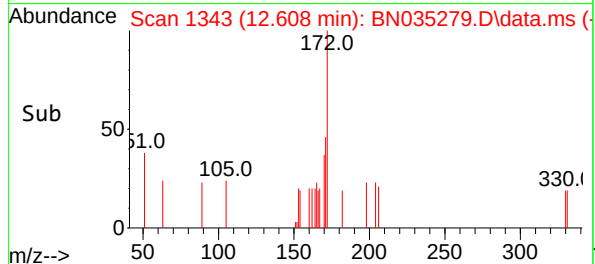
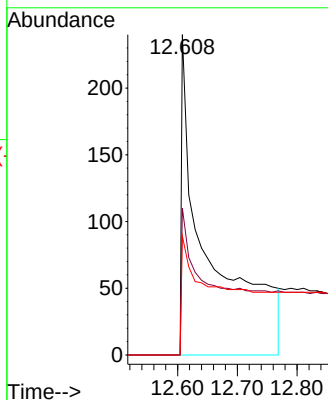
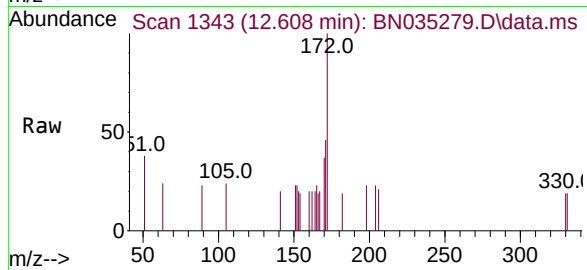




#15
2-Fluorobiphenyl
Concen: 0.060 ng
RT: 12.608 min Scan# 1343
Delta R.T. 0.000 min
Lab File: BN035279.D
Acq: 25 Nov 2024 11:28

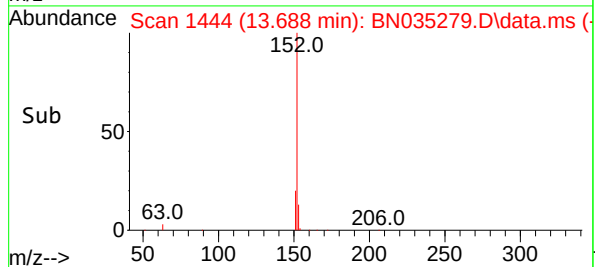
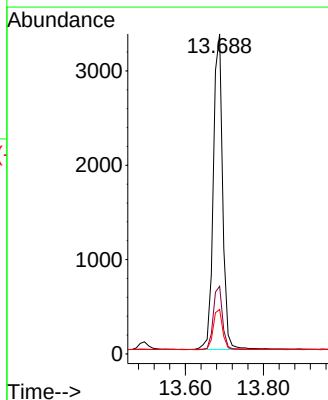
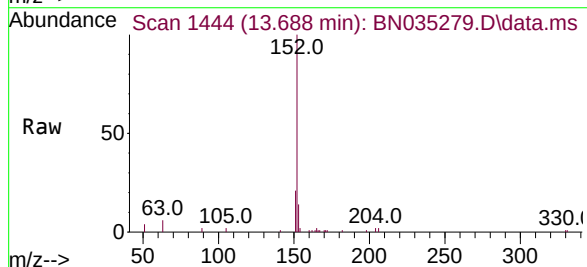
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

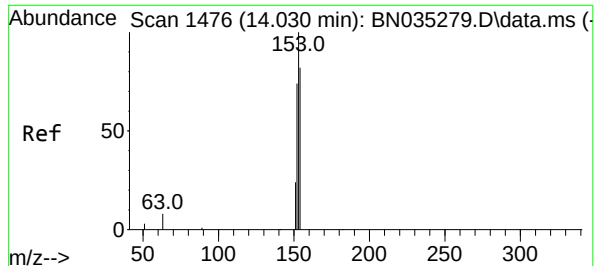
Tgt Ion	Ratio	Lower	Upper
172	100		
171	45.8	36.6	55.0
170	37.1	29.7	44.5



#16
Acenaphthylene
Concen: 0.441 ng
RT: 13.688 min Scan# 1444
Delta R.T. 0.000 min
Lab File: BN035279.D
Acq: 25 Nov 2024 11:28

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.9	15.9	23.9
153	12.8	10.2	15.4

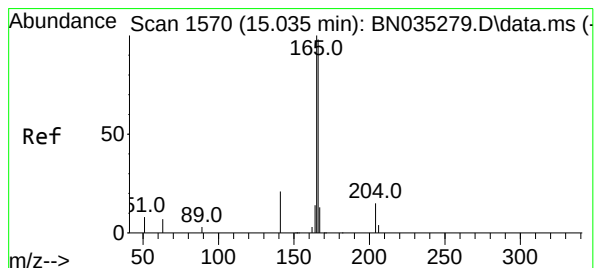
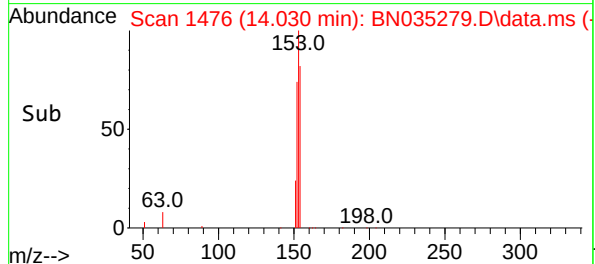
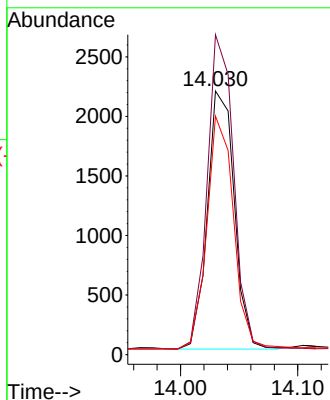
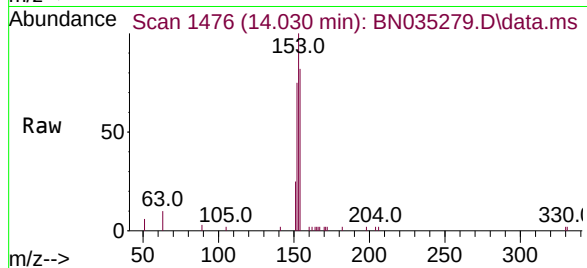




#17
Acenaphthene
Concen: 0.420 ng
RT: 14.030 min Scan# 1476
Delta R.T. 0.000 min
Lab File: BN035279.D
Acq: 25 Nov 2024 11:28

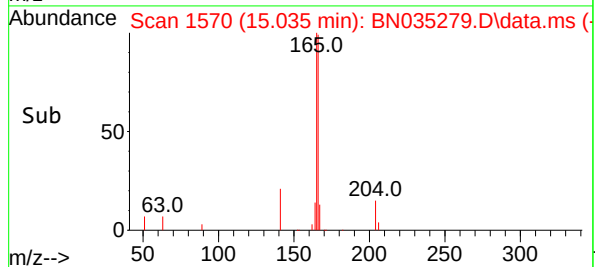
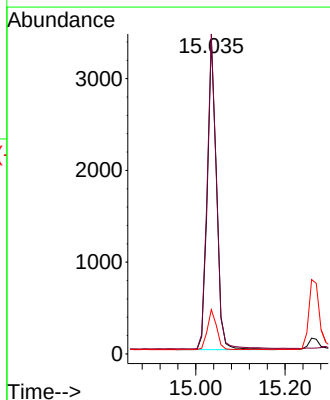
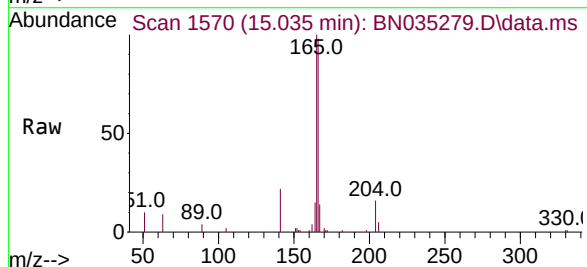
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

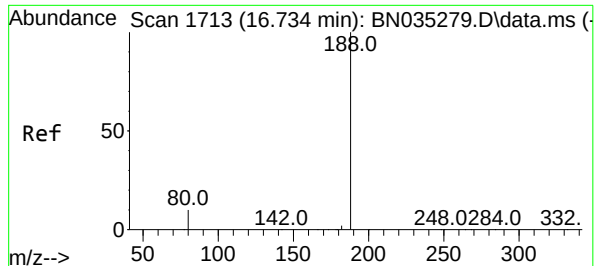
Tgt Ion	Ratio	Lower	Upper
154	100		
153	120.1	96.1	144.1
152	90.2	72.2	108.4



#18
Fluorene
Concen: 0.397 ng
RT: 15.035 min Scan# 1570
Delta R.T. 0.000 min
Lab File: BN035279.D
Acq: 25 Nov 2024 11:28

Tgt Ion	Ratio	Lower	Upper
166	100		
165	101.5	81.2	121.8
167	13.1	10.5	15.7





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.734 min Scan# 1713

Delta R.T. 0.000 min

Lab File: BN035279.D

Acq: 25 Nov 2024 11:28

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

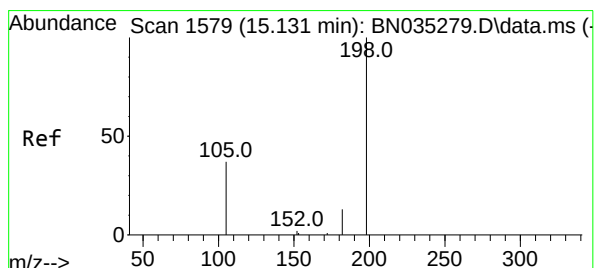
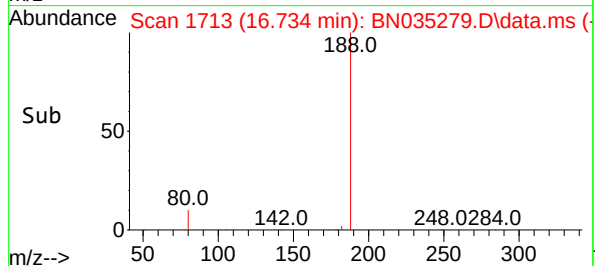
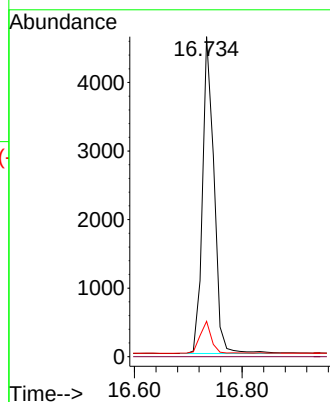
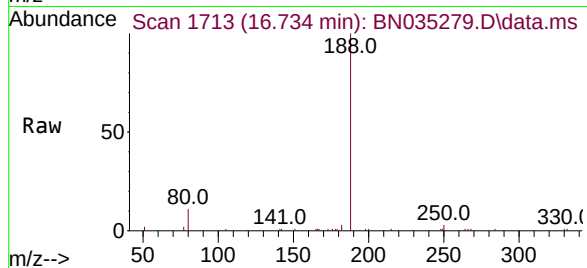
Tgt Ion:188 Resp: 6895

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.1 8.9 13.3



#20

4,6-Dinitro-2-methylphenol

Concen: 0.162 ng

RT: 15.131 min Scan# 1579

Delta R.T. 0.000 min

Lab File: BN035279.D

Acq: 25 Nov 2024 11:28

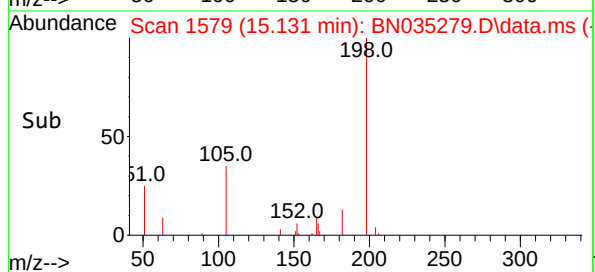
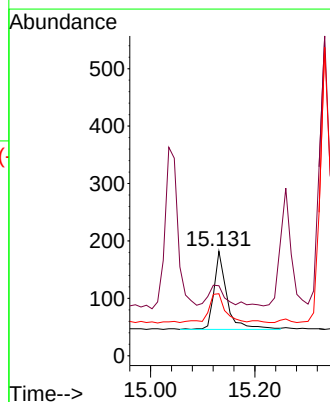
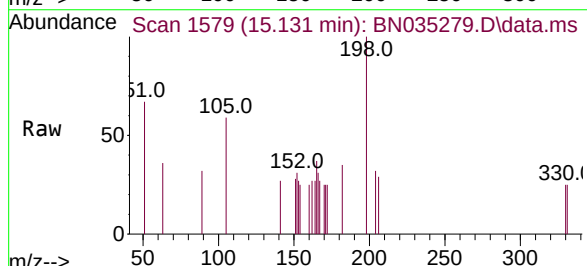
Tgt Ion:198 Resp: 233

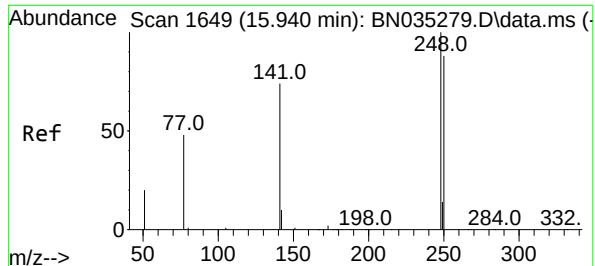
Ion Ratio Lower Upper

198 100

51 67.0 53.6 80.4

105 59.3 47.4 71.2

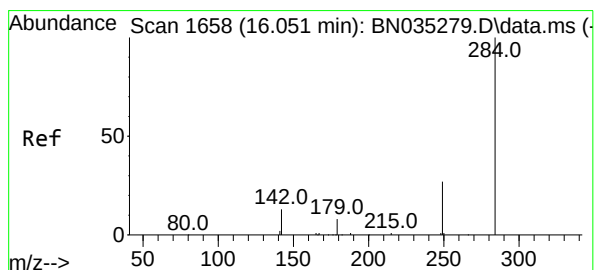
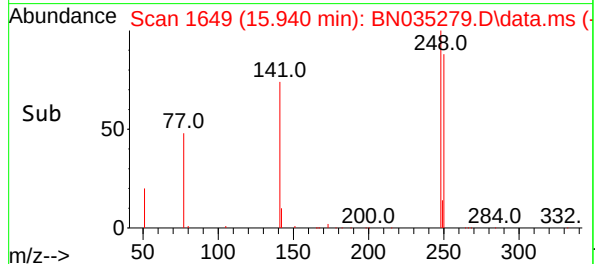
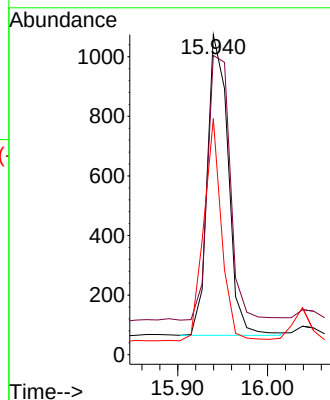
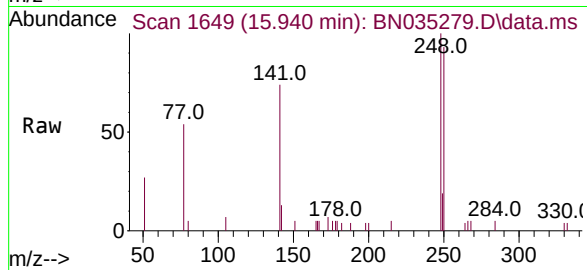




#21
4-Bromophenyl-phenylether
Concen: 0.369 ng
RT: 15.940 min Scan# 1649
Delta R.T. 0.000 min
Lab File: BN035279.D
Acq: 25 Nov 2024 11:28

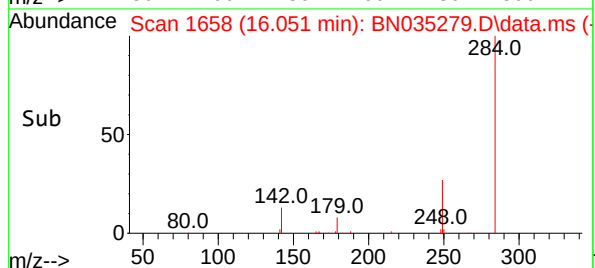
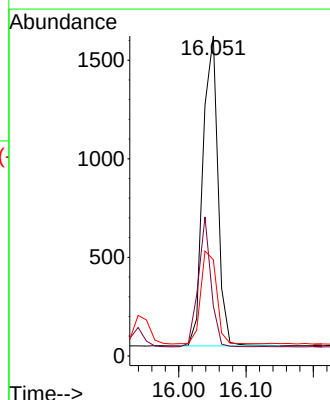
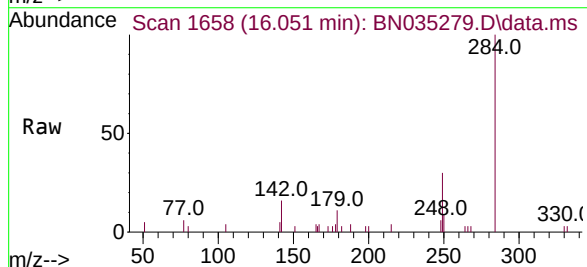
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

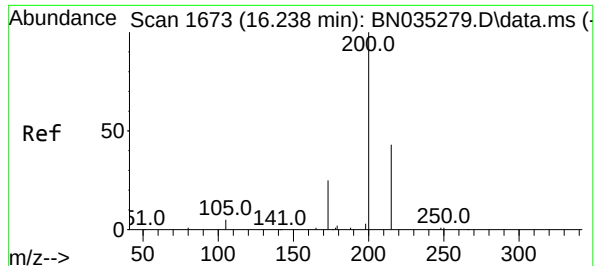
Tgt Ion	Ratio	Lower	Upper
248	100		
250	93.5	74.8	112.2
141	73.7	59.0	88.4



#22
Hexachlorobenzene
Concen: 0.533 ng
RT: 16.051 min Scan# 1658
Delta R.T. 0.000 min
Lab File: BN035279.D
Acq: 25 Nov 2024 11:28

Tgt Ion	Ratio	Lower	Upper
284	100		
142	35.9	28.7	43.1
249	31.7	25.4	38.0

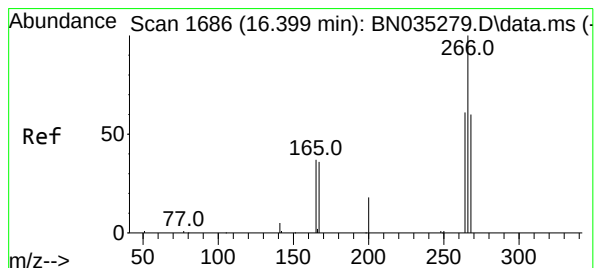
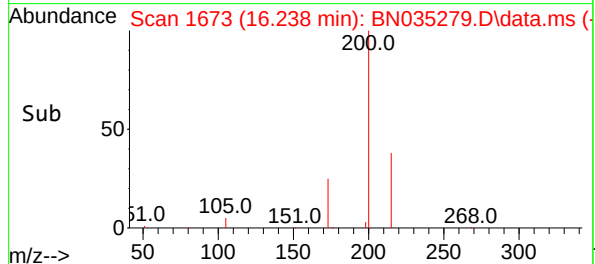
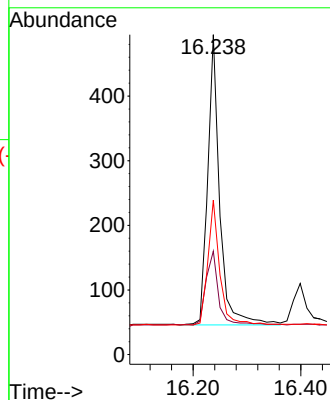
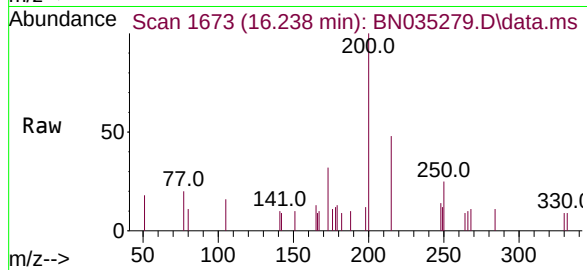




#23
Atrazine
Concen: 0.175 ng
RT: 16.238 min Scan# 1673
Delta R.T. 0.000 min
Lab File: BN035279.D
Acq: 25 Nov 2024 11:28

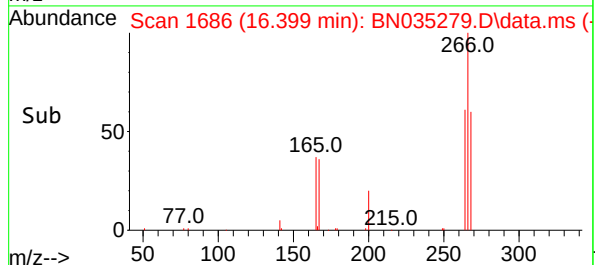
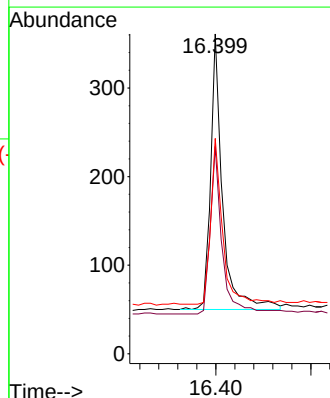
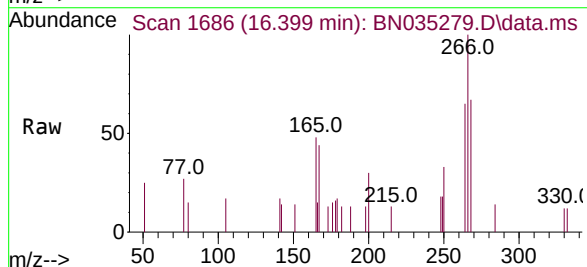
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

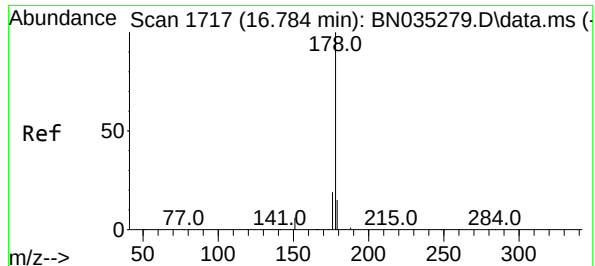
Tgt Ion	Ratio	Lower	Upper
200	100		
173	32.3	25.8	38.8
215	48.3	38.6	58.0



#24
Pentachlorophenol
Concen: 0.255 ng
RT: 16.399 min Scan# 1686
Delta R.T. 0.000 min
Lab File: BN035279.D
Acq: 25 Nov 2024 11:28

Tgt Ion	Ratio	Lower	Upper
266	100		
264	61.6	49.3	73.9
268	60.8	48.6	73.0

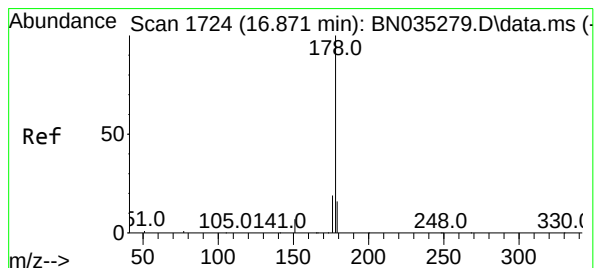
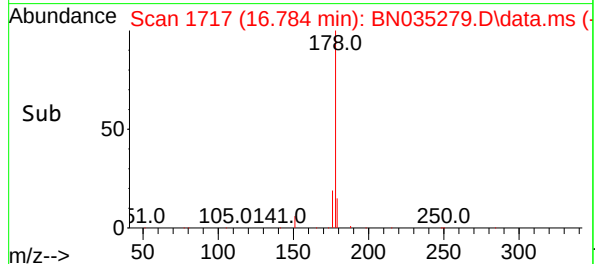
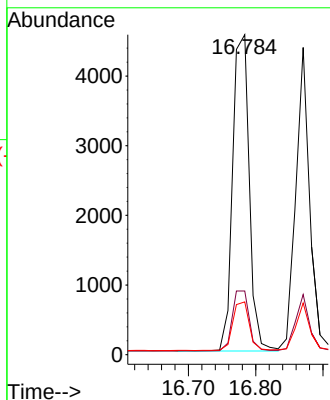
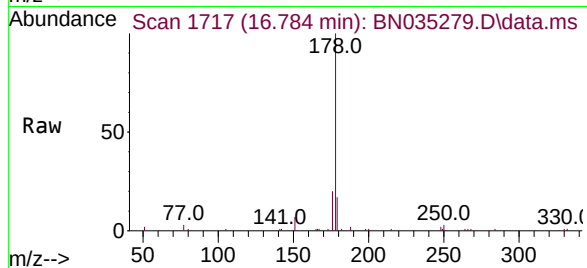




#25
Phenanthrene
Concen: 0.430 ng
RT: 16.784 min Scan# 1717
Delta R.T. 0.000 min
Lab File: BN035279.D
Acq: 25 Nov 2024 11:28

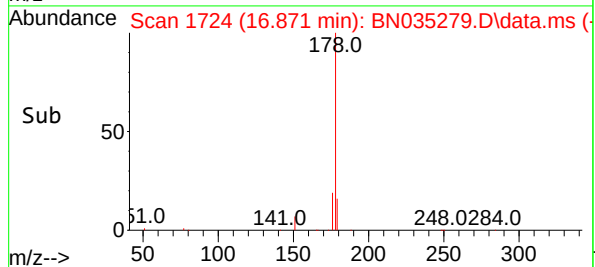
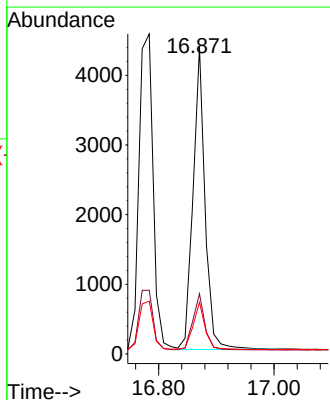
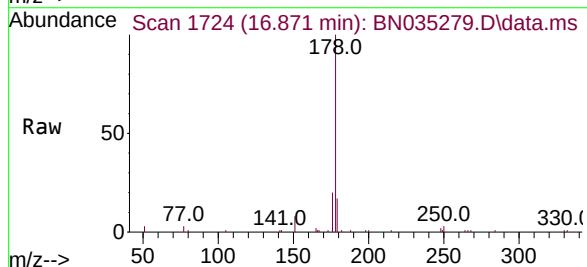
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

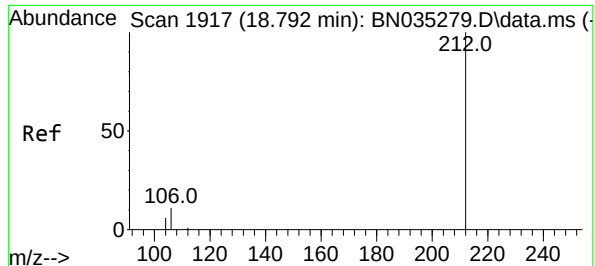
Tgt Ion:178 Resp: 7798
Ion Ratio Lower Upper
178 100
176 19.2 15.4 23.0
179 15.7 12.6 18.8



#26
Anthracene
Concen: 0.377 ng
RT: 16.871 min Scan# 1724
Delta R.T. 0.000 min
Lab File: BN035279.D
Acq: 25 Nov 2024 11:28

Tgt Ion:178 Resp: 6280
Ion Ratio Lower Upper
178 100
176 18.7 15.0 22.4
179 15.5 12.4 18.6





#27

Fluoranthene-d10

Concen: 0.316 ng

RT: 18.792 min Scan# 1917

Delta R.T. 0.000 min

Lab File: BN035279.D

Acq: 25 Nov 2024 11:28

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

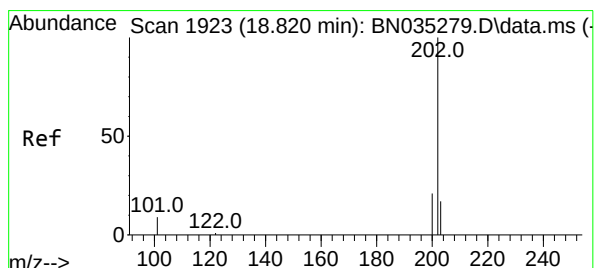
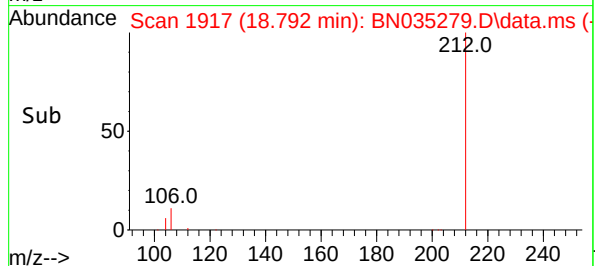
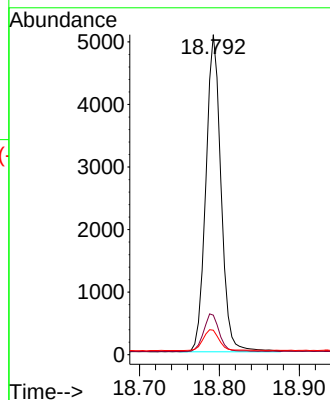
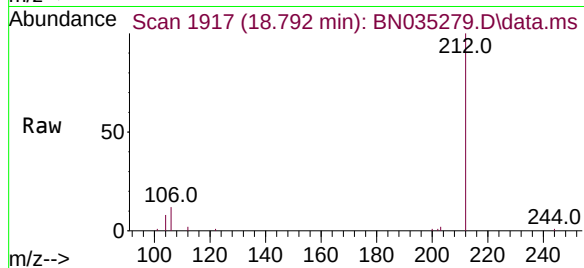
Tgt Ion:212 Resp: 6669

Ion Ratio Lower Upper

212 100

106 12.3 9.8 14.8

104 7.0 5.6 8.4



#28

Fluoranthene

Concen: 0.370 ng

RT: 18.820 min Scan# 1923

Delta R.T. 0.000 min

Lab File: BN035279.D

Acq: 25 Nov 2024 11:28

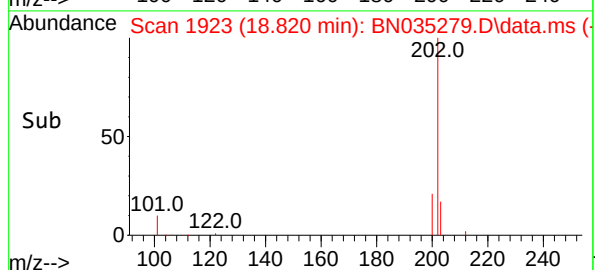
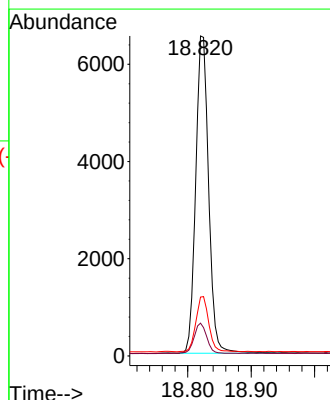
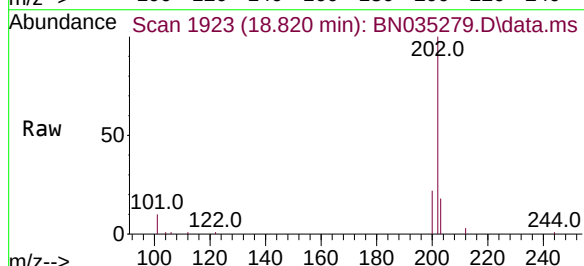
Tgt Ion:202 Resp: 9240

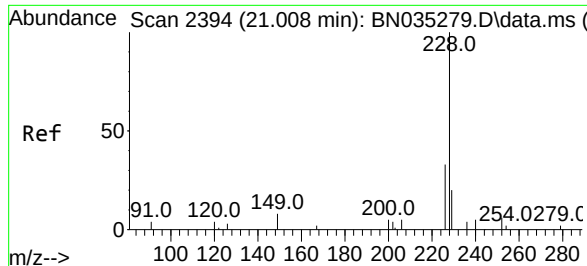
Ion Ratio Lower Upper

202 100

101 9.5 7.6 11.4

203 17.3 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.008 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN035279.D

Acq: 25 Nov 2024 11:28

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

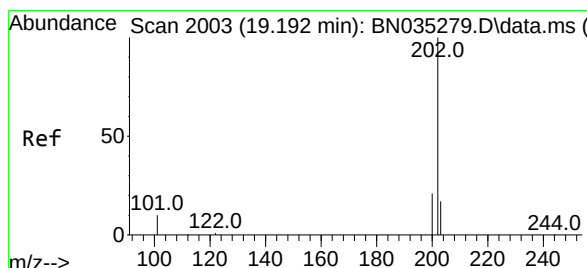
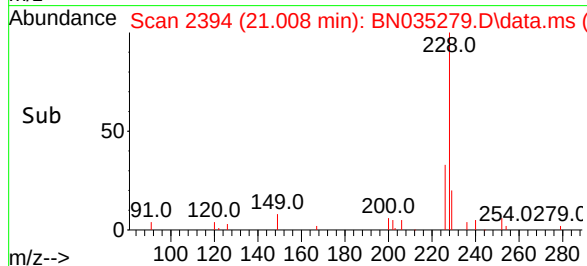
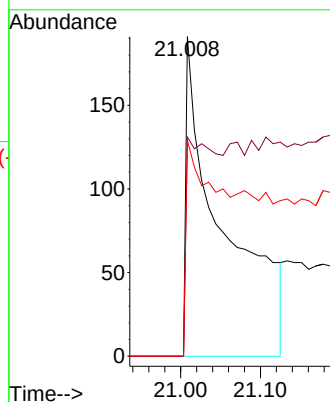
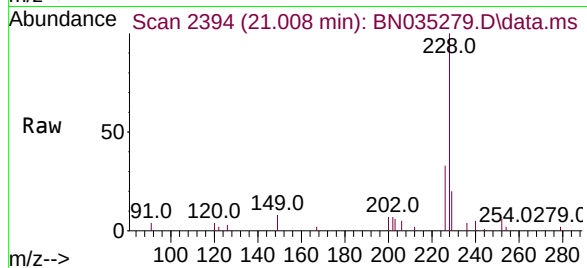
Tgt Ion:240 Resp: 586

Ion Ratio Lower Upper

240 100

120 68.6 54.9 82.3

236 67.5 54.0 81.0



#30

Pyrene

Concen: 4.590 ng

RT: 19.192 min Scan# 2003

Delta R.T. 0.000 min

Lab File: BN035279.D

Acq: 25 Nov 2024 11:28

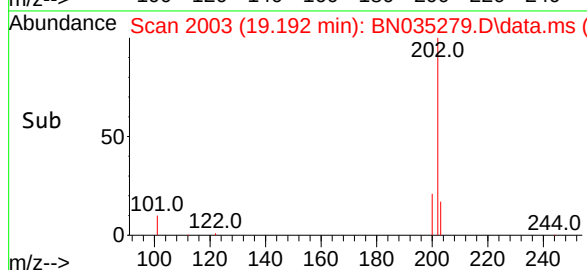
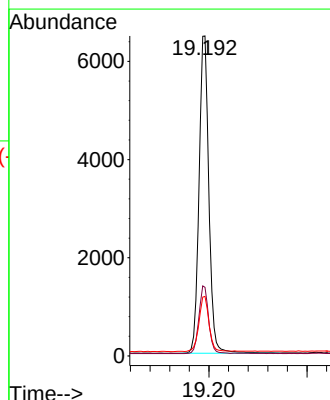
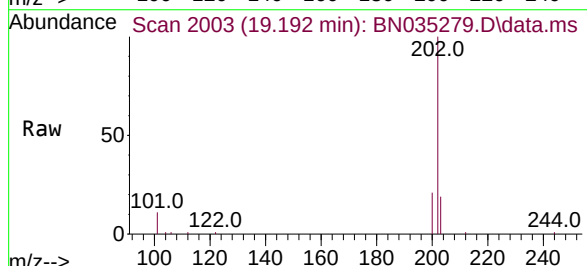
Tgt Ion:202 Resp: 8957

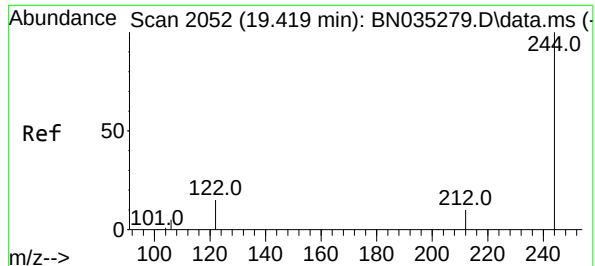
Ion Ratio Lower Upper

202 100

200 21.0 16.8 25.2

203 18.0 14.4 21.6

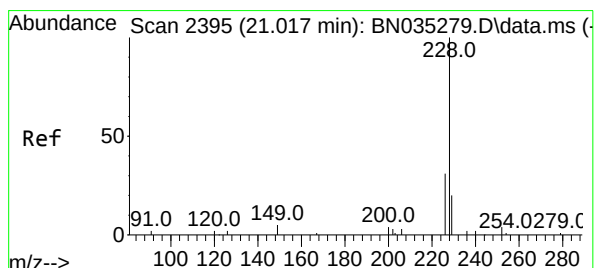
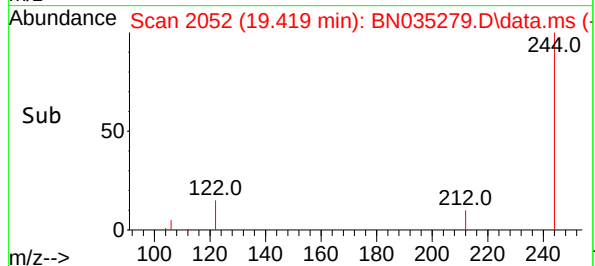
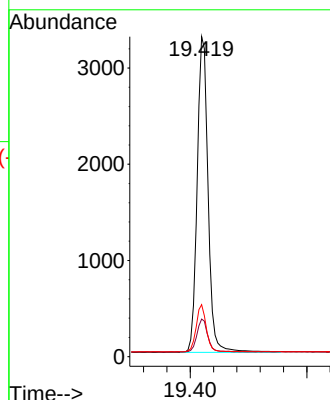
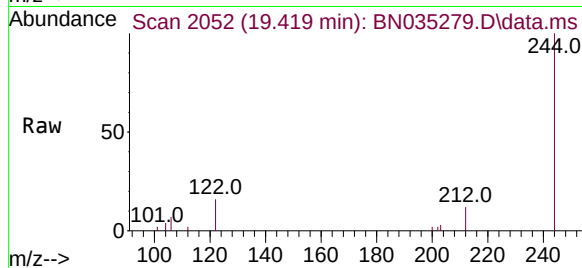




#31
Terphenyl-d14
Concen: 3.460 ng
RT: 19.419 min Scan# 2052
Delta R.T. 0.000 min
Lab File: BN035279.D
Acq: 25 Nov 2024 11:28

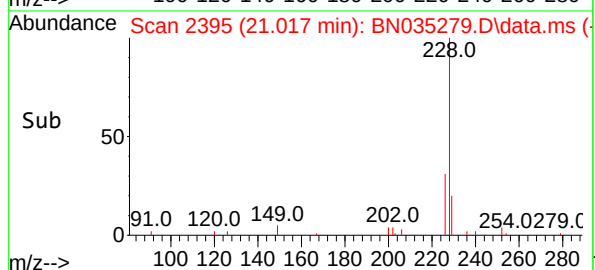
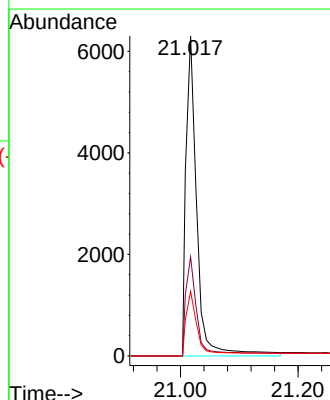
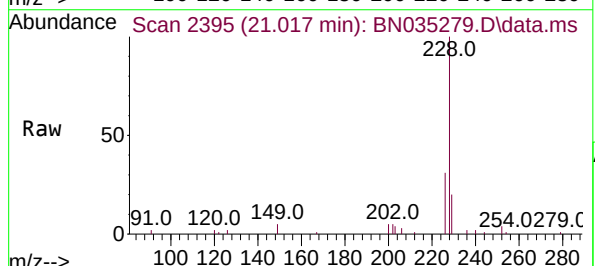
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

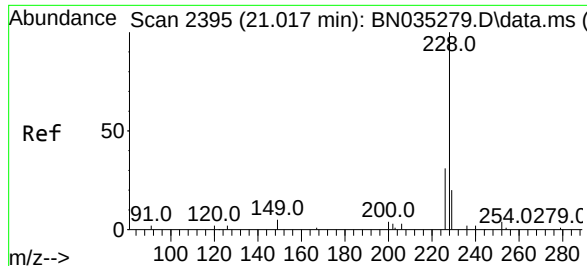
Tgt Ion	Ratio	Lower	Upper
244	100		
212	11.7	9.4	14.0
122	16.2	13.0	19.4



#32
Benzo(a)anthracene
Concen: 3.970 ng
RT: 21.017 min Scan# 2395
Delta R.T. 0.000 min
Lab File: BN035279.D
Acq: 25 Nov 2024 11:28

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.9	24.7	37.1
229	20.2	16.2	24.2





#33

Chrysene

Concen: 4.007 ng

RT: 21.017 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN035279.D

Acq: 25 Nov 2024 11:28

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

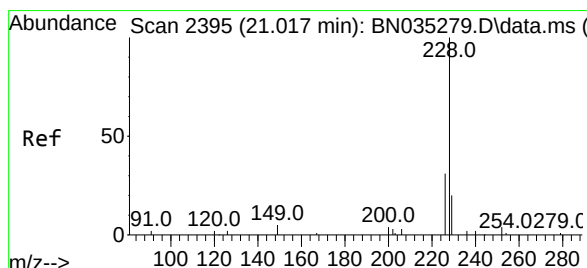
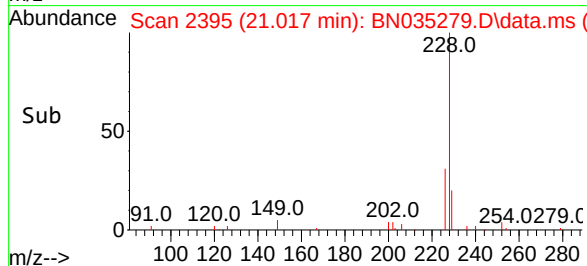
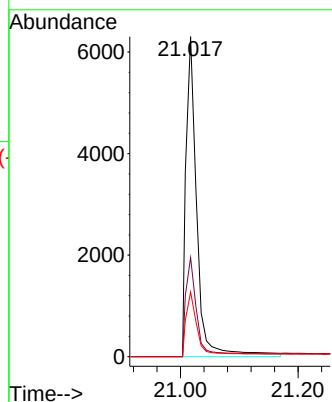
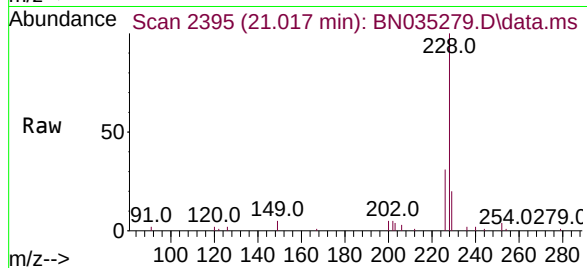
Tgt Ion:228 Resp: 8100

Ion Ratio Lower Upper

228 100

226 30.9 24.7 37.1

229 20.2 16.2 24.2



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.498 ng

RT: 21.017 min Scan# 2395

Delta R.T. 0.000 min

Lab File: BN035279.D

Acq: 25 Nov 2024 11:28

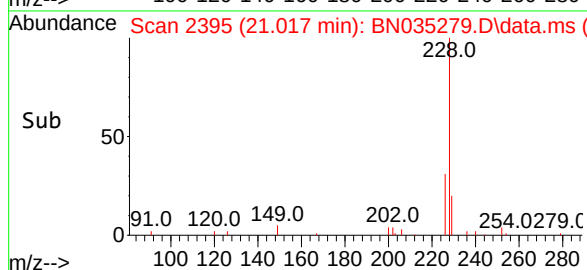
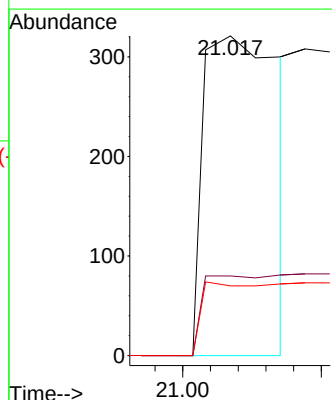
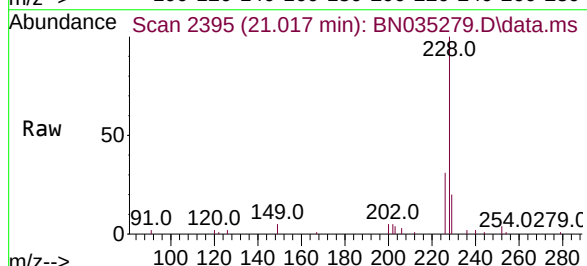
Tgt Ion:149 Resp: 533

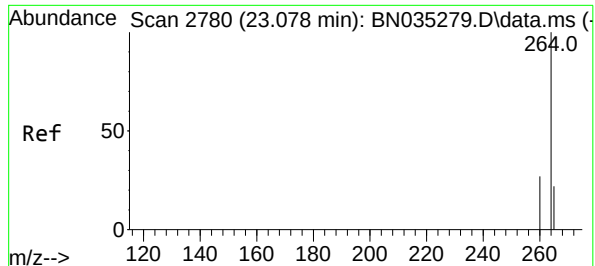
Ion Ratio Lower Upper

149 100

167 0.0 0.0 0.0

279 16.3 13.0 19.6





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.078 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN035279.D

Acq: 25 Nov 2024 11:28

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

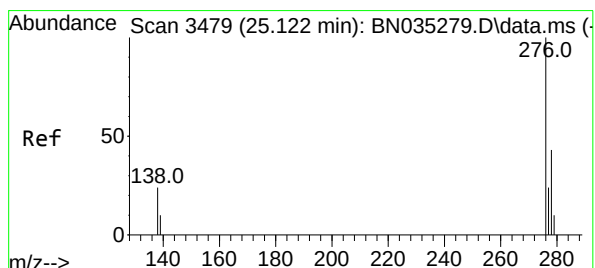
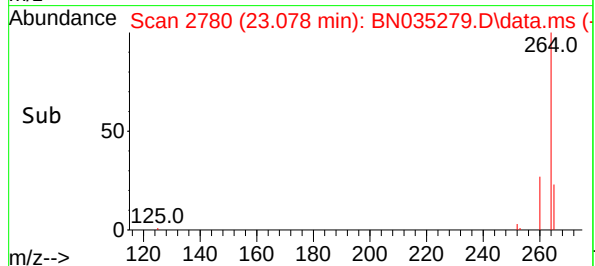
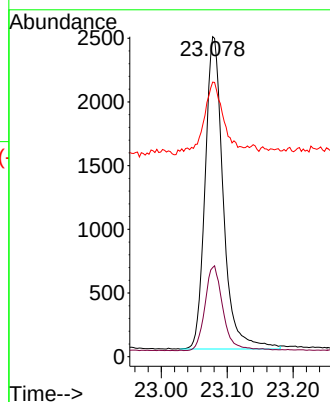
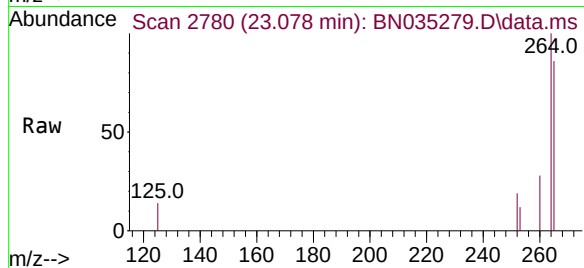
Tgt Ion:264 Resp: 4692

Ion Ratio Lower Upper

264 100

260 27.9 22.3 33.5

265 85.8 68.6 103.0



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.382 ng

RT: 25.122 min Scan# 3479

Delta R.T. 0.000 min

Lab File: BN035279.D

Acq: 25 Nov 2024 11:28

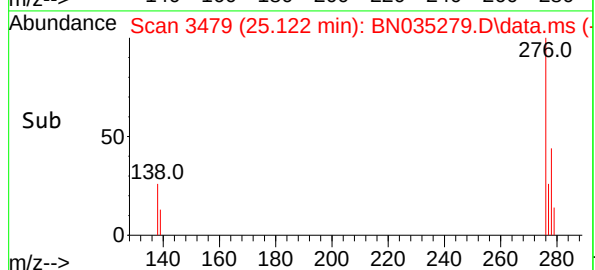
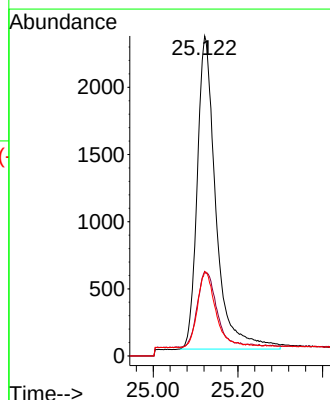
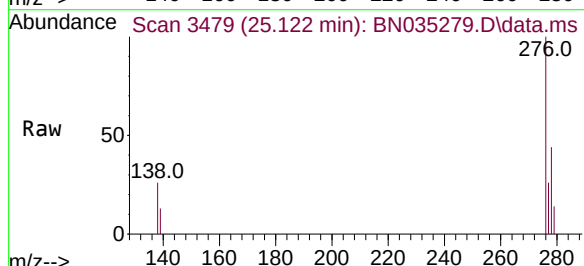
Tgt Ion:276 Resp: 7146

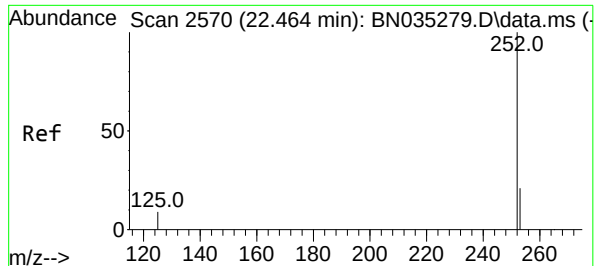
Ion Ratio Lower Upper

276 100

138 23.5 18.8 28.2

277 22.8 18.2 27.4





#37

Benzo(b)fluoranthene

Concen: 0.432 ng

RT: 22.464 min Scan# 2570

Delta R.T. 0.000 min

Lab File: BN035279.D

Acq: 25 Nov 2024 11:28

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

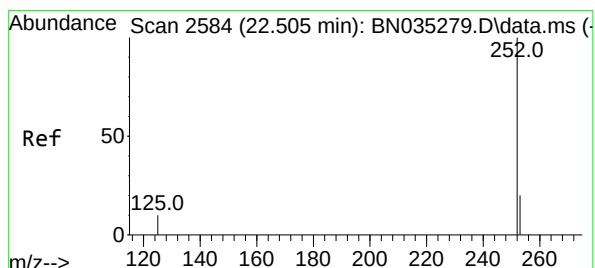
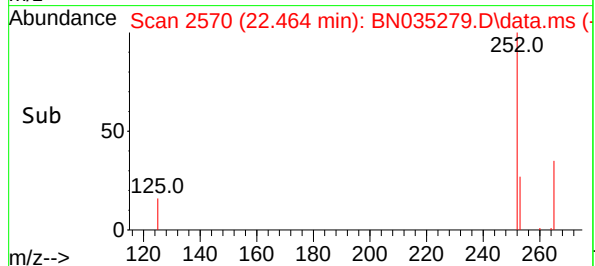
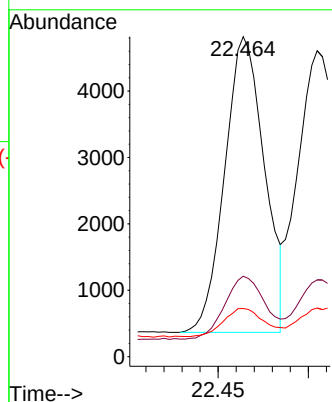
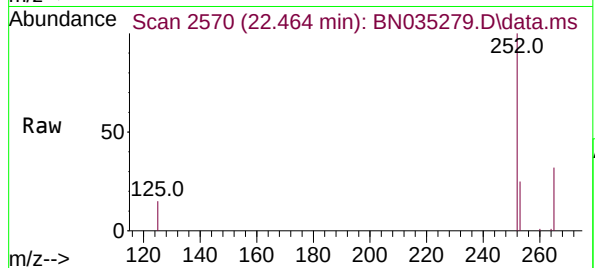
Tgt Ion:252 Resp: 6813

Ion Ratio Lower Upper

252 100

253 25.2 20.2 30.2

125 15.0 12.0 18.0



#38

Benzo(k)fluoranthene

Concen: 0.485 ng

RT: 22.505 min Scan# 2584

Delta R.T. 0.000 min

Lab File: BN035279.D

Acq: 25 Nov 2024 11:28

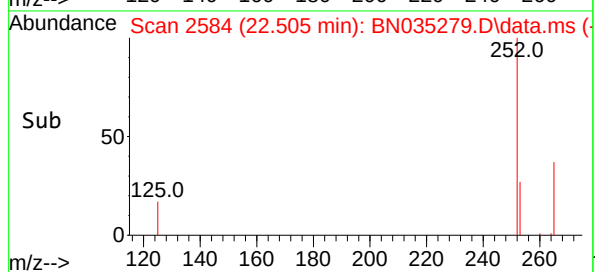
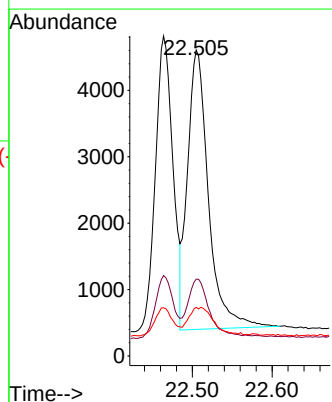
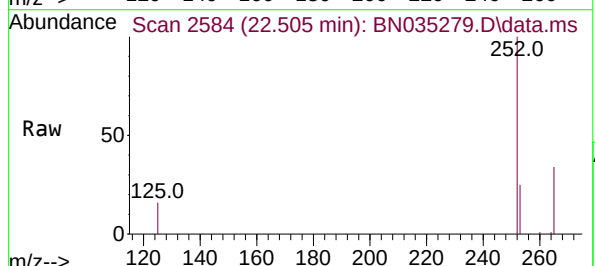
Tgt Ion:252 Resp: 7659

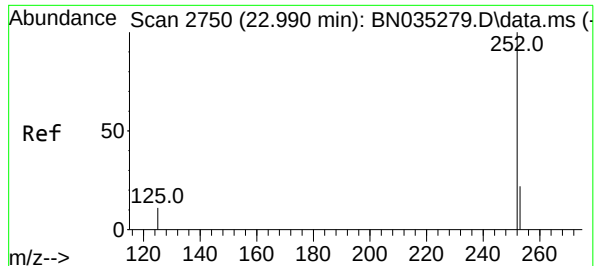
Ion Ratio Lower Upper

252 100

253 25.1 20.1 30.1

125 15.9 12.7 19.1





#39

Benzo(a)pyrene

Concen: 0.386 ng

RT: 22.990 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN035279.D

Acq: 25 Nov 2024 11:28

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

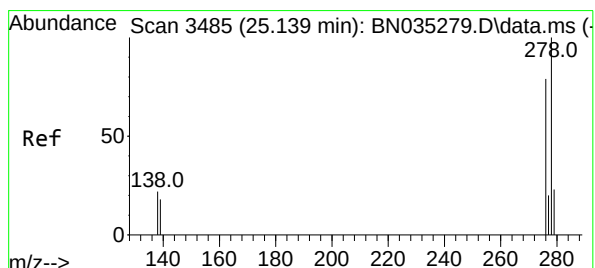
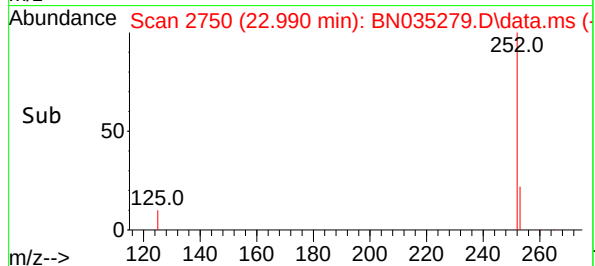
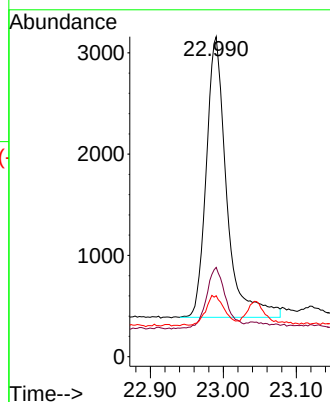
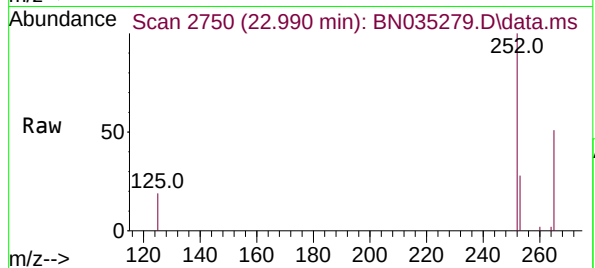
Tgt Ion:252 Resp: 5365

Ion Ratio Lower Upper

252 100

253 27.9 22.3 33.5

125 19.1 15.3 22.9



#40

Dibenzo(a,h)anthracene

Concen: 0.350 ng

RT: 25.139 min Scan# 3485

Delta R.T. 0.000 min

Lab File: BN035279.D

Acq: 25 Nov 2024 11:28

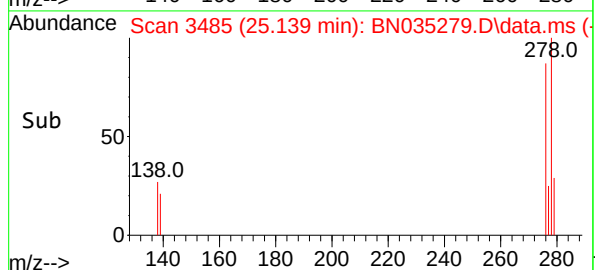
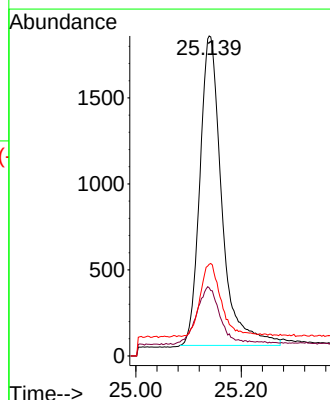
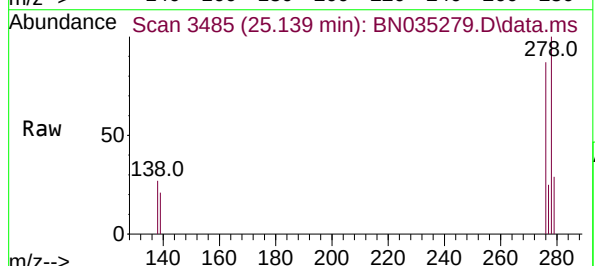
Tgt Ion:278 Resp: 5194

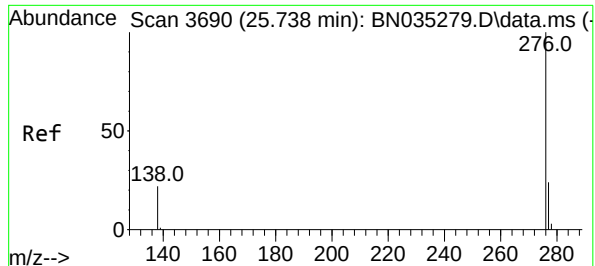
Ion Ratio Lower Upper

278 100

139 21.3 17.0 25.6

279 28.7 23.0 34.4





#41

Benzo(g,h,i)perylene

Concen: 0.369 ng

RT: 25.738 min Scan# 30

Delta R.T. 0.000 min

Lab File: BN035279.D

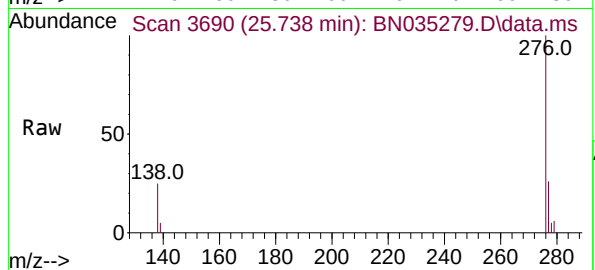
Acq: 25 Nov 2024 11:28

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4



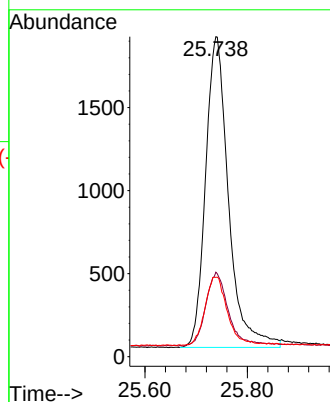
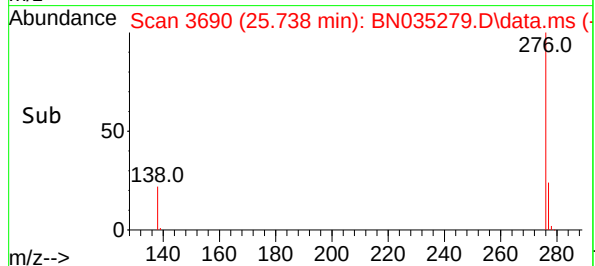
Tgt Ion:276 Resp: 5823

Ion Ratio Lower Upper

276 100

277 26.4 21.1 31.7

138 24.8 19.8 29.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
 Data File : BN035280.D
 Acq On : 25 Nov 2024 12:04
 Operator : RC/JU
 Sample : SSTDICC0.8
 Misc :
 ALS Vial : 55 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.8

Quant Time: Nov 25 14:19:24 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Nov 25 14:16:35 2024
 Response via : Initial Calibration

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

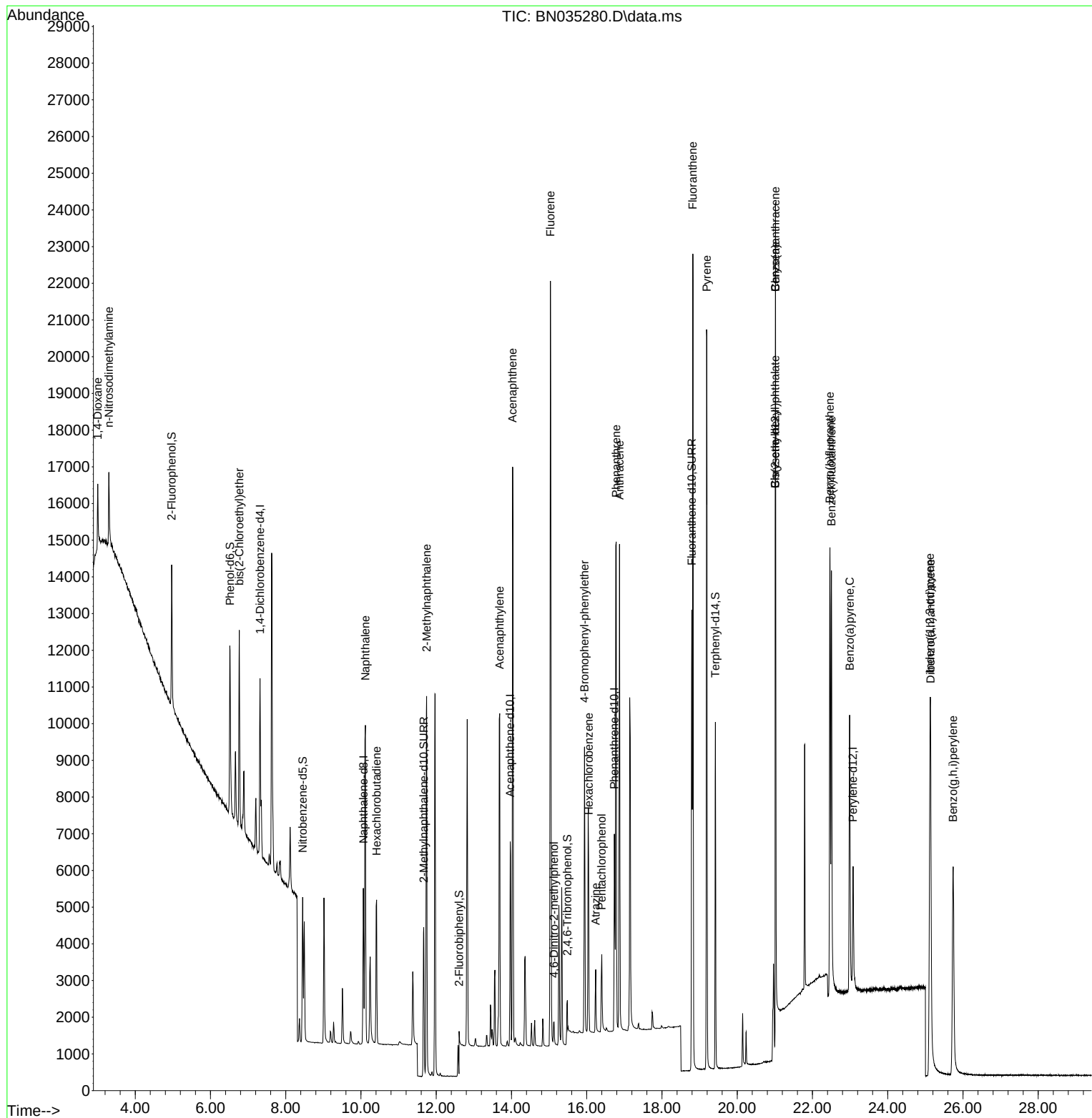
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.315	152	2258	0.400	ng	0.00
7) Naphthalene-d8	10.063	136	5425	0.400	ng	0.00
13) Acenaphthene-d10	13.966	164	2924	0.400	ng	-0.01
19) Phenanthrene-d10	16.734	188	6884	0.400	ng	0.00
29) Chrysene-d12	21.008	240	725	0.400	ng	0.00
35) Perylene-d12	23.078	264	4193	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.968	112	3276	0.572	ng	0.00
5) Phenol-d6	6.520	99	4617	0.642	ng	0.00
8) Nitrobenzene-d5	8.450	82	3545	0.751	ng	0.00
11) 2-Methylnaphthalene-d10	11.666	152	5717	0.591	ng	0.00
14) 2,4,6-Tribromophenol	15.484	330	1086	0.515	ng	0.00
15) 2-Fluorobiphenyl	12.608	172	691	0.058	ng	0.00
27) Fluoranthene-d10	18.792	212	13734	0.651	ng	0.00
31) Terphenyl-d14	19.419	244	8811	5.792	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.003	88	1187	0.579	ng	# 83
3) n-Nitrosodimethylamine	3.299	42	1383	0.724	ng	# 78
6) bis(2-Chloroethyl)ether	6.766	93	4007	0.743	ng	99
9) Naphthalene	10.116	128	11664	0.824	ng	98
10) Hexachlorobutadiene	10.415	225	3379	0.814	ng	# 100
12) 2-Methylnaphthalene	11.742	142	7328	0.701	ng	99
16) Acenaphthylene	13.688	152	11221	0.898	ng	99
17) Acenaphthene	14.030	154	6985	0.853	ng	99
18) Fluorene	15.035	166	9874	0.820	ng	100
20) 4,6-Dinitro-2-methylph...	15.131	198	542	0.378	ng	# 71
21) 4-Bromophenyl-phenylether	15.939	248	3203	0.730	ng	98
22) Hexachlorobenzene	16.051	284	5001	1.099	ng	99
23) Atrazine	16.237	200	1376	0.350	ng	95
24) Pentachlorophenol	16.399	266	1125	0.529	ng	96
25) Phenanthrene	16.783	178	16001	0.883	ng	99
26) Anthracene	16.870	178	13123	0.789	ng	99
28) Fluoranthene	18.820	202	20007	0.803	ng	100
30) Pyrene	19.192	202	18434	7.635	ng	99
32) Benzo(a)anthracene	21.017	228	16677	6.606	ng	99
33) Chrysene	21.017	228	16677	6.669	ng	99
34) Bis(2-ethylhexyl)phtha...	21.008	149	733	0.553	ng	# 62
36) Indeno(1,2,3-cd)pyrene	25.124	276	13203	0.789	ng	99
37) Benzo(b)fluoranthene	22.464	252	14372	1.019	ng	95
38) Benzo(k)fluoranthene	22.505	252	15061	1.067	ng	# 95
39) Benzo(a)pyrene	22.987	252	10876	0.876	ng	# 92
40) Dibenzo(a,h)anthracene	25.139	278	10078	0.760	ng	94
41) Benzo(g,h,i)perylene	25.738	276	11838	0.840	ng	97

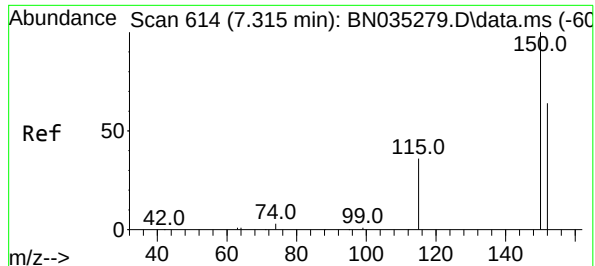
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
Data File : BN035280.D
Acq On : 25 Nov 2024 12:04
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 55 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

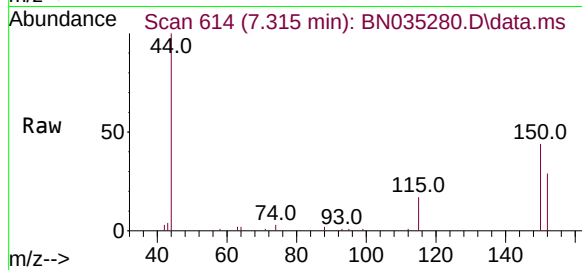
Quant Time: Nov 25 14:19:24 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 25 14:16:35 2024
Response via : Initial Calibration



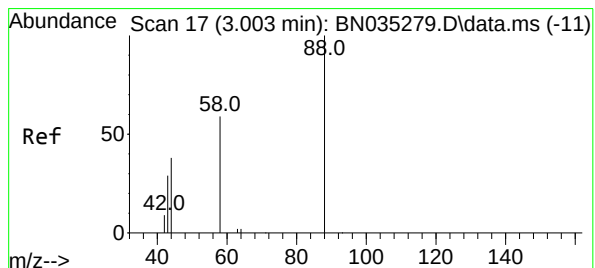
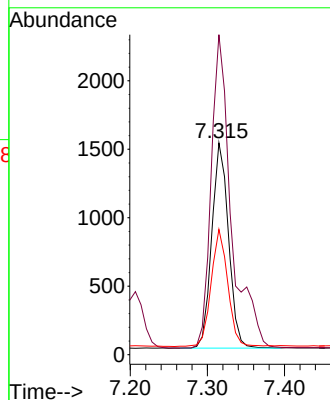
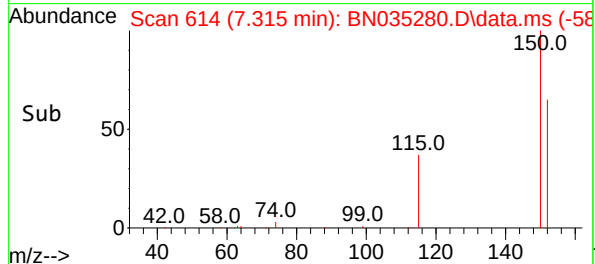


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.315 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035280.D
Acq: 25 Nov 2024 12:04

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

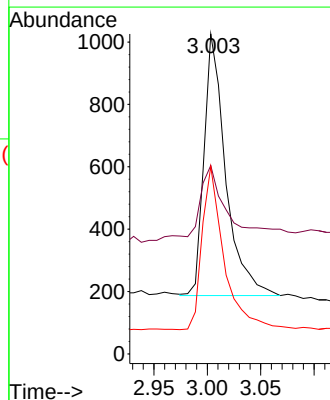
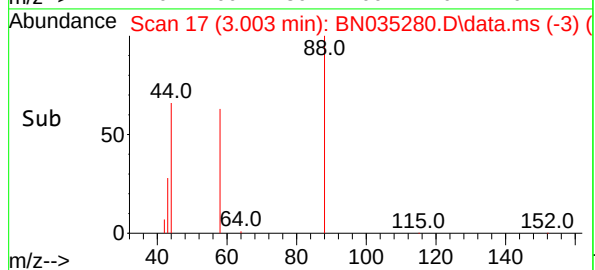
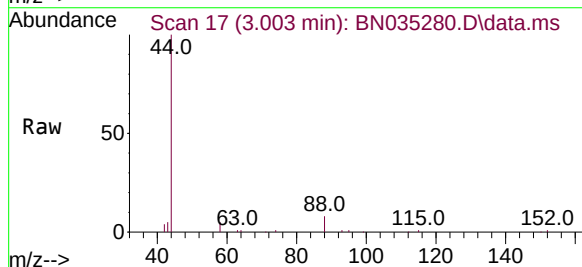


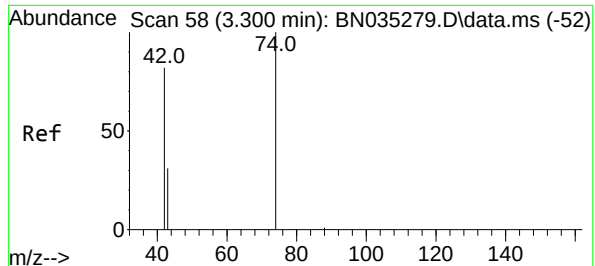
Tgt Ion:152 Resp: 2258
Ion Ratio Lower Upper
152 100
150 151.1 124.5 186.7
115 59.1 47.8 71.8



#2
1,4-Dioxane
Concen: 0.579 ng
RT: 3.003 min Scan# 17
Delta R.T. -0.000 min
Lab File: BN035280.D
Acq: 25 Nov 2024 12:04

Tgt Ion: 88 Resp: 1187
Ion Ratio Lower Upper
88 100
43 39.6 48.1 72.1#
58 63.3 46.9 70.3

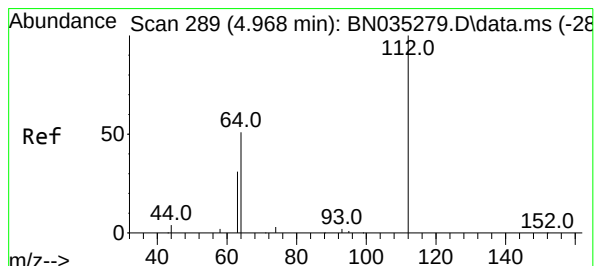
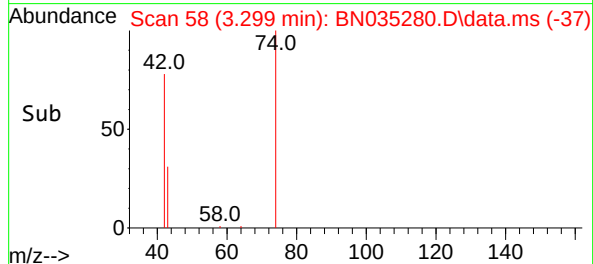
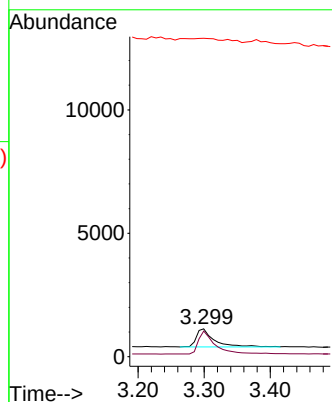
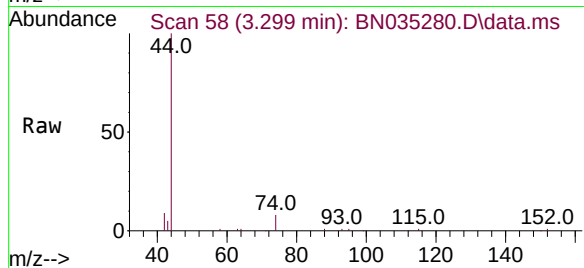




#3
n-Nitrosodimethylamine
Concen: 0.724 ng
RT: 3.299 min Scan# 58
Delta R.T. -0.000 min
Lab File: BN035280.D
Acq: 25 Nov 2024 12:04

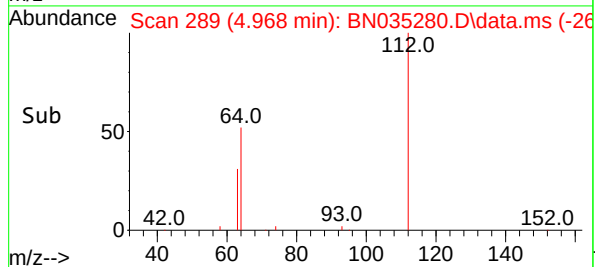
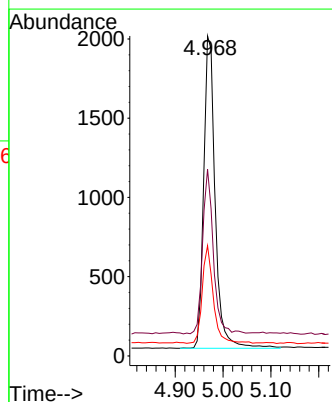
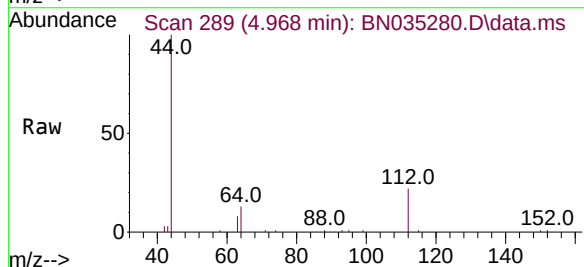
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

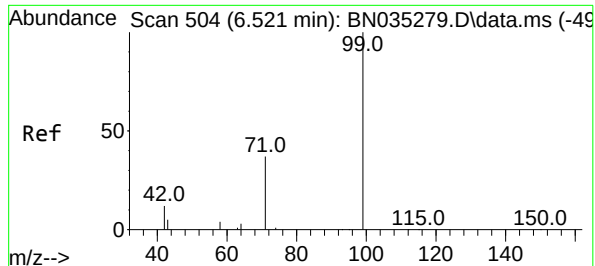
Tgt Ion: 42 Resp: 1383
Ion Ratio Lower Upper
42 100
74 120.0 102.7 154.1
44 0.0 34.1 51.1#



#4
2-Fluorophenol
Concen: 0.572 ng
RT: 4.968 min Scan# 289
Delta R.T. -0.000 min
Lab File: BN035280.D
Acq: 25 Nov 2024 12:04

Tgt Ion: 112 Resp: 3276
Ion Ratio Lower Upper
112 100
64 49.6 40.4 60.6
63 30.1 23.8 35.8

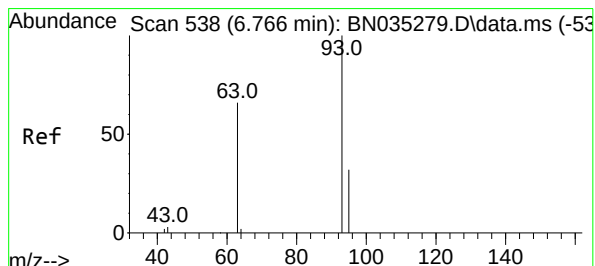
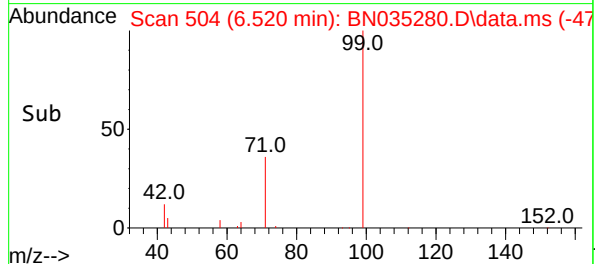
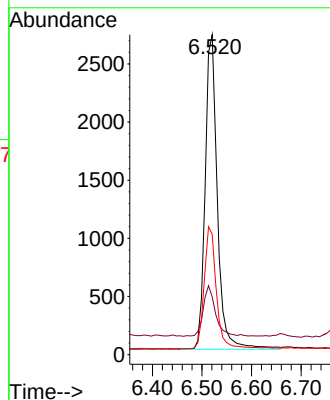
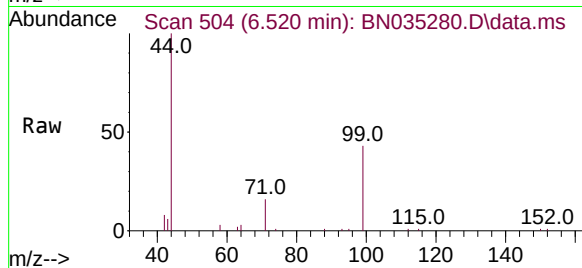




#5
Phenol-d6
Concen: 0.642 ng
RT: 6.520 min Scan# 504
Delta R.T. -0.000 min
Lab File: BN035280.D
Acq: 25 Nov 2024 12:04

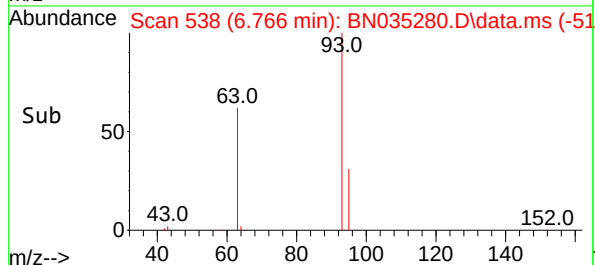
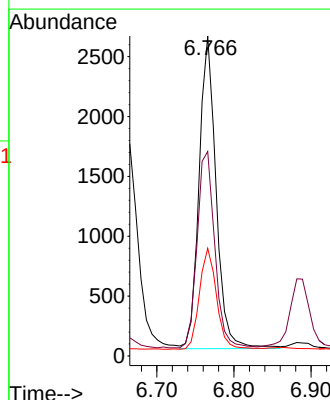
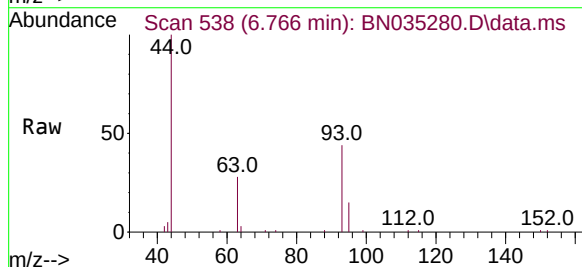
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

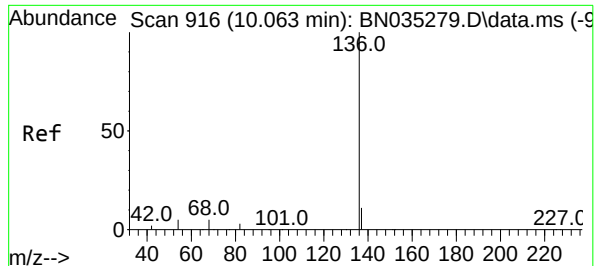
Tgt Ion: 99 Resp: 4617
Ion Ratio Lower Upper
99 100
42 16.7 12.8 19.2
71 38.6 31.4 47.2



#6
bis(2-Chloroethyl)ether
Concen: 0.743 ng
RT: 6.766 min Scan# 538
Delta R.T. -0.000 min
Lab File: BN035280.D
Acq: 25 Nov 2024 12:04

Tgt Ion: 93 Resp: 4007
Ion Ratio Lower Upper
93 100
63 65.0 52.3 78.5
95 32.3 25.5 38.3

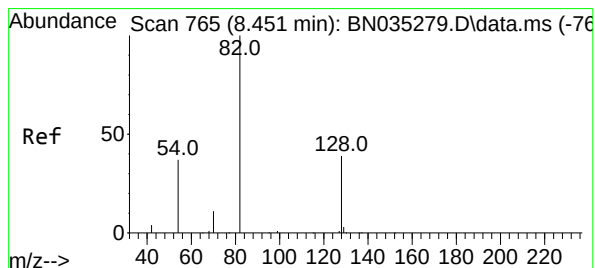
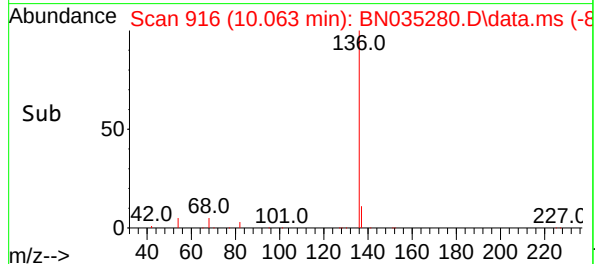
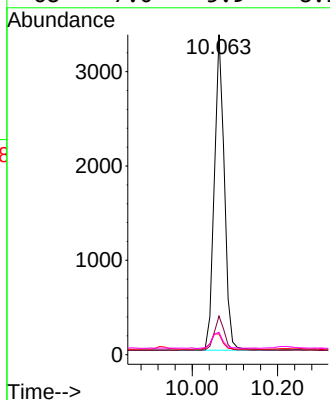
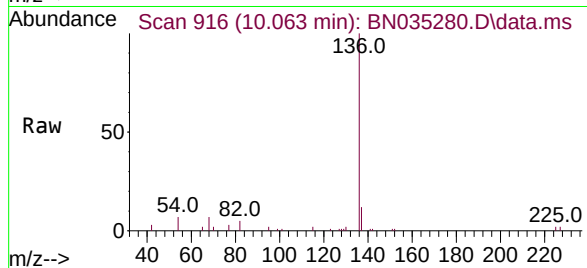




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.063 min Scan# 916
Delta R.T. -0.000 min
Lab File: BN035280.D
Acq: 25 Nov 2024 12:04

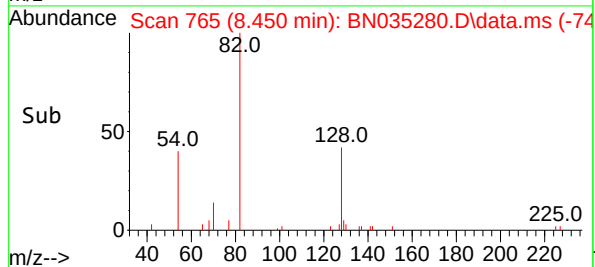
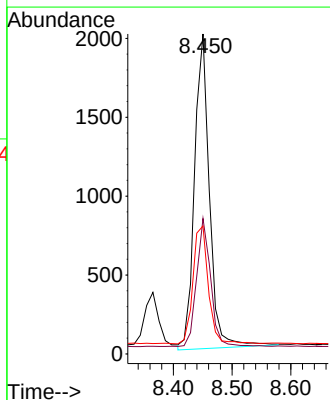
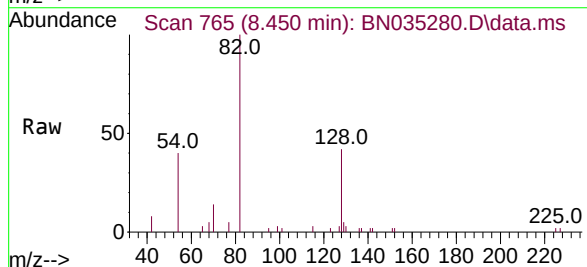
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

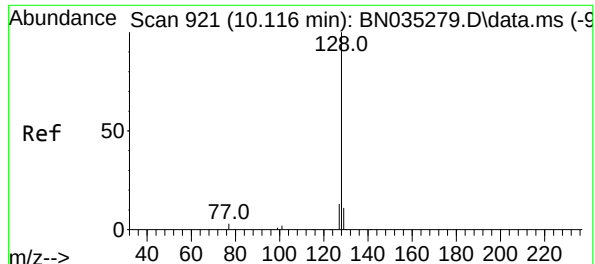
Tgt Ion:	136	Resp:	5425
Ion	Ratio	Lower	Upper
136	100		
137	12.1	9.7	14.5
54	6.5	5.3	7.9
68	7.0	5.9	8.9



#8
Nitrobenzene-d5
Concen: 0.751 ng
RT: 8.450 min Scan# 765
Delta R.T. -0.000 min
Lab File: BN035280.D
Acq: 25 Nov 2024 12:04

Tgt Ion:	82	Resp:	3545
Ion	Ratio	Lower	Upper
82	100		
128	42.4	33.0	49.4
54	40.0	33.3	49.9

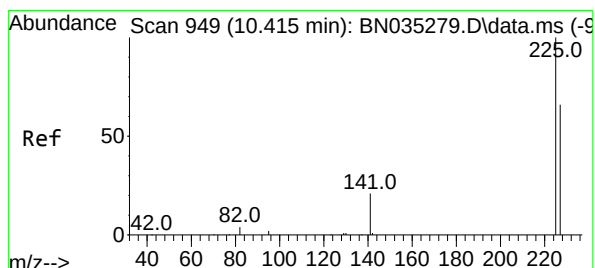
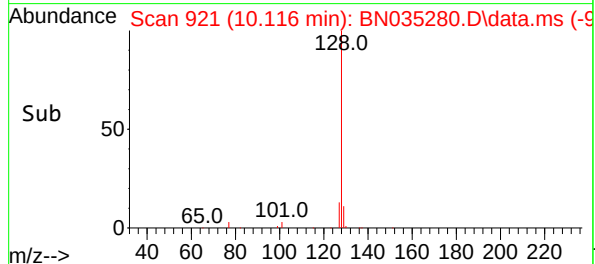
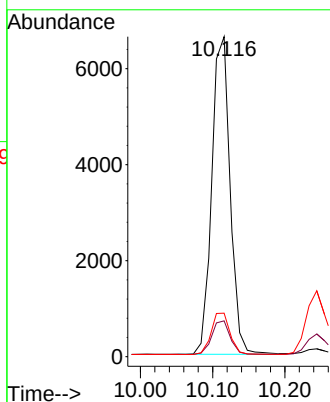
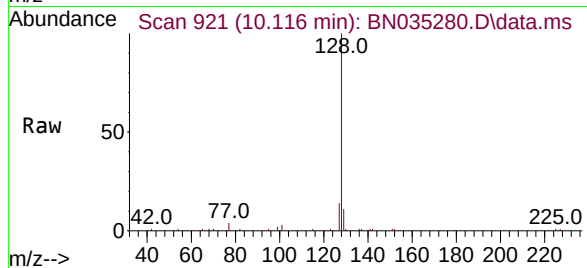




#9
Naphthalene
Concen: 0.824 ng
RT: 10.116 min Scan# 921
Delta R.T. -0.000 min
Lab File: BN035280.D
Acq: 25 Nov 2024 12:04

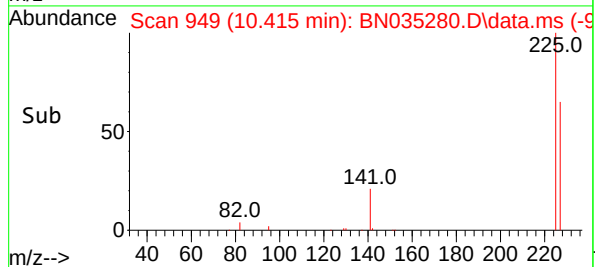
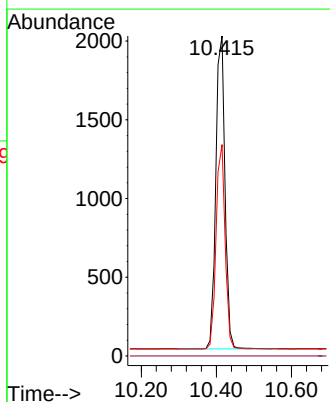
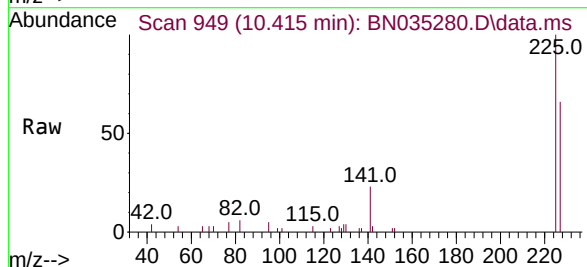
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

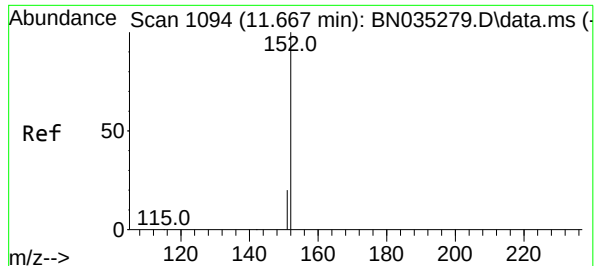
Tgt Ion:128 Resp: 11664
Ion Ratio Lower Upper
128 100
129 11.2 9.6 14.4
127 13.6 11.3 16.9



#10
Hexachlorobutadiene
Concen: 0.814 ng
RT: 10.415 min Scan# 949
Delta R.T. -0.000 min
Lab File: BN035280.D
Acq: 25 Nov 2024 12:04

Tgt Ion:225 Resp: 3379
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.1 51.3 76.9

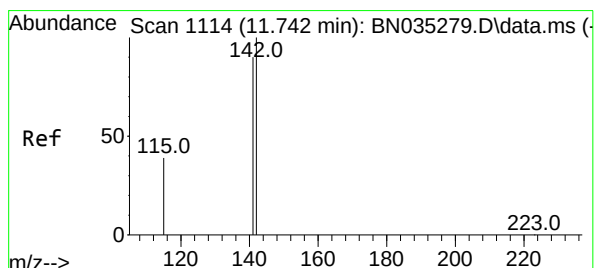
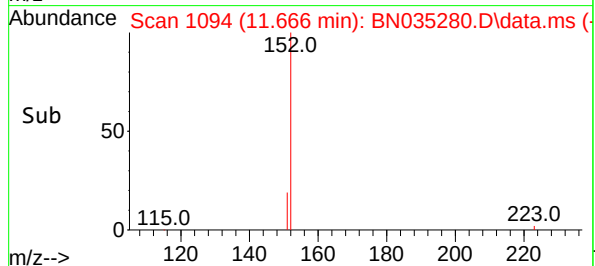
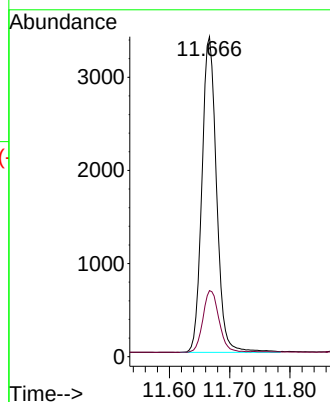
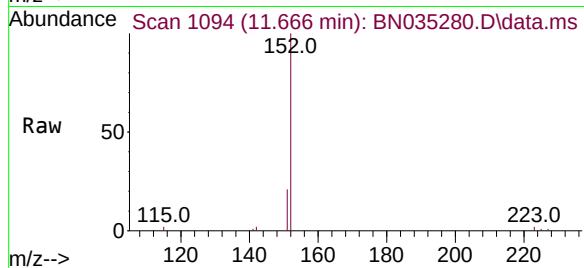




#11
2-Methylnaphthalene-d10
Concen: 0.591 ng
RT: 11.666 min Scan# 1094
Delta R.T. -0.000 min
Lab File: BN035280.D
Acq: 25 Nov 2024 12:04

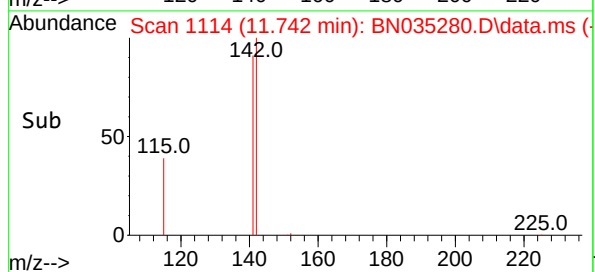
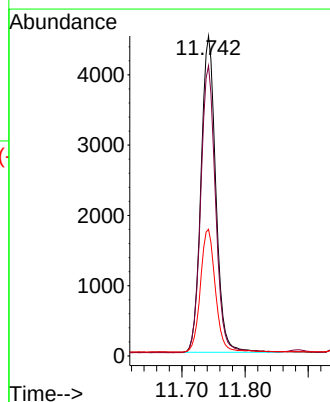
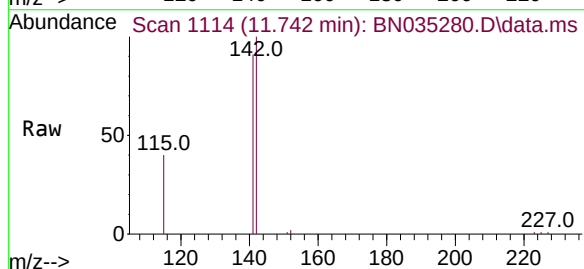
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

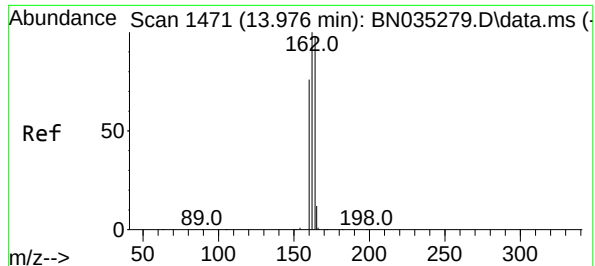
Tgt Ion:152 Resp: 5717
Ion Ratio Lower Upper
152 100
151 21.5 17.2 25.8



#12
2-Methylnaphthalene
Concen: 0.701 ng
RT: 11.742 min Scan# 1114
Delta R.T. -0.000 min
Lab File: BN035280.D
Acq: 25 Nov 2024 12:04

Tgt Ion:142 Resp: 7328
Ion Ratio Lower Upper
142 100
141 90.7 71.8 107.8
115 39.6 32.6 49.0

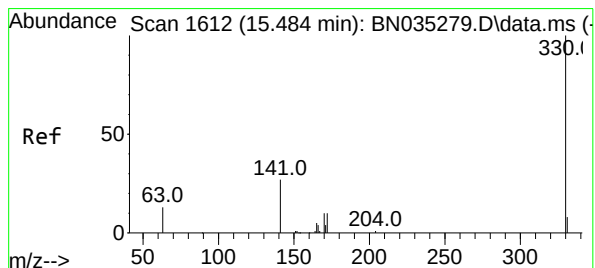
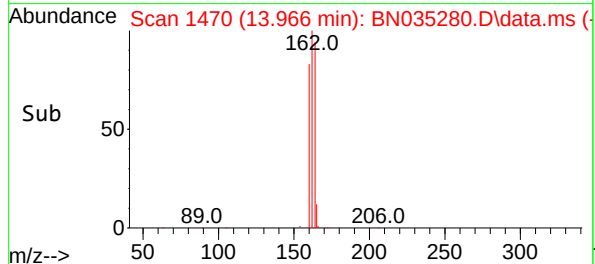
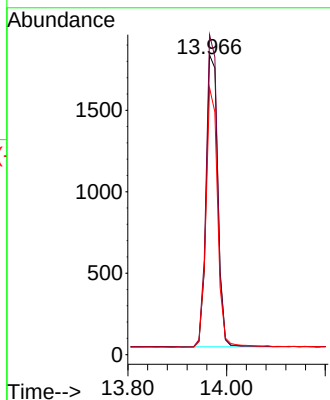
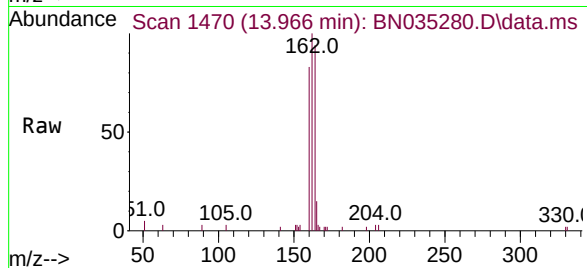




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.966 min Scan# 1471
Delta R.T. -0.011 min
Lab File: BN035280.D
Acq: 25 Nov 2024 12:04

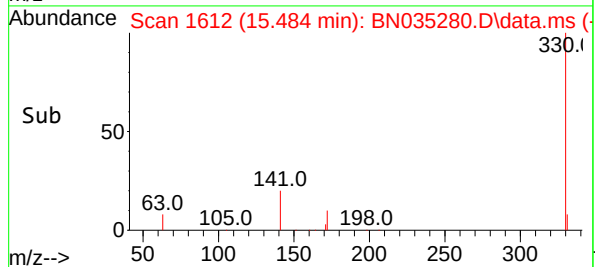
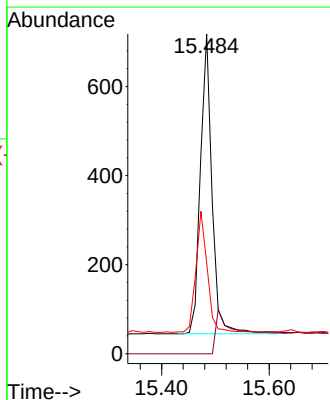
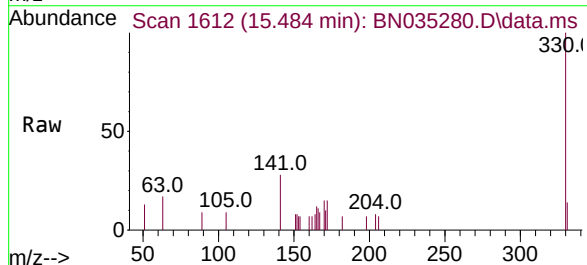
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

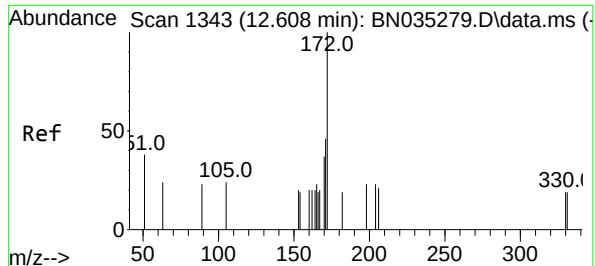
Tgt Ion:164 Resp: 2924
Ion Ratio Lower Upper
164 100
162 106.8 82.0 123.0
160 89.1 63.0 94.4



#14
2,4,6-Tribromophenol
Concen: 0.515 ng
RT: 15.484 min Scan# 1612
Delta R.T. -0.000 min
Lab File: BN035280.D
Acq: 25 Nov 2024 12:04

Tgt Ion:330 Resp: 1086
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 39.4 32.4 48.6

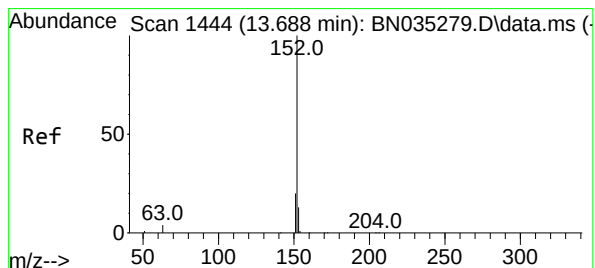
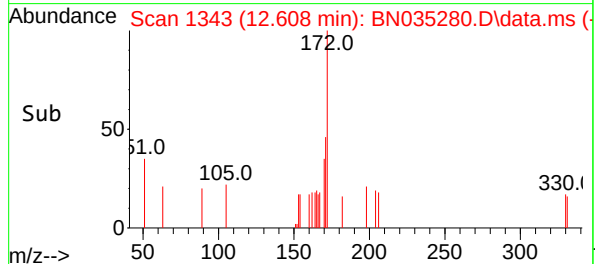
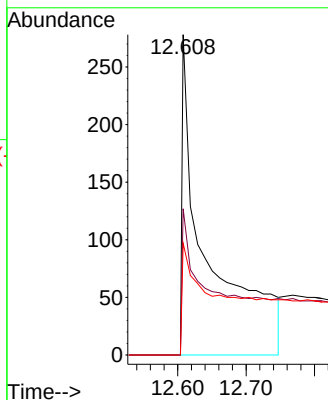
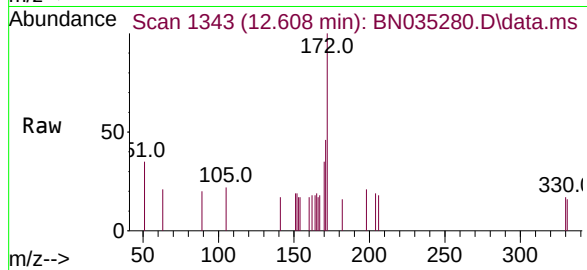




#15
2-Fluorobiphenyl
Concen: 0.058 ng
RT: 12.608 min Scan# 1343
Delta R.T. -0.000 min
Lab File: BN035280.D
Acq: 25 Nov 2024 12:04

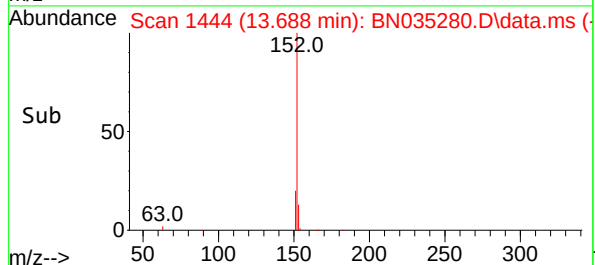
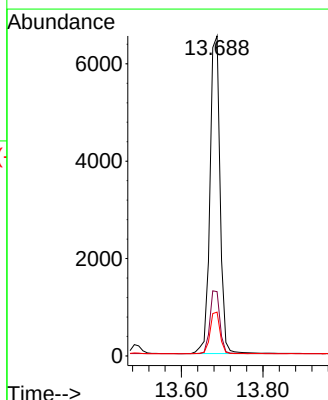
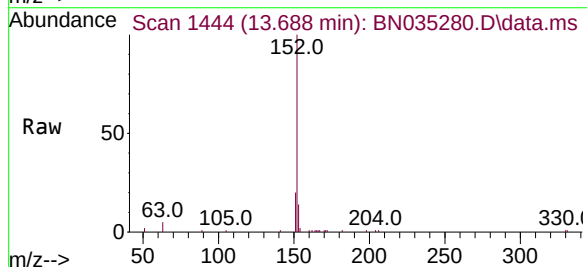
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

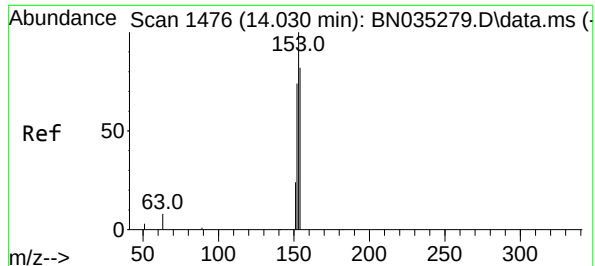
Tgt Ion	Ratio	Lower	Upper
172	100		
171	45.7	36.6	55.0
170	34.9	29.7	44.5



#16
Acenaphthylene
Concen: 0.898 ng
RT: 13.688 min Scan# 1444
Delta R.T. -0.000 min
Lab File: BN035280.D
Acq: 25 Nov 2024 12:04

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.6	15.9	23.9
153	13.0	10.2	15.4

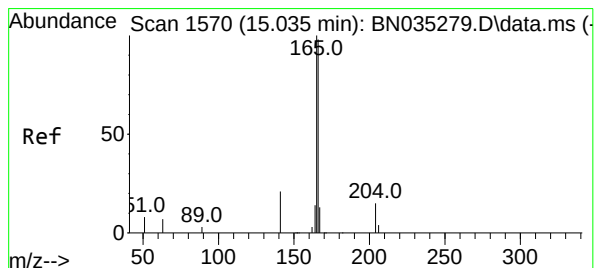
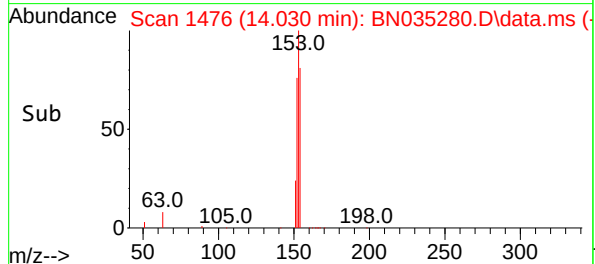
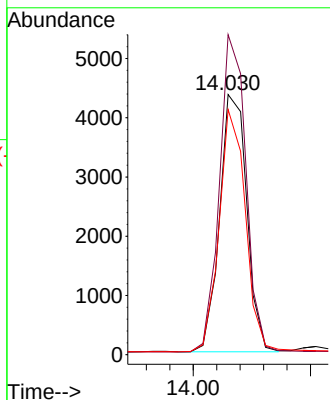
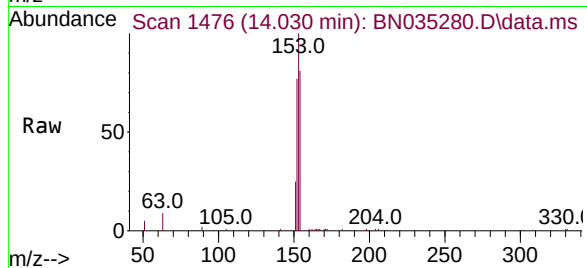




#17
Acenaphthene
Concen: 0.853 ng
RT: 14.030 min Scan# 1476
Delta R.T. -0.000 min
Lab File: BN035280.D
Acq: 25 Nov 2024 12:04

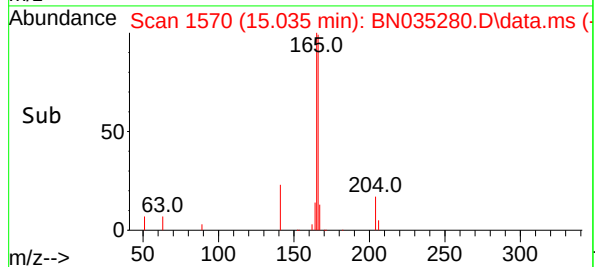
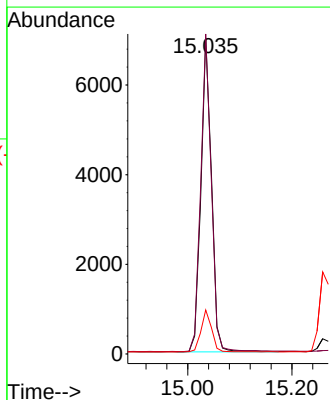
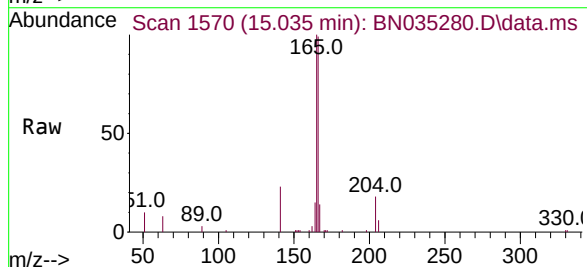
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

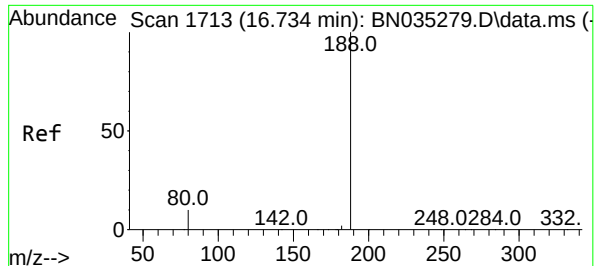
Tgt Ion:154 Resp: 6985
Ion Ratio Lower Upper
154 100
153 120.3 96.1 144.1
152 92.3 72.2 108.2



#18
Fluorene
Concen: 0.820 ng
RT: 15.035 min Scan# 1570
Delta R.T. -0.000 min
Lab File: BN035280.D
Acq: 25 Nov 2024 12:04

Tgt Ion:166 Resp: 9874
Ion Ratio Lower Upper
166 100
165 101.4 81.2 121.8
167 13.3 10.5 15.7





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.734 min Scan# 1713

Delta R.T. -0.000 min

Lab File: BN035280.D

Acq: 25 Nov 2024 12:04

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

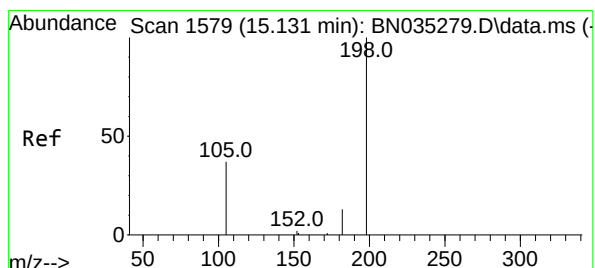
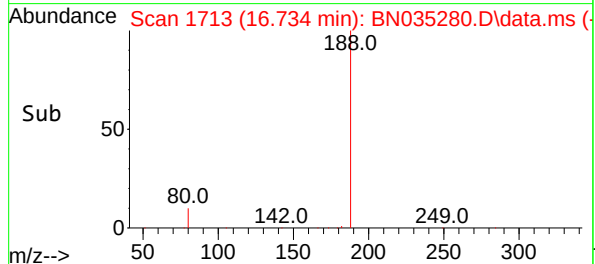
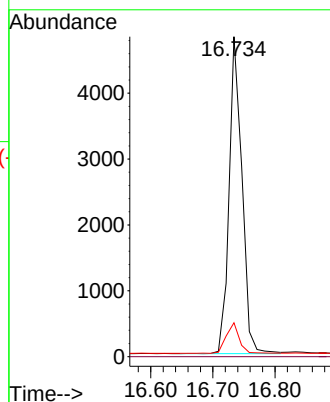
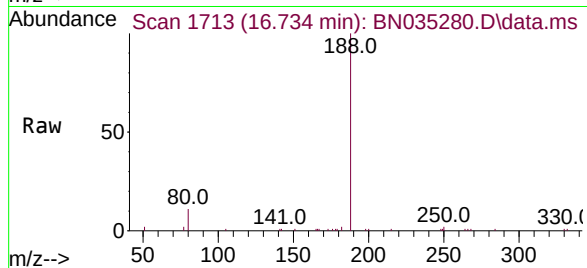
Tgt Ion:188 Resp: 6884

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.6 8.9 13.3



#20

4,6-Dinitro-2-methylphenol

Concen: 0.378 ng

RT: 15.131 min Scan# 1579

Delta R.T. -0.000 min

Lab File: BN035280.D

Acq: 25 Nov 2024 12:04

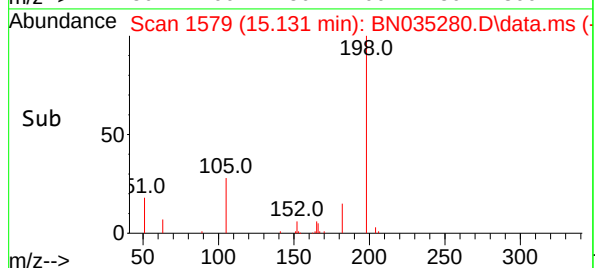
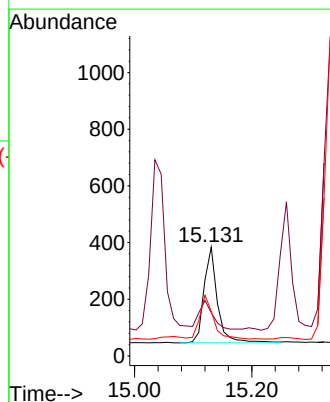
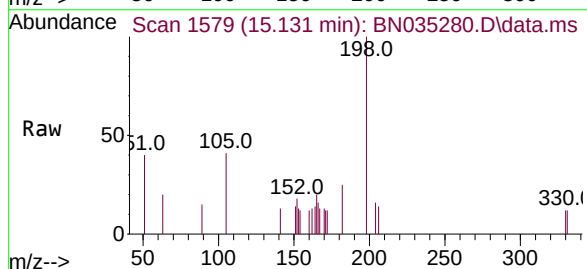
Tgt Ion:198 Resp: 542

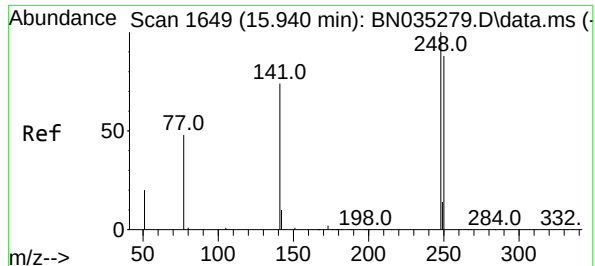
Ion Ratio Lower Upper

198 100

51 39.8 53.6 80.4#

105 41.1 47.4 71.2#

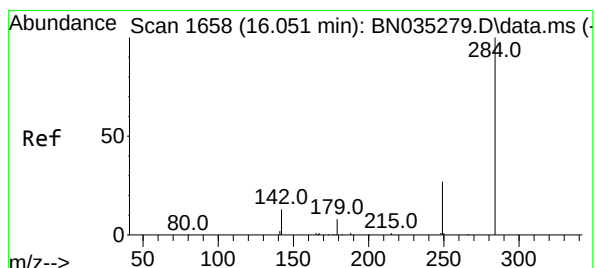
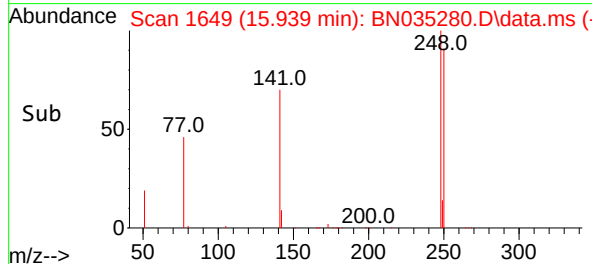
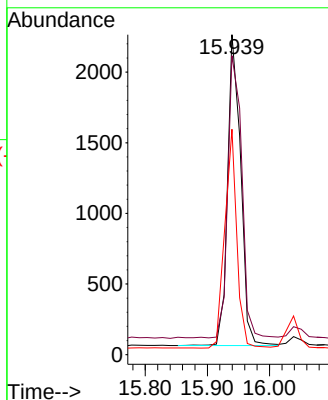
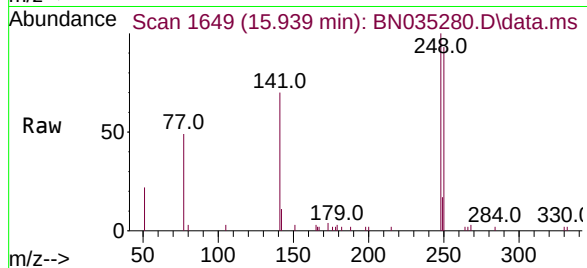




#21
4-Bromophenyl-phenylether
Concen: 0.730 ng
RT: 15.939 min Scan# 1649
Delta R.T. -0.000 min
Lab File: BN035280.D
Acq: 25 Nov 2024 12:04

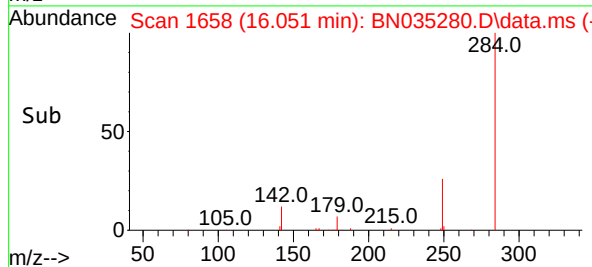
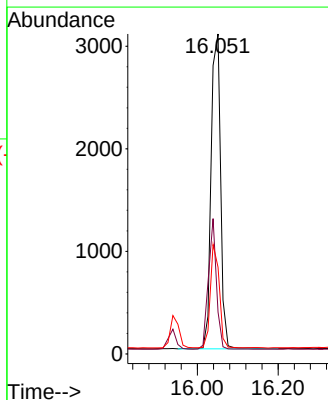
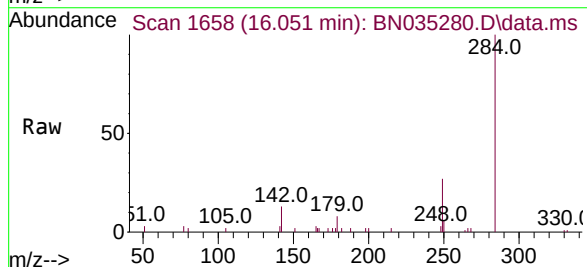
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

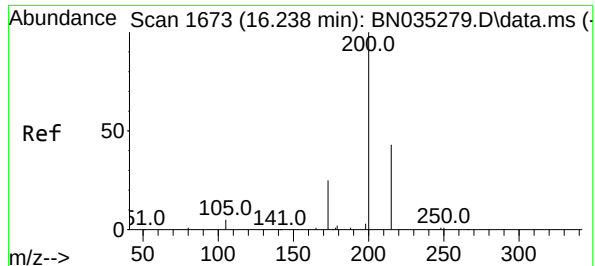
Tgt Ion:248 Resp: 3203
Ion Ratio Lower Upper
248 100
250 93.5 74.8 112.2
141 70.5 59.0 88.4



#22
Hexachlorobenzene
Concen: 1.099 ng
RT: 16.051 min Scan# 1658
Delta R.T. -0.000 min
Lab File: BN035280.D
Acq: 25 Nov 2024 12:04

Tgt Ion:284 Resp: 5001
Ion Ratio Lower Upper
284 100
142 35.2 28.7 43.1
249 30.8 25.4 38.0

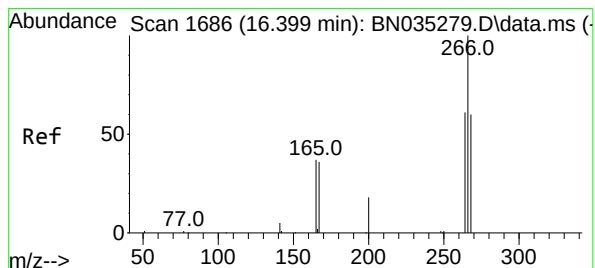
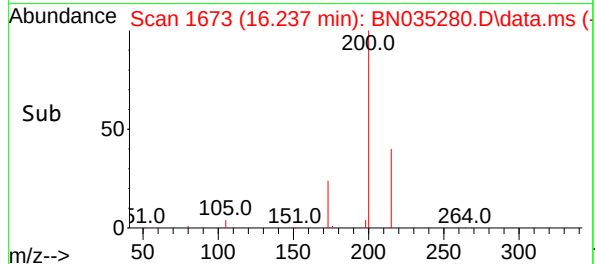
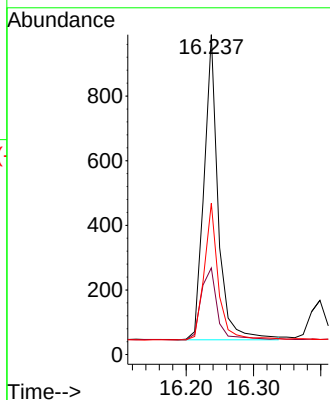
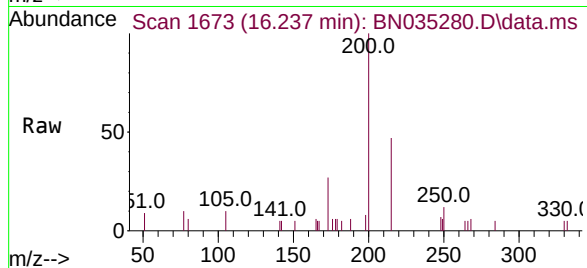




#23
Atrazine
Concen: 0.350 ng
RT: 16.237 min Scan# 1673
Delta R.T. -0.000 min
Lab File: BN035280.D
Acq: 25 Nov 2024 12:04

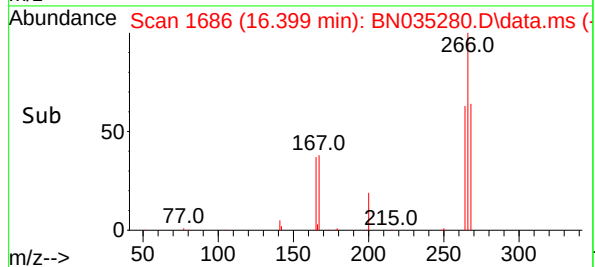
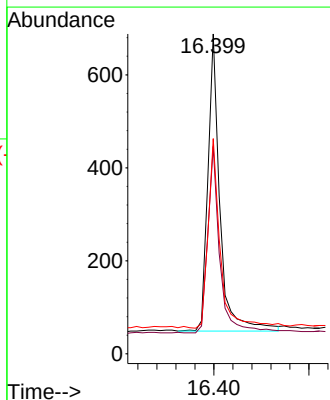
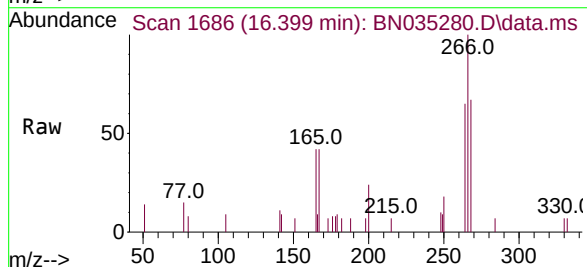
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

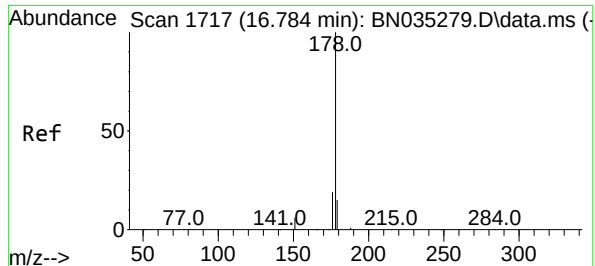
Tgt Ion:200 Resp: 1376
Ion Ratio Lower Upper
200 100
173 27.1 25.8 38.8
215 47.3 38.6 58.0



#24
Pentachlorophenol
Concen: 0.529 ng
RT: 16.399 min Scan# 1686
Delta R.T. -0.000 min
Lab File: BN035280.D
Acq: 25 Nov 2024 12:04

Tgt Ion:266 Resp: 1125
Ion Ratio Lower Upper
266 100
264 62.7 49.3 73.9
268 65.5 48.6 73.0

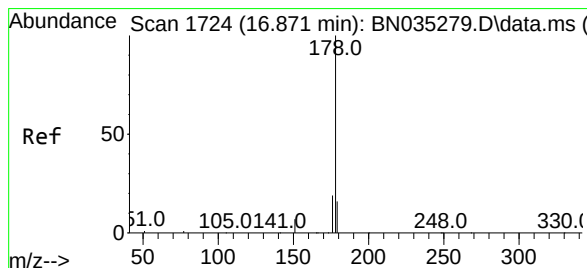
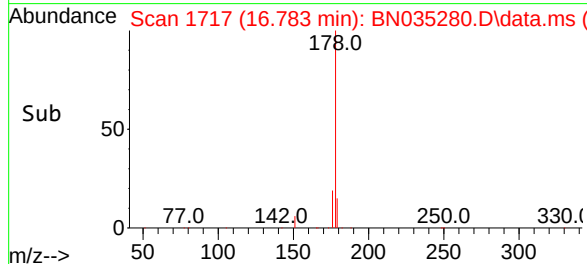
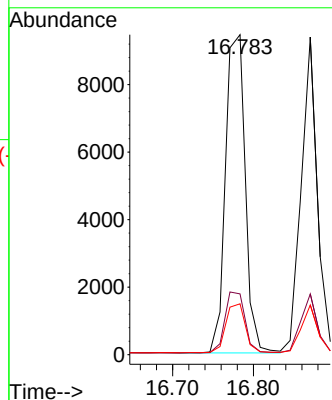
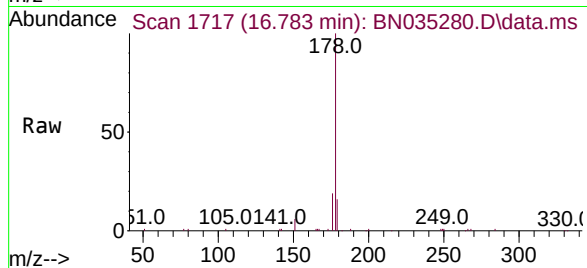




#25
Phenanthrene
Concen: 0.883 ng
RT: 16.783 min Scan# 1717
Delta R.T. -0.000 min
Lab File: BN035280.D
Acq: 25 Nov 2024 12:04

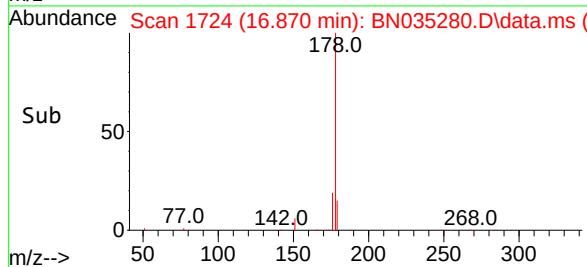
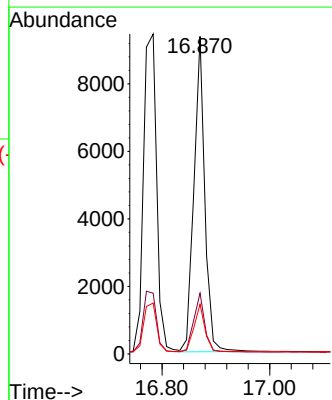
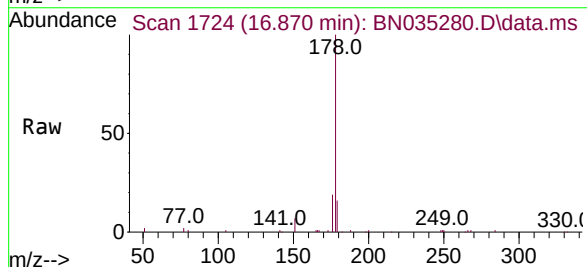
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

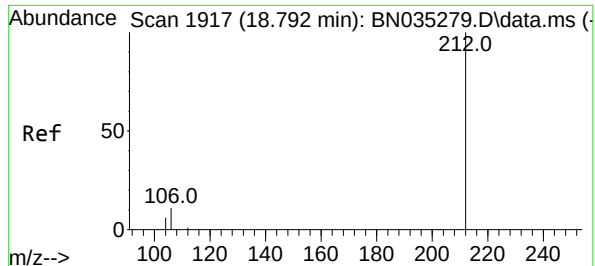
Tgt Ion:178 Resp: 16001
Ion Ratio Lower Upper
178 100
176 19.4 15.4 23.0
179 15.3 12.6 18.8



#26
Anthracene
Concen: 0.789 ng
RT: 16.870 min Scan# 1724
Delta R.T. -0.000 min
Lab File: BN035280.D
Acq: 25 Nov 2024 12:04

Tgt Ion:178 Resp: 13123
Ion Ratio Lower Upper
178 100
176 19.1 15.0 22.4
179 15.2 12.4 18.6





#27

Fluoranthene-d10

Concen: 0.651 ng

RT: 18.792 min Scan# 1917

Delta R.T. -0.000 min

Lab File: BN035280.D

Acq: 25 Nov 2024 12:04

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

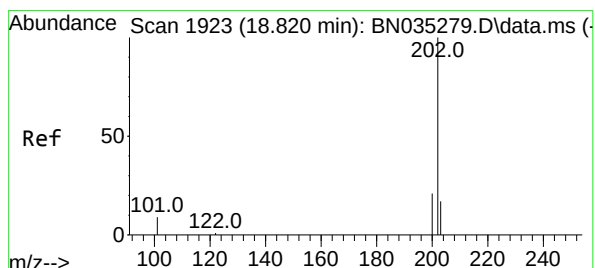
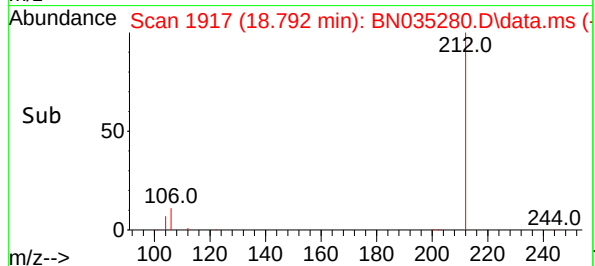
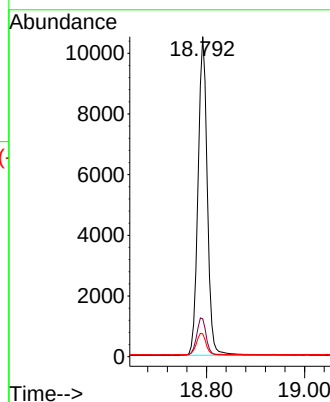
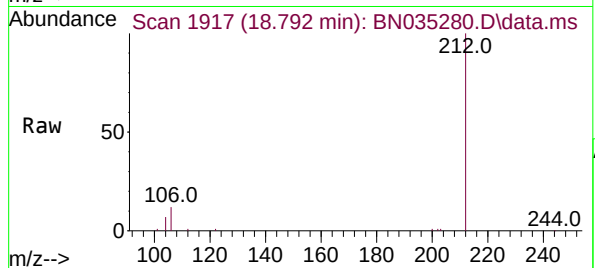
Tgt Ion:212 Resp: 13734

Ion Ratio Lower Upper

212 100

106 12.1 9.8 14.8

104 6.9 5.6 8.4



#28

Fluoranthene

Concen: 0.803 ng

RT: 18.820 min Scan# 1923

Delta R.T. -0.000 min

Lab File: BN035280.D

Acq: 25 Nov 2024 12:04

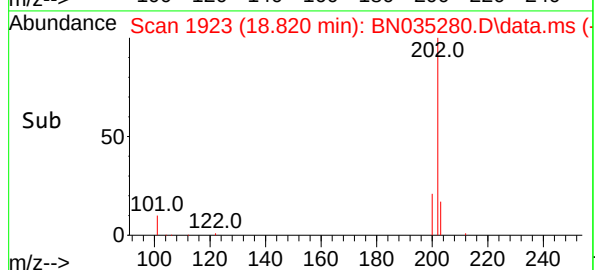
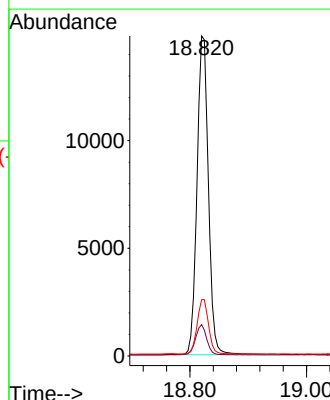
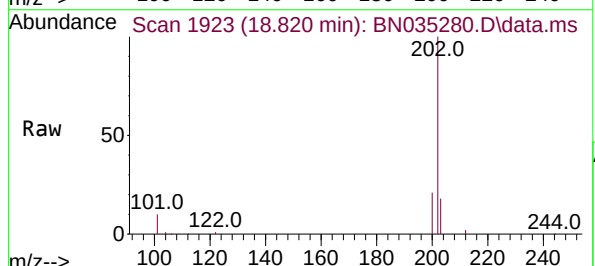
Tgt Ion:202 Resp: 20007

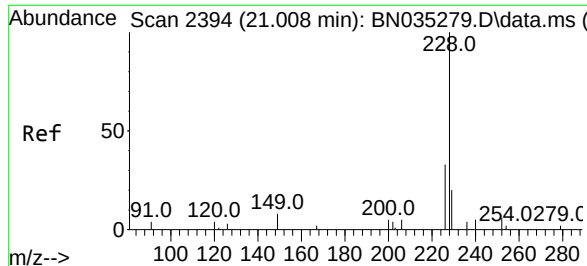
Ion Ratio Lower Upper

202 100

101 9.4 7.6 11.4

203 17.1 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.008 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035280.D

Acq: 25 Nov 2024 12:04

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

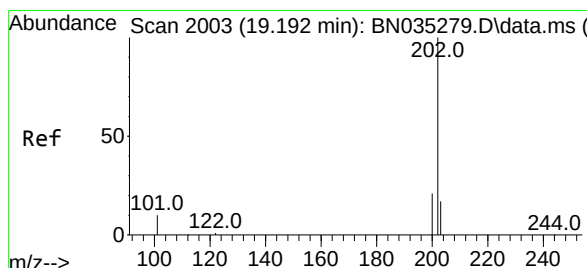
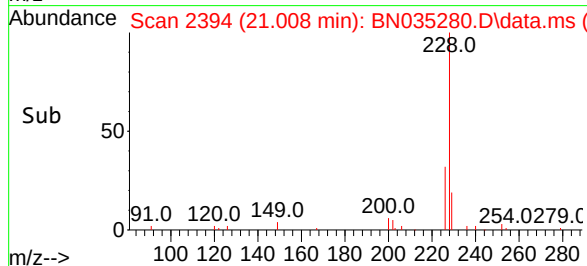
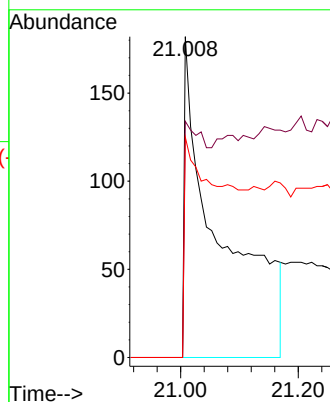
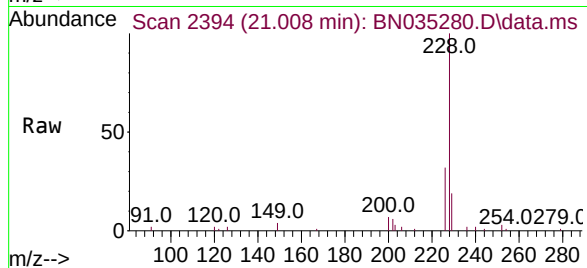
Tgt Ion:240 Resp: 725

Ion Ratio Lower Upper

240 100

120 73.6 54.9 82.3

236 68.7 54.0 81.0



#30

Pyrene

Concen: 7.635 ng

RT: 19.192 min Scan# 2003

Delta R.T. -0.000 min

Lab File: BN035280.D

Acq: 25 Nov 2024 12:04

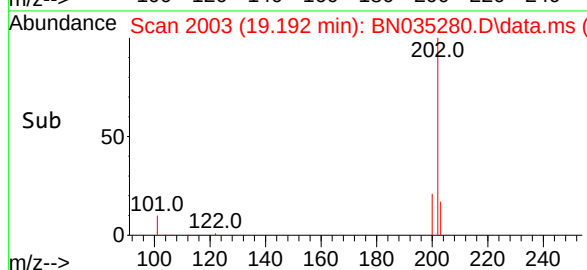
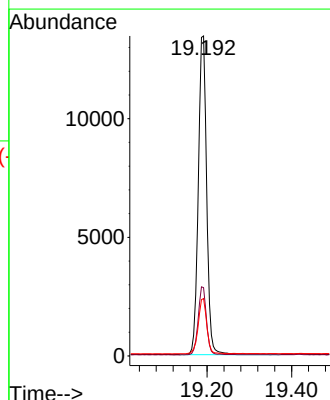
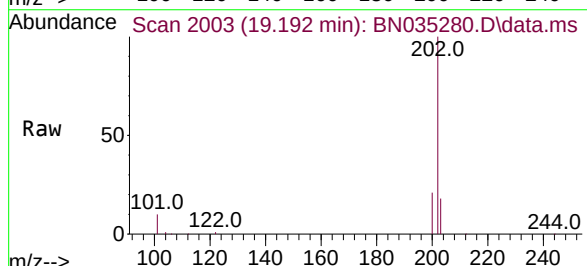
Tgt Ion:202 Resp: 18434

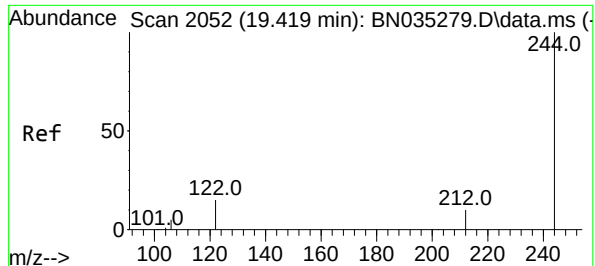
Ion Ratio Lower Upper

202 100

200 21.2 16.8 25.2

203 17.6 14.4 21.6

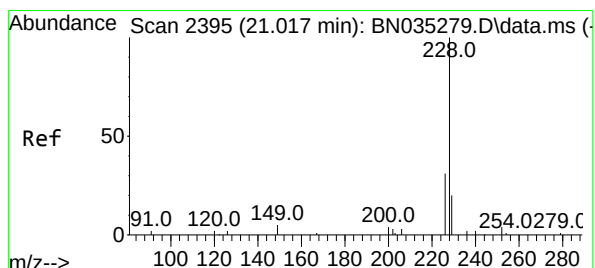
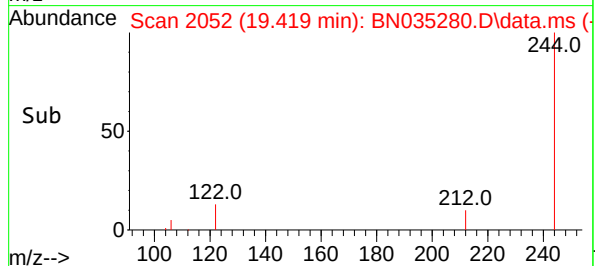
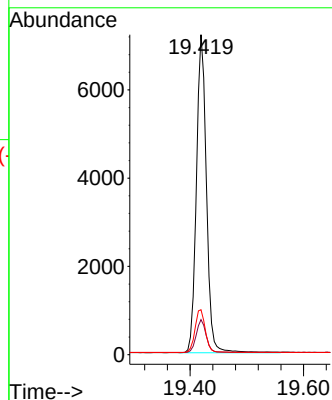
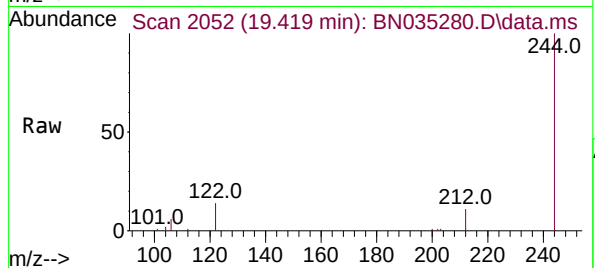




#31
Terphenyl-d14
Concen: 5.792 ng
RT: 19.419 min Scan# 2052
Delta R.T. -0.000 min
Lab File: BN035280.D
Acq: 25 Nov 2024 12:04

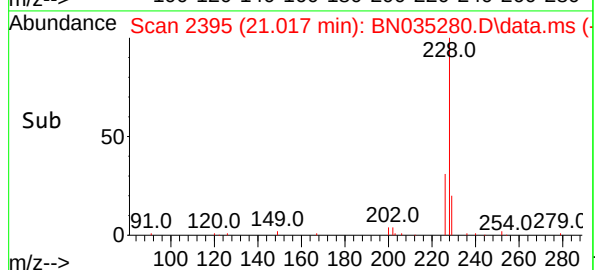
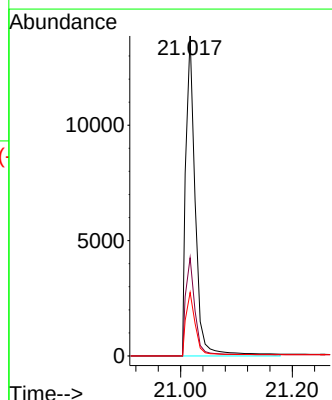
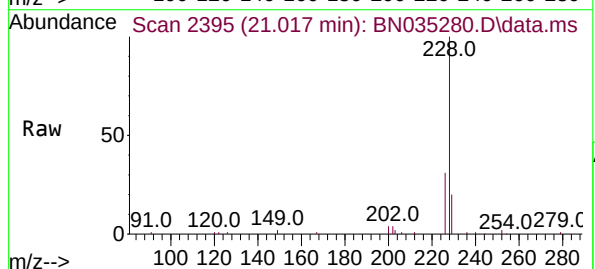
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

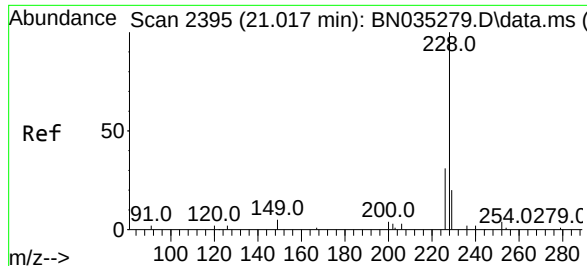
Tgt Ion:244 Resp: 8811
Ion Ratio Lower Upper
244 100
212 10.9 9.4 14.0
122 14.1 13.0 19.4



#32
Benzo(a)anthracene
Concen: 6.606 ng
RT: 21.017 min Scan# 2395
Delta R.T. -0.000 min
Lab File: BN035280.D
Acq: 25 Nov 2024 12:04

Tgt Ion:228 Resp: 16677
Ion Ratio Lower Upper
228 100
226 30.7 24.7 37.1
229 19.9 16.2 24.2





#33

Chrysene

Concen: 6.669 ng

RT: 21.017 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035280.D

Acq: 25 Nov 2024 12:04

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

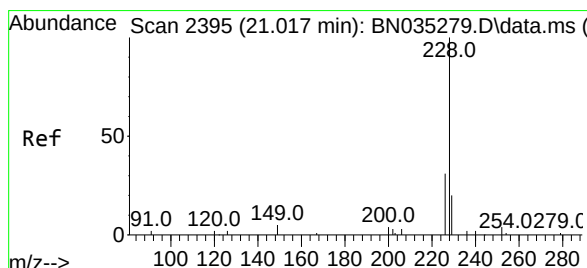
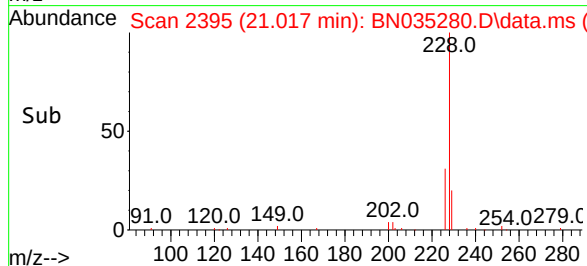
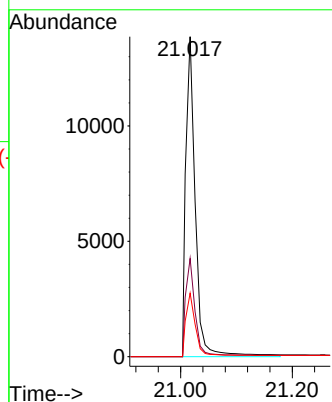
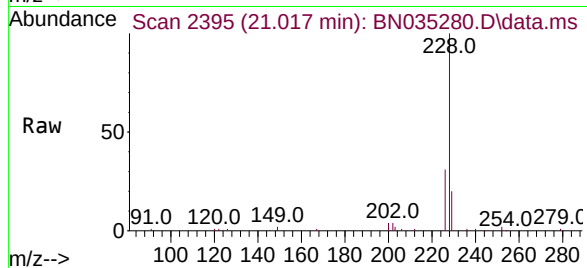
Tgt Ion:228 Resp: 16677

Ion Ratio Lower Upper

228 100

226 30.7 24.7 37.1

229 19.9 16.2 24.2



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.553 ng

RT: 21.008 min Scan# 2394

Delta R.T. -0.009 min

Lab File: BN035280.D

Acq: 25 Nov 2024 12:04

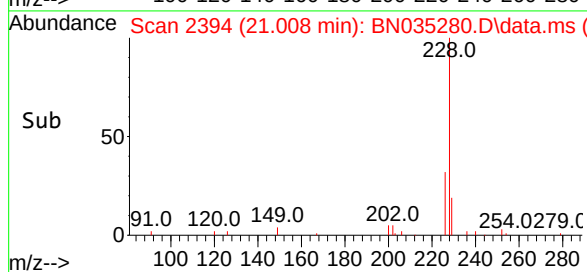
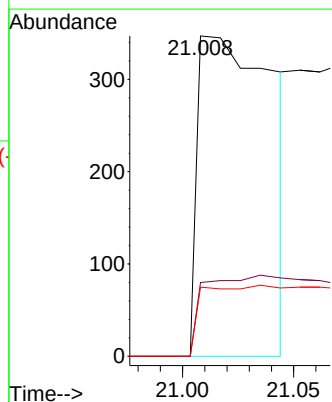
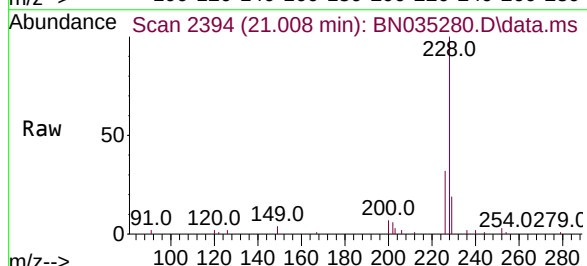
Tgt Ion:149 Resp: 733

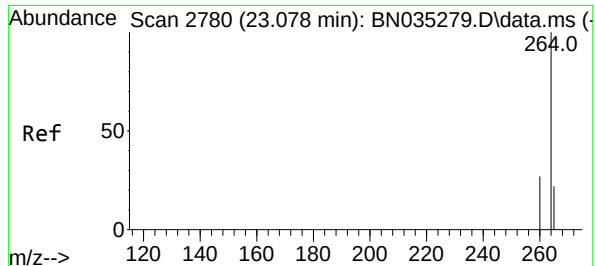
Ion Ratio Lower Upper

149 100

167 0.0 0.0 0.0

279 0.0 13.0 19.6#

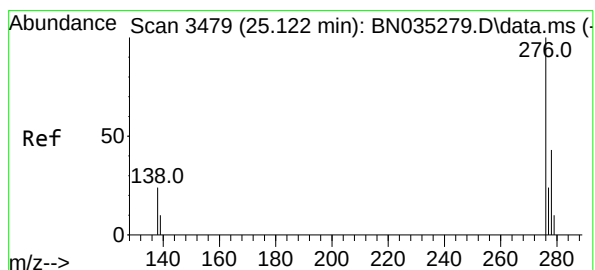
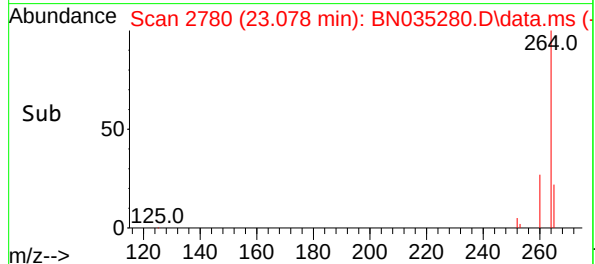
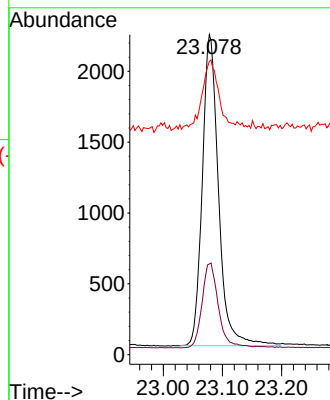
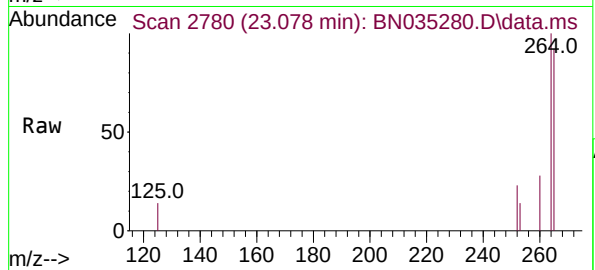




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.078 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN035280.D
Acq: 25 Nov 2024 12:04

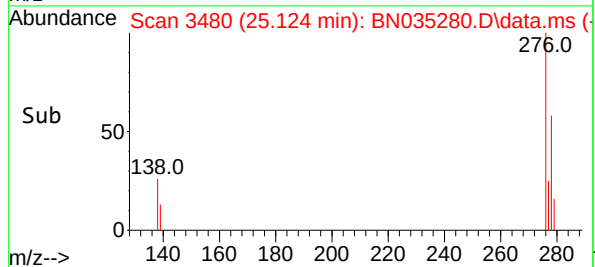
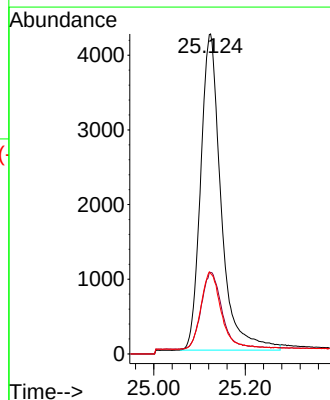
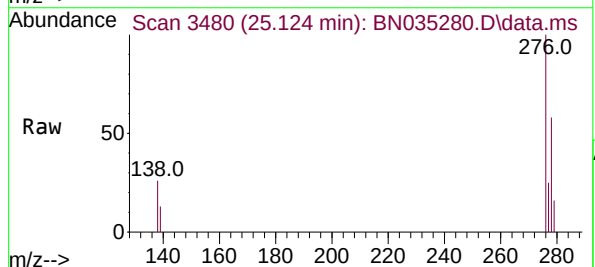
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

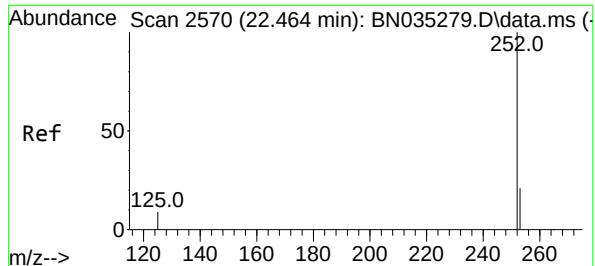
Tgt Ion:264 Resp: 4193
Ion Ratio Lower Upper
264 100
260 28.3 22.3 33.5
265 91.6 68.6 103.0



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.789 ng
RT: 25.124 min Scan# 3480
Delta R.T. 0.003 min
Lab File: BN035280.D
Acq: 25 Nov 2024 12:04

Tgt Ion:276 Resp: 13203
Ion Ratio Lower Upper
276 100
138 23.8 18.8 28.2
277 23.7 18.2 27.4





#37

Benzo(b)fluoranthene

Concen: 1.019 ng

RT: 22.464 min Scan# 2570

Delta R.T. -0.000 min

Lab File: BN035280.D

Acq: 25 Nov 2024 12:04

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

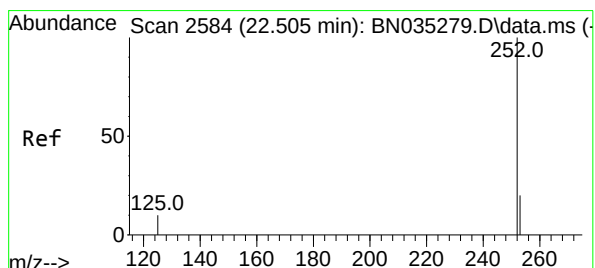
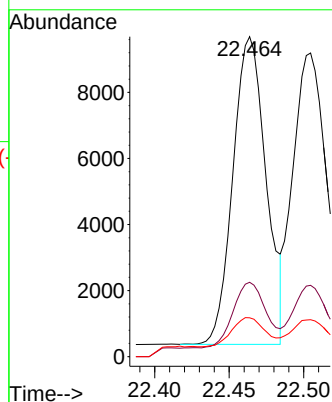
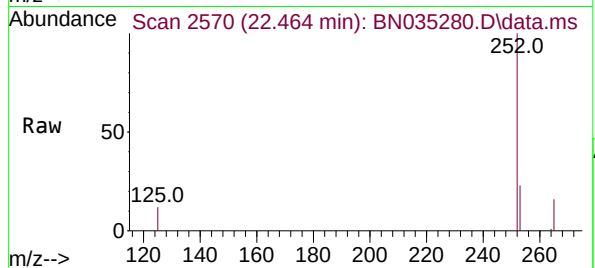
Tgt Ion:252 Resp: 14372

Ion Ratio Lower Upper

252 100

253 23.3 20.2 30.2

125 12.2 12.0 18.0



#38

Benzo(k)fluoranthene

Concen: 1.067 ng

RT: 22.505 min Scan# 2584

Delta R.T. -0.000 min

Lab File: BN035280.D

Acq: 25 Nov 2024 12:04

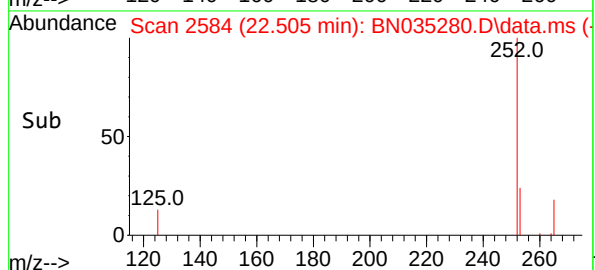
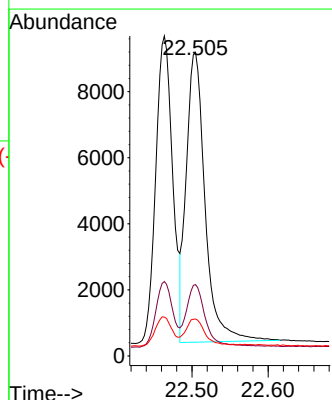
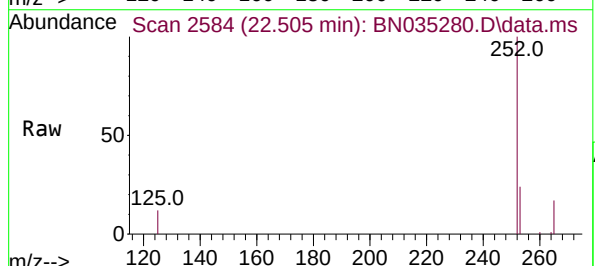
Tgt Ion:252 Resp: 15061

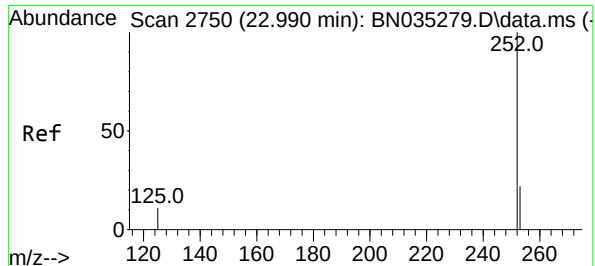
Ion Ratio Lower Upper

252 100

253 23.5 20.1 30.1

125 12.2 12.7 19.1#





#39

Benzo(a)pyrene

Concen: 0.876 ng

RT: 22.987 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN035280.D

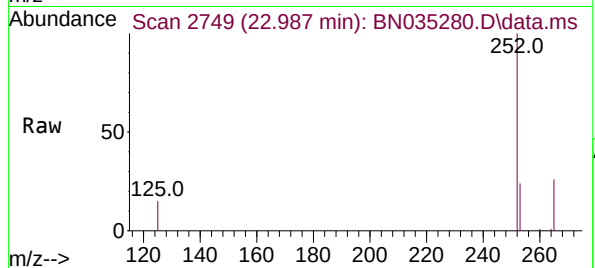
Acq: 25 Nov 2024 12:04

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



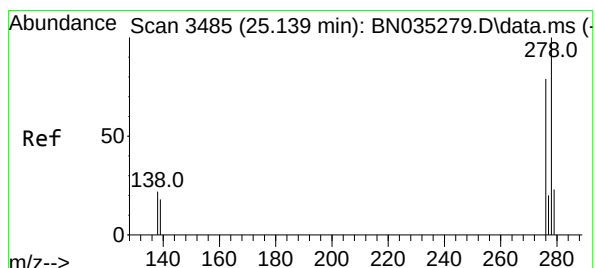
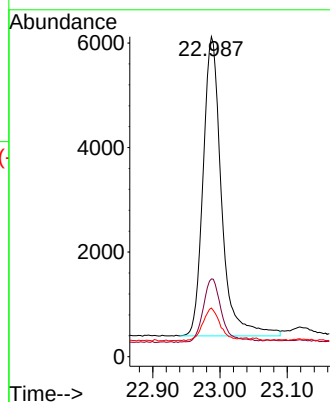
Tgt Ion:252 Resp: 10876

Ion Ratio Lower Upper

252 100

253 24.3 22.3 33.5

125 15.2 15.3 22.9#



#40

Dibenzo(a,h)anthracene

Concen: 0.760 ng

RT: 25.139 min Scan# 3485

Delta R.T. -0.000 min

Lab File: BN035280.D

Acq: 25 Nov 2024 12:04

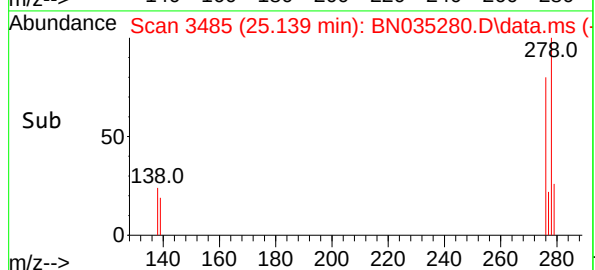
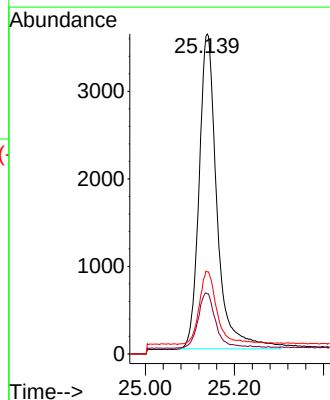
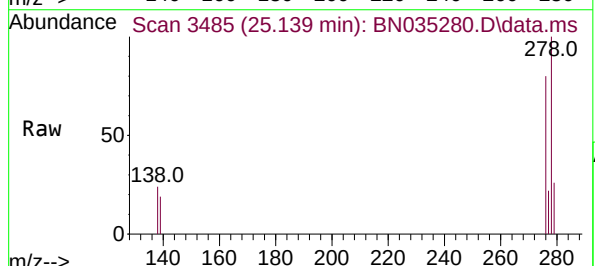
Tgt Ion:278 Resp: 10078

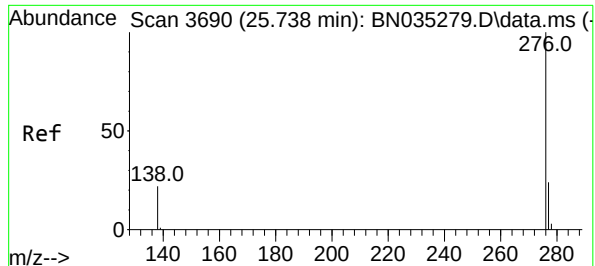
Ion Ratio Lower Upper

278 100

139 18.8 17.0 25.6

279 25.6 23.0 34.4





#41

Benzo(g,h,i)perylene

Concen: 0.840 ng

RT: 25.738 min Scan# 30

Delta R.T. -0.000 min

Lab File: BN035280.D

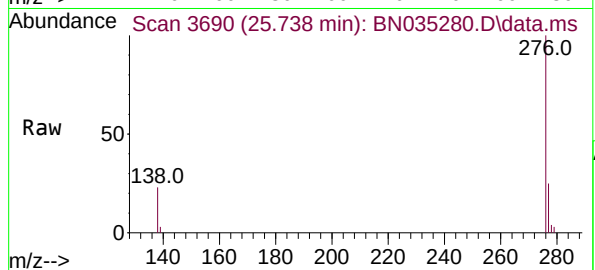
Acq: 25 Nov 2024 12:04

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



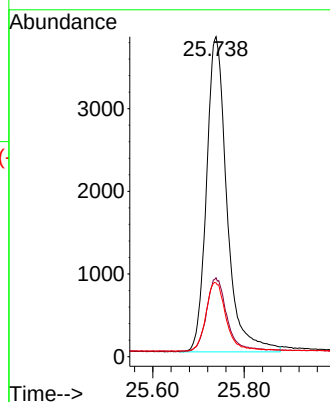
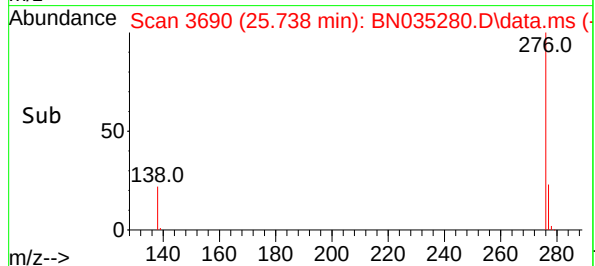
Tgt Ion:276 Resp: 11838

Ion Ratio Lower Upper

276 100

277 24.7 21.1 31.7

138 23.0 19.8 29.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
 Data File : BN035281.D
 Acq On : 25 Nov 2024 12:40
 Operator : RC/JU
 Sample : SSTDICC1.6
 Misc :
 ALS Vial : 56 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC1.6

Quant Time: Nov 25 14:20:11 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Nov 25 14:16:35 2024
 Response via : Initial Calibration

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

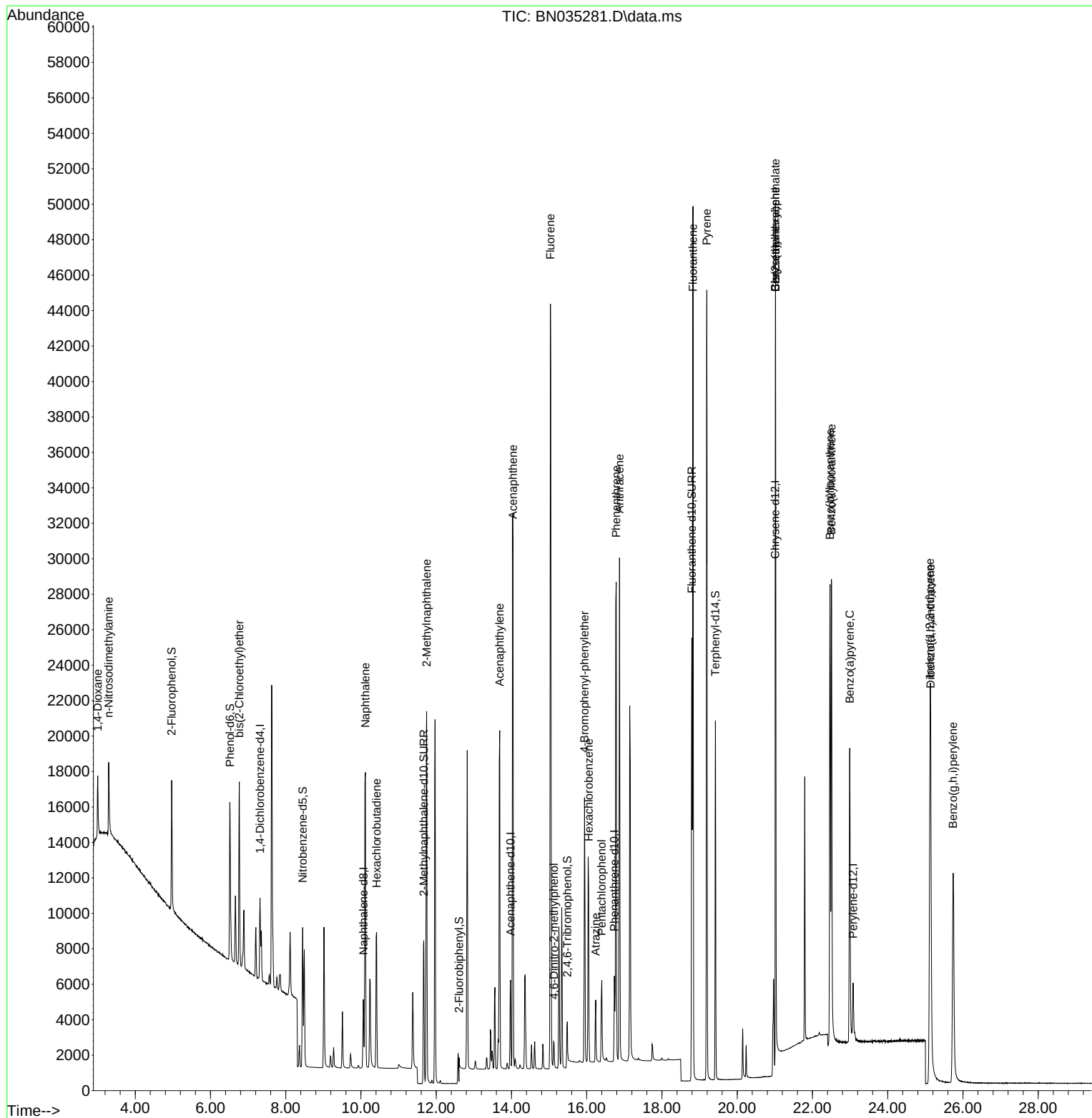
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.315	152	2108	0.400	ng	0.00
7) Naphthalene-d8	10.063	136	4875	0.400	ng	0.00
13) Acenaphthene-d10	13.976	164	2647	0.400	ng	0.00
19) Phenanthrene-d10	16.734	188	6226	0.400	ng	0.00
29) Chrysene-d12	21.008	240	542	0.400	ng	0.00
35) Perylene-d12	23.081	264	3989	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.968	112	6152	1.150	ng	0.00
5) Phenol-d6	6.520	99	8647	1.289	ng	0.00
8) Nitrobenzene-d5	8.450	82	6940	1.635	ng	0.00
11) 2-Methylnaphthalene-d10	11.666	152	11029	1.270	ng	0.00
14) 2,4,6-Tribromophenol	15.484	330	2250	1.178	ng	0.00
15) 2-Fluorobiphenyl	12.608	172	871	0.081	ng	0.00
27) Fluoranthene-d10	18.792	212	27881	1.462	ng	0.00
31) Terphenyl-d14	19.419	244	18679	16.424	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.003	88	2397	1.252	ng	# 80
3) n-Nitrosodimethylamine	3.292	42	2641	1.480	ng	# 81
6) bis(2-Chloroethyl)ether	6.766	93	7711	1.531	ng	99
9) Naphthalene	10.116	128	22419	1.761	ng	98
10) Hexachlorobutadiene	10.415	225	6605	1.770	ng	# 99
12) 2-Methylnaphthalene	11.742	142	14579	1.553	ng	98
16) Acenaphthylene	13.688	152	22416	1.982	ng	99
17) Acenaphthene	14.040	154	14198	1.915	ng	100
18) Fluorene	15.035	166	20193	1.852	ng	99
20) 4,6-Dinitro-2-methylph...	15.131	198	1188	0.917	ng	# 56
21) 4-Bromophenyl-phenylether	15.939	248	6288	1.585	ng	98
22) Hexachlorobenzene	16.051	284	9730	2.364	ng	99
23) Atrazine	16.237	200	2833	0.796	ng	# 93
24) Pentachlorophenol	16.399	266	2413	1.255	ng	97
25) Phenanthrene	16.783	178	31649	1.932	ng	99
26) Anthracene	16.870	178	27397	1.820	ng	99
28) Fluoranthene	18.825	202	43133	1.914	ng	99
30) Pyrene	19.192	202	38572	21.370	ng	99
32) Benzo(a)anthracene	21.017	228	35573	18.849	ng	99
33) Chrysene	21.017	228	35573	19.028	ng	99
34) Bis(2-ethylhexyl)phtha...	21.017	149	946	0.955	ng	# 62
36) Indeno(1,2,3-cd)pyrene	25.124	276	27825	1.749	ng	97
37) Benzo(b)fluoranthene	22.467	252	29950	2.232	ng	# 93
38) Benzo(k)fluoranthene	22.505	252	32689	2.434	ng	# 92
39) Benzo(a)pyrene	22.990	252	22785	1.929	ng	# 88
40) Dibenzo(a,h)anthracene	25.142	278	21588	1.712	ng	92
41) Benzo(g,h,i)perylene	25.738	276	24058	1.794	ng	95

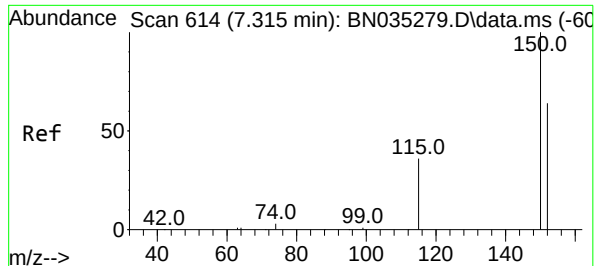
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN035281.D
Acq On : 25 Nov 2024 12:40
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 56 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Nov 25 14:20:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 25 14:16:35 2024
Response via : Initial Calibration

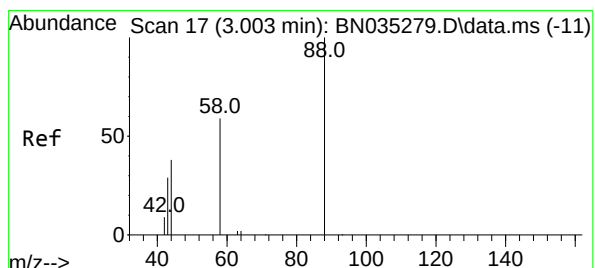
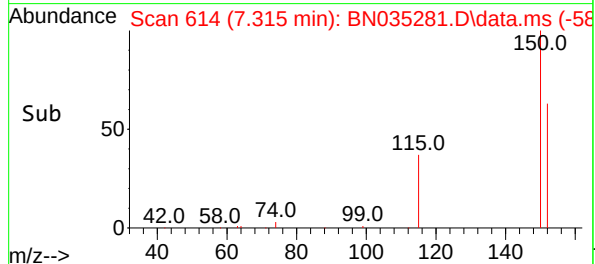
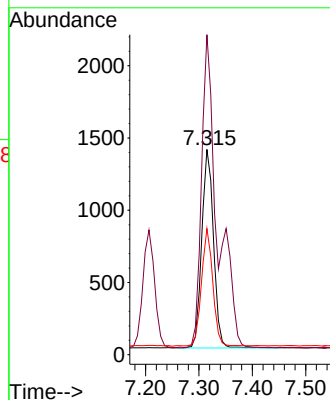
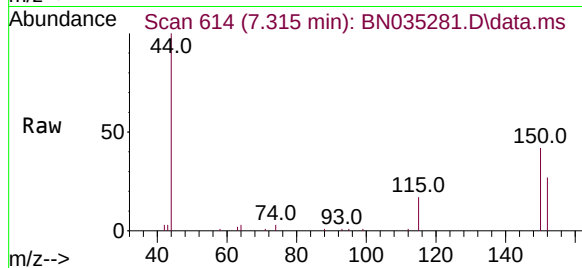




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.315 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035281.D
Acq: 25 Nov 2024 12:40

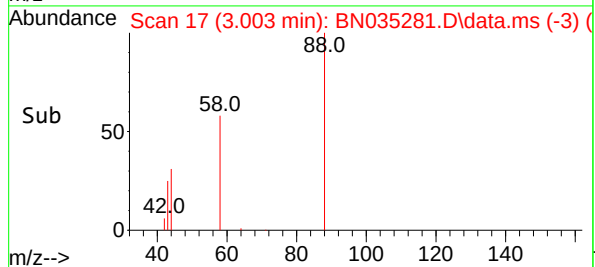
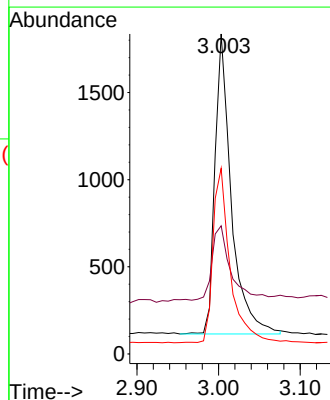
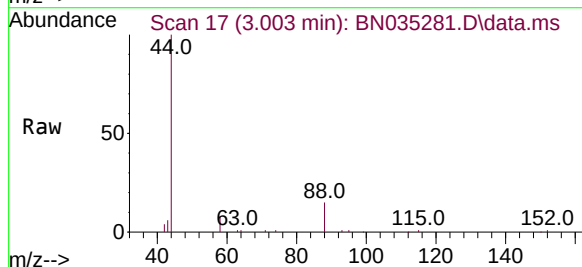
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

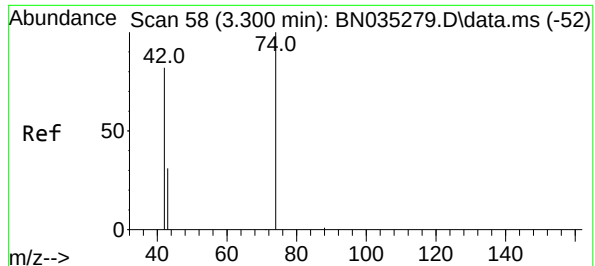
Tgt Ion:152 Resp: 2108
Ion Ratio Lower Upper
152 100
150 155.9 124.5 186.7
115 61.4 47.8 71.8



#2
1,4-Dioxane
Concen: 1.252 ng
RT: 3.003 min Scan# 17
Delta R.T. -0.000 min
Lab File: BN035281.D
Acq: 25 Nov 2024 12:40

Tgt Ion: 88 Resp: 2397
Ion Ratio Lower Upper
88 100
43 32.7 48.1 72.1#
58 61.1 46.9 70.3

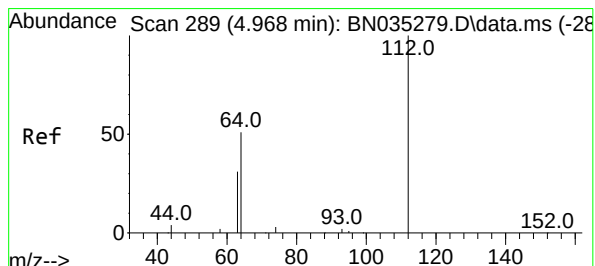
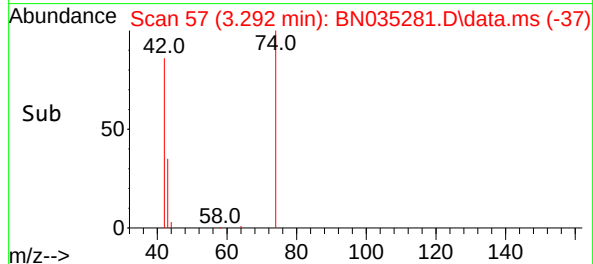
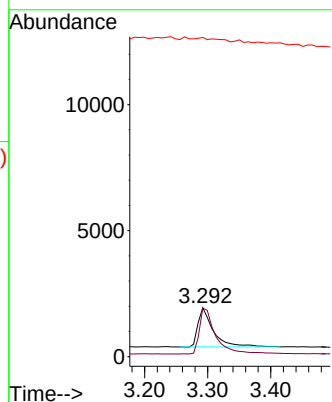
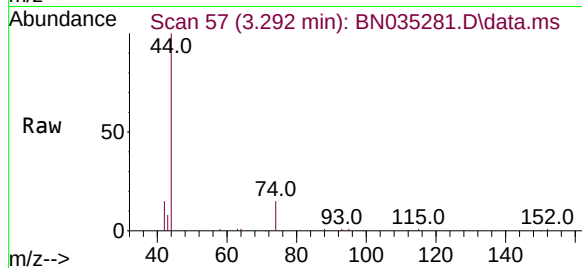




#3
n-Nitrosodimethylamine
Concen: 1.480 ng
RT: 3.292 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN035281.D
Acq: 25 Nov 2024 12:40

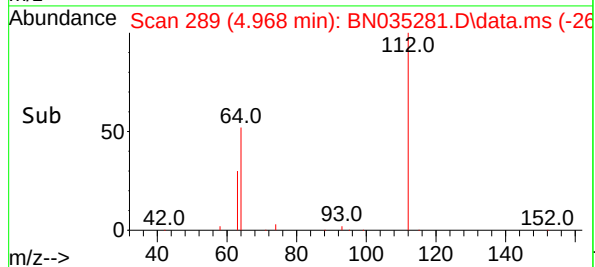
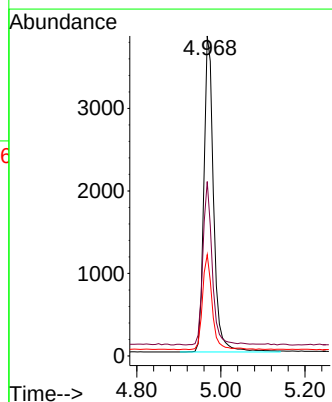
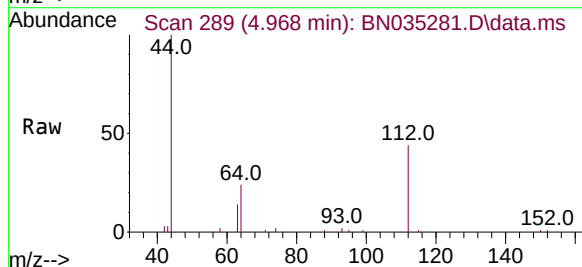
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

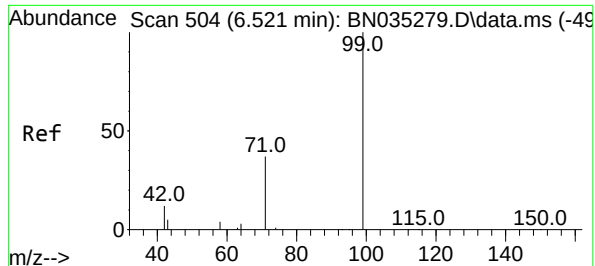
Tgt Ion: 42 Resp: 2641
Ion Ratio Lower Upper
42 100
74 124.1 102.7 154.1
44 0.0 34.1 51.1#



#4
2-Fluorophenol
Concen: 1.150 ng
RT: 4.968 min Scan# 289
Delta R.T. -0.000 min
Lab File: BN035281.D
Acq: 25 Nov 2024 12:40

Tgt Ion: 112 Resp: 6152
Ion Ratio Lower Upper
112 100
64 49.1 40.4 60.6
63 29.1 23.8 35.8

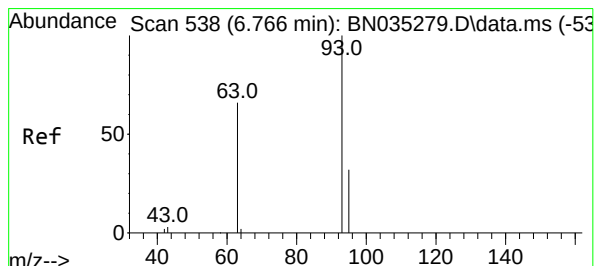
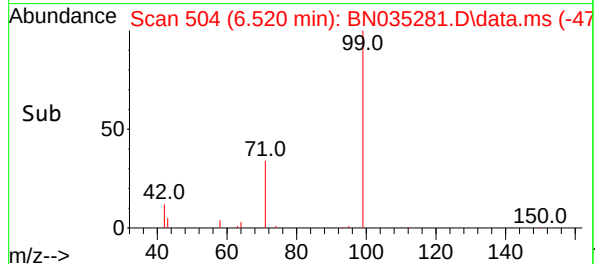
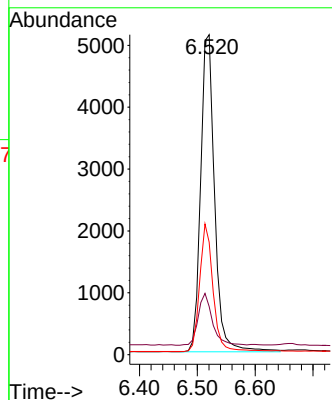
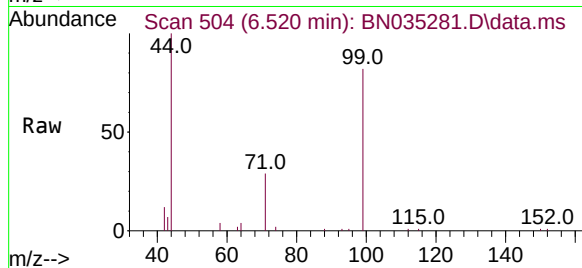




#5
Phenol-d6
Concen: 1.289 ng
RT: 6.520 min Scan# 504
Delta R.T. -0.000 min
Lab File: BN035281.D
Acq: 25 Nov 2024 12:40

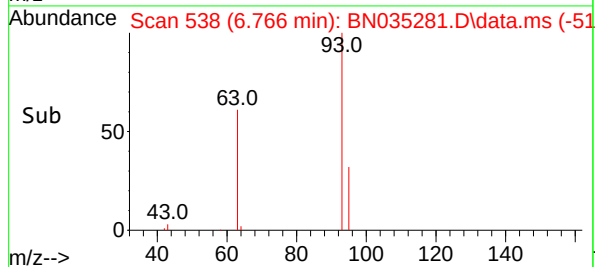
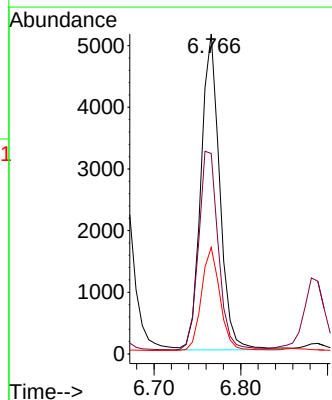
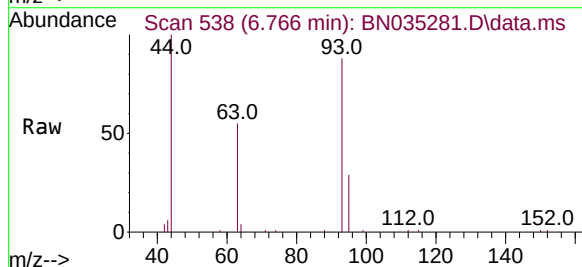
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

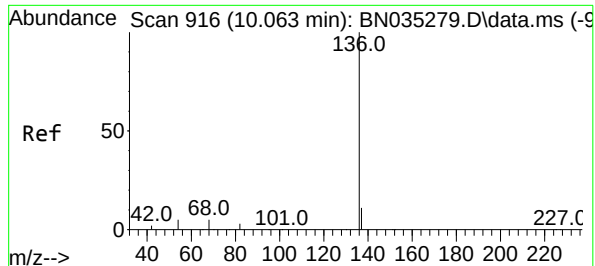
Tgt Ion: 99 Resp: 8647
Ion Ratio Lower Upper
99 100
42 16.6 12.8 19.2
71 38.4 31.4 47.2



#6
bis(2-Chloroethyl)ether
Concen: 1.531 ng
RT: 6.766 min Scan# 538
Delta R.T. -0.000 min
Lab File: BN035281.D
Acq: 25 Nov 2024 12:40

Tgt Ion: 93 Resp: 7711
Ion Ratio Lower Upper
93 100
63 66.1 52.3 78.5
95 32.1 25.5 38.3

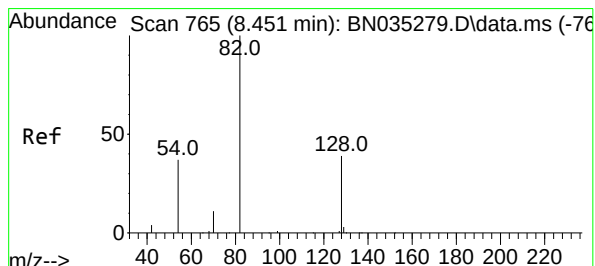
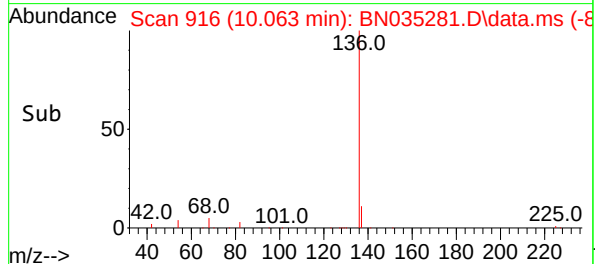
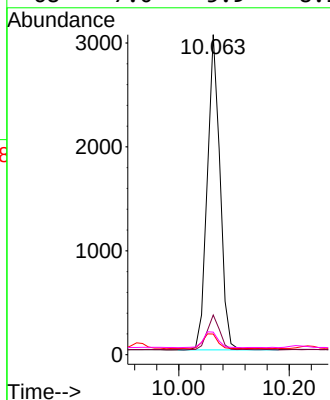
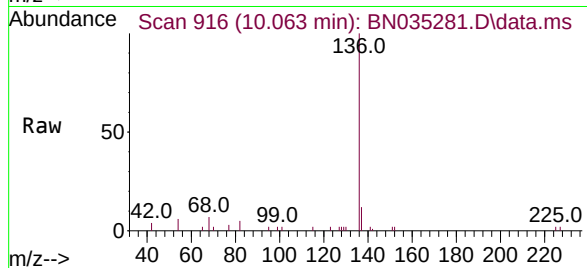




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.063 min Scan# 916
Delta R.T. -0.000 min
Lab File: BN035281.D
Acq: 25 Nov 2024 12:40

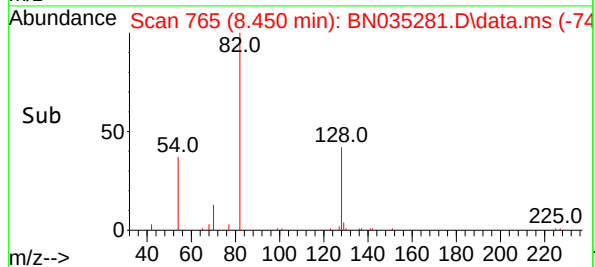
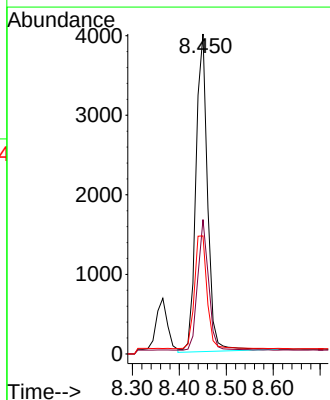
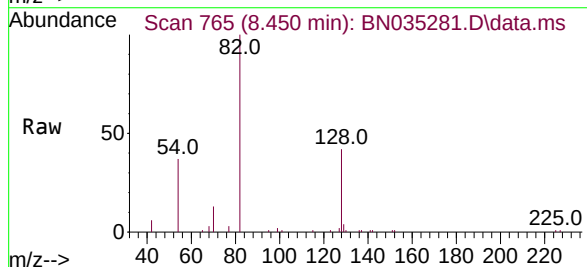
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

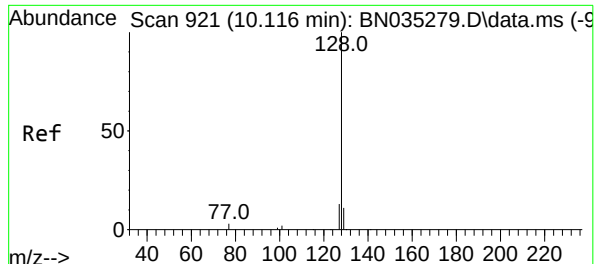
Tgt Ion:	136	Resp:	4875
Ion	Ratio	Lower	Upper
136	100		
137	12.4	9.7	14.5
54	6.5	5.3	7.9
68	7.0	5.9	8.9



#8
Nitrobenzene-d5
Concen: 1.635 ng
RT: 8.450 min Scan# 765
Delta R.T. -0.000 min
Lab File: BN035281.D
Acq: 25 Nov 2024 12:40

Tgt Ion:	82	Resp:	6940
Ion	Ratio	Lower	Upper
82	100		
128	42.0	33.0	49.4
54	36.9	33.3	49.9





#9
Naphthalene

Concen: 1.761 ng

RT: 10.116 min Scan# 91

Delta R.T. -0.000 min

Lab File: BN035281.D

Acq: 25 Nov 2024 12:40

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

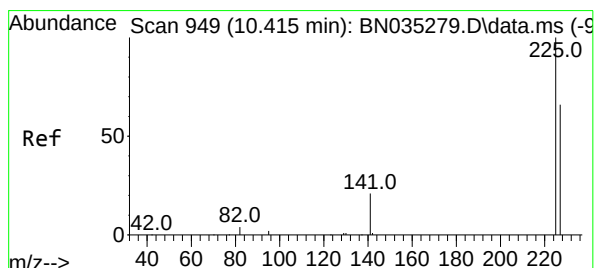
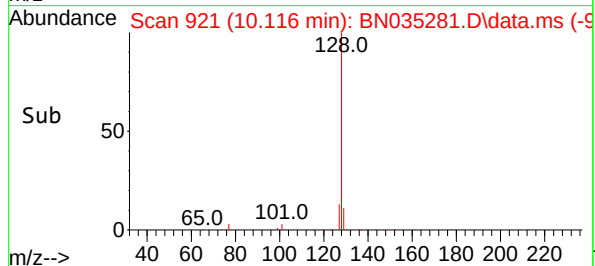
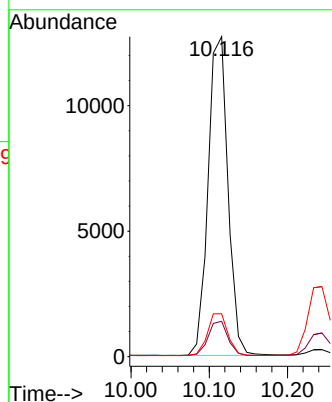
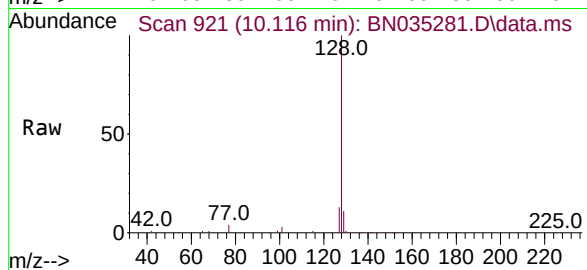
Tgt Ion:128 Resp: 22419

Ion	Ratio	Lower	Upper

128	100		

129	11.1	9.6	14.4

127	13.4	11.3	16.9



#10

Hexachlorobutadiene

Concen: 1.770 ng

RT: 10.415 min Scan# 949

Delta R.T. -0.000 min

Lab File: BN035281.D

Acq: 25 Nov 2024 12:40

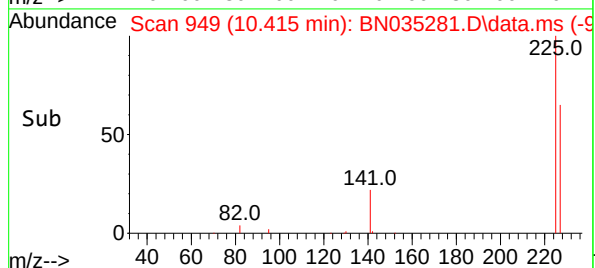
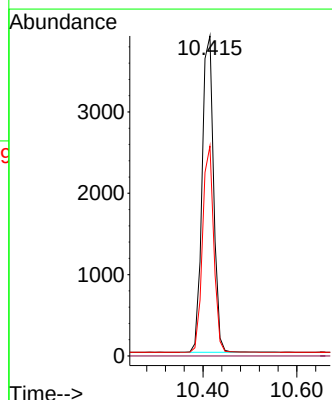
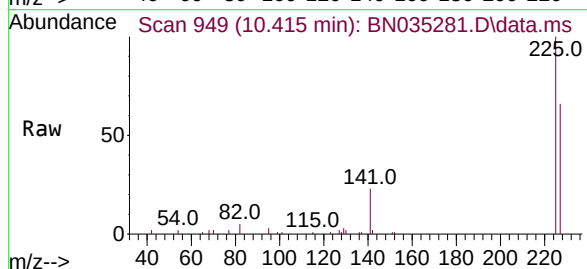
Tgt Ion:225 Resp: 6605

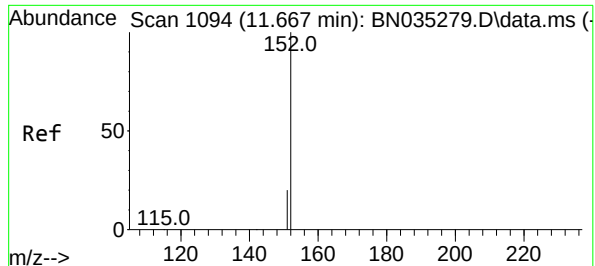
Ion	Ratio	Lower	Upper

225	100		

223	0.0	0.0	0.0

227	63.7	51.3	76.9

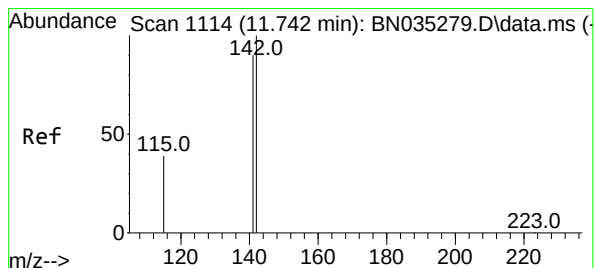
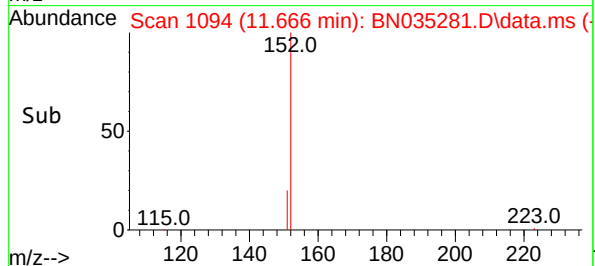
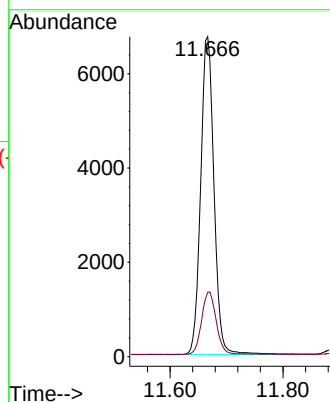
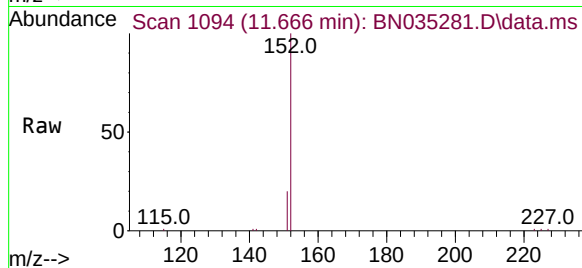




#11
2-Methylnaphthalene-d10
Concen: 1.270 ng
RT: 11.666 min Scan# 11029
Delta R.T. -0.000 min
Lab File: BN035281.D
Acq: 25 Nov 2024 12:40

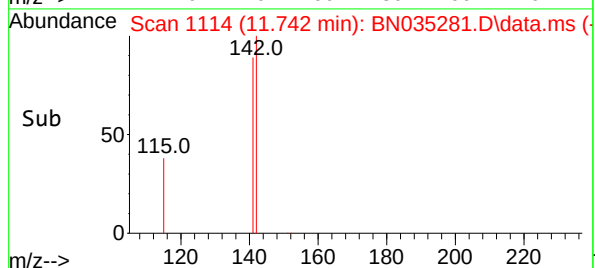
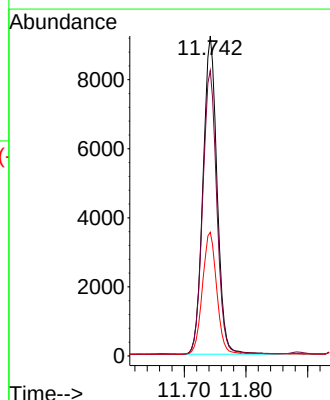
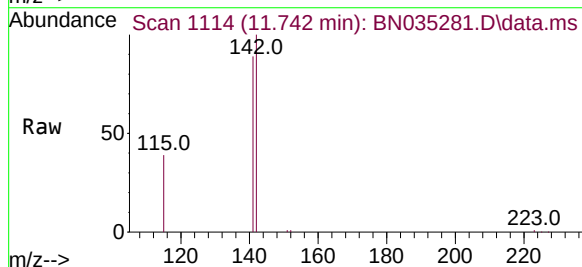
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

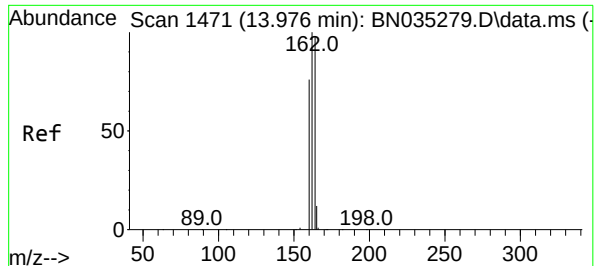
Tgt Ion:152 Resp: 11029
Ion Ratio Lower Upper
152 100
151 21.6 17.2 25.8



#12
2-Methylnaphthalene
Concen: 1.553 ng
RT: 11.742 min Scan# 1114
Delta R.T. -0.000 min
Lab File: BN035281.D
Acq: 25 Nov 2024 12:40

Tgt Ion:142 Resp: 14579
Ion Ratio Lower Upper
142 100
141 89.2 71.8 107.8
115 38.7 32.6 49.0

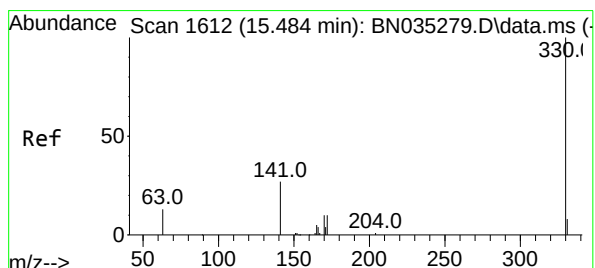
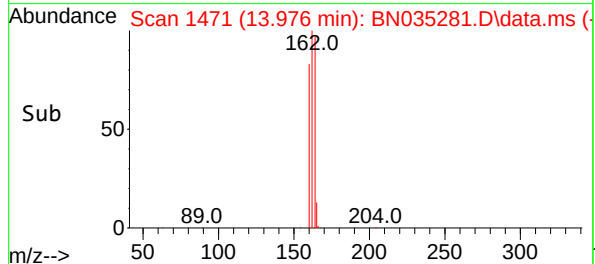
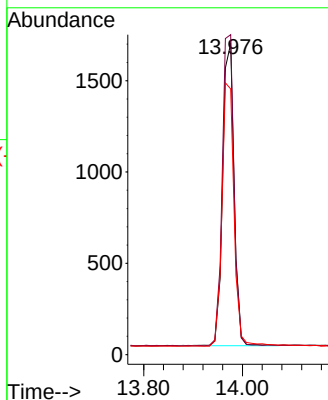
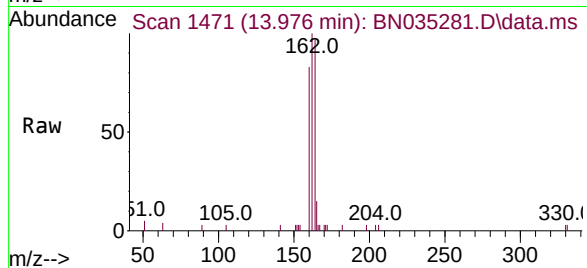




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.976 min Scan# 1471
Delta R.T. -0.000 min
Lab File: BN035281.D
Acq: 25 Nov 2024 12:40

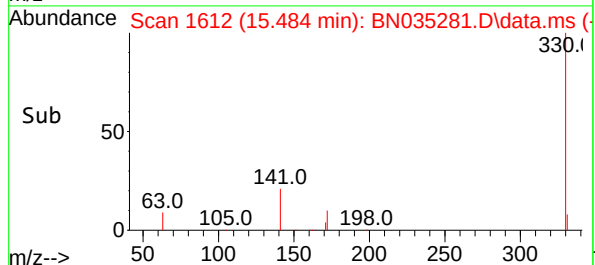
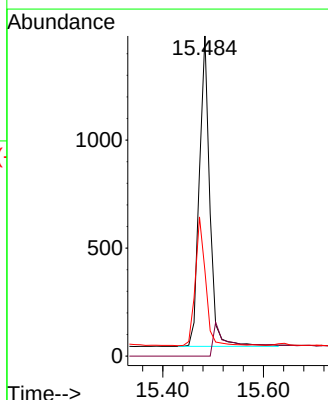
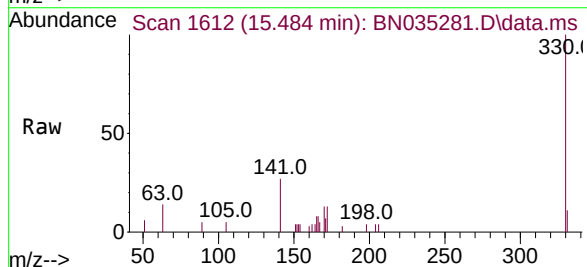
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

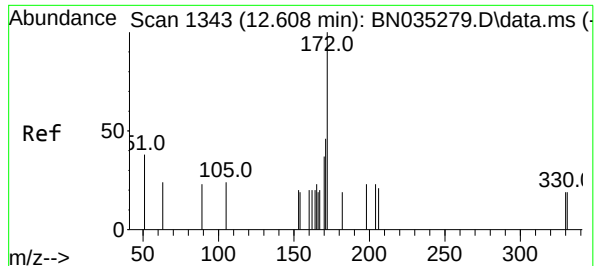
Tgt Ion:164 Resp: 2647
Ion Ratio Lower Upper
164 100
162 102.9 82.0 123.0
160 85.4 63.0 94.4



#14
2,4,6-Tribromophenol
Concen: 1.178 ng
RT: 15.484 min Scan# 1612
Delta R.T. -0.000 min
Lab File: BN035281.D
Acq: 25 Nov 2024 12:40

Tgt Ion:330 Resp: 2250
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 40.6 32.4 48.6

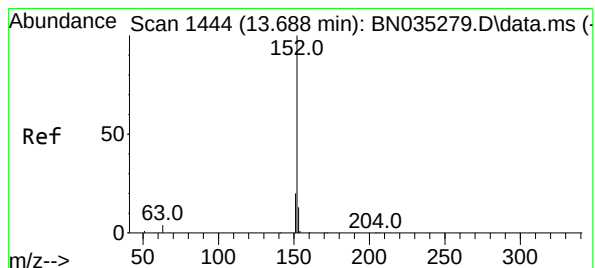
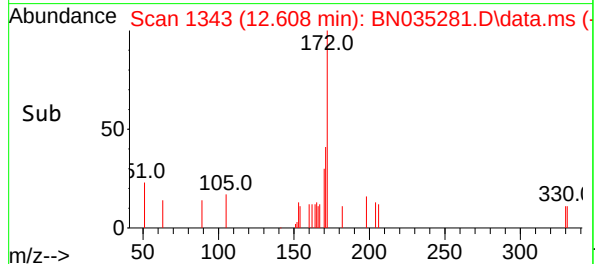
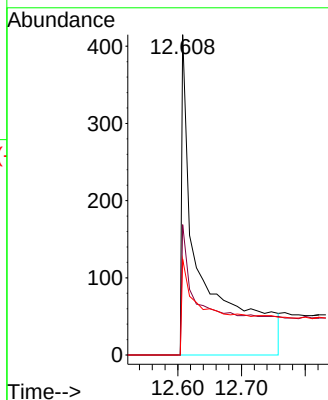
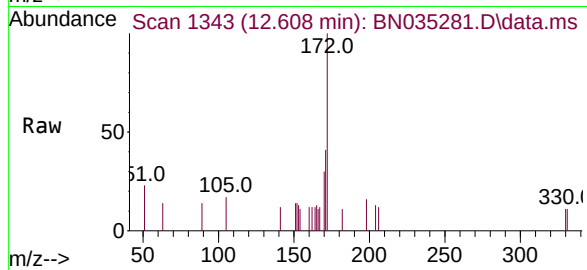




#15
2-Fluorobiphenyl
Concen: 0.081 ng
RT: 12.608 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN035281.D
Acq: 25 Nov 2024 12:40

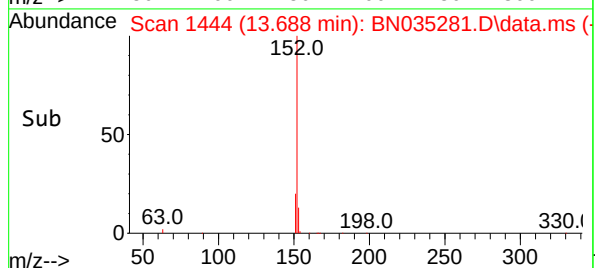
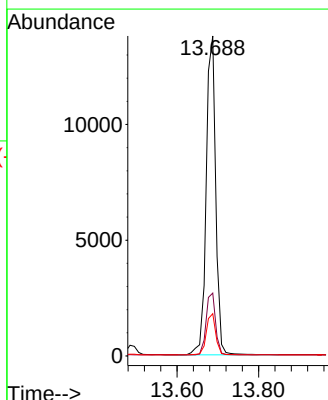
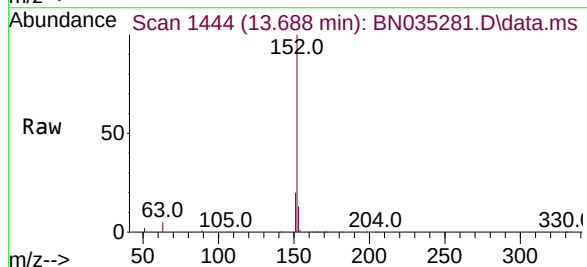
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

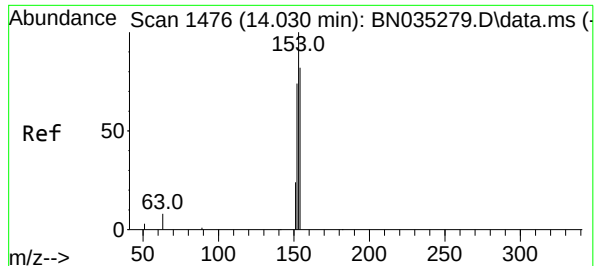
Tgt Ion	Ratio	Lower	Upper
172	100		
171	40.7	36.6	55.0
170	29.9	29.7	44.5



#16
Acenaphthylene
Concen: 1.982 ng
RT: 13.688 min Scan# 1444
Delta R.T. -0.000 min
Lab File: BN035281.D
Acq: 25 Nov 2024 12:40

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.3	15.9	23.9
153	12.9	10.2	15.4

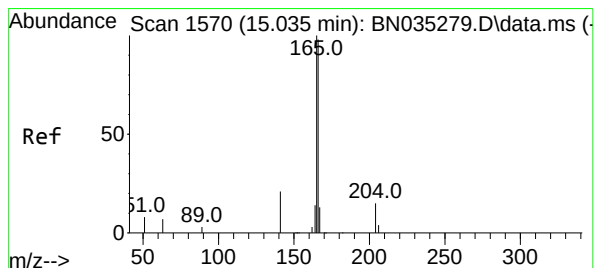
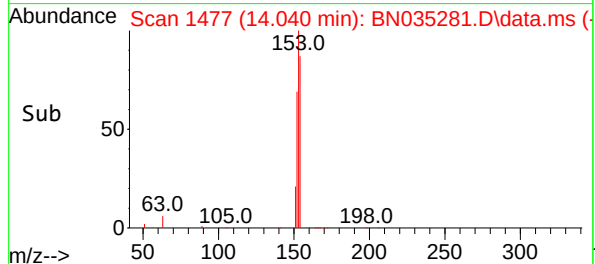
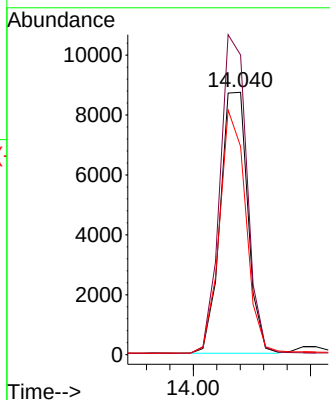
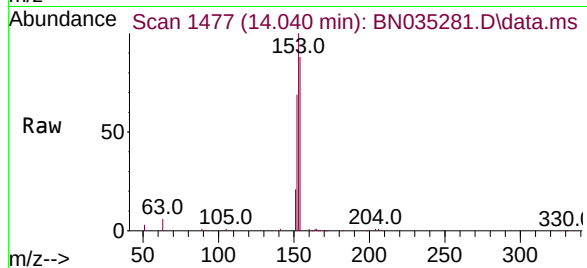




#17
Acenaphthene
Concen: 1.915 ng
RT: 14.040 min Scan# 1476
Delta R.T. 0.010 min
Lab File: BN035281.D
Acq: 25 Nov 2024 12:40

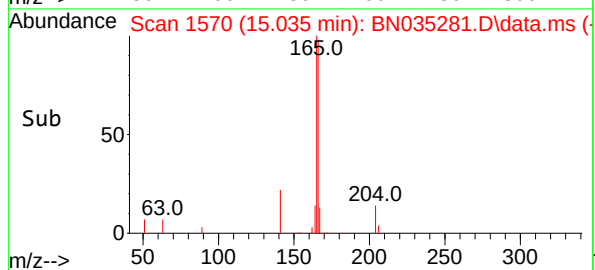
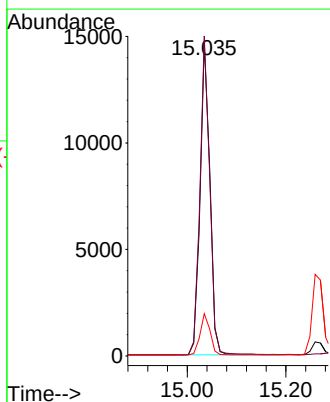
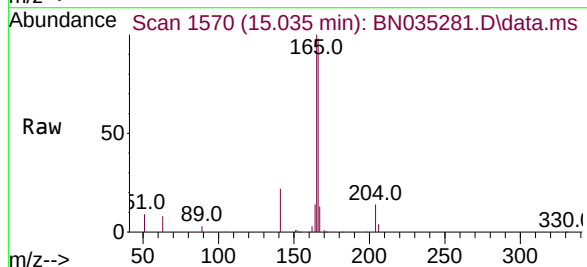
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

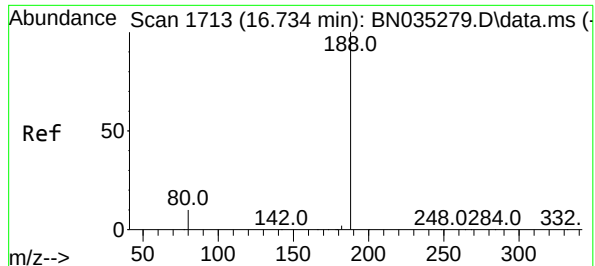
Tgt Ion:154 Resp: 14198
Ion Ratio Lower Upper
154 100
153 119.8 96.1 144.1
152 90.0 72.2 108.2



#18
Fluorene
Concen: 1.852 ng
RT: 15.035 min Scan# 1570
Delta R.T. -0.000 min
Lab File: BN035281.D
Acq: 25 Nov 2024 12:40

Tgt Ion:166 Resp: 20193
Ion Ratio Lower Upper
166 100
165 102.0 81.2 121.8
167 13.5 10.5 15.7





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.734 min Scan# 1713

Delta R.T. -0.000 min

Lab File: BN035281.D

Acq: 25 Nov 2024 12:40

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

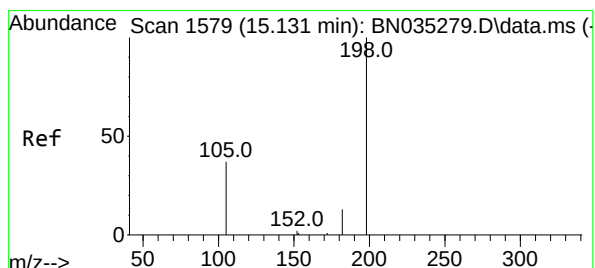
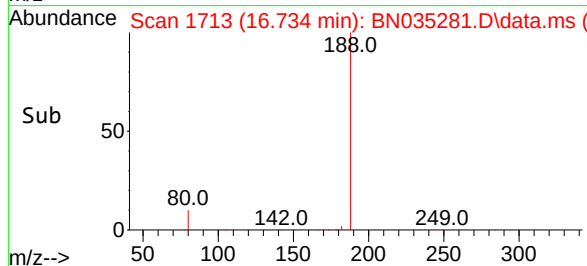
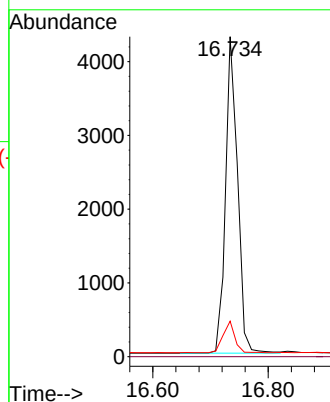
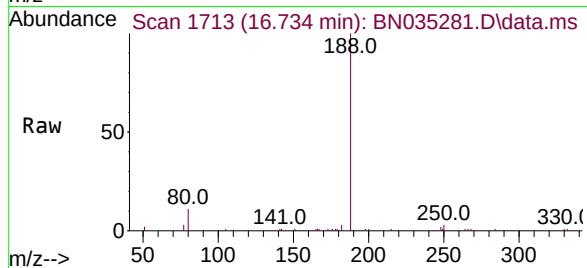
Tgt Ion:188 Resp: 6226

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.1 8.9 13.3



#20

4,6-Dinitro-2-methylphenol

Concen: 0.917 ng

RT: 15.131 min Scan# 1579

Delta R.T. -0.000 min

Lab File: BN035281.D

Acq: 25 Nov 2024 12:40

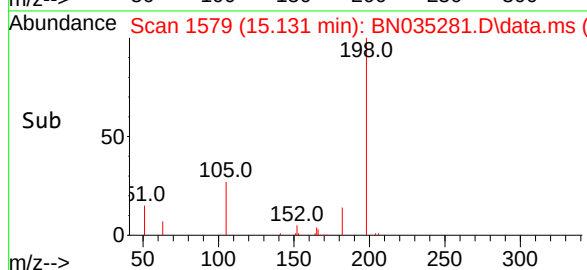
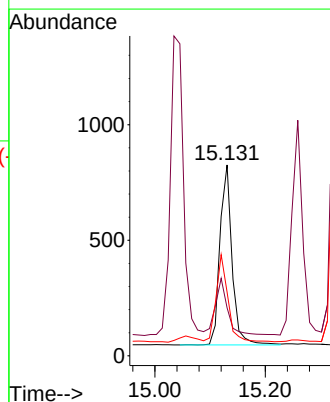
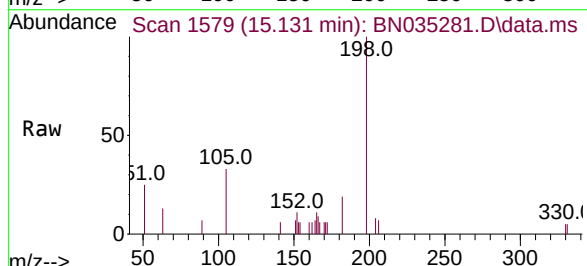
Tgt Ion:198 Resp: 1188

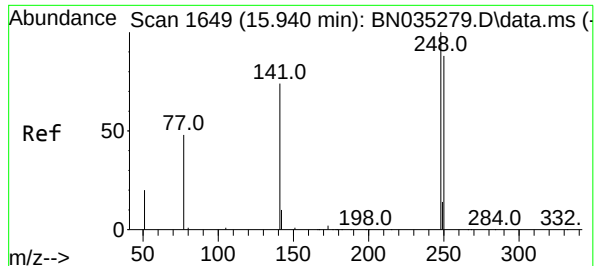
Ion Ratio Lower Upper

198 100

51 25.2 53.6 80.4#

105 33.4 47.4 71.2#

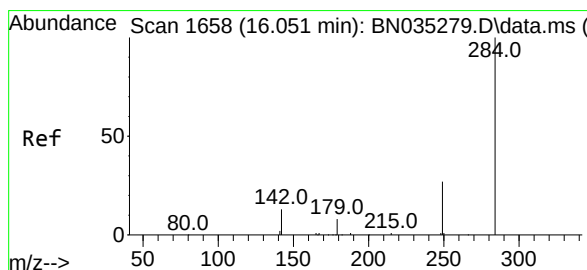
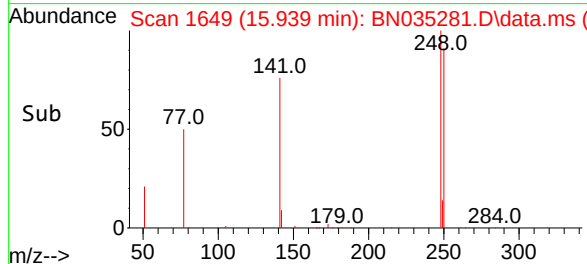
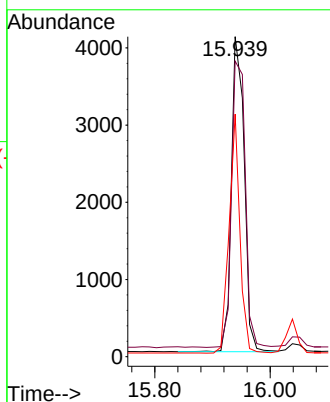
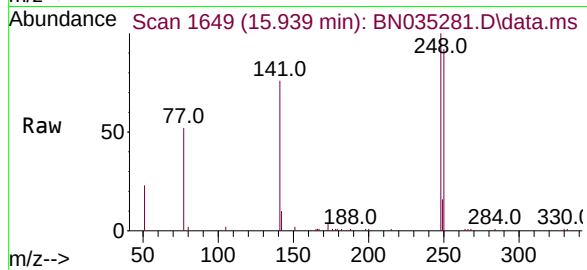




#21
4-Bromophenyl-phenylether
Concen: 1.585 ng
RT: 15.939 min Scan# 1649
Delta R.T. -0.000 min
Lab File: BN035281.D
Acq: 25 Nov 2024 12:40

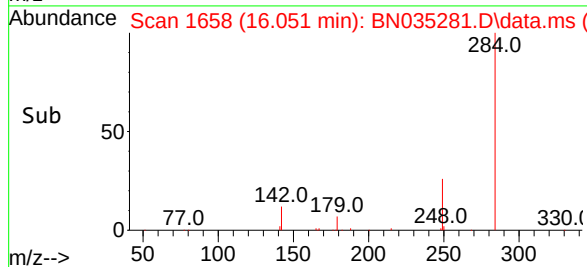
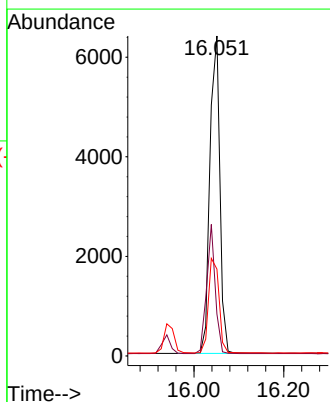
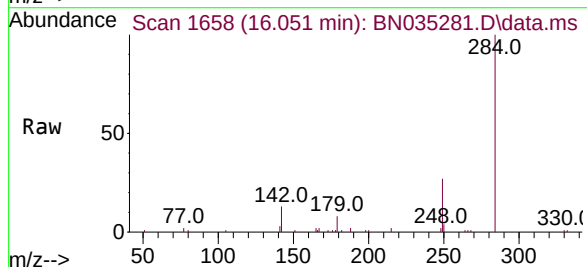
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

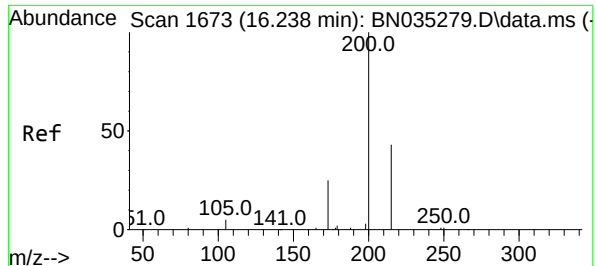
Tgt Ion:248 Resp: 6288
Ion Ratio Lower Upper
248 100
250 92.4 74.8 112.2
141 75.8 59.0 88.4



#22
Hexachlorobenzene
Concen: 2.364 ng
RT: 16.051 min Scan# 1658
Delta R.T. -0.000 min
Lab File: BN035281.D
Acq: 25 Nov 2024 12:40

Tgt Ion:284 Resp: 9730
Ion Ratio Lower Upper
284 100
142 35.4 28.7 43.1
249 31.4 25.4 38.0

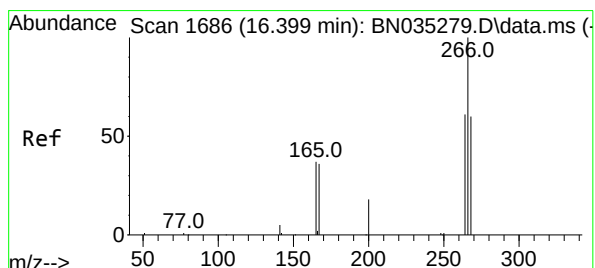
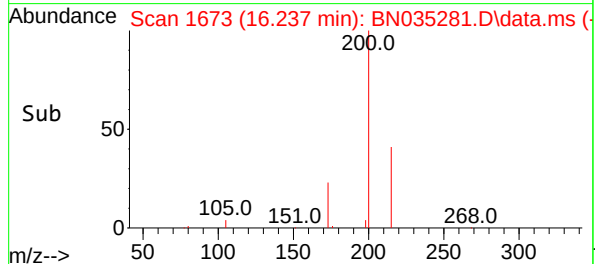
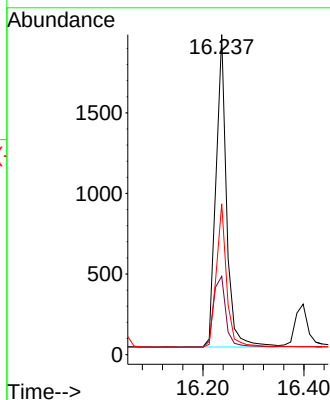
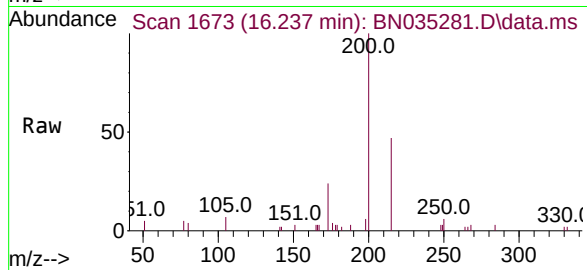




#23
Atrazine
Concen: 0.796 ng
RT: 16.237 min Scan# 1673
Delta R.T. -0.000 min
Lab File: BN035281.D
Acq: 25 Nov 2024 12:40

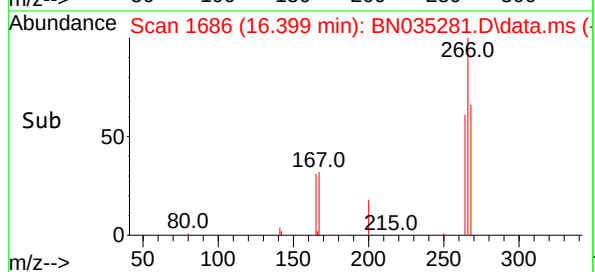
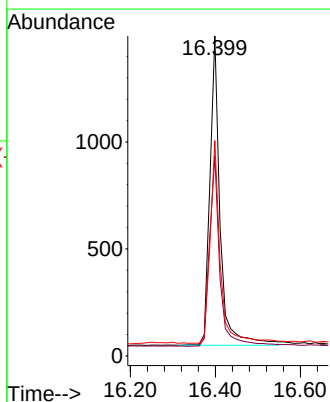
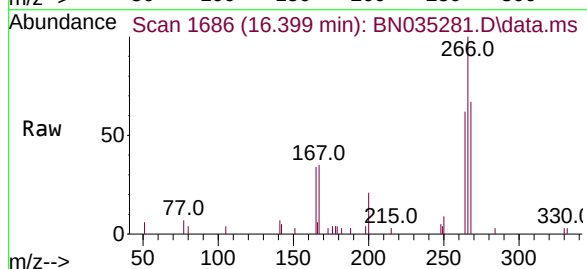
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

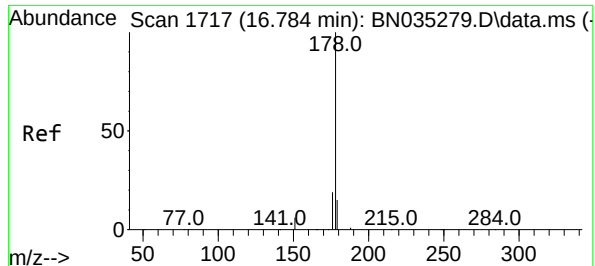
Tgt Ion:200 Resp: 2833
Ion Ratio Lower Upper
200 100
173 24.5 25.8 38.8#
215 47.2 38.6 58.0



#24
Pentachlorophenol
Concen: 1.255 ng
RT: 16.399 min Scan# 1686
Delta R.T. -0.000 min
Lab File: BN035281.D
Acq: 25 Nov 2024 12:40

Tgt Ion:266 Resp: 2413
Ion Ratio Lower Upper
266 100
264 62.3 49.3 73.9
268 65.1 48.6 73.0

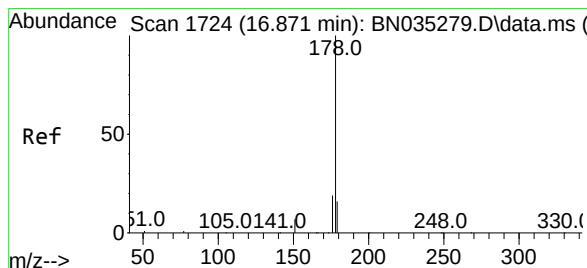
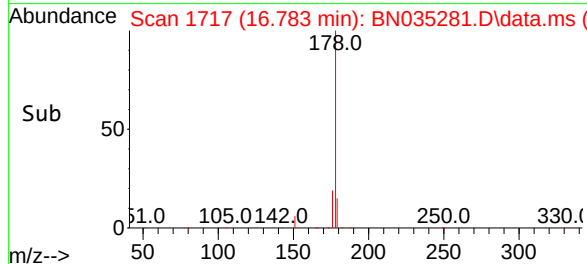
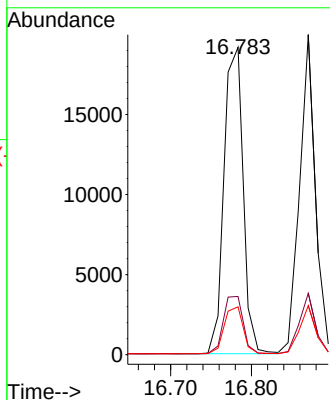
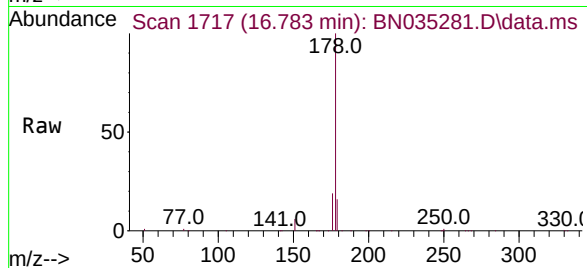




#25
Phenanthrene
Concen: 1.932 ng
RT: 16.783 min Scan# 1717
Delta R.T. -0.000 min
Lab File: BN035281.D
Acq: 25 Nov 2024 12:40

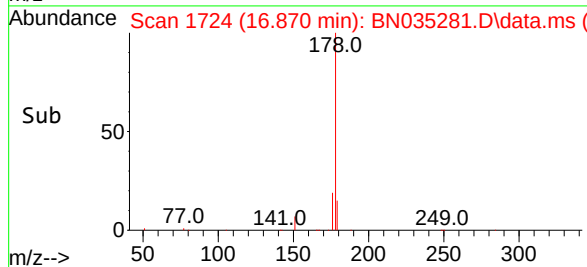
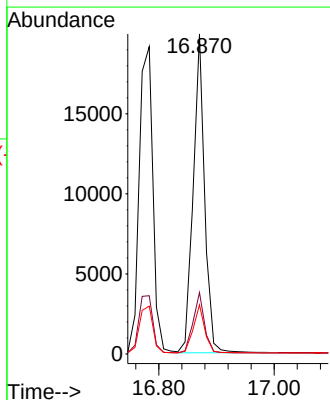
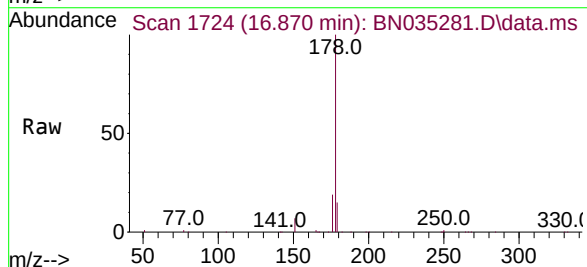
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

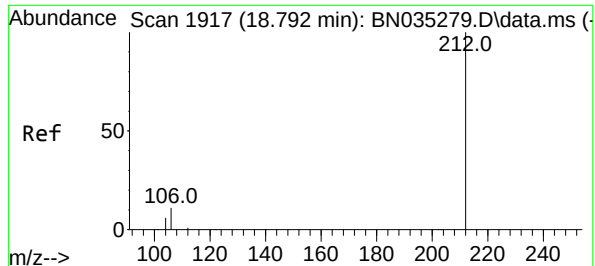
Tgt Ion:178 Resp: 31649
Ion Ratio Lower Upper
178 100
176 19.4 15.4 23.0
179 15.3 12.6 18.8



#26
Anthracene
Concen: 1.820 ng
RT: 16.870 min Scan# 1724
Delta R.T. -0.000 min
Lab File: BN035281.D
Acq: 25 Nov 2024 12:40

Tgt Ion:178 Resp: 27397
Ion Ratio Lower Upper
178 100
176 19.0 15.0 22.4
179 15.3 12.4 18.6

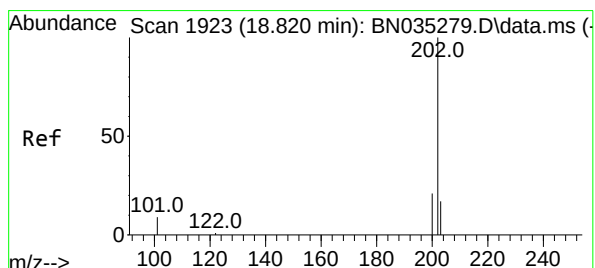
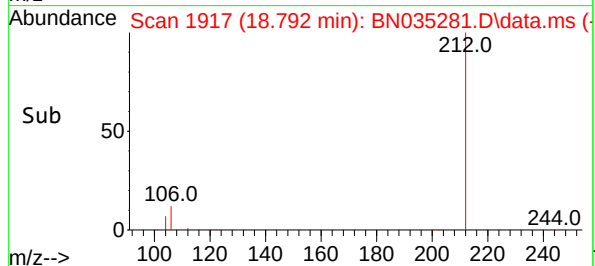
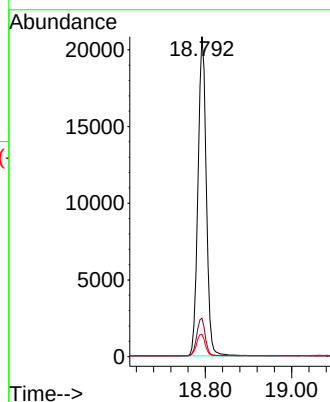
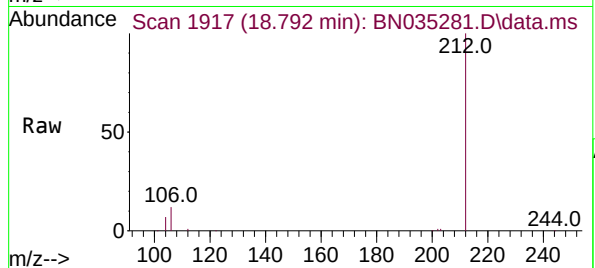




#27
Fluoranthene-d10
Concen: 1.462 ng
RT: 18.792 min Scan# 1917
Delta R.T. -0.000 min
Lab File: BN035281.D
Acq: 25 Nov 2024 12:40

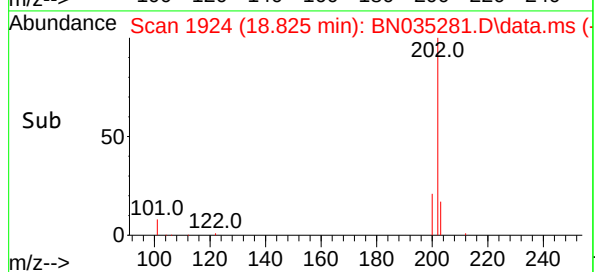
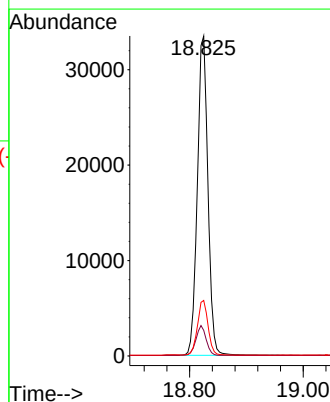
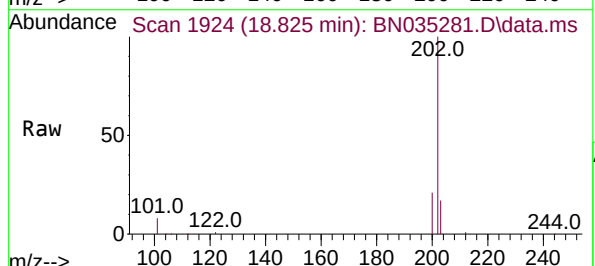
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

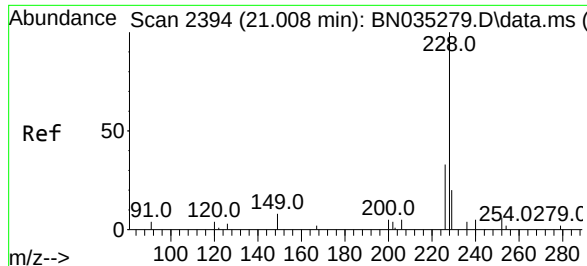
Tgt Ion:212 Resp: 27881
Ion Ratio Lower Upper
212 100
106 12.1 9.8 14.8
104 7.0 5.6 8.4



#28
Fluoranthene
Concen: 1.914 ng
RT: 18.825 min Scan# 1924
Delta R.T. 0.004 min
Lab File: BN035281.D
Acq: 25 Nov 2024 12:40

Tgt Ion:202 Resp: 43133
Ion Ratio Lower Upper
202 100
101 9.2 7.6 11.4
203 17.1 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.008 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035281.D

Acq: 25 Nov 2024 12:40

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

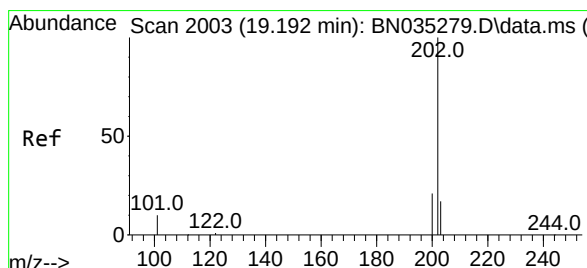
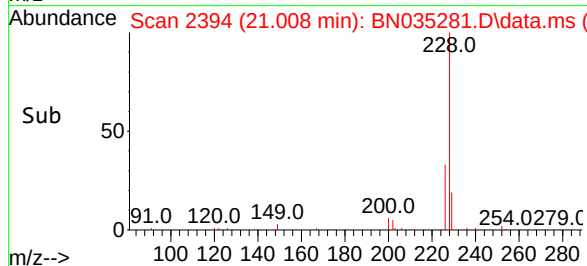
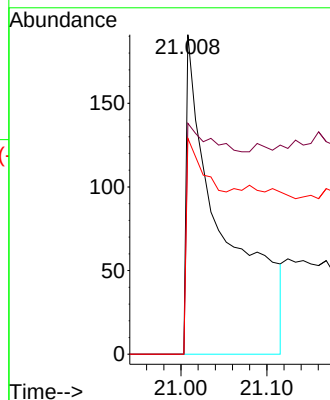
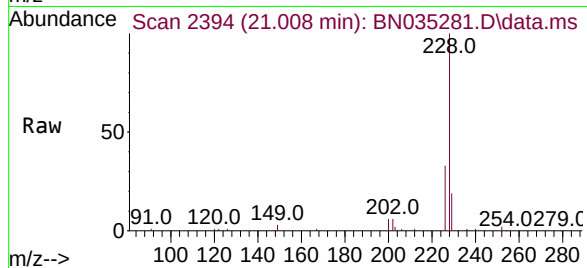
Tgt Ion:240 Resp: 542

Ion Ratio Lower Upper

240 100

120 72.3 54.9 82.3

236 67.5 54.0 81.0



#30

Pyrene

Concen: 21.370 ng

RT: 19.192 min Scan# 2003

Delta R.T. -0.000 min

Lab File: BN035281.D

Acq: 25 Nov 2024 12:40

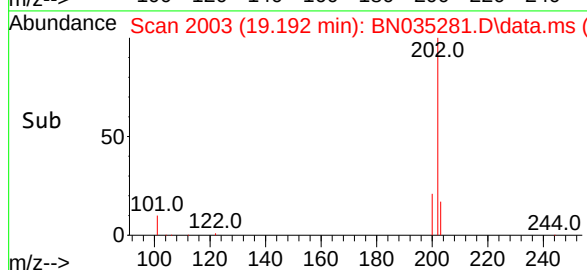
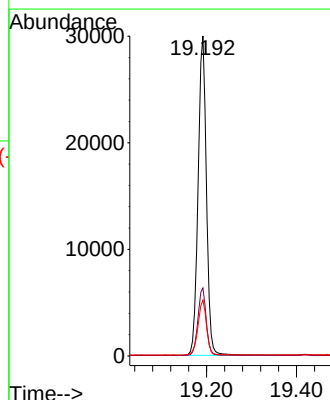
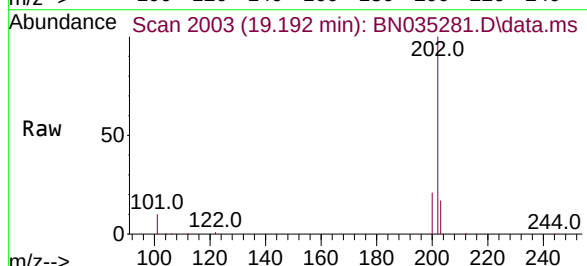
Tgt Ion:202 Resp: 38572

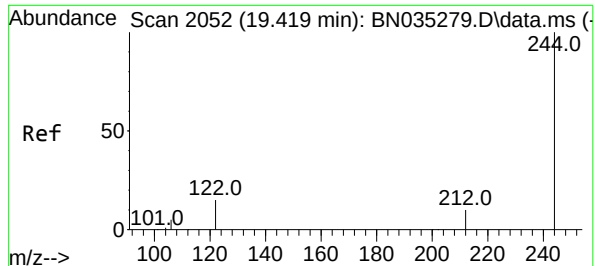
Ion Ratio Lower Upper

202 100

200 21.2 16.8 25.2

203 17.7 14.4 21.6

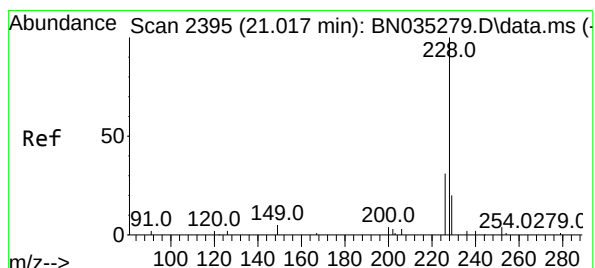
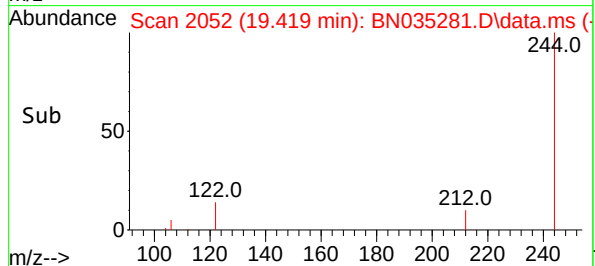
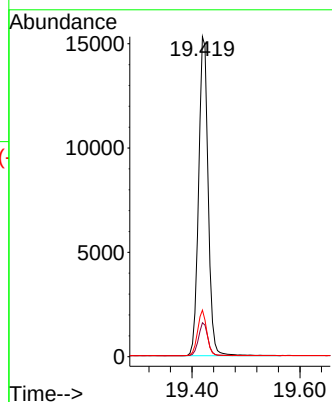
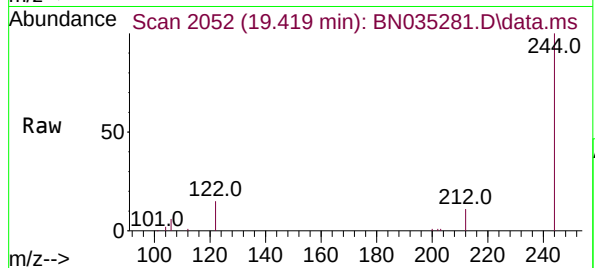




#31
Terphenyl-d14
Concen: 16.424 ng
RT: 19.419 min Scan# 2052
Delta R.T. -0.000 min
Lab File: BN035281.D
Acq: 25 Nov 2024 12:40

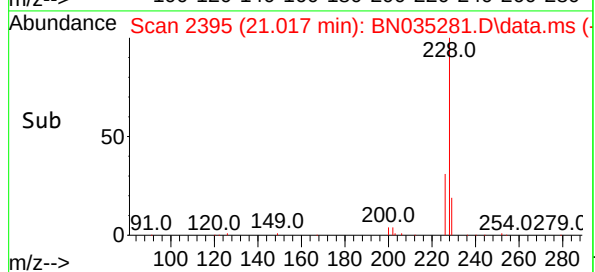
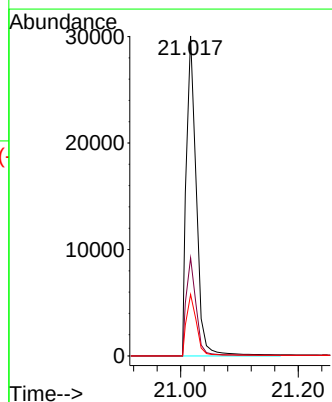
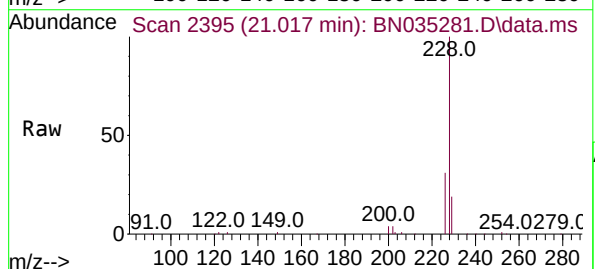
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

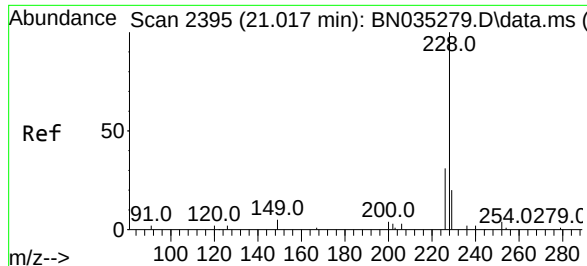
Tgt Ion:244 Resp: 18679
Ion Ratio Lower Upper
244 100
212 10.6 9.4 14.0
122 14.6 13.0 19.4



#32
Benzo(a)anthracene
Concen: 18.849 ng
RT: 21.017 min Scan# 2395
Delta R.T. -0.000 min
Lab File: BN035281.D
Acq: 25 Nov 2024 12:40

Tgt Ion:228 Resp: 35573
Ion Ratio Lower Upper
228 100
226 30.7 24.7 37.1
229 19.2 16.2 24.2





#33

Chrysene

Concen: 19.028 ng

RT: 21.017 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035281.D

Acq: 25 Nov 2024 12:40

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

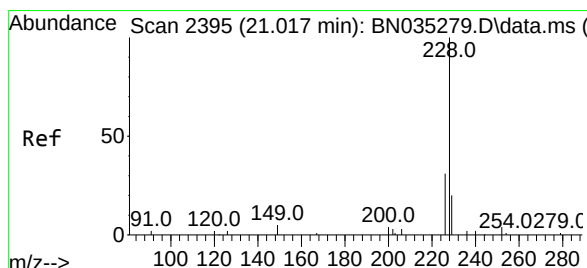
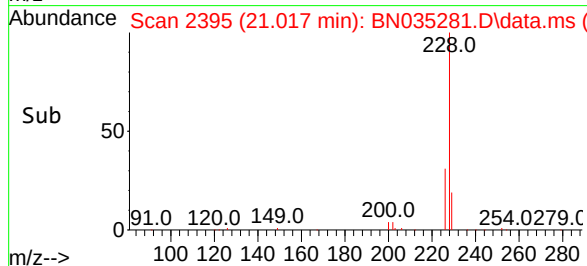
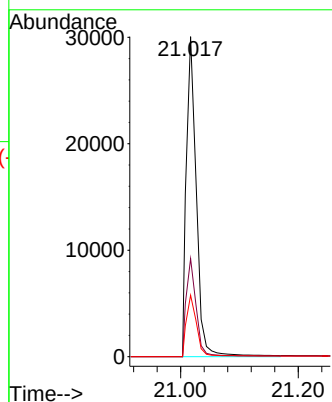
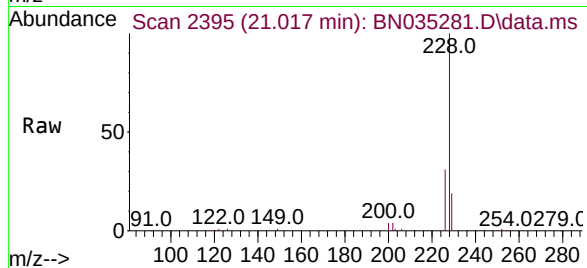
Tgt Ion:228 Resp: 35573

Ion Ratio Lower Upper

228 100

226 30.7 24.7 37.1

229 19.2 16.2 24.2



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.955 ng

RT: 21.017 min Scan# 2395

Delta R.T. -0.000 min

Lab File: BN035281.D

Acq: 25 Nov 2024 12:40

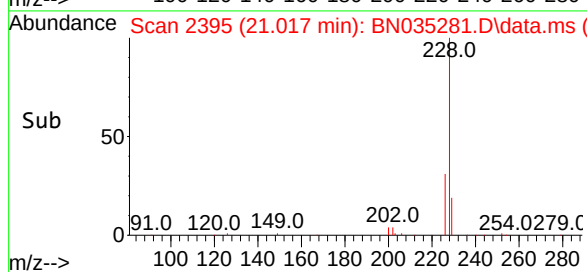
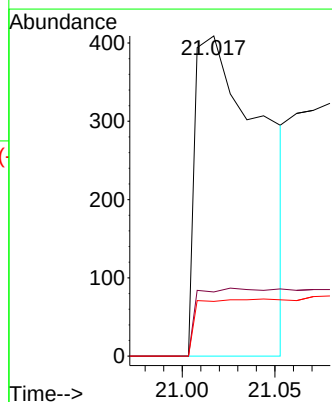
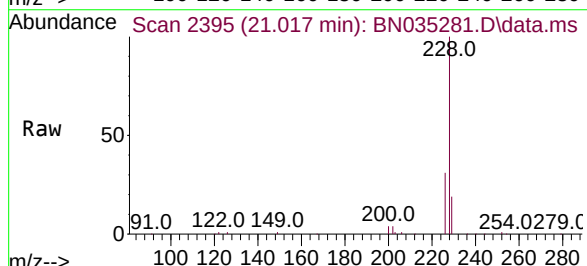
Tgt Ion:149 Resp: 946

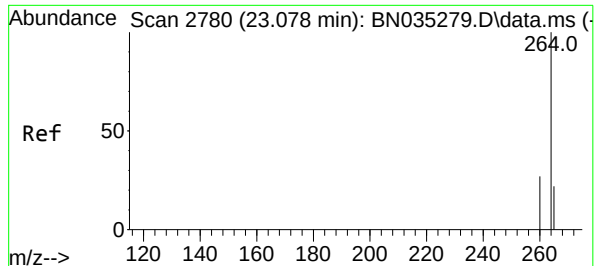
Ion Ratio Lower Upper

149 100

167 20.1 0.0 0.0#

279 0.0 13.0 19.6#

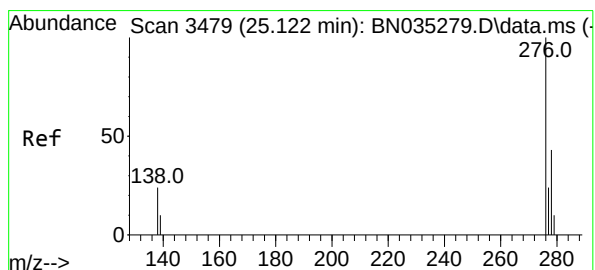
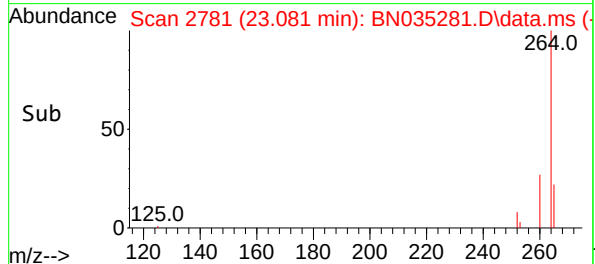
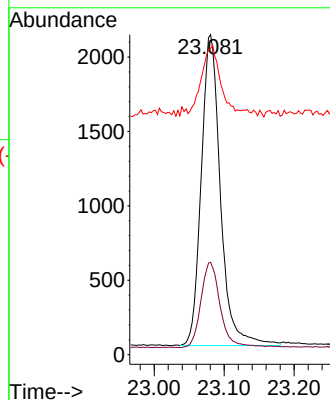
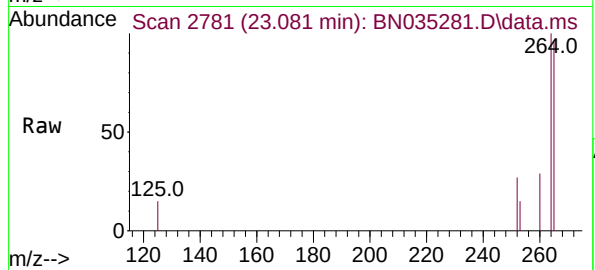




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.081 min Scan# 21
Delta R.T. 0.003 min
Lab File: BN035281.D
Acq: 25 Nov 2024 12:40

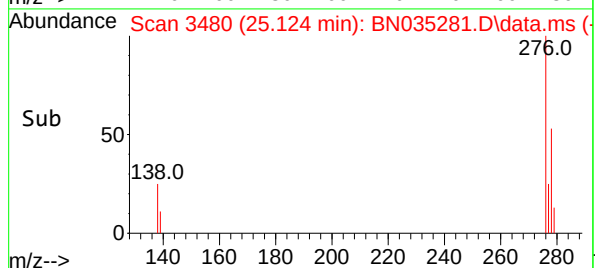
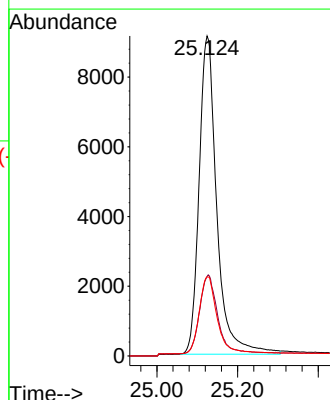
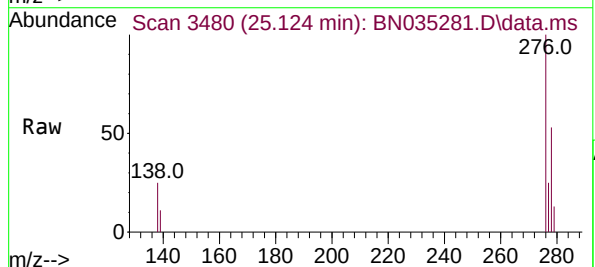
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

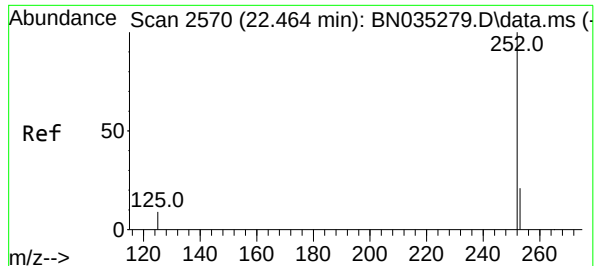
Tgt Ion:264 Resp: 3989
Ion Ratio Lower Upper
264 100
260 28.8 22.3 33.5
265 95.7 68.6 103.0



#36
Indeno(1,2,3-cd)pyrene
Concen: 1.749 ng
RT: 25.124 min Scan# 3480
Delta R.T. 0.003 min
Lab File: BN035281.D
Acq: 25 Nov 2024 12:40

Tgt Ion:276 Resp: 27825
Ion Ratio Lower Upper
276 100
138 24.8 18.8 28.2
277 24.3 18.2 27.4





#37

Benzo(b)fluoranthene

Concen: 2.232 ng

RT: 22.467 min Scan# 2571

Delta R.T. 0.003 min

Lab File: BN035281.D

Acq: 25 Nov 2024 12:40

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

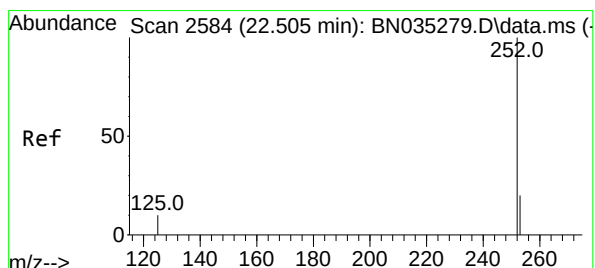
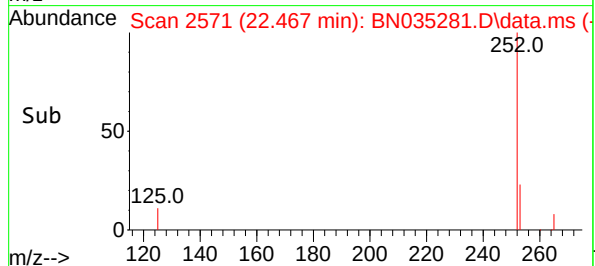
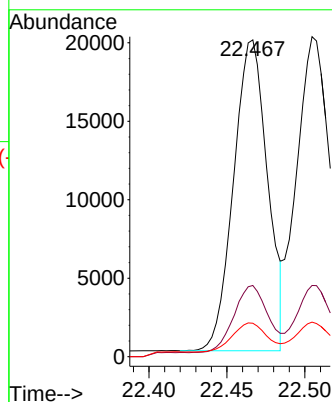
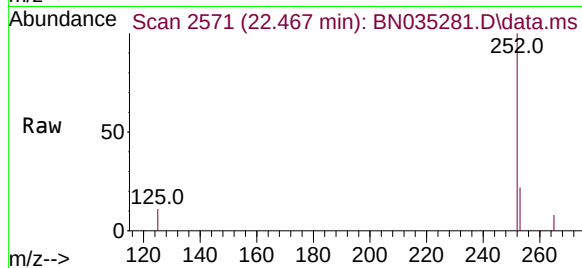
Tgt Ion:252 Resp: 29950

Ion Ratio Lower Upper

252 100

253 22.5 20.2 30.2

125 10.6 12.0 18.0#



#38

Benzo(k)fluoranthene

Concen: 2.434 ng

RT: 22.505 min Scan# 2584

Delta R.T. -0.000 min

Lab File: BN035281.D

Acq: 25 Nov 2024 12:40

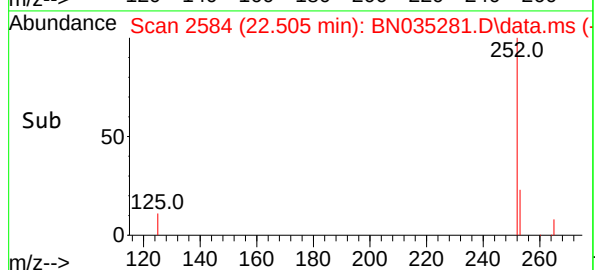
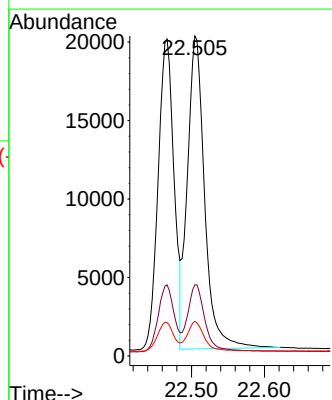
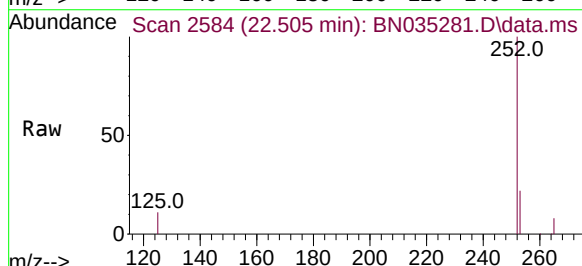
Tgt Ion:252 Resp: 32689

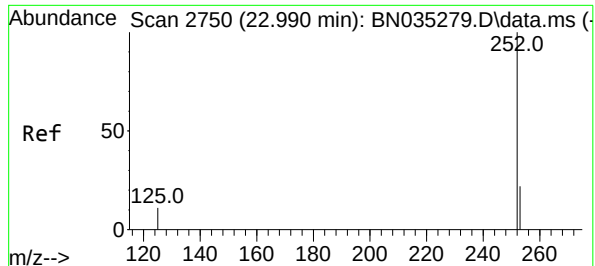
Ion Ratio Lower Upper

252 100

253 22.2 20.1 30.1

125 10.8 12.7 19.1#





#39

Benzo(a)pyrene

Concen: 1.929 ng

RT: 22.990 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035281.D

Acq: 25 Nov 2024 12:40

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

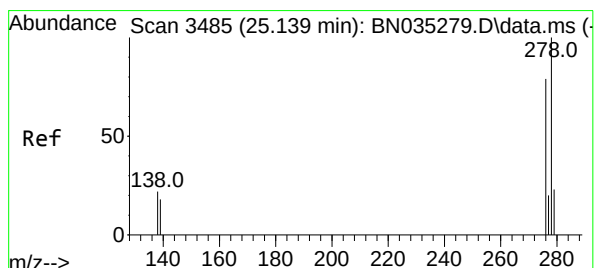
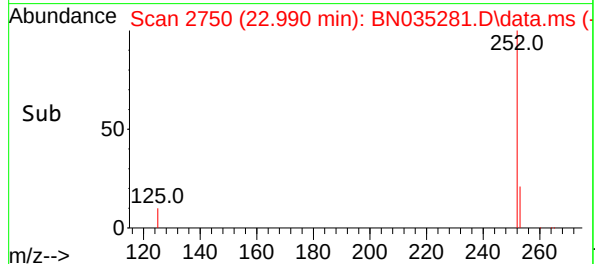
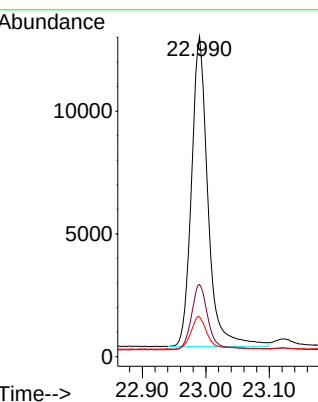
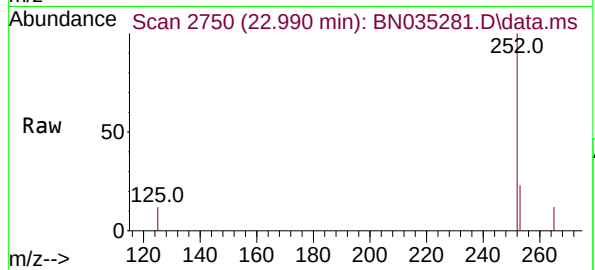
Tgt Ion:252 Resp: 22785

Ion Ratio Lower Upper

252 100

253 22.5 22.3 33.5

125 12.5 15.3 22.9#



#40

Dibenzo(a,h)anthracene

Concen: 1.712 ng

RT: 25.142 min Scan# 3486

Delta R.T. 0.003 min

Lab File: BN035281.D

Acq: 25 Nov 2024 12:40

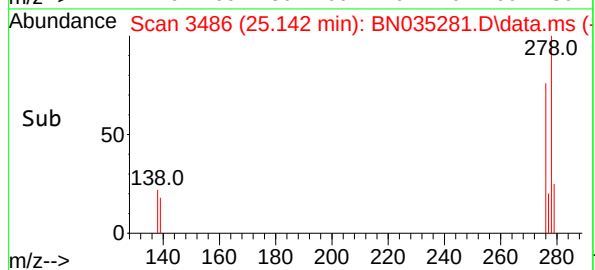
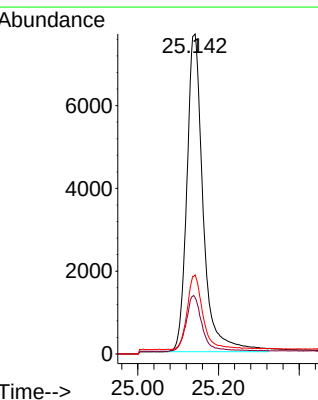
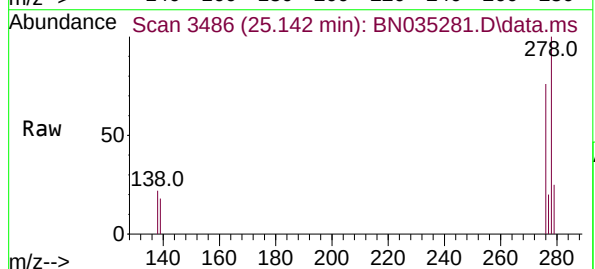
Tgt Ion:278 Resp: 21588

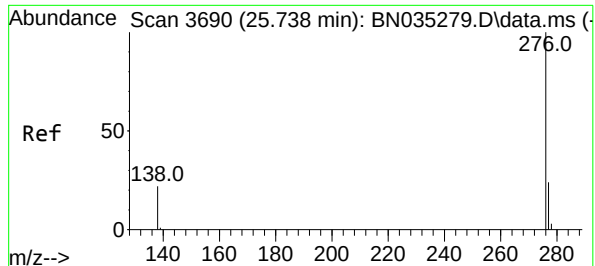
Ion Ratio Lower Upper

278 100

139 17.6 17.0 25.6

279 24.7 23.0 34.4





#41

Benzo(g,h,i)perylene

Concen: 1.794 ng

RT: 25.738 min Scan# 30

Delta R.T. -0.000 min

Lab File: BN035281.D

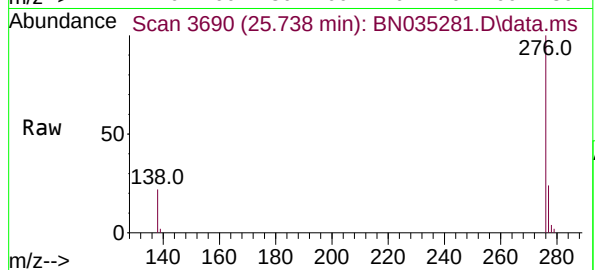
Acq: 25 Nov 2024 12:40

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



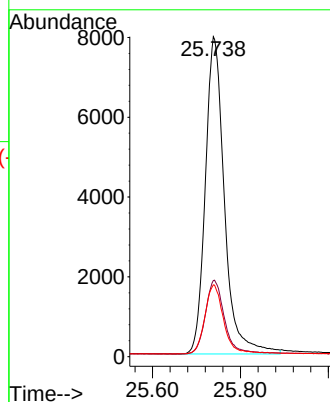
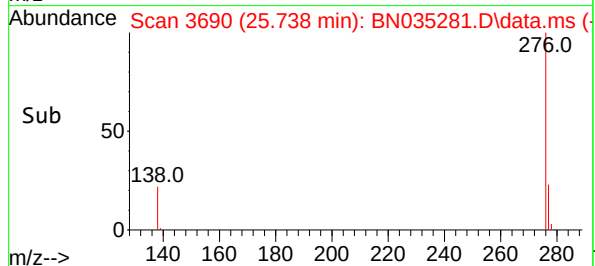
Tgt Ion:276 Resp: 24058

Ion Ratio Lower Upper

276 100

277 23.8 21.1 31.7

138 22.4 19.8 29.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
 Data File : BN035282.D
 Acq On : 25 Nov 2024 13:16
 Operator : RC/JU
 Sample : SSTDICC3.2
 Misc :
 ALS Vial : 57 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

Quant Time: Nov 25 14:21:04 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Nov 25 14:16:35 2024
 Response via : Initial Calibration

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

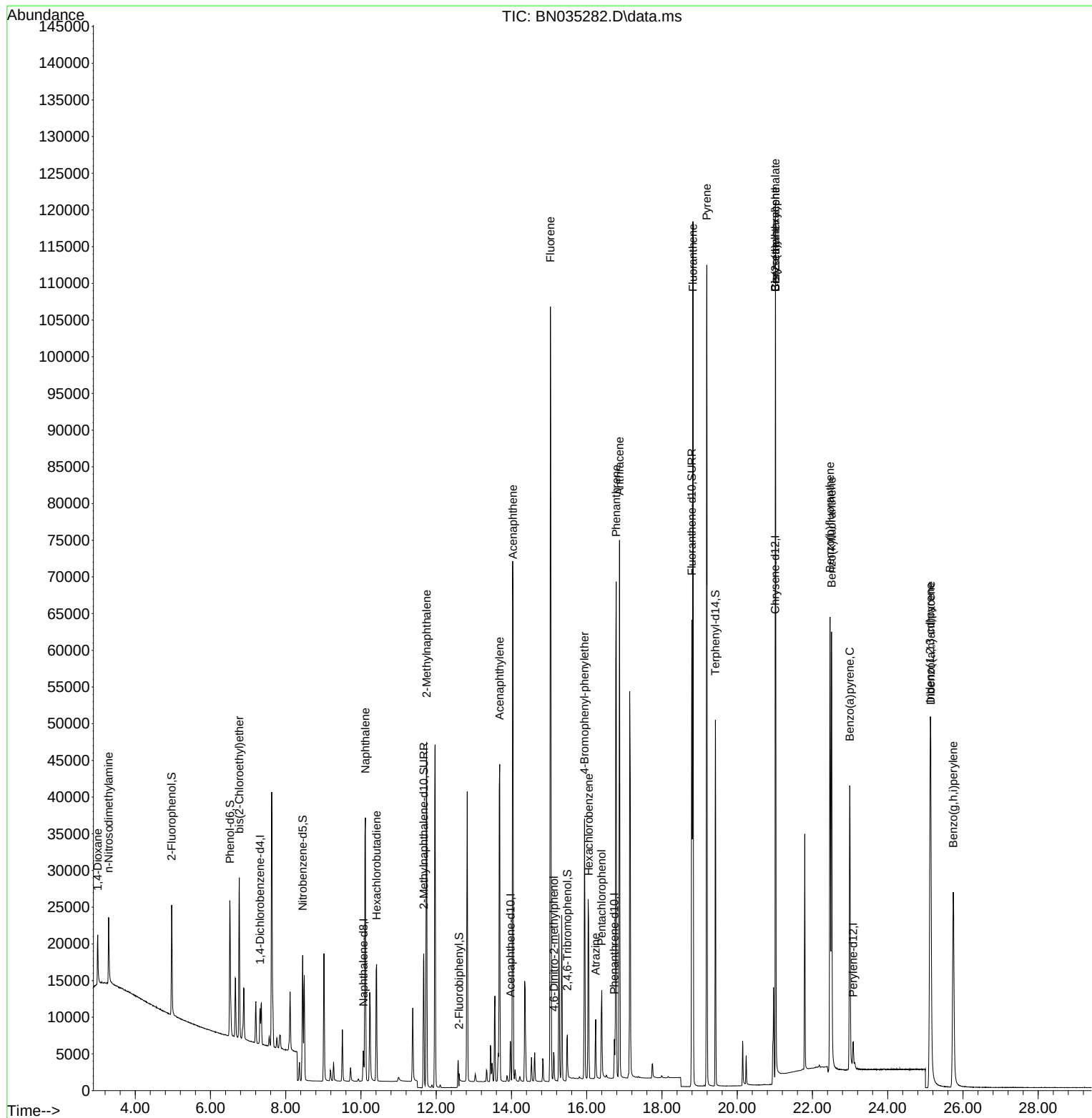
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.315	152	2270	0.400	ng	0.00
7) Naphthalene-d8	10.063	136	5138	0.400	ng	0.00
13) Acenaphthene-d10	13.976	164	2927	0.400	ng	0.00
19) Phenanthrene-d10	16.734	188	6761	0.400	ng	0.00
29) Chrysene-d12	21.008	240	721	0.400	ng	0.00
35) Perylene-d12	23.081	264	4343	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.968	112	12319	2.138	ng	0.00
5) Phenol-d6	6.520	99	17485	2.420	ng	0.00
8) Nitrobenzene-d5	8.450	82	14309	3.199	ng	0.00
11) 2-Methylnaphthalene-d10	11.667	152	23828	2.602	ng	0.00
14) 2,4,6-Tribromophenol	15.484	330	5391	2.553	ng	0.00
15) 2-Fluorobiphenyl	12.608	172	1139	0.096	ng	0.00
27) Fluoranthene-d10	18.792	212	66182	3.195	ng	0.00
31) Terphenyl-d14	19.419	244	44092	29.144	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.003	88	4753	2.305	ng	# 77
3) n-Nitrosodimethylamine	3.292	42	5433	2.827	ng	# 85
6) bis(2-Chloroethyl)ether	6.766	93	15869	2.926	ng	100
9) Naphthalene	10.116	128	46866	3.494	ng	98
10) Hexachlorobutadiene	10.415	225	13571	3.452	ng	# 99
12) 2-Methylnaphthalene	11.742	142	32151	3.249	ng	98
16) Acenaphthylene	13.688	152	50280	4.019	ng	99
17) Acenaphthene	14.040	154	32466	3.960	ng	96
18) Fluorene	15.035	166	46490	3.855	ng	99
20) 4,6-Dinitro-2-methylph...	15.131	198	3008	2.137	ng	# 48
21) 4-Bromophenyl-phenylether	15.939	248	14640	3.399	ng	99
22) Hexachlorobenzene	16.051	284	20624	4.614	ng	100
23) Atrazine	16.237	200	6312	1.633	ng	# 92
24) Pentachlorophenol	16.399	266	6031	2.888	ng	97
25) Phenanthrene	16.784	178	73801	4.148	ng	99
26) Anthracene	16.870	178	67705	4.143	ng	100
28) Fluoranthene	18.825	202	102229	4.178	ng	100
30) Pyrene	19.192	202	93180	38.808	ng	99
32) Benzo(a)anthracene	21.017	228	82975	33.051	ng	99
33) Chrysene	21.017	228	82975	33.364	ng	99
34) Bis(2-ethylhexyl)phtha...	21.017	149	1320	1.002	ng	# 84
36) Indeno(1,2,3-cd)pyrene	25.127	276	62075	3.583	ng	97
37) Benzo(b)fluoranthene	22.467	252	69657	4.767	ng	# 91
38) Benzo(k)fluoranthene	22.508	252	72243	4.941	ng	# 91
39) Benzo(a)pyrene	22.990	252	51266	3.987	ng	# 87
40) Dibenzo(a,h)anthracene	25.145	278	48696	3.547	ng	91
41) Benzo(g,h,i)perylene	25.744	276	52706	3.610	ng	94

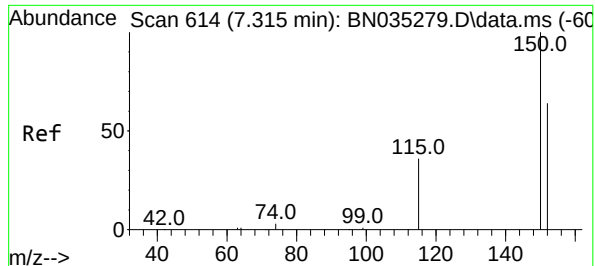
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
Data File : BN035282.D
Acq On : 25 Nov 2024 13:16
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 57 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

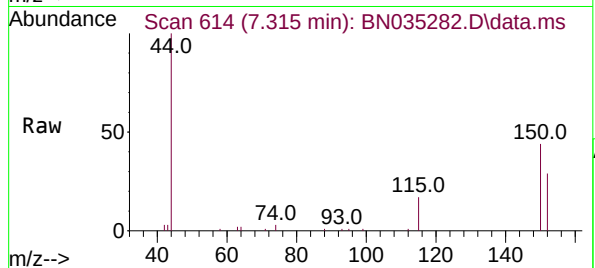
Quant Time: Nov 25 14:21:04 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 25 14:16:35 2024
Response via : Initial Calibration



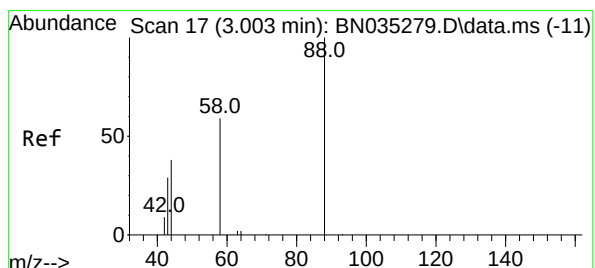
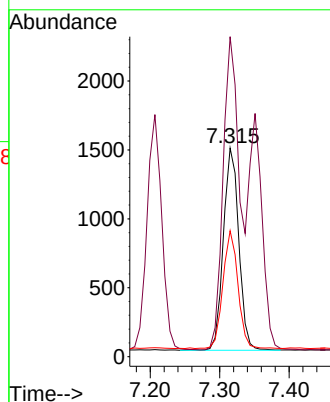
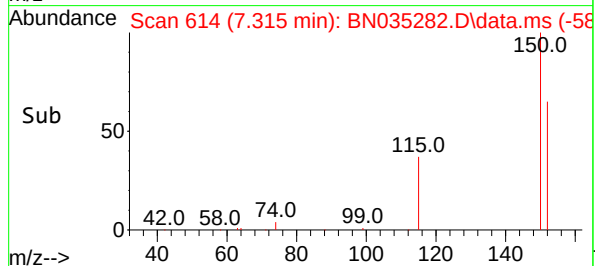


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.315 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035282.D
Acq: 25 Nov 2024 13:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

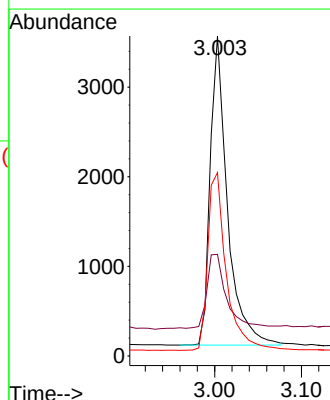
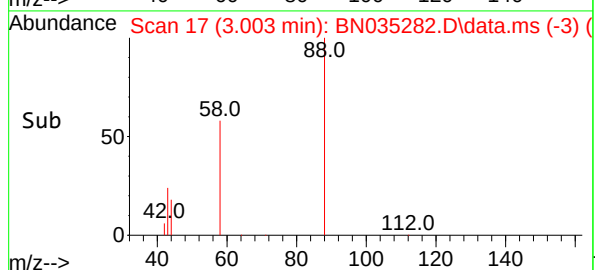
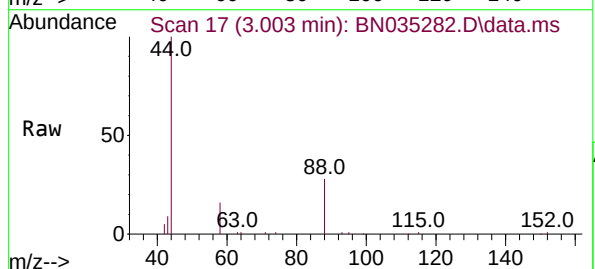


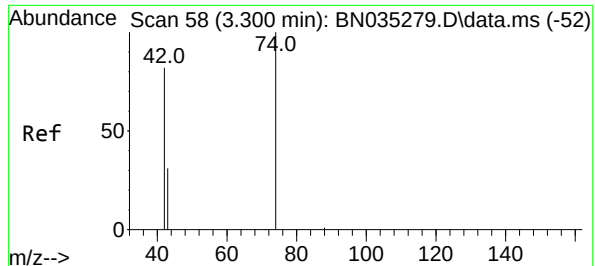
Tgt Ion:152 Resp: 2270
Ion Ratio Lower Upper
152 100
150 153.4 124.5 186.7
115 60.4 47.8 71.8



#2
1,4-Dioxane
Concen: 2.305 ng
RT: 3.003 min Scan# 17
Delta R.T. -0.000 min
Lab File: BN035282.D
Acq: 25 Nov 2024 13:16

Tgt Ion: 88 Resp: 4753
Ion Ratio Lower Upper
88 100
43 29.5 48.1 72.1#
58 61.9 46.9 70.3

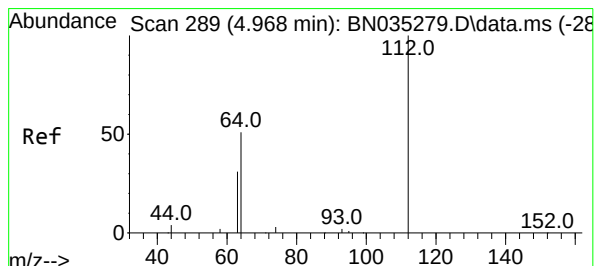
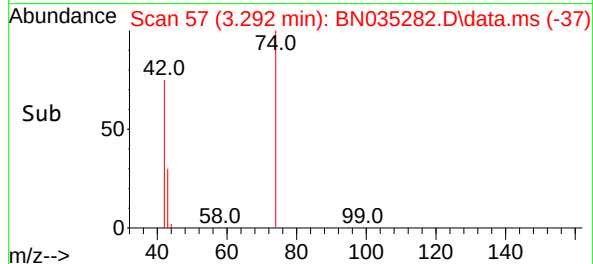
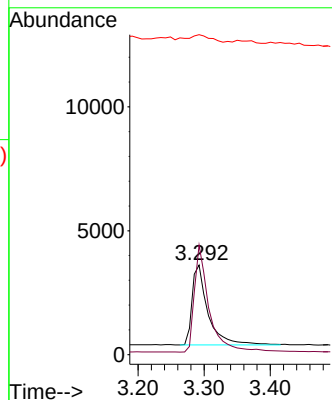
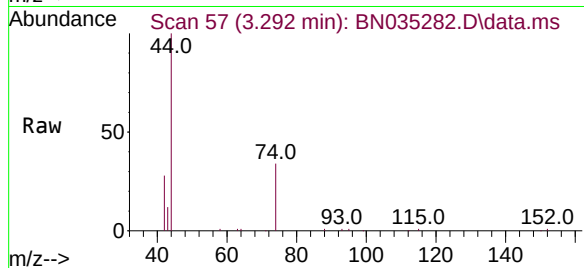




#3
n-Nitrosodimethylamine
Concen: 2.827 ng
RT: 3.292 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN035282.D
Acq: 25 Nov 2024 13:16

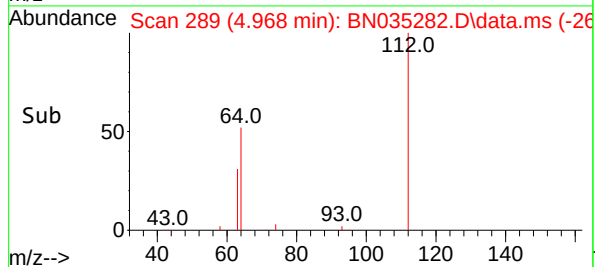
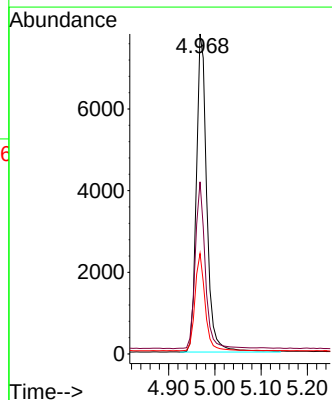
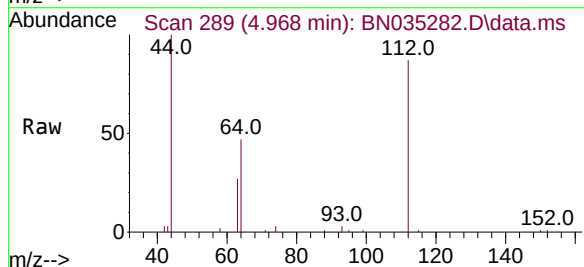
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

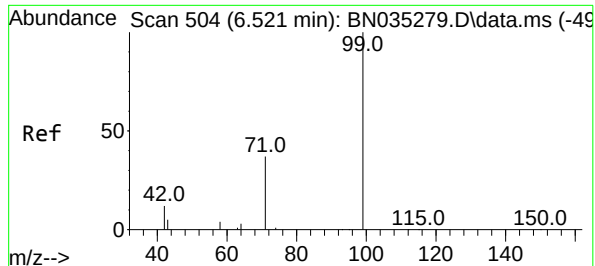
Tgt Ion: 42 Resp: 5433
Ion Ratio Lower Upper
42 100
74 124.6 102.7 154.1
44 9.3 34.1 51.1#



#4
2-Fluorophenol
Concen: 2.138 ng
RT: 4.968 min Scan# 289
Delta R.T. -0.000 min
Lab File: BN035282.D
Acq: 25 Nov 2024 13:16

Tgt Ion: 112 Resp: 12319
Ion Ratio Lower Upper
112 100
64 50.4 40.4 60.6
63 29.7 23.8 35.8

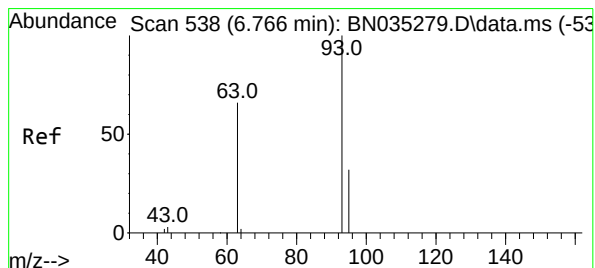
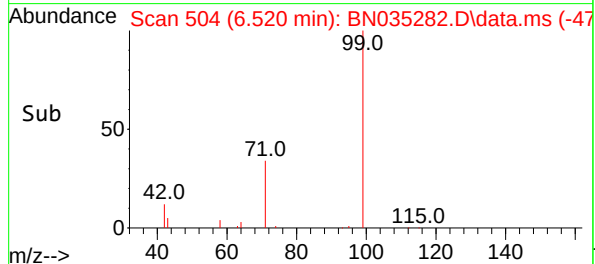
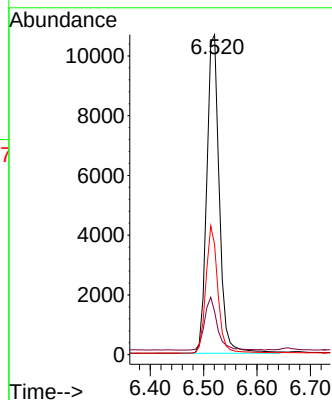
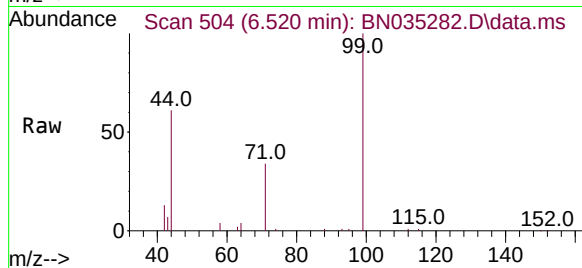




#5
Phenol-d6
Concen: 2.420 ng
RT: 6.520 min Scan# 504
Delta R.T. -0.000 min
Lab File: BN035282.D
Acq: 25 Nov 2024 13:16

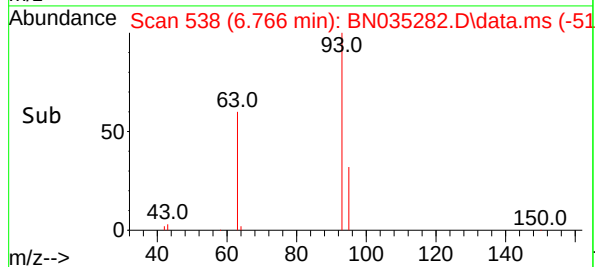
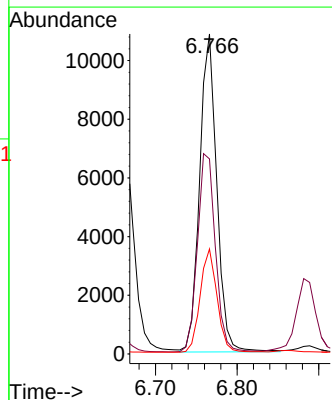
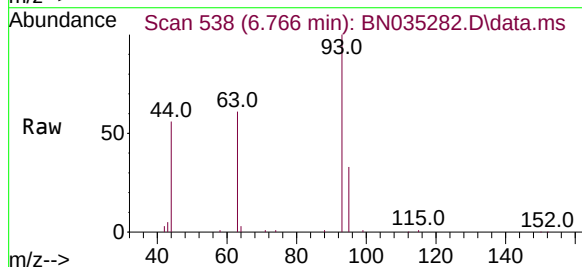
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

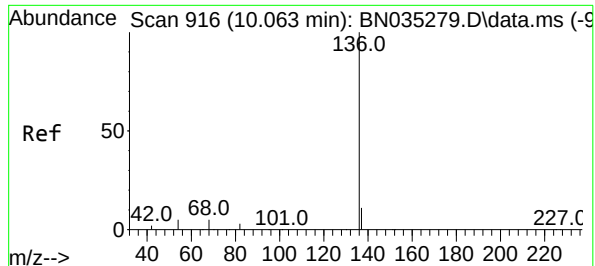
Tgt Ion: 99 Resp: 17485
Ion Ratio Lower Upper
99 100
42 16.7 12.8 19.2
71 38.2 31.4 47.2



#6
bis(2-Chloroethyl)ether
Concen: 2.926 ng
RT: 6.766 min Scan# 538
Delta R.T. -0.000 min
Lab File: BN035282.D
Acq: 25 Nov 2024 13:16

Tgt Ion: 93 Resp: 15869
Ion Ratio Lower Upper
93 100
63 65.4 52.3 78.5
95 32.0 25.5 38.3

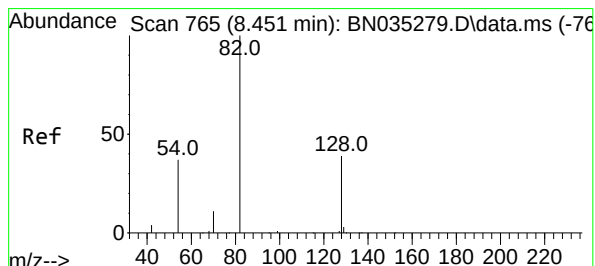
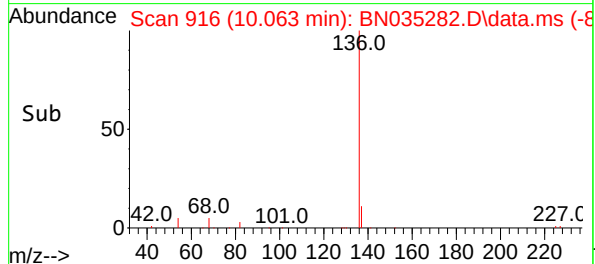
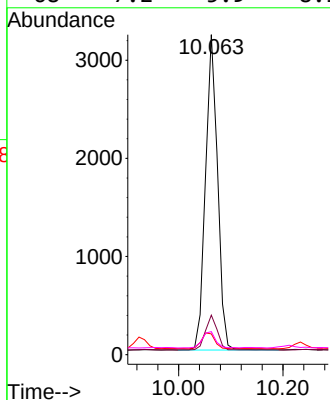
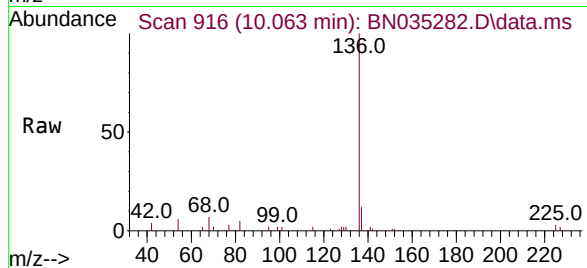




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.063 min Scan# 916
Delta R.T. -0.000 min
Lab File: BN035282.D
Acq: 25 Nov 2024 13:16

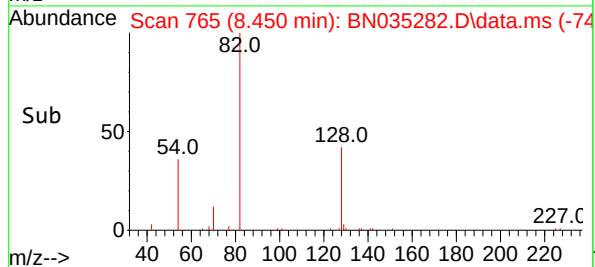
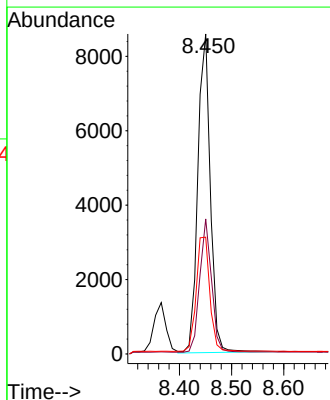
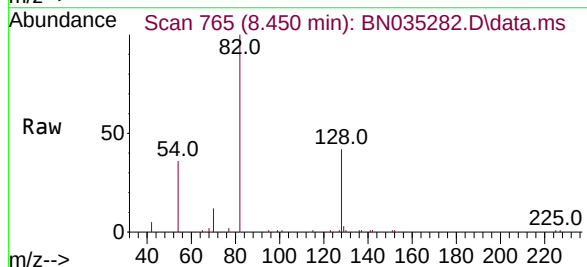
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

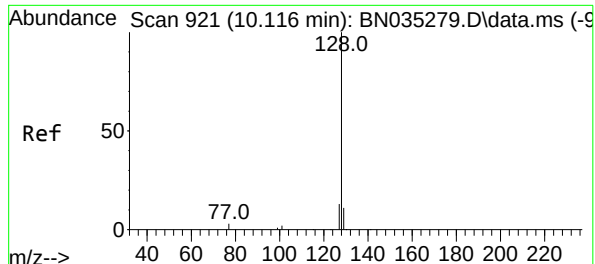
Tgt Ion:	136	Resp:	5138
Ion	Ratio	Lower	Upper
136	100		
137	12.3	9.7	14.5
54	6.5	5.3	7.9
68	7.2	5.9	8.9



#8
Nitrobenzene-d5
Concen: 3.199 ng
RT: 8.450 min Scan# 765
Delta R.T. -0.000 min
Lab File: BN035282.D
Acq: 25 Nov 2024 13:16

Tgt Ion:	82	Resp:	14309
Ion	Ratio	Lower	Upper
82	100		
128	42.2	33.0	49.4
54	36.5	33.3	49.9

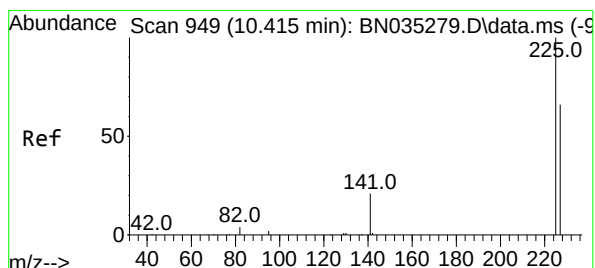
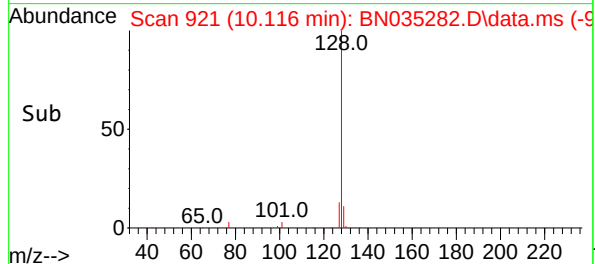
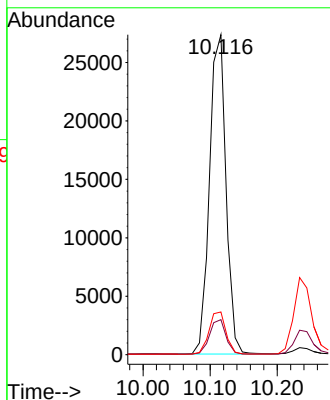
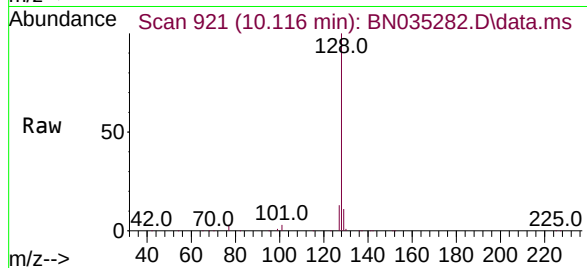




#9
Naphthalene
Concen: 3.494 ng
RT: 10.116 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN035282.D
Acq: 25 Nov 2024 13:16

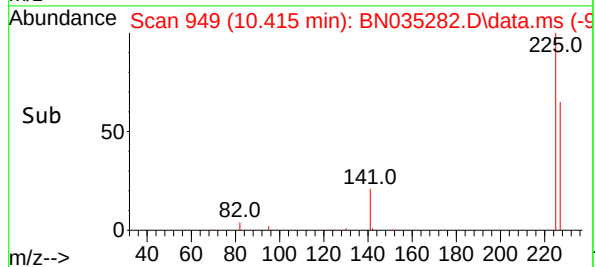
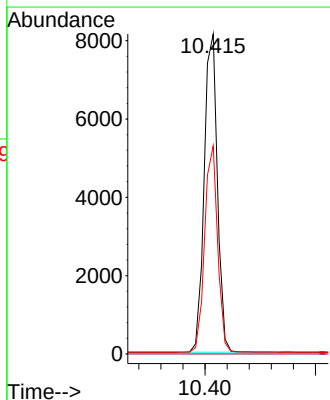
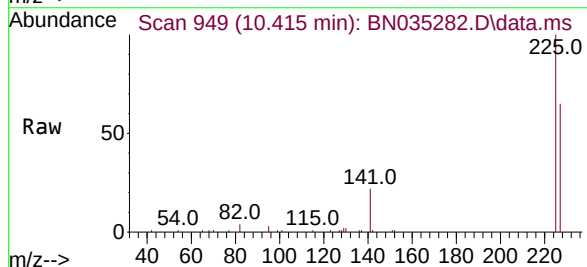
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

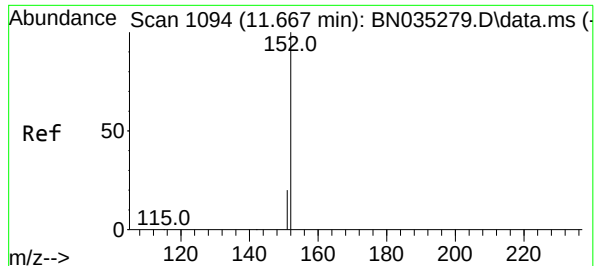
Tgt Ion:128 Resp: 46866
Ion Ratio Lower Upper
128 100
129 10.9 9.6 14.4
127 13.4 11.3 16.9



#10
Hexachlorobutadiene
Concen: 3.452 ng
RT: 10.415 min Scan# 949
Delta R.T. -0.000 min
Lab File: BN035282.D
Acq: 25 Nov 2024 13:16

Tgt Ion:225 Resp: 13571
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.5 51.3 76.9

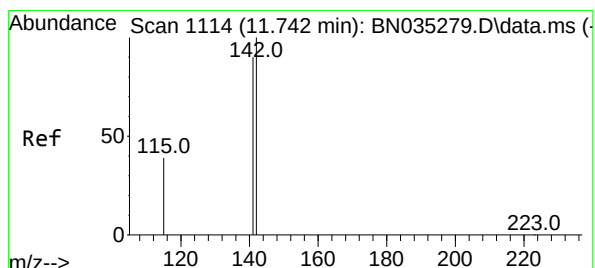
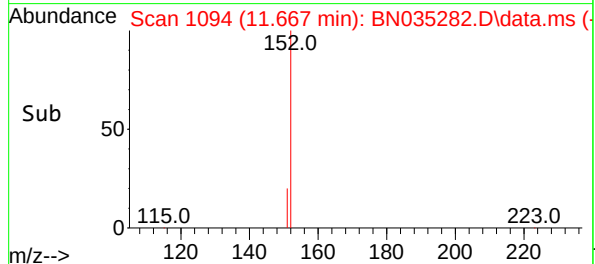
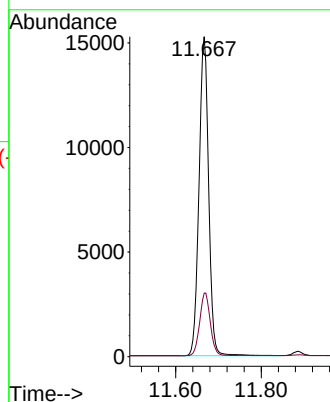
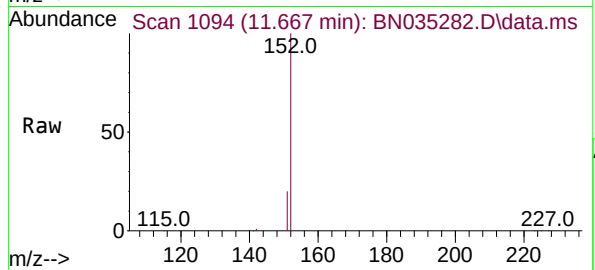




#11
2-Methylnaphthalene-d10
Concen: 2.602 ng
RT: 11.667 min Scan# 1094
Delta R.T. -0.000 min
Lab File: BN035282.D
Acq: 25 Nov 2024 13:16

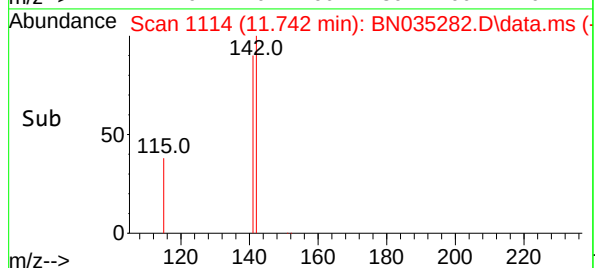
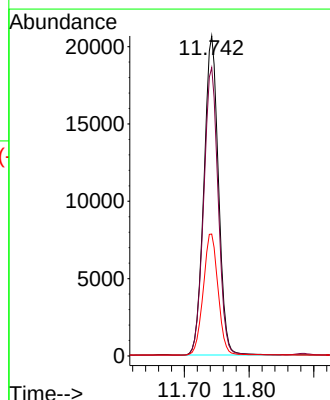
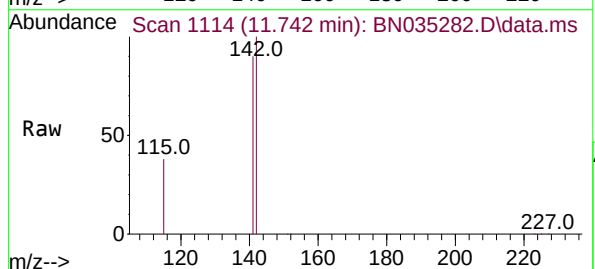
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

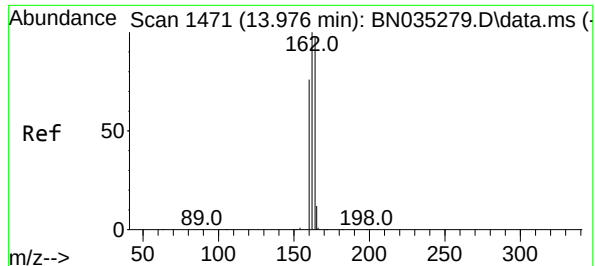
Tgt Ion:152 Resp: 23828
Ion Ratio Lower Upper
152 100
151 21.6 17.2 25.8



#12
2-Methylnaphthalene
Concen: 3.249 ng
RT: 11.742 min Scan# 1114
Delta R.T. -0.000 min
Lab File: BN035282.D
Acq: 25 Nov 2024 13:16

Tgt Ion:142 Resp: 32151
Ion Ratio Lower Upper
142 100
141 90.1 71.8 107.8
115 38.1 32.6 49.0

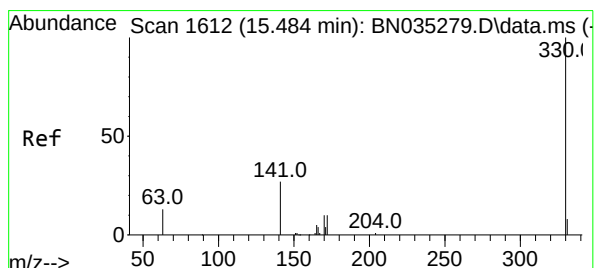
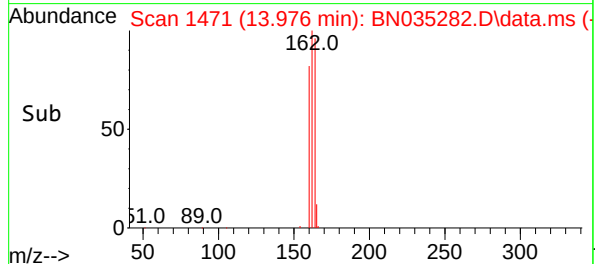
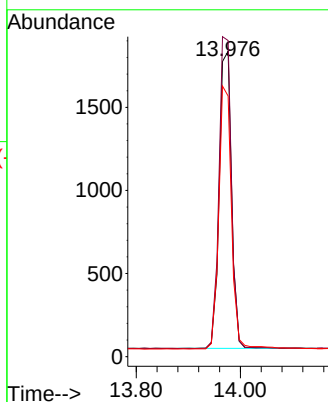
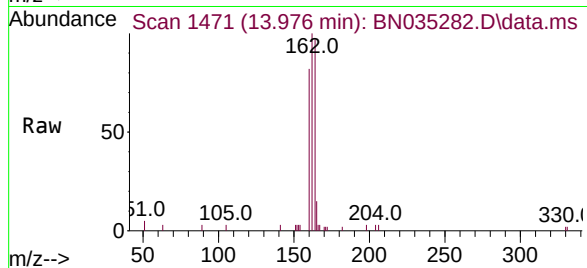




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.976 min Scan# 1471
Delta R.T. -0.000 min
Lab File: BN035282.D
Acq: 25 Nov 2024 13:16

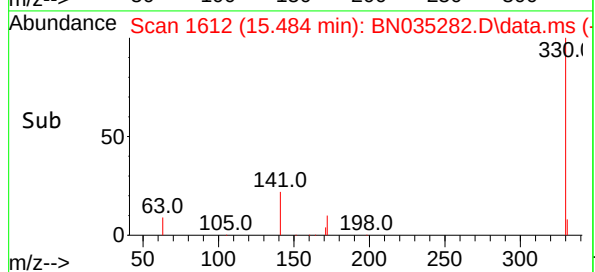
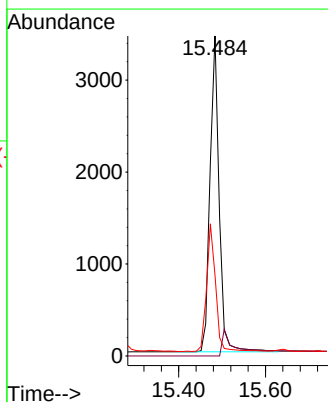
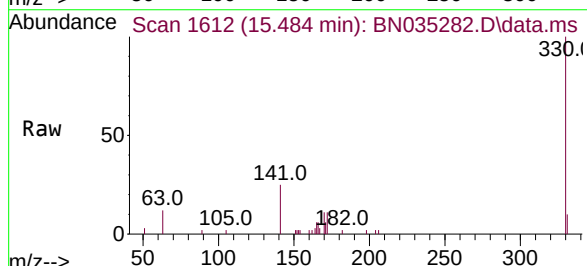
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

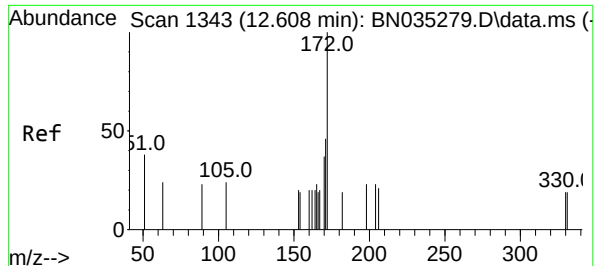
Tgt Ion:164 Resp: 2927
Ion Ratio Lower Upper
164 100
162 103.5 82.0 123.0
160 85.4 63.0 94.4



#14
2,4,6-Tribromophenol
Concen: 2.553 ng
RT: 15.484 min Scan# 1612
Delta R.T. -0.000 min
Lab File: BN035282.D
Acq: 25 Nov 2024 13:16

Tgt Ion:330 Resp: 5391
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 39.7 32.4 48.6

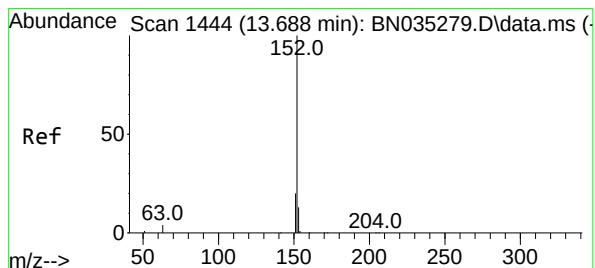
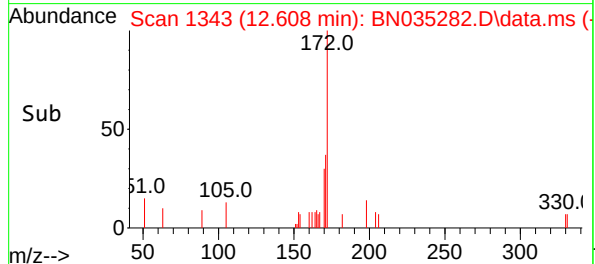
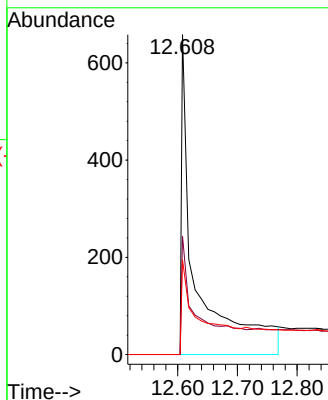
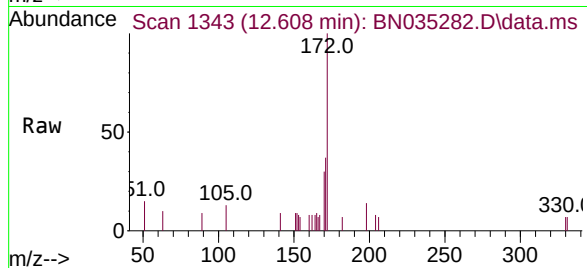




#15
2-Fluorobiphenyl
Concen: 0.096 ng
RT: 12.608 min Scan# 1139
Delta R.T. -0.000 min
Lab File: BN035282.D
Acq: 25 Nov 2024 13:16

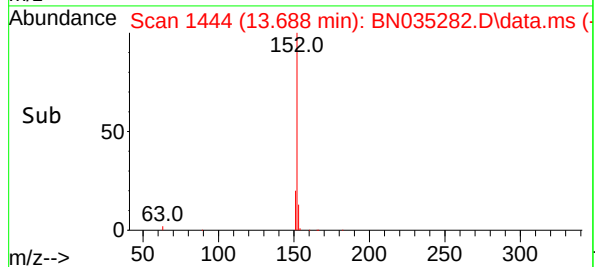
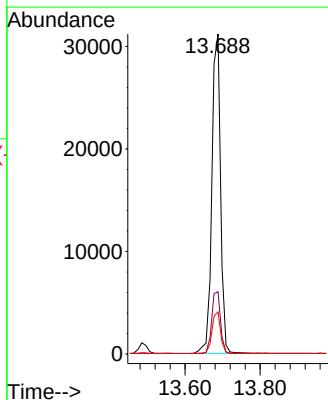
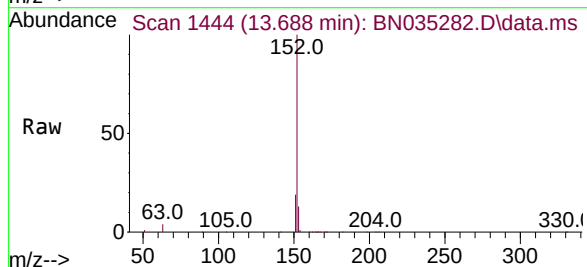
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

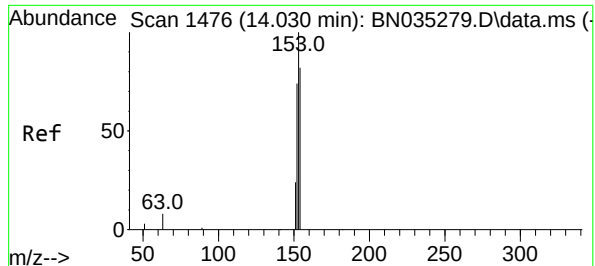
Tgt Ion	Ratio	Lower	Upper
172	100		
171	37.1	36.6	55.0
170	29.6	29.7	44.5



#16
Acenaphthylene
Concen: 4.019 ng
RT: 13.688 min Scan# 1444
Delta R.T. -0.000 min
Lab File: BN035282.D
Acq: 25 Nov 2024 13:16

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.6	15.9	23.9
153	12.9	10.2	15.4

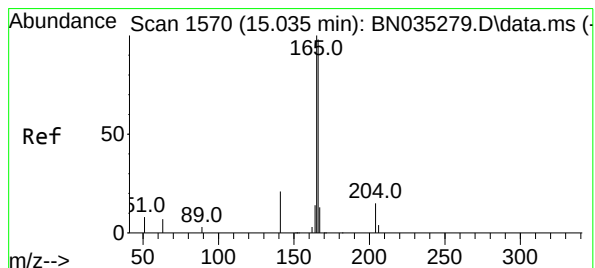
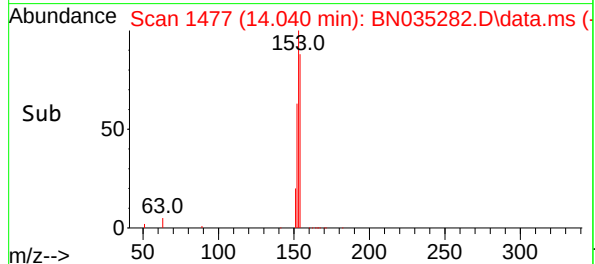
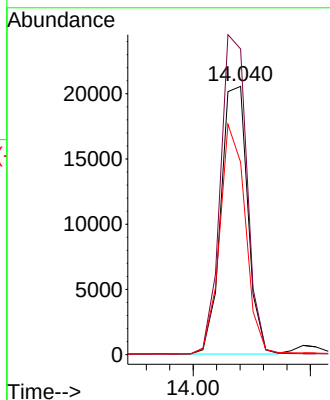
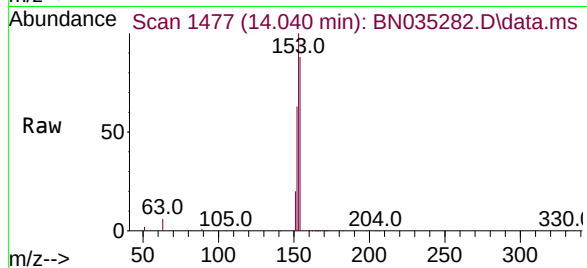




#17
Acenaphthene
Concen: 3.960 ng
RT: 14.040 min Scan# 1476
Delta R.T. 0.011 min
Lab File: BN035282.D
Acq: 25 Nov 2024 13:16

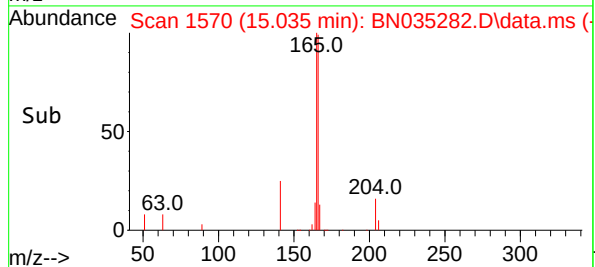
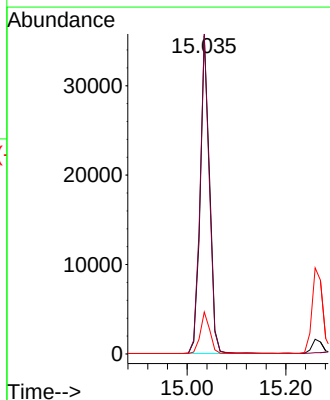
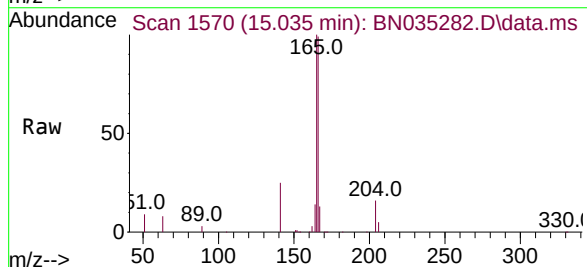
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

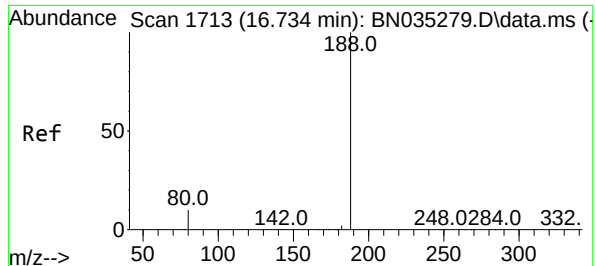
Tgt Ion:154 Resp: 32466
Ion Ratio Lower Upper
154 100
153 118.6 96.1 144.1
152 82.9 72.2 108.2



#18
Fluorene
Concen: 3.855 ng
RT: 15.035 min Scan# 1570
Delta R.T. -0.000 min
Lab File: BN035282.D
Acq: 25 Nov 2024 13:16

Tgt Ion:166 Resp: 46490
Ion Ratio Lower Upper
166 100
165 100.0 81.2 121.8
167 13.3 10.5 15.7





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.734 min Scan# 1713

Delta R.T. -0.000 min

Lab File: BN035282.D

Acq: 25 Nov 2024 13:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

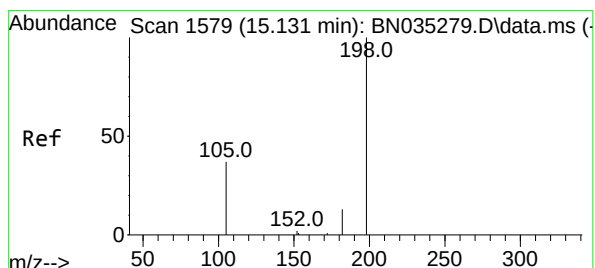
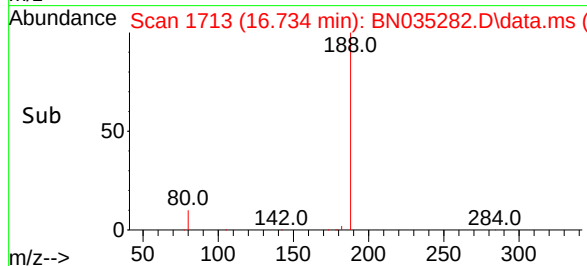
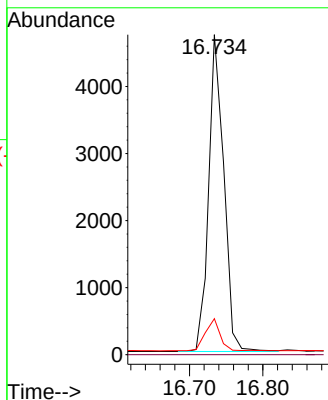
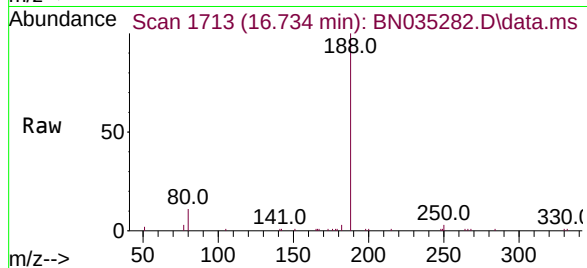
Tgt Ion:188 Resp: 6761

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.3 8.9 13.3



#20

4,6-Dinitro-2-methylphenol

Concen: 2.137 ng

RT: 15.131 min Scan# 1579

Delta R.T. -0.000 min

Lab File: BN035282.D

Acq: 25 Nov 2024 13:16

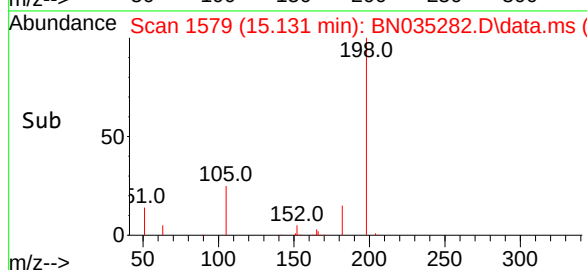
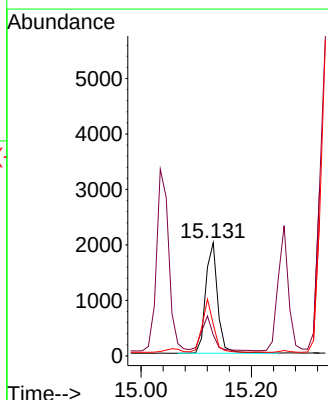
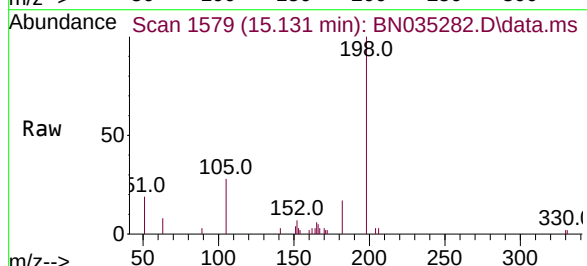
Tgt Ion:198 Resp: 3008

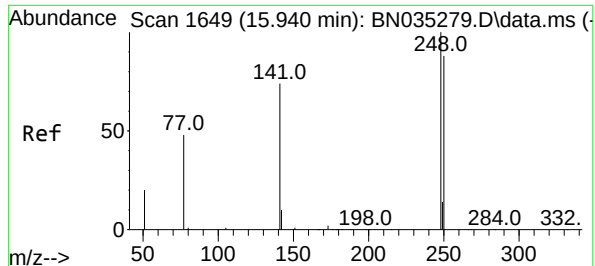
Ion Ratio Lower Upper

198 100

51 18.6 53.6 80.4#

105 28.0 47.4 71.2#

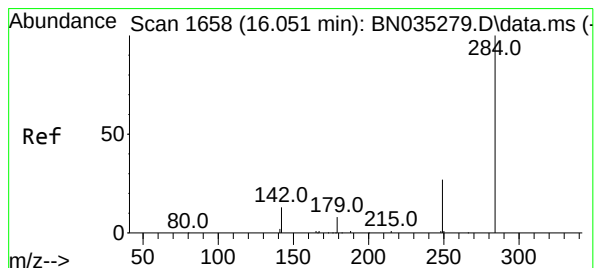
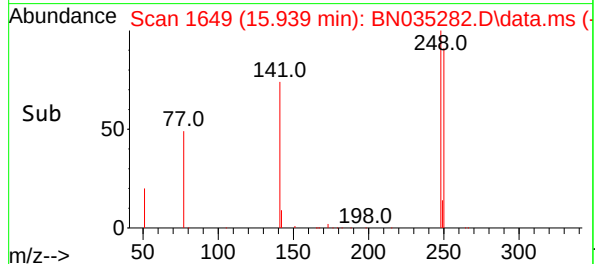
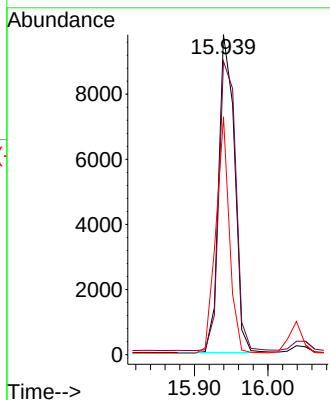
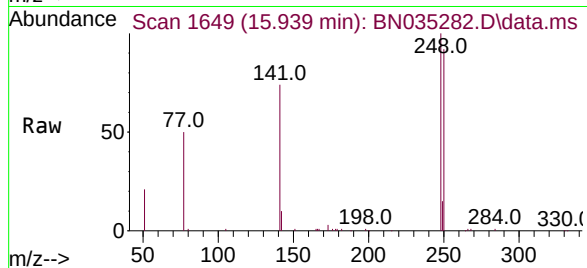




#21
4-Bromophenyl-phenylether
Concen: 3.399 ng
RT: 15.939 min Scan# 1649
Delta R.T. -0.000 min
Lab File: BN035282.D
Acq: 25 Nov 2024 13:16

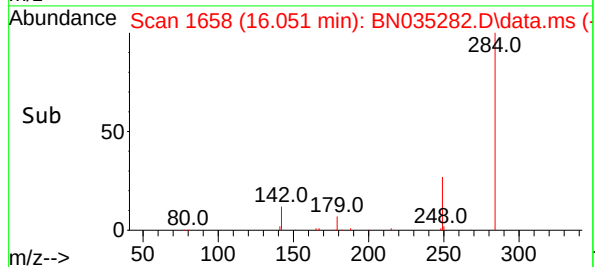
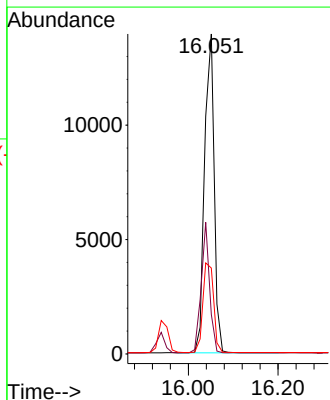
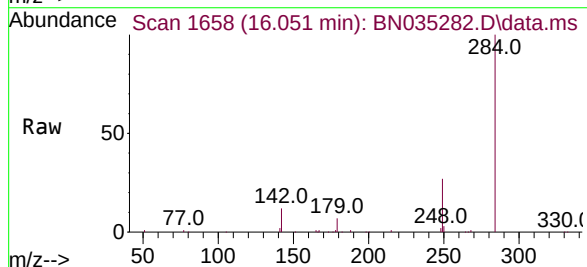
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

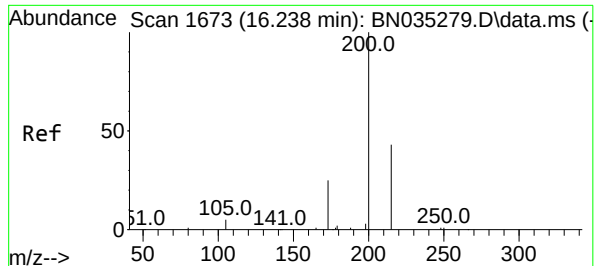
Tgt Ion	Ratio	Lower	Upper
248	100		
250	91.7	74.8	112.2
141	74.4	59.0	88.4



#22
Hexachlorobenzene
Concen: 4.614 ng
RT: 16.051 min Scan# 1658
Delta R.T. -0.000 min
Lab File: BN035282.D
Acq: 25 Nov 2024 13:16

Tgt Ion	Ratio	Lower	Upper
284	100		
142	36.0	28.7	43.1
249	31.4	25.4	38.0

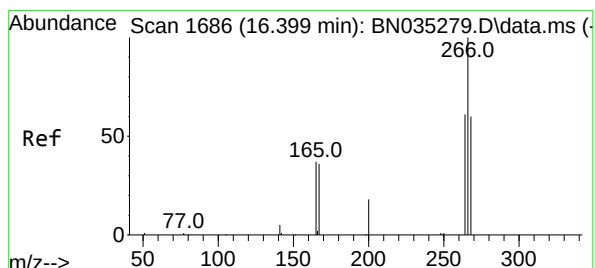
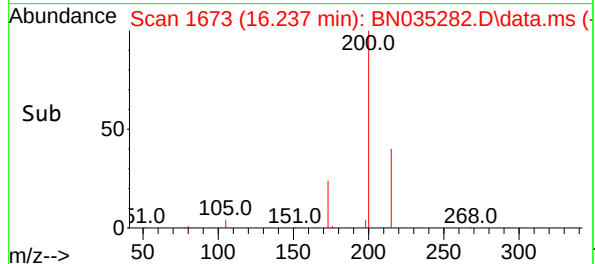
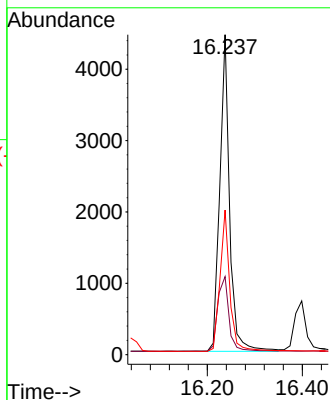
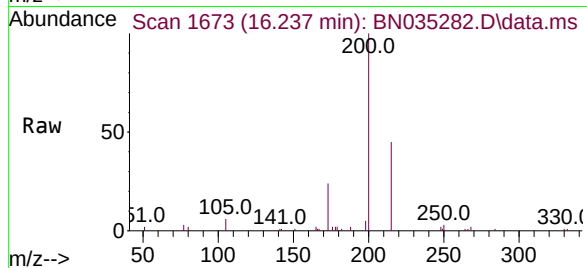




#23
Atrazine
Concen: 1.633 ng
RT: 16.237 min Scan# 1673
Delta R.T. -0.000 min
Lab File: BN035282.D
Acq: 25 Nov 2024 13:16

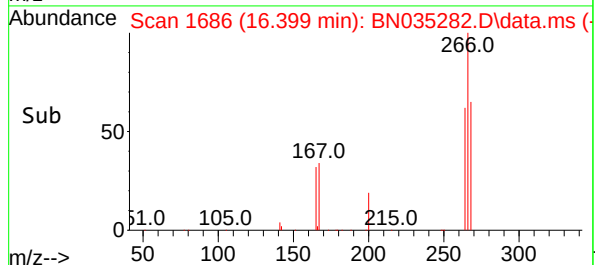
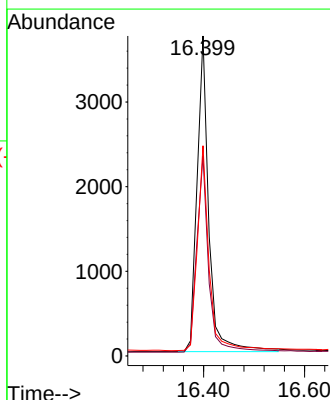
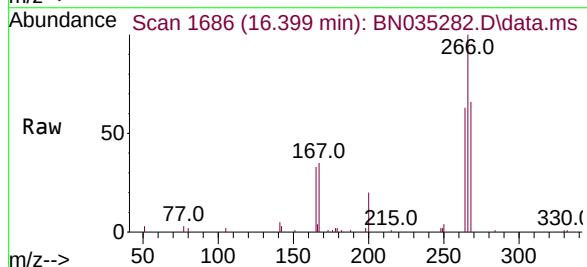
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

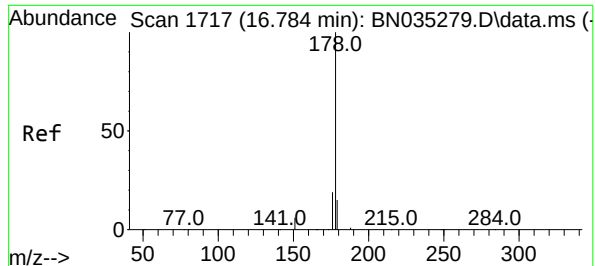
Tgt Ion:200 Resp: 6312
Ion Ratio Lower Upper
200 100
173 24.4 25.8 38.8#
215 45.2 38.6 58.0



#24
Pentachlorophenol
Concen: 2.888 ng
RT: 16.399 min Scan# 1686
Delta R.T. -0.000 min
Lab File: BN035282.D
Acq: 25 Nov 2024 13:16

Tgt Ion:266 Resp: 6031
Ion Ratio Lower Upper
266 100
264 62.7 49.3 73.9
268 64.9 48.6 73.0

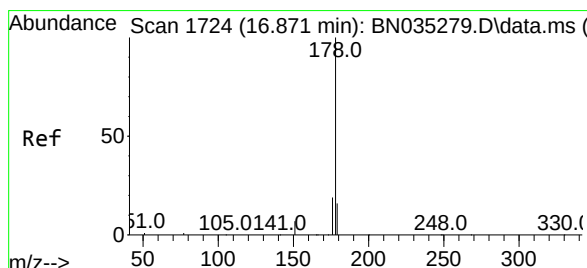
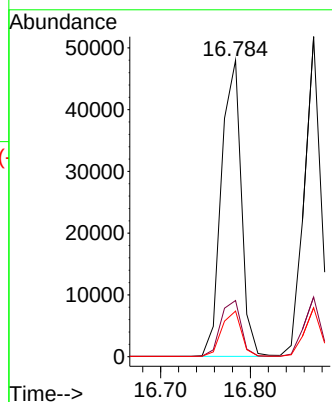
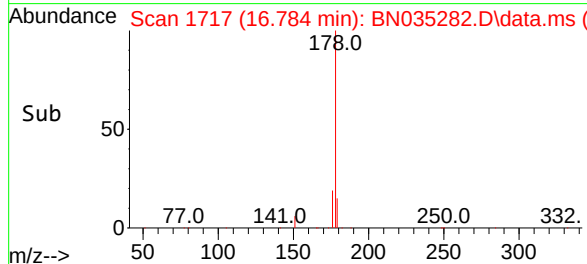
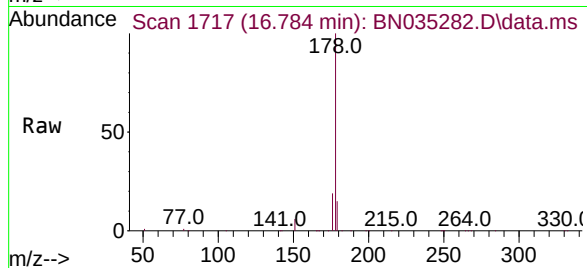




#25
Phenanthrene
Concen: 4.148 ng
RT: 16.784 min Scan# 1717
Delta R.T. -0.000 min
Lab File: BN035282.D
Acq: 25 Nov 2024 13:16

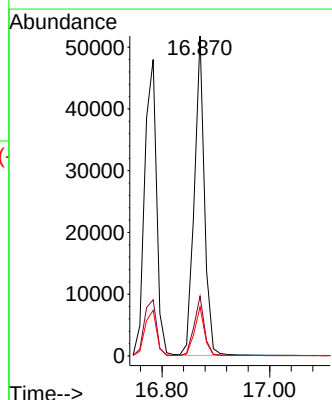
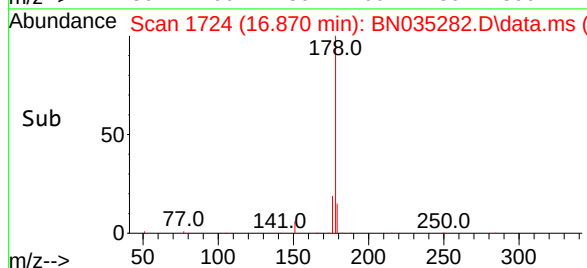
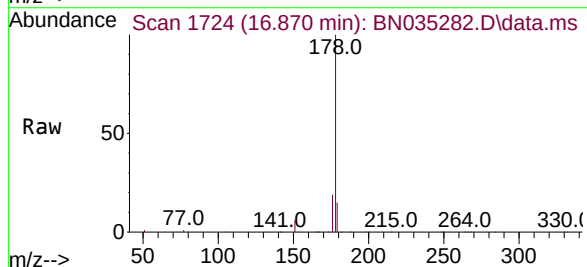
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

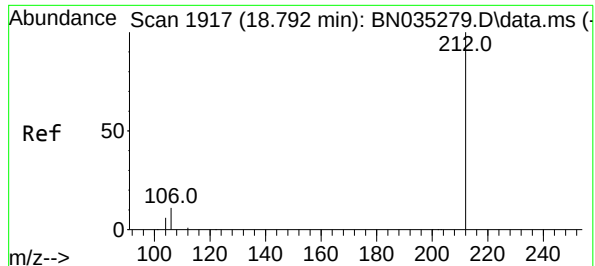
Tgt Ion:178 Resp: 73801
Ion Ratio Lower Upper
178 100
176 19.4 15.4 23.0
179 15.1 12.6 18.8



#26
Anthracene
Concen: 4.143 ng
RT: 16.870 min Scan# 1724
Delta R.T. -0.000 min
Lab File: BN035282.D
Acq: 25 Nov 2024 13:16

Tgt Ion:178 Resp: 67705
Ion Ratio Lower Upper
178 100
176 18.8 15.0 22.4
179 15.2 12.4 18.6





#27

Fluoranthene-d10

Concen: 3.195 ng

RT: 18.792 min Scan# 1917

Delta R.T. -0.000 min

Lab File: BN035282.D

Acq: 25 Nov 2024 13:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

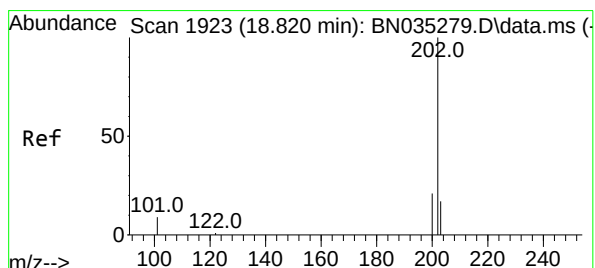
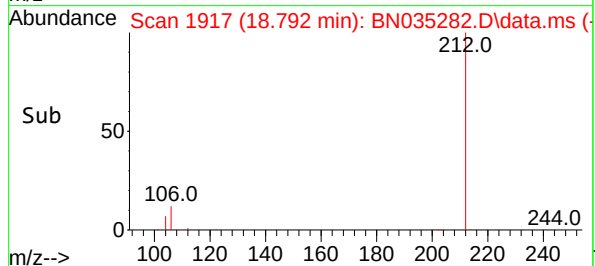
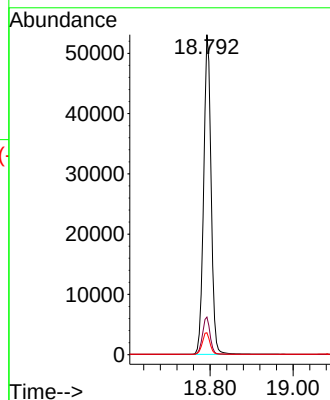
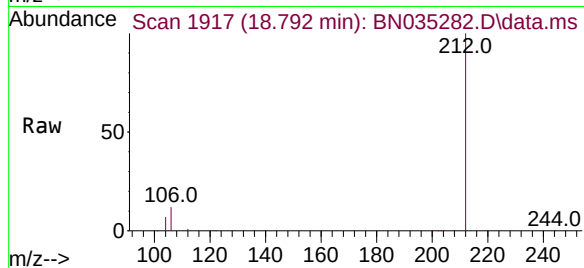
Tgt Ion:212 Resp: 66182

Ion Ratio Lower Upper

212 100

106 11.9 9.8 14.8

104 7.0 5.6 8.4



#28

Fluoranthene

Concen: 4.178 ng

RT: 18.825 min Scan# 1924

Delta R.T. 0.005 min

Lab File: BN035282.D

Acq: 25 Nov 2024 13:16

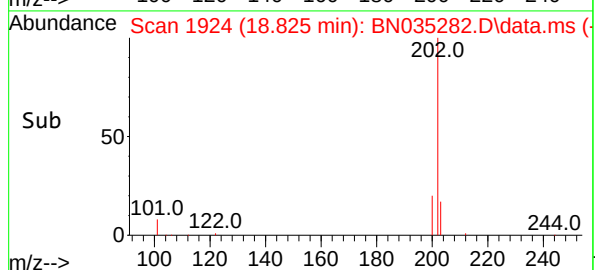
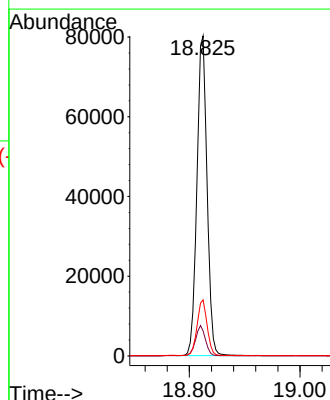
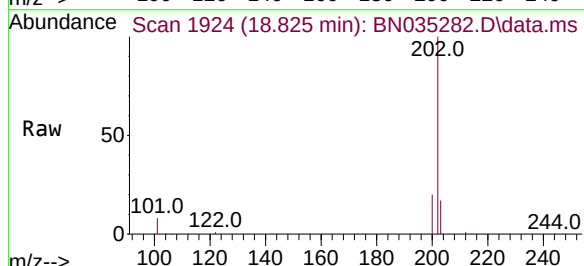
Tgt Ion:202 Resp: 102229

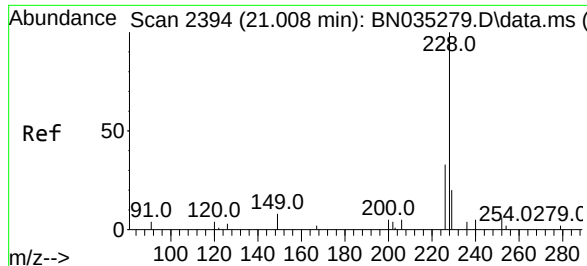
Ion Ratio Lower Upper

202 100

101 9.3 7.6 11.4

203 17.3 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.008 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035282.D

Acq: 25 Nov 2024 13:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

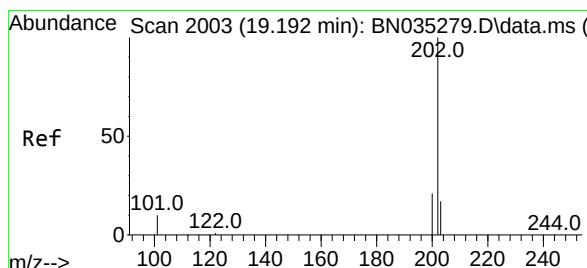
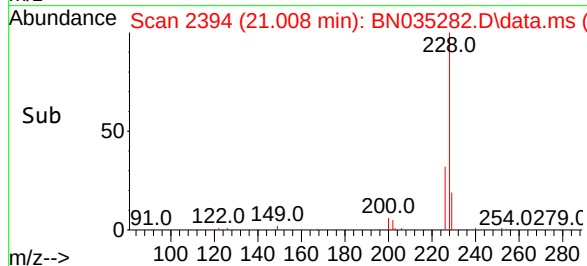
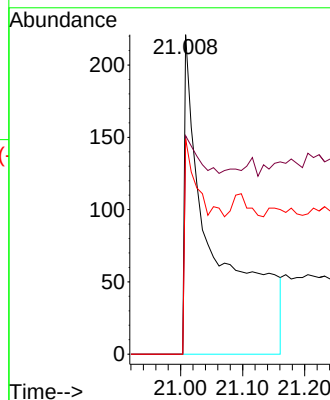
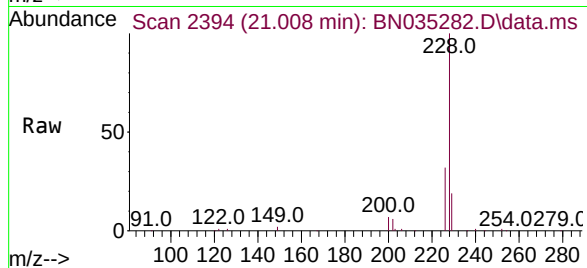
Tgt Ion:240 Resp: 721

Ion Ratio Lower Upper

240 100

120 68.3 54.9 82.3

236 67.4 54.0 81.0



#30

Pyrene

Concen: 38.808 ng

RT: 19.192 min Scan# 2003

Delta R.T. -0.000 min

Lab File: BN035282.D

Acq: 25 Nov 2024 13:16

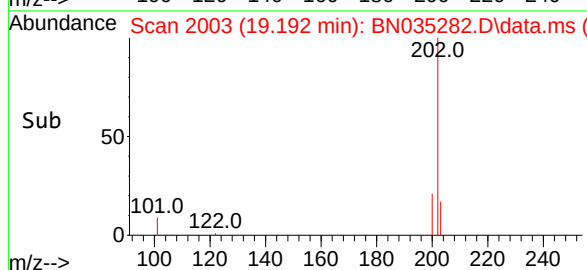
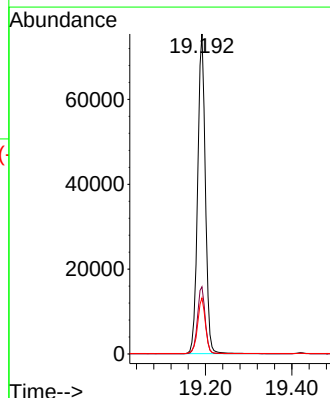
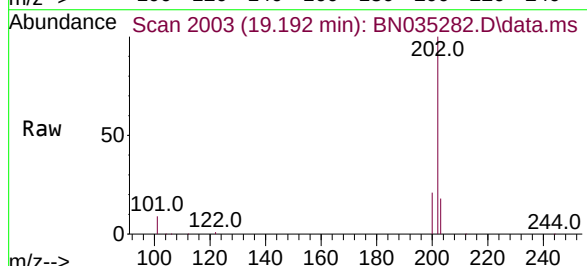
Tgt Ion:202 Resp: 93180

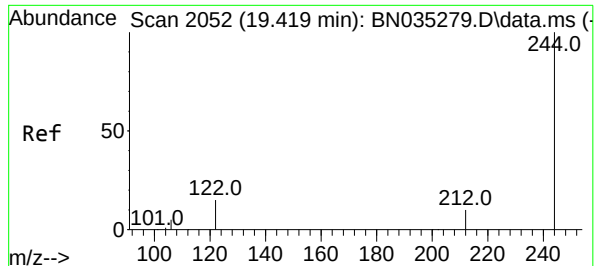
Ion Ratio Lower Upper

202 100

200 21.2 16.8 25.2

203 17.7 14.4 21.6

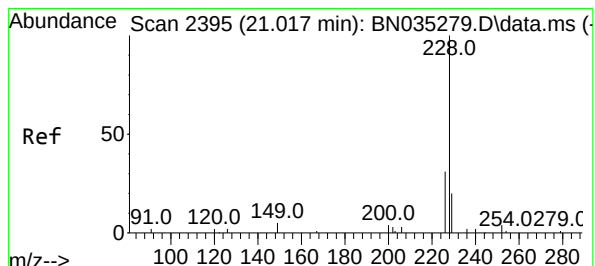
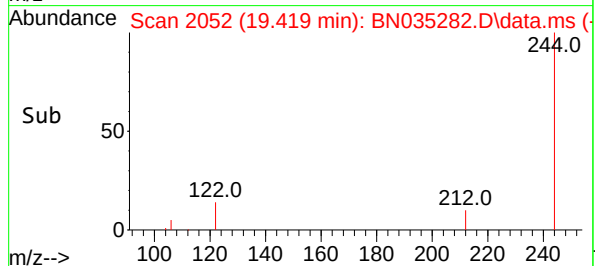
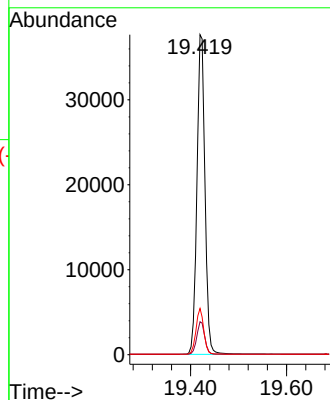
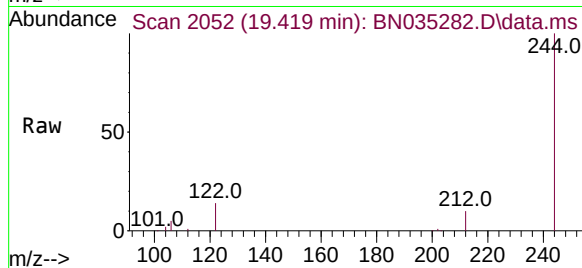




#31
Terphenyl-d14
Concen: 29.144 ng
RT: 19.419 min Scan# 2052
Delta R.T. -0.000 min
Lab File: BN035282.D
Acq: 25 Nov 2024 13:16

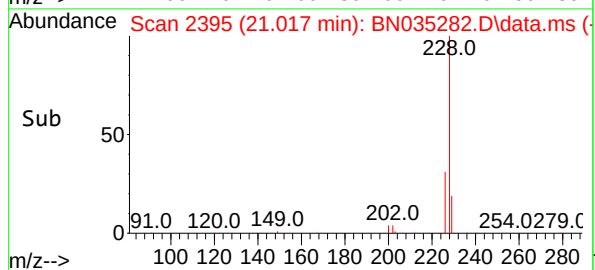
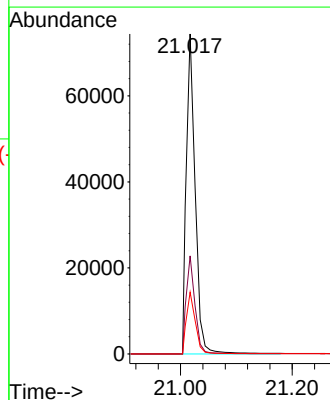
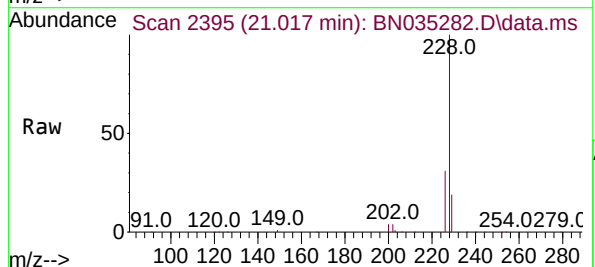
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

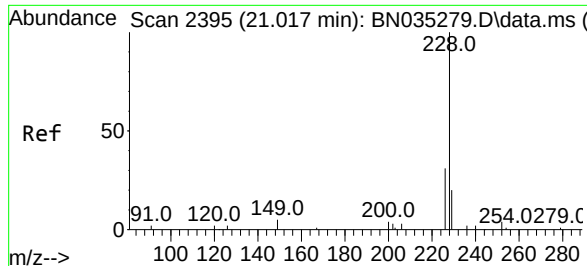
Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.3	9.4	14.0
122	14.5	13.0	19.4



#32
Benzo(a)anthracene
Concen: 33.051 ng
RT: 21.017 min Scan# 2395
Delta R.T. -0.000 min
Lab File: BN035282.D
Acq: 25 Nov 2024 13:16

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.7	24.7	37.1
229	19.3	16.2	24.2





#33

Chrysene

Concen: 33.364 ng

RT: 21.017 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035282.D

Acq: 25 Nov 2024 13:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

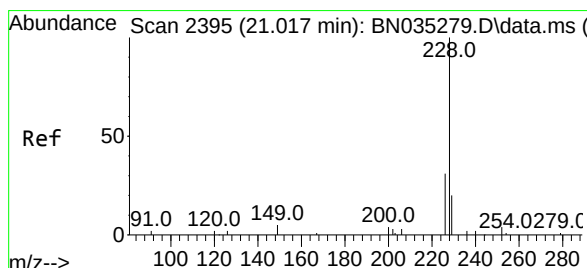
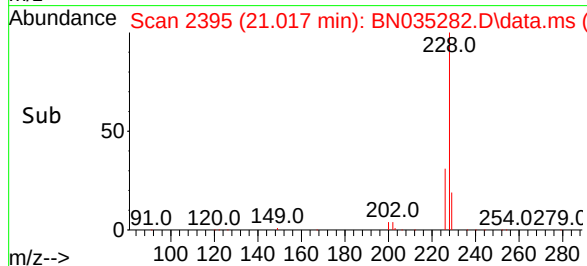
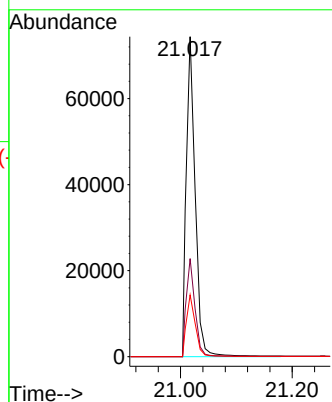
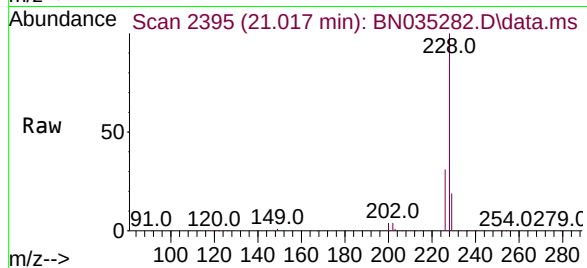
Tgt Ion:228 Resp: 82975

Ion Ratio Lower Upper

228 100

226 30.7 24.7 37.1

229 19.3 16.2 24.2



#34

Bis(2-ethylhexyl)phthalate

Concen: 1.002 ng

RT: 21.017 min Scan# 2395

Delta R.T. -0.000 min

Lab File: BN035282.D

Acq: 25 Nov 2024 13:16

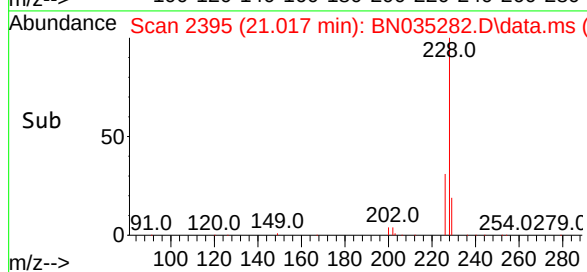
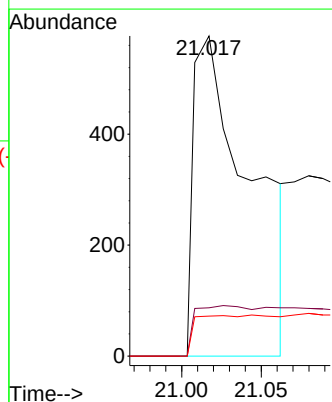
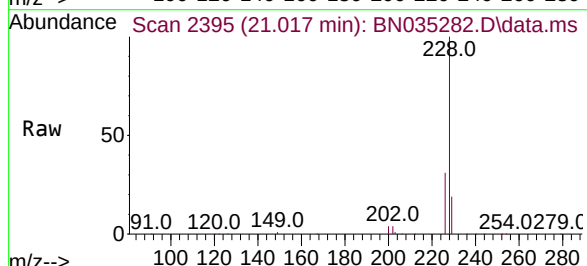
Tgt Ion:149 Resp: 1320

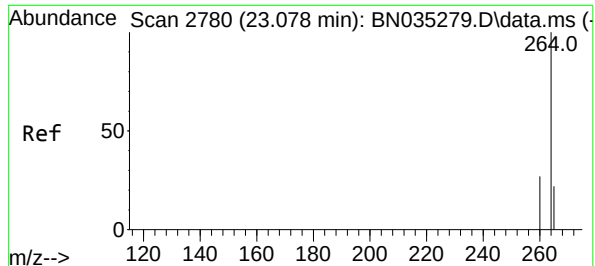
Ion Ratio Lower Upper

149 100

167 14.9 0.0 0.0#

279 9.5 13.0 19.6#

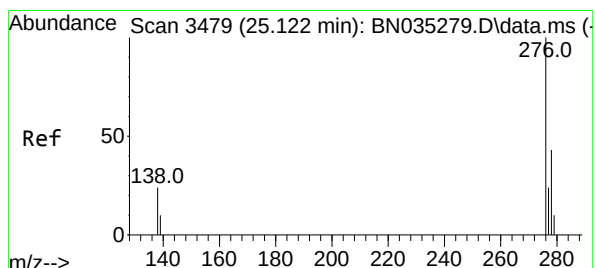
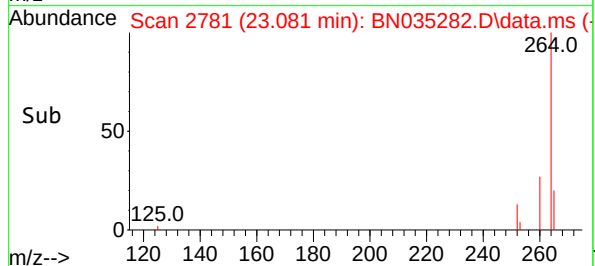
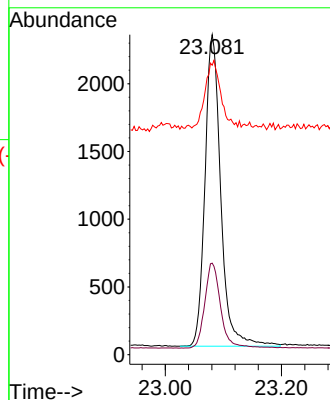
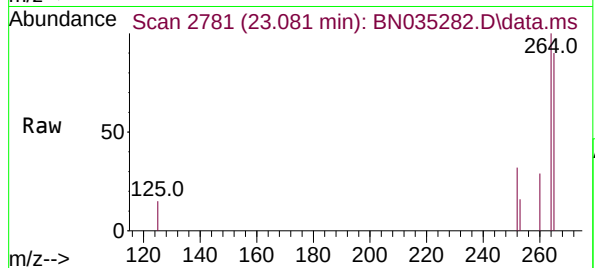




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.081 min Scan# 21
Delta R.T. 0.003 min
Lab File: BN035282.D
Acq: 25 Nov 2024 13:16

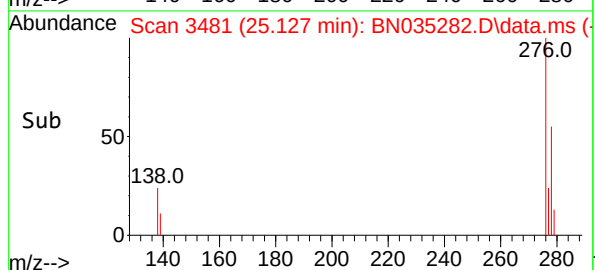
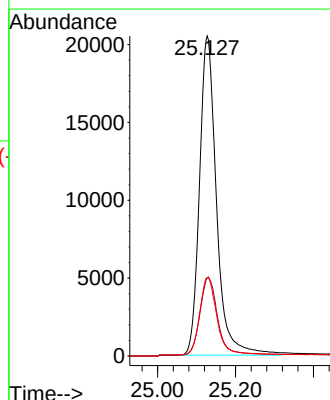
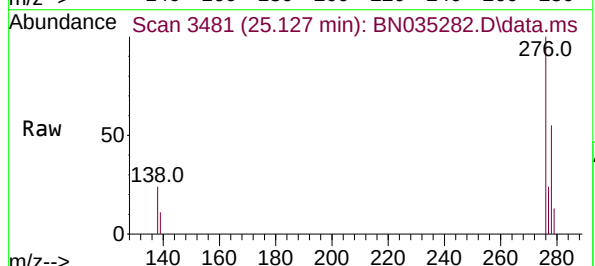
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

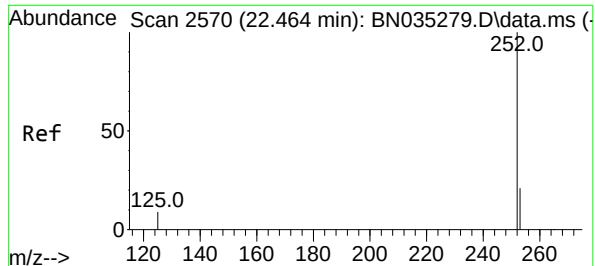
Tgt Ion:264 Resp: 4343
Ion Ratio Lower Upper
264 100
260 28.6 22.3 33.5
265 90.4 68.6 103.0



#36
Indeno(1,2,3-cd)pyrene
Concen: 3.583 ng
RT: 25.127 min Scan# 3481
Delta R.T. 0.006 min
Lab File: BN035282.D
Acq: 25 Nov 2024 13:16

Tgt Ion:276 Resp: 62075
Ion Ratio Lower Upper
276 100
138 24.8 18.8 28.2
277 24.5 18.2 27.4





#37

Benzo(b)fluoranthene

Concen: 4.767 ng

RT: 22.467 min Scan# 2570

Delta R.T. 0.003 min

Lab File: BN035282.D

Acq: 25 Nov 2024 13:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

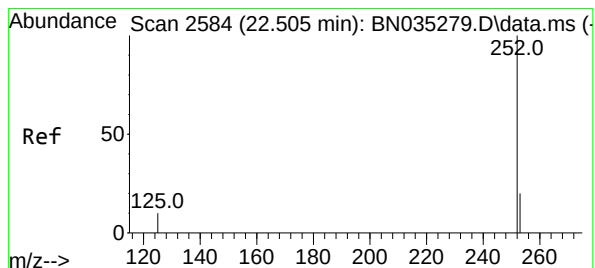
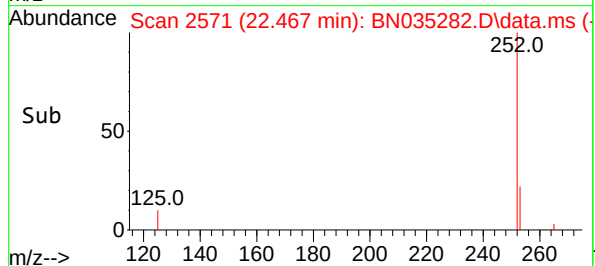
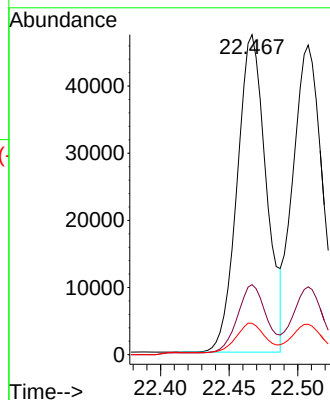
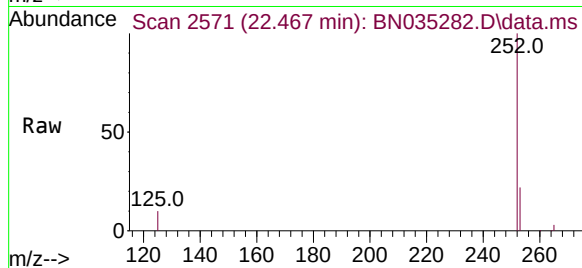
Tgt Ion:252 Resp: 69657

Ion Ratio Lower Upper

252 100

253 21.9 20.2 30.2

125 9.8 12.0 18.0#



#38

Benzo(k)fluoranthene

Concen: 4.941 ng

RT: 22.508 min Scan# 2585

Delta R.T. 0.003 min

Lab File: BN035282.D

Acq: 25 Nov 2024 13:16

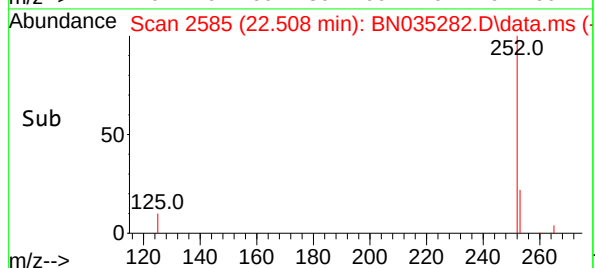
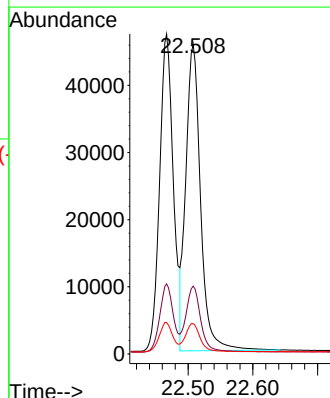
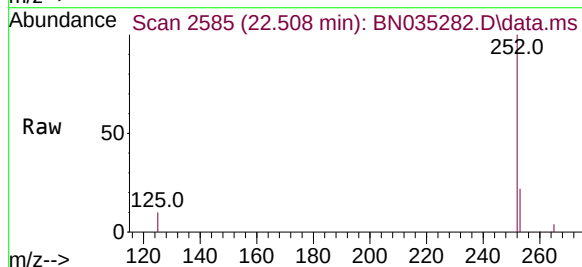
Tgt Ion:252 Resp: 72243

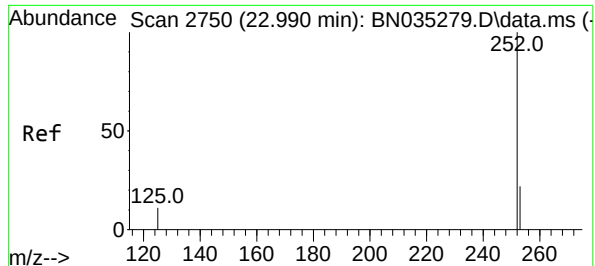
Ion Ratio Lower Upper

252 100

253 21.9 20.1 30.1

125 9.8 12.7 19.1#





#39

Benzo(a)pyrene

Concen: 3.987 ng

RT: 22.990 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035282.D

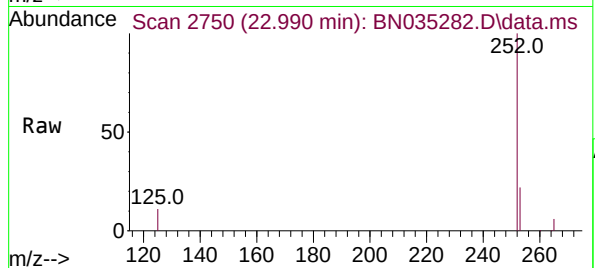
Acq: 25 Nov 2024 13:16

Instrument :

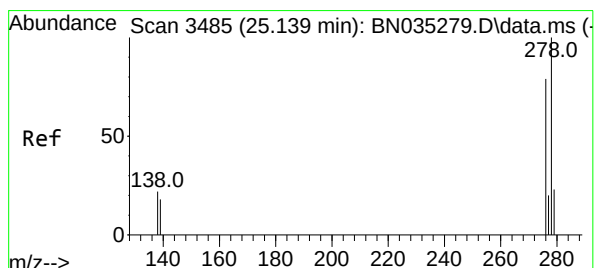
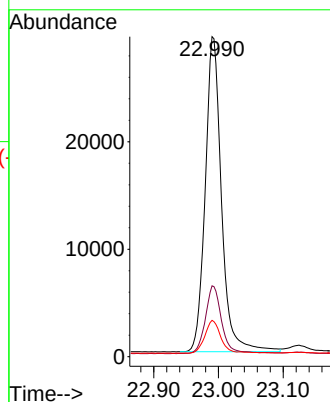
BNA_N

ClientSampleId :

SSTDICC3.2



Tgt Ion:	252	Resp:	51266
Ion Ratio	Lower	Upper	
252	100		
253	22.1	22.3	33.5#
125	11.3	15.3	22.9#



#40

Dibenzo(a,h)anthracene

Concen: 3.547 ng

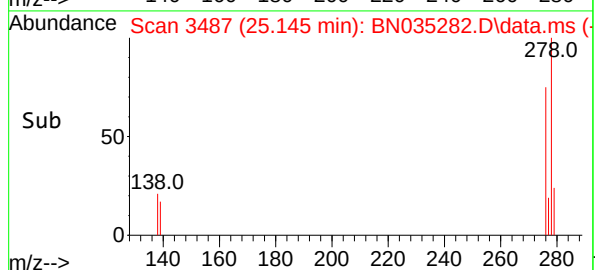
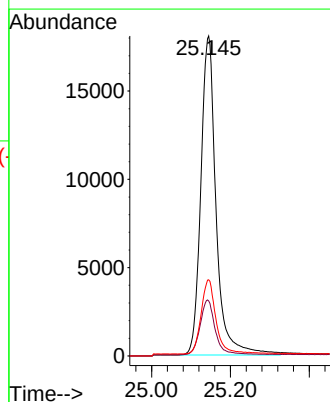
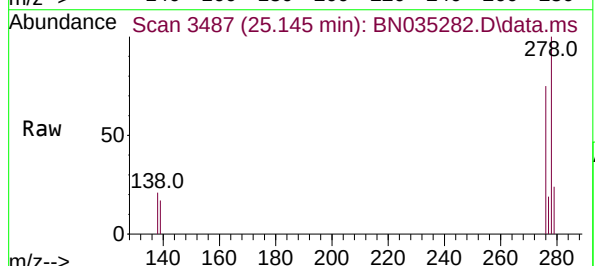
RT: 25.145 min Scan# 3487

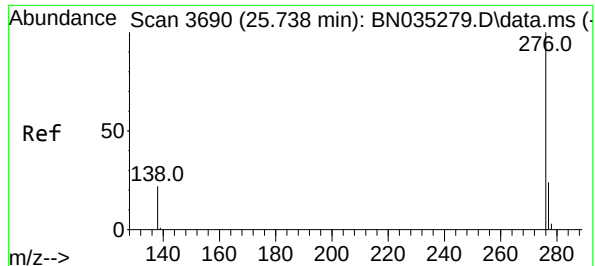
Delta R.T. 0.006 min

Lab File: BN035282.D

Acq: 25 Nov 2024 13:16

Tgt Ion:	278	Resp:	48696
Ion Ratio	Lower	Upper	
278	100		
139	17.2	17.0	25.6
279	23.8	23.0	34.4





#41

Benzo(g,h,i)perylene

Concen: 3.610 ng

RT: 25.744 min Scan# 30

Delta R.T. 0.006 min

Lab File: BN035282.D

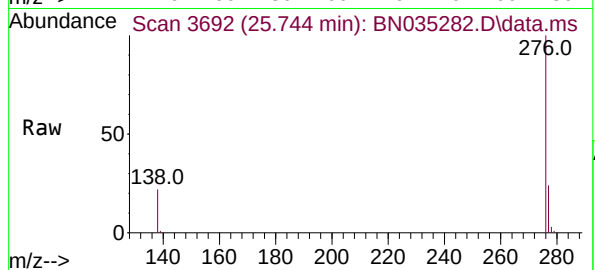
Acq: 25 Nov 2024 13:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



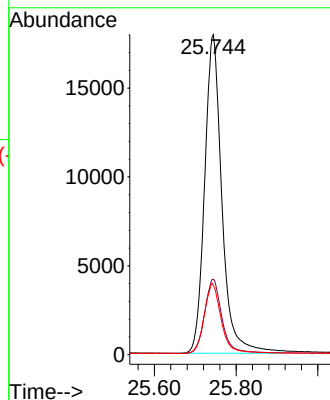
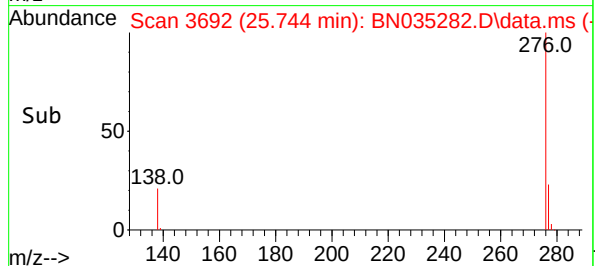
Tgt Ion:276 Resp: 52706

Ion Ratio Lower Upper

276 100

277 23.6 21.1 31.7

138 21.6 19.8 29.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
 Data File : BN035283.D
 Acq On : 25 Nov 2024 13:52
 Operator : RC/JU
 Sample : SSTDICC5.0
 Misc :
 ALS Vial : 58 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC5.0

Quant Time: Nov 25 14:21:51 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Nov 25 14:16:35 2024
 Response via : Initial Calibration

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

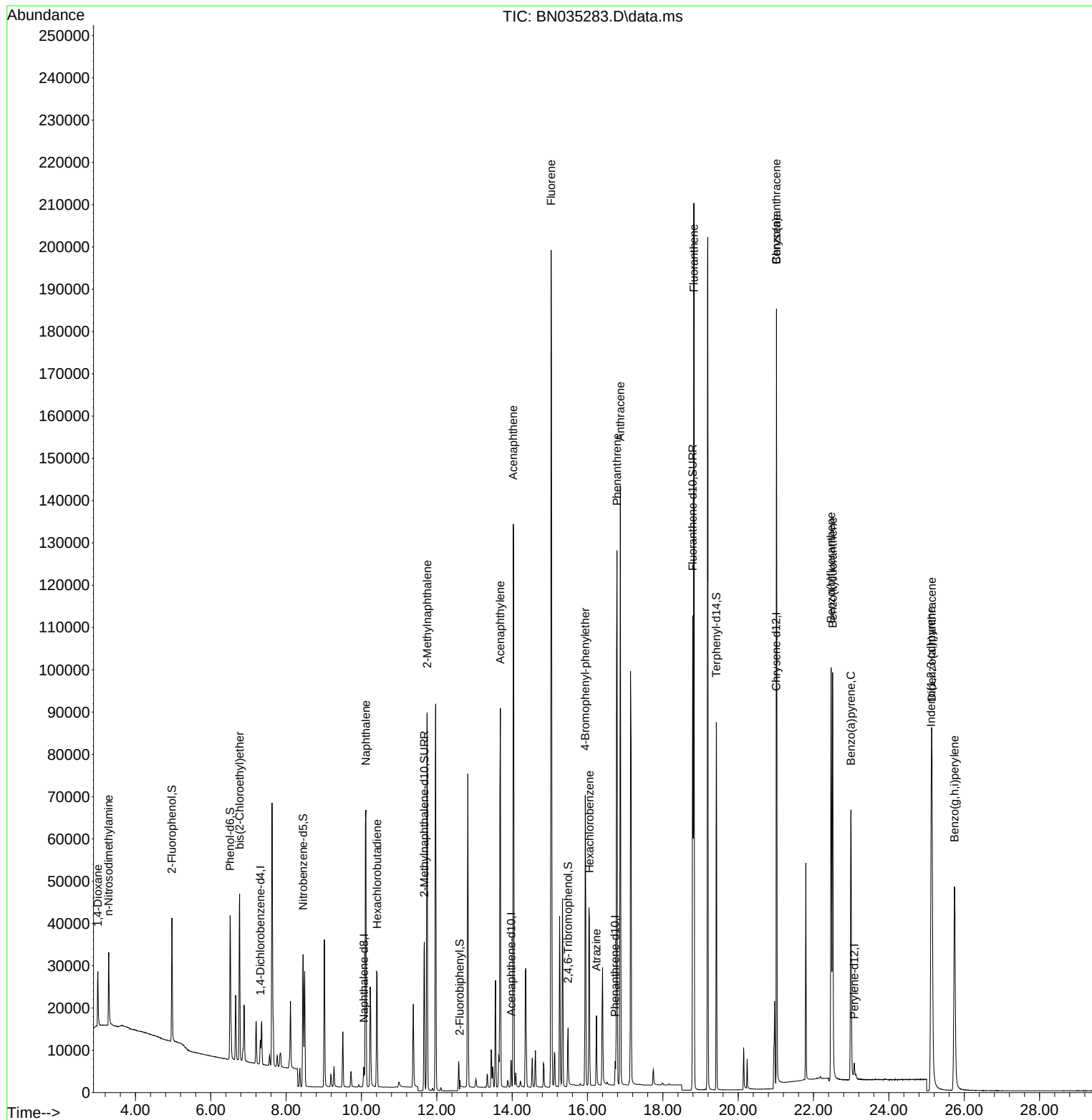
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.315	152	2617	0.400	ng	0.00
7) Naphthalene-d8	10.063	136	5861	0.400	ng	0.00
13) Acenaphthene-d10	13.976	164	3371	0.400	ng	0.00
19) Phenanthrene-d10	16.734	188	7456	0.400	ng	0.00
29) Chrysene-d12	21.008	240	600	0.400	ng	0.00
35) Perylene-d12	23.081	264	4243	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.968	112	23473	3.533	ng	0.00
5) Phenol-d6	6.513	99	31227	3.749	ng	0.00
8) Nitrobenzene-d5	8.450	82	25967	5.090	ng	0.00
11) 2-Methylnaphthalene-d10	11.667	152	45135	4.321	ng	0.00
14) 2,4,6-Tribromophenol	15.484	330	11465	4.715	ng	0.00
15) 2-Fluorobiphenyl	12.608	172	1400	0.102	ng	0.00
27) Fluoranthene-d10	18.792	212	118272	5.178	ng	0.00
31) Terphenyl-d14	19.419	244	77655	61.679	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.003	88	8723	3.670	ng	# 76
3) n-Nitrosodimethylamine	3.285	42	10016	4.521	ng	# 85
6) bis(2-Chloroethyl)ether	6.766	93	28430	4.547	ng	100
9) Naphthalene	10.116	128	86023	5.622	ng	98
10) Hexachlorobutadiene	10.415	225	23614	5.265	ng	# 100
12) 2-Methylnaphthalene	11.742	142	60715	5.378	ng	98
16) Acenaphthylene	13.688	152	96646	6.708	ng	100
17) Acenaphthene	14.030	154	62066	6.574	ng	92
18) Fluorene	15.035	166	87161	6.276	ng	99
21) 4-Bromophenyl-phenylether	15.939	248	27951	5.884	ng	91
22) Hexachlorobenzene	16.051	284	36728	7.450	ng	99
23) Atrazine	16.237	200	12358	2.900	ng	# 92
25) Phenanthrene	16.784	178	134973	6.879	ng	99
26) Anthracene	16.870	178	127410	7.069	ng	100
28) Fluoranthene	18.825	202	177741	6.587	ng	100
32) Benzo(a)anthracene	21.017	228	128544	61.527	ng	99
33) Chrysene	21.017	228	128544	62.111	ng	99
36) Indeno(1,2,3-cd)pyrene	25.124	276	108670	6.420	ng	96
37) Benzo(b)fluoranthene	22.467	252	109463	7.668	ng	# 91
38) Benzo(k)fluoranthene	22.508	252	114816	8.038	ng	# 90
39) Benzo(a)pyrene	22.993	252	84108	6.696	ng	# 86
40) Dibenzo(a,h)anthracene	25.142	278	85497	6.375	ng	91
41) Benzo(g,h,i)perylene	25.741	276	92138	6.459	ng	95

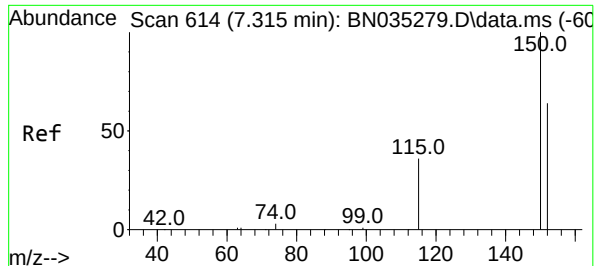
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN035283.D
Acq On : 25 Nov 2024 13:52
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 58 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

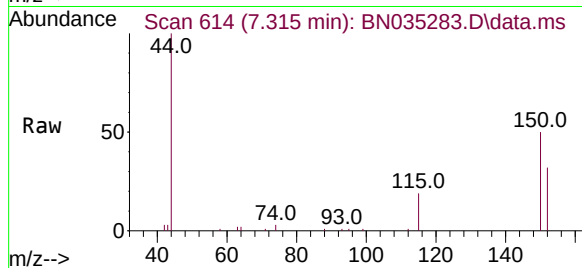
Quant Time: Nov 25 14:21:51 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 25 14:16:35 2024
Response via : Initial Calibration



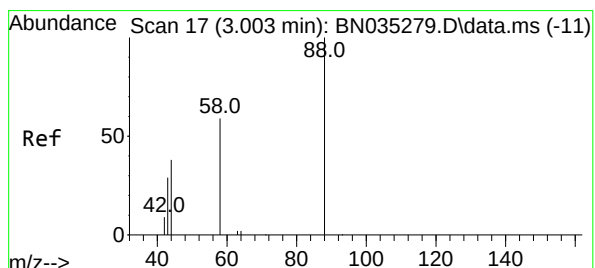
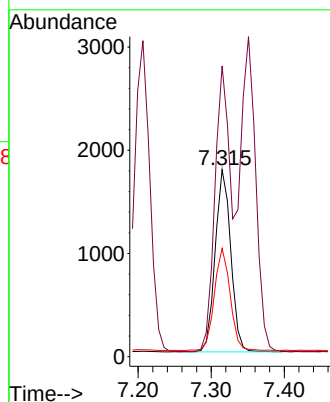
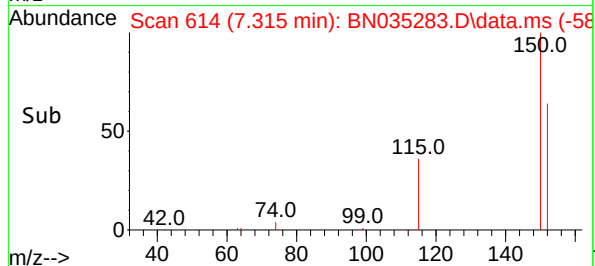


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.315 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035283.D
Acq: 25 Nov 2024 13:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

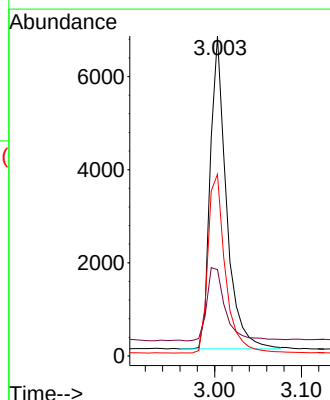
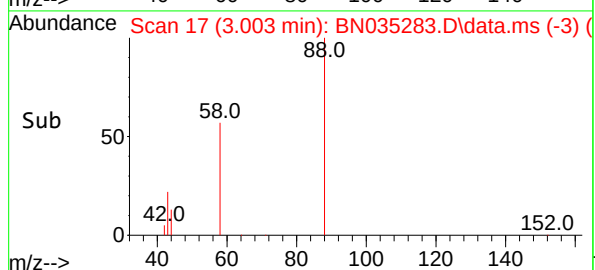
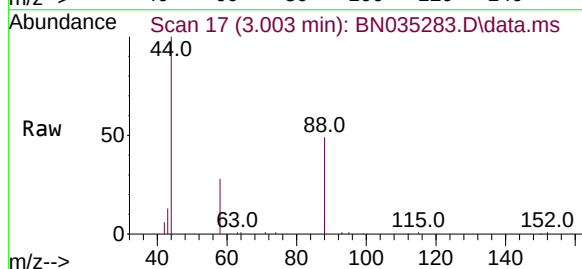


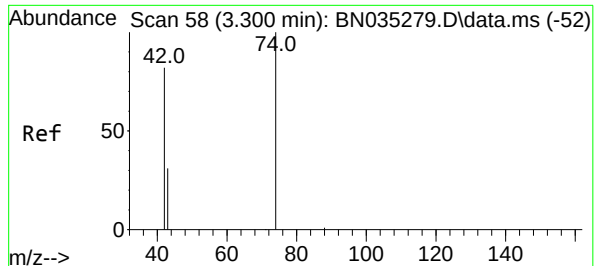
Tgt Ion:152 Resp: 2617
Ion Ratio Lower Upper
152 100
150 155.4 124.5 186.7
115 57.9 47.8 71.8



#2
1,4-Dioxane
Concen: 3.670 ng
RT: 3.003 min Scan# 17
Delta R.T. -0.000 min
Lab File: BN035283.D
Acq: 25 Nov 2024 13:52

Tgt Ion: 88 Resp: 8723
Ion Ratio Lower Upper
88 100
43 27.1 48.1 72.1#
58 61.7 46.9 70.3

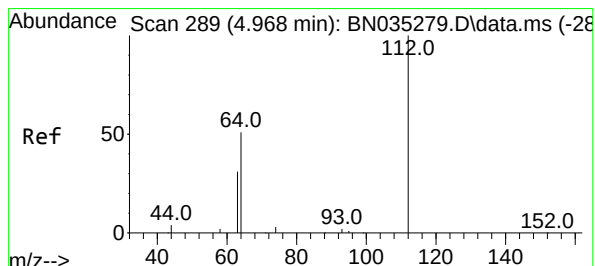
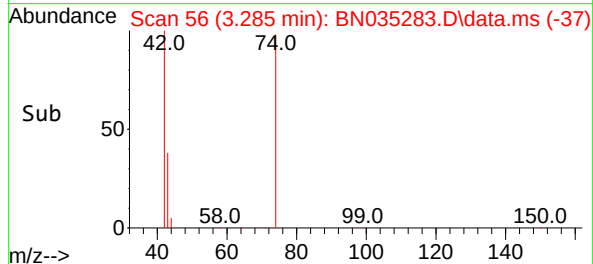
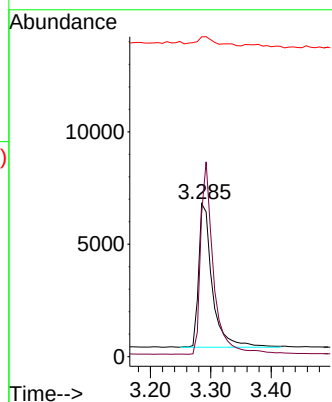
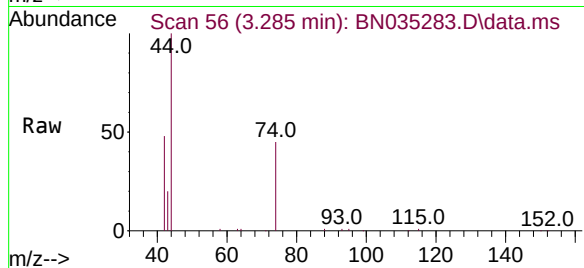




#3
n-Nitrosodimethylamine
Concen: 4.521 ng
RT: 3.285 min Scan# 50
Delta R.T. -0.015 min
Lab File: BN035283.D
Acq: 25 Nov 2024 13:52

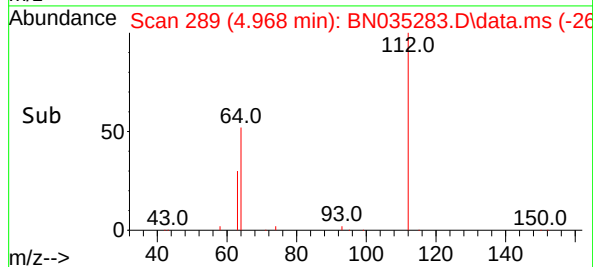
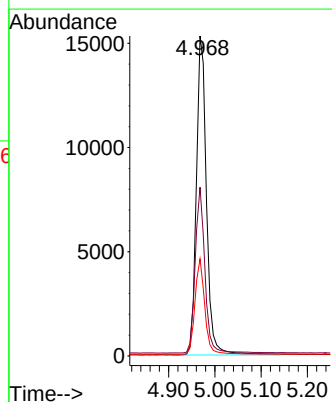
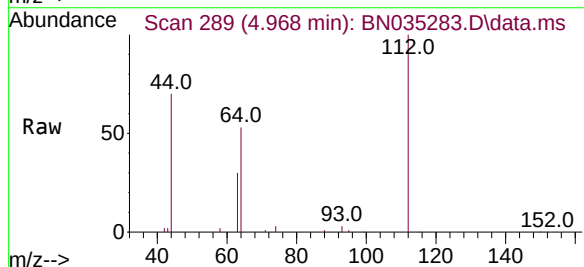
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

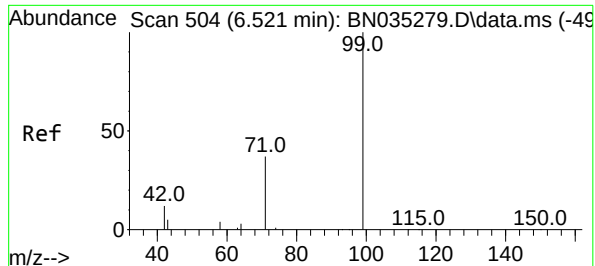
Tgt Ion: 42 Resp: 10016
Ion Ratio Lower Upper
42 100
74 126.0 102.7 154.1
44 8.4 34.1 51.1#



#4
2-Fluorophenol
Concen: 3.533 ng
RT: 4.968 min Scan# 289
Delta R.T. -0.000 min
Lab File: BN035283.D
Acq: 25 Nov 2024 13:52

Tgt Ion: 112 Resp: 23473
Ion Ratio Lower Upper
112 100
64 50.0 40.4 60.6
63 29.1 23.8 35.8

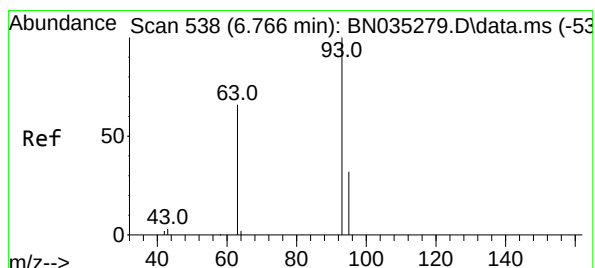
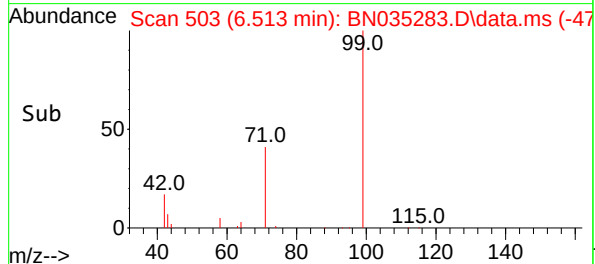
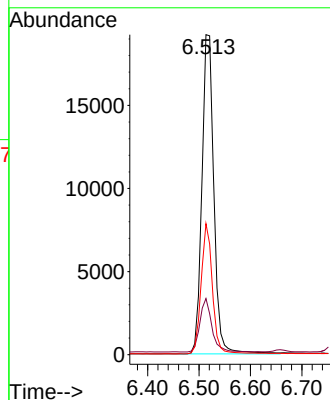
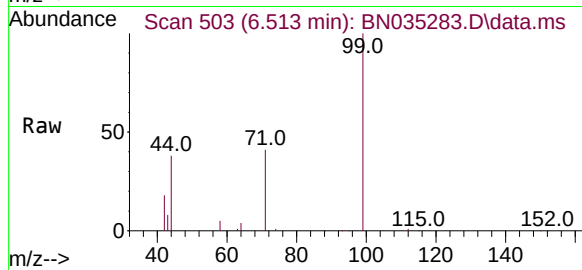




#5
Phenol-d6
Concen: 3.749 ng
RT: 6.513 min Scan# 504
Delta R.T. -0.007 min
Lab File: BN035283.D
Acq: 25 Nov 2024 13:52

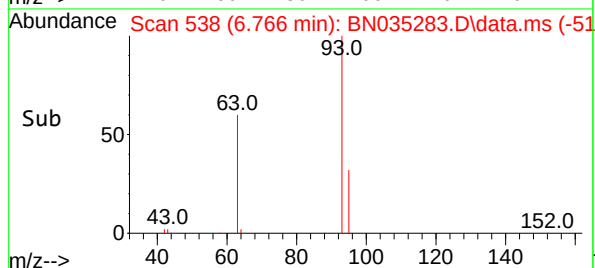
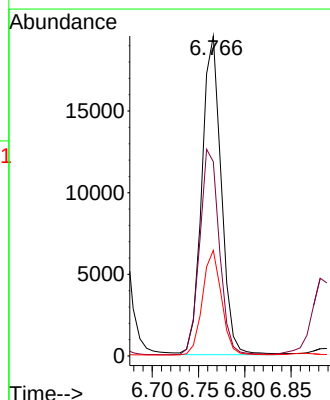
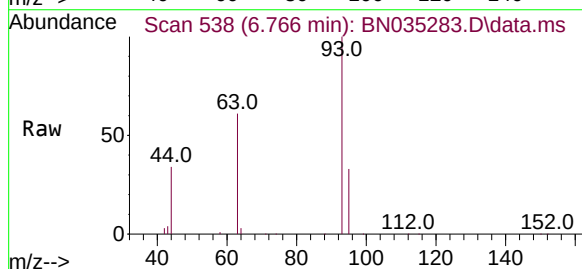
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

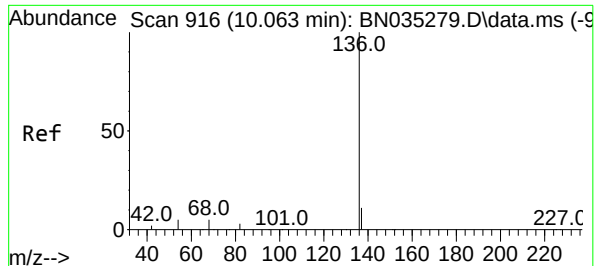
Tgt Ion: 99 Resp: 31227
Ion Ratio Lower Upper
99 100
42 16.8 12.8 19.2
71 38.6 31.4 47.2



#6
bis(2-Chloroethyl)ether
Concen: 4.547 ng
RT: 6.766 min Scan# 538
Delta R.T. -0.000 min
Lab File: BN035283.D
Acq: 25 Nov 2024 13:52

Tgt Ion: 93 Resp: 28430
Ion Ratio Lower Upper
93 100
63 65.4 52.3 78.5
95 32.2 25.5 38.3

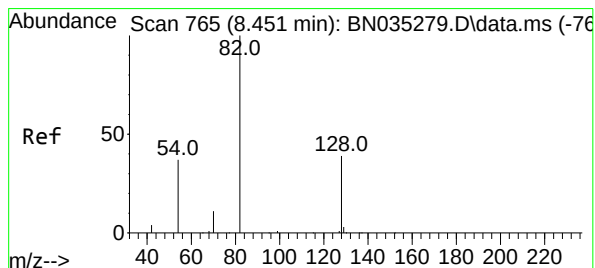
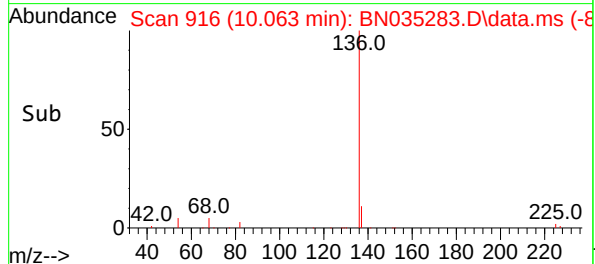
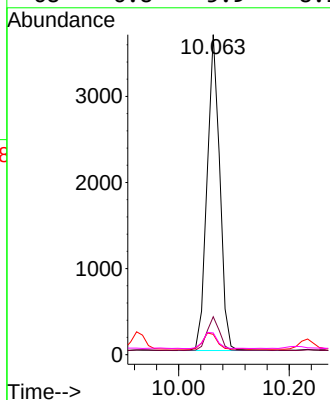
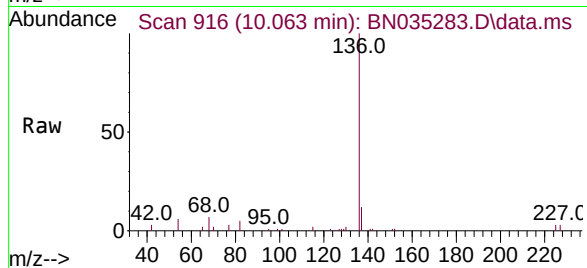




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.063 min Scan# 916
Delta R.T. -0.000 min
Lab File: BN035283.D
Acq: 25 Nov 2024 13:52

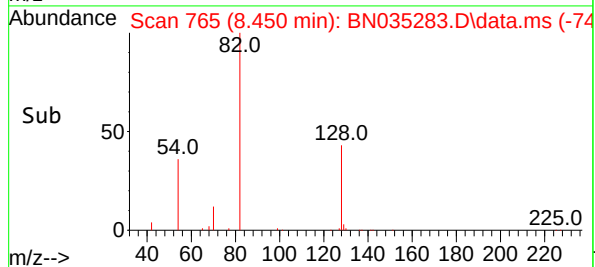
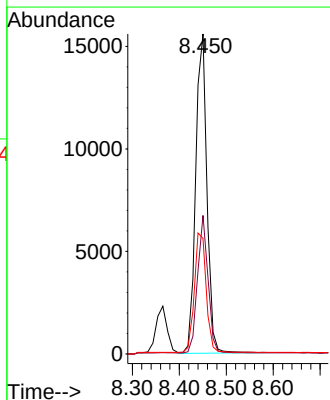
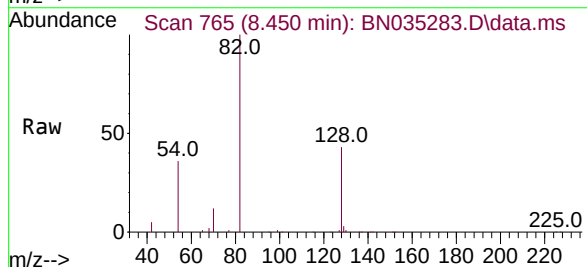
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

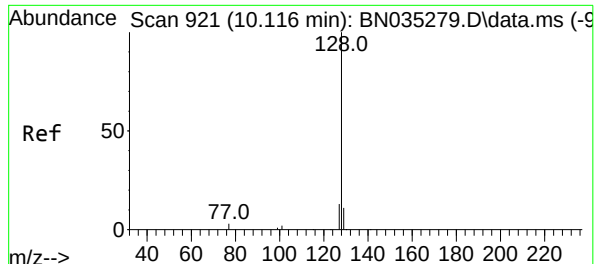
Tgt Ion:	136	Resp:	5861
Ion	Ratio	Lower	Upper
136	100		
137	11.9	9.7	14.5
54	6.3	5.3	7.9
68	6.8	5.9	8.9



#8
Nitrobenzene-d5
Concen: 5.090 ng
RT: 8.450 min Scan# 765
Delta R.T. -0.000 min
Lab File: BN035283.D
Acq: 25 Nov 2024 13:52

Tgt Ion:	82	Resp:	25967
Ion	Ratio	Lower	Upper
82	100		
128	43.3	33.0	49.4
54	36.1	33.3	49.9

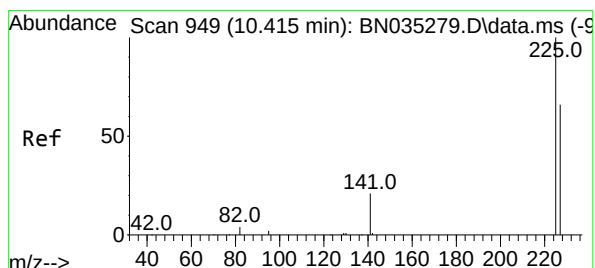
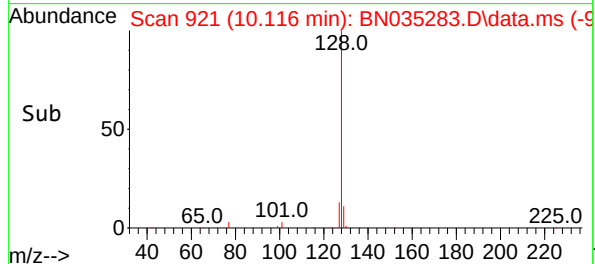
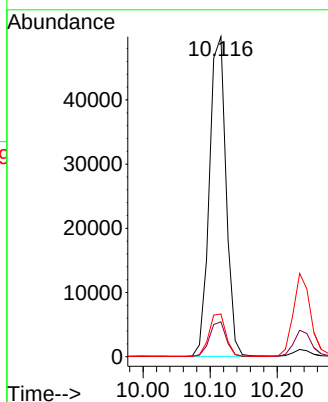
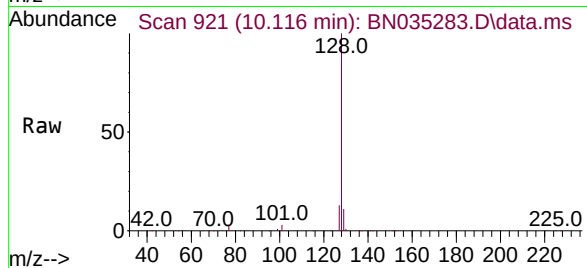




#9
Naphthalene
Concen: 5.622 ng
RT: 10.116 min Scan# 921
Delta R.T. -0.000 min
Lab File: BN035283.D
Acq: 25 Nov 2024 13:52

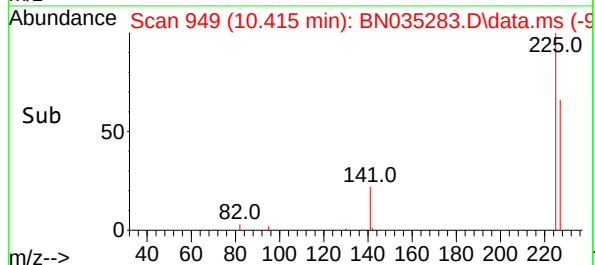
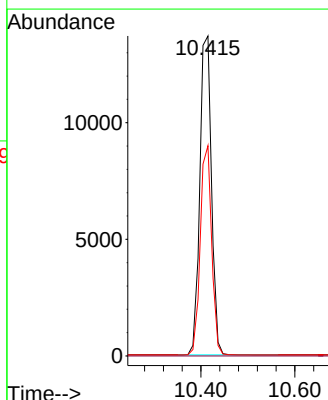
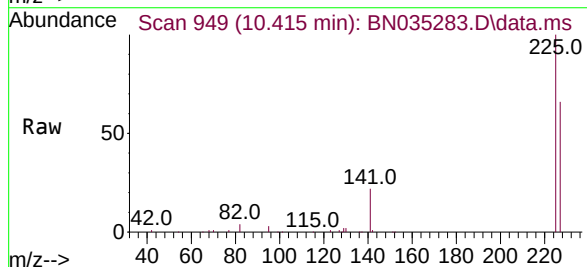
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

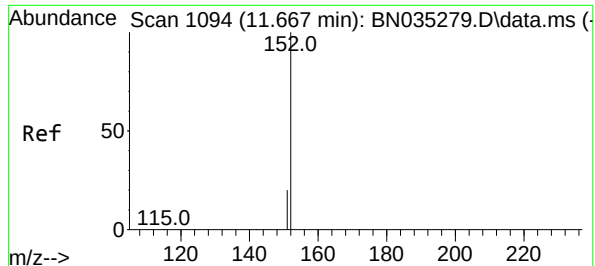
Tgt Ion:128 Resp: 86023
Ion Ratio Lower Upper
128 100
129 10.9 9.6 14.4
127 13.4 11.3 16.9



#10
Hexachlorobutadiene
Concen: 5.265 ng
RT: 10.415 min Scan# 949
Delta R.T. -0.000 min
Lab File: BN035283.D
Acq: 25 Nov 2024 13:52

Tgt Ion:225 Resp: 23614
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.8 51.3 76.9

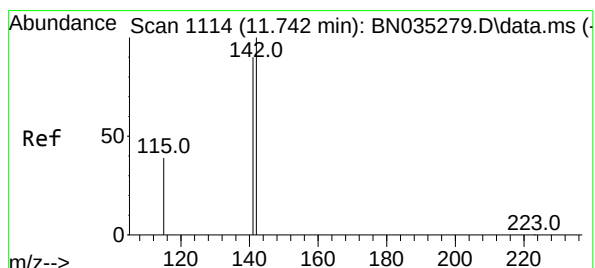
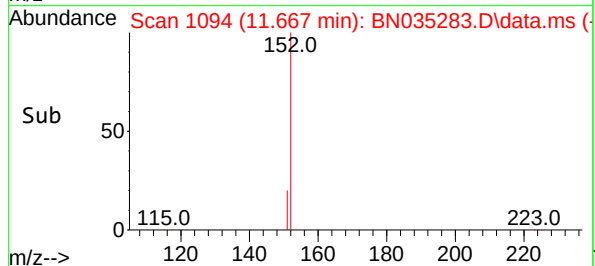
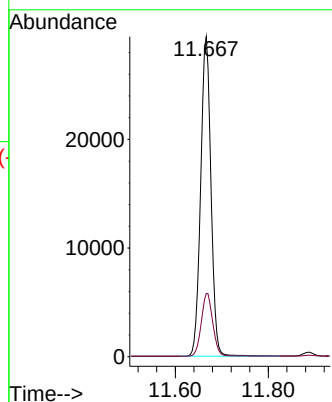
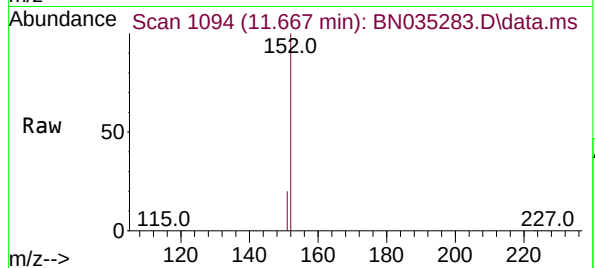




#11
2-Methylnaphthalene-d10
Concen: 4.321 ng
RT: 11.667 min Scan# 1094
Delta R.T. -0.000 min
Lab File: BN035283.D
Acq: 25 Nov 2024 13:52

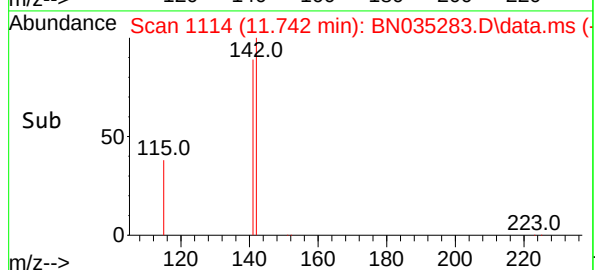
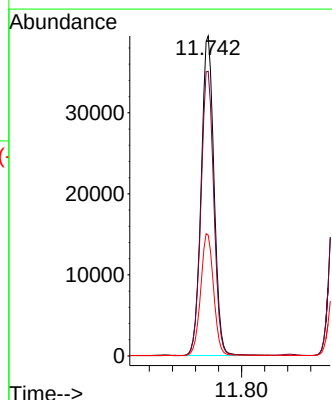
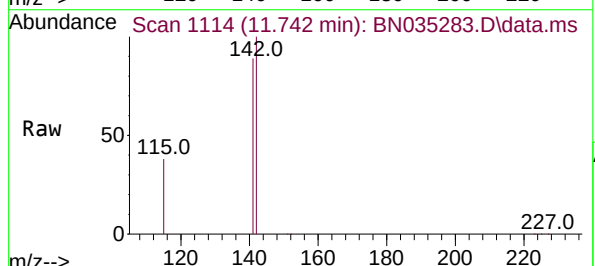
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

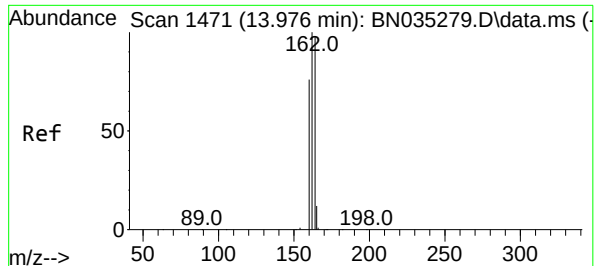
Tgt Ion:152 Resp: 45135
Ion Ratio Lower Upper
152 100
151 21.7 17.2 25.8



#12
2-Methylnaphthalene
Concen: 5.378 ng
RT: 11.742 min Scan# 1114
Delta R.T. -0.000 min
Lab File: BN035283.D
Acq: 25 Nov 2024 13:52

Tgt Ion:142 Resp: 60715
Ion Ratio Lower Upper
142 100
141 88.9 71.8 107.8
115 37.8 32.6 49.0

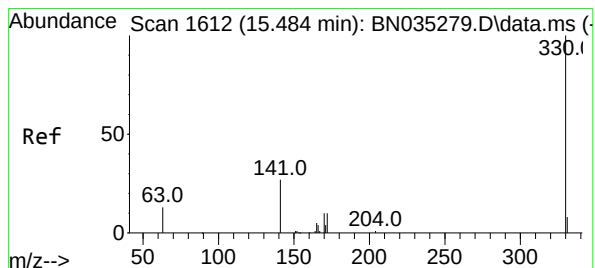
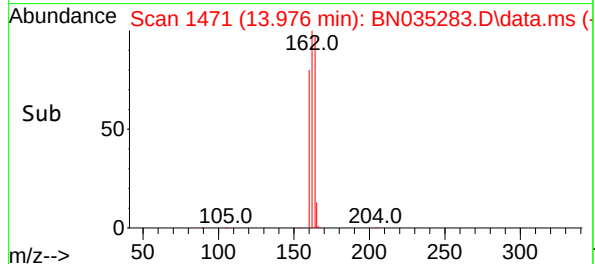
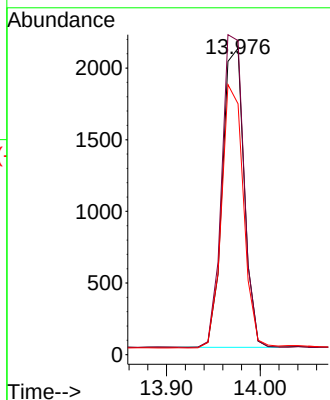
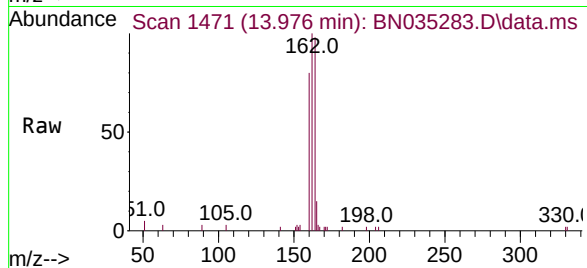




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.976 min Scan# 1471
Delta R.T. -0.000 min
Lab File: BN035283.D
Acq: 25 Nov 2024 13:52

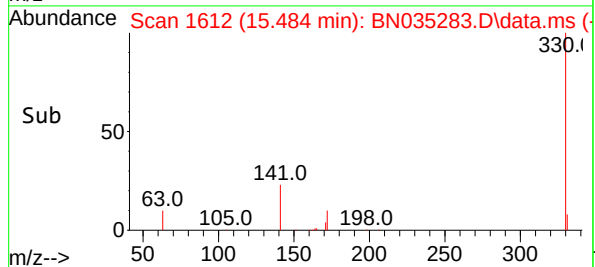
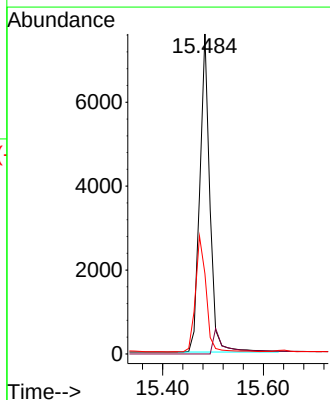
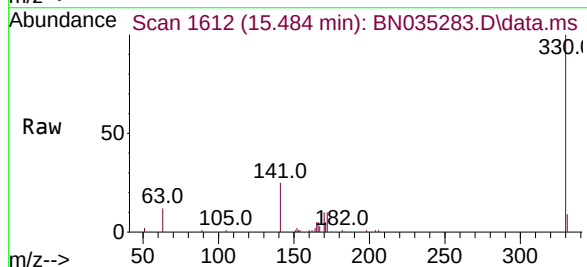
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

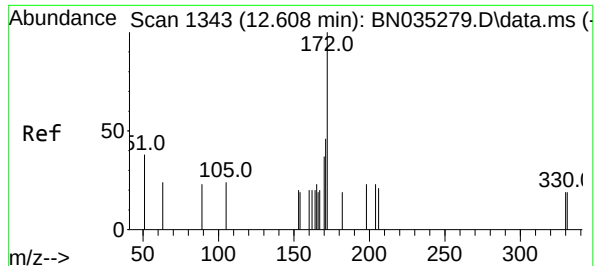
Tgt Ion:164 Resp: 3371
Ion Ratio Lower Upper
164 100
162 102.5 82.0 123.0
160 81.9 63.0 94.4



#14
2,4,6-Tribromophenol
Concen: 4.715 ng
RT: 15.484 min Scan# 1612
Delta R.T. -0.000 min
Lab File: BN035283.D
Acq: 25 Nov 2024 13:52

Tgt Ion:330 Resp: 11465
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 37.3 32.4 48.6

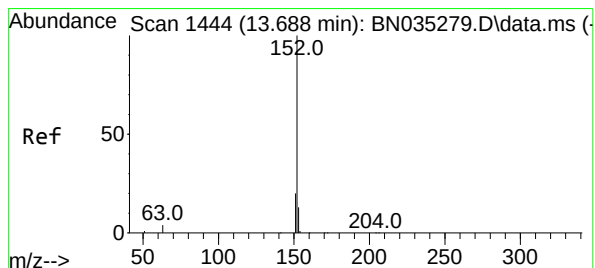
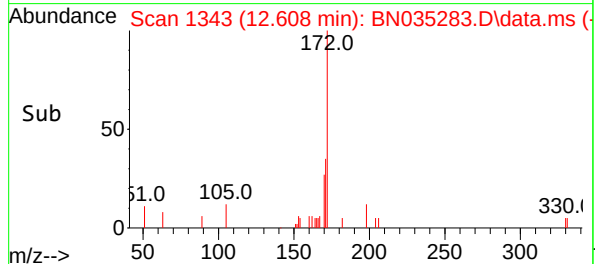
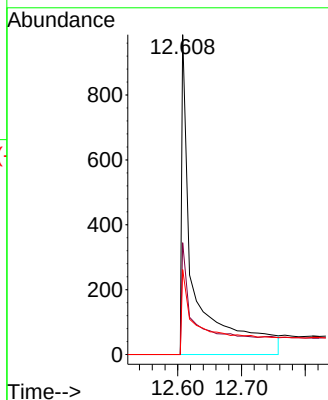
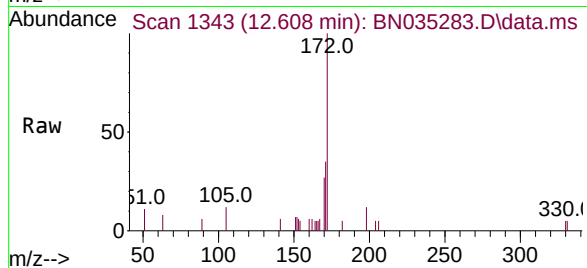




#15
2-Fluorobiphenyl
Concen: 0.102 ng
RT: 12.608 min Scan# 1343
Delta R.T. -0.000 min
Lab File: BN035283.D
Acq: 25 Nov 2024 13:52

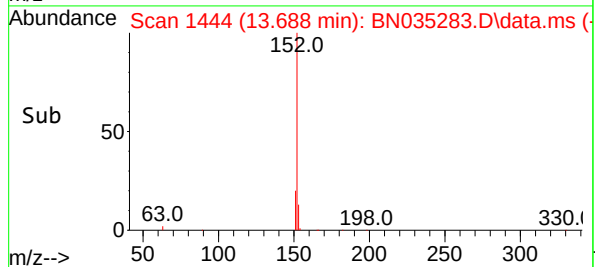
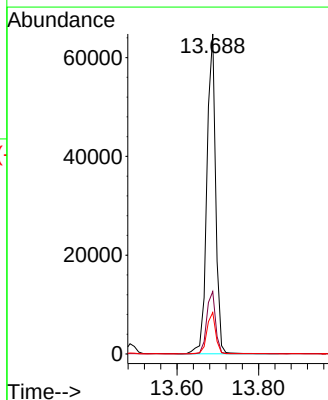
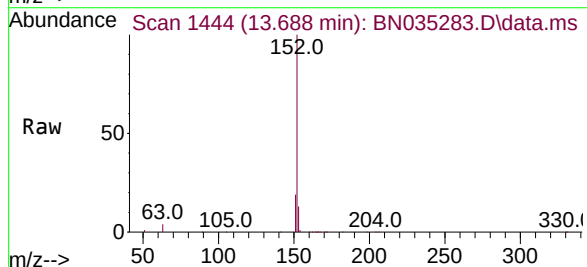
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

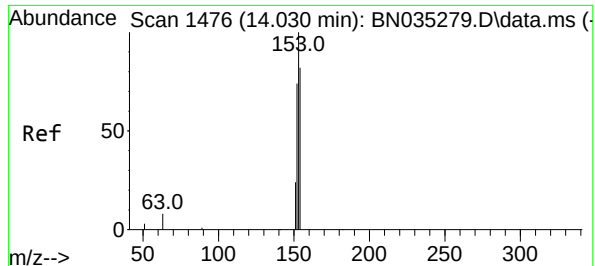
Tgt Ion:172 Resp: 1400
Ion Ratio Lower Upper
172 100
171 35.0 36.6 55.0#
170 26.6 29.7 44.5#



#16
Acenaphthylene
Concen: 6.708 ng
RT: 13.688 min Scan# 1444
Delta R.T. -0.000 min
Lab File: BN035283.D
Acq: 25 Nov 2024 13:52

Tgt Ion:152 Resp: 96646
Ion Ratio Lower Upper
152 100
151 19.6 15.9 23.9
153 12.9 10.2 15.4

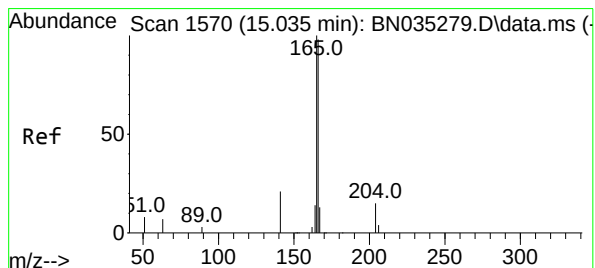
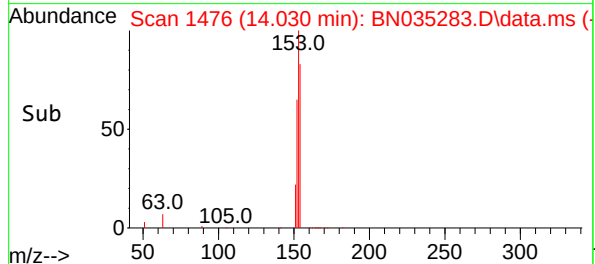
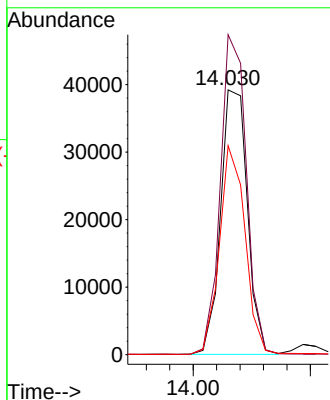
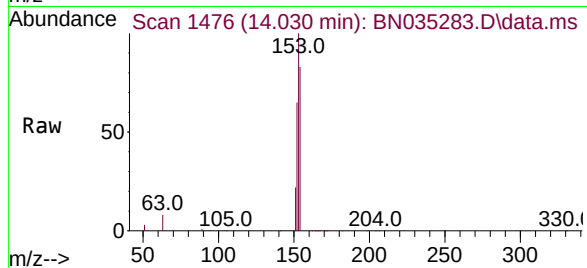




#17
Acenaphthene
Concen: 6.574 ng
RT: 14.030 min Scan# 1476
Delta R.T. -0.000 min
Lab File: BN035283.D
Acq: 25 Nov 2024 13:52

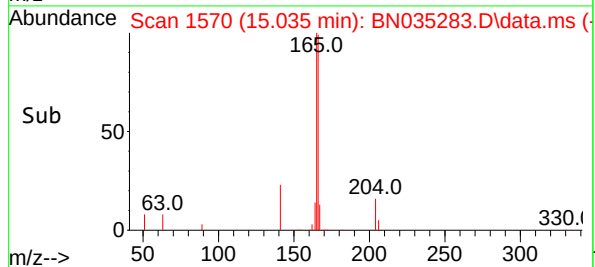
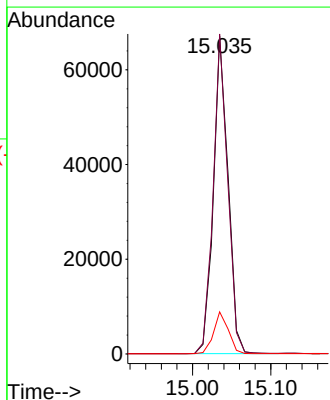
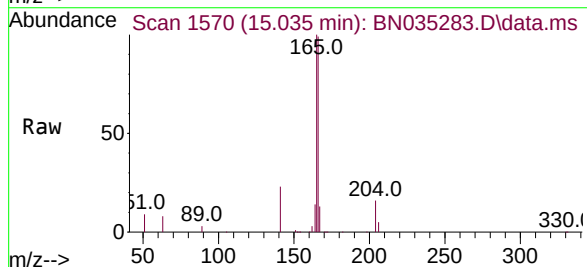
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

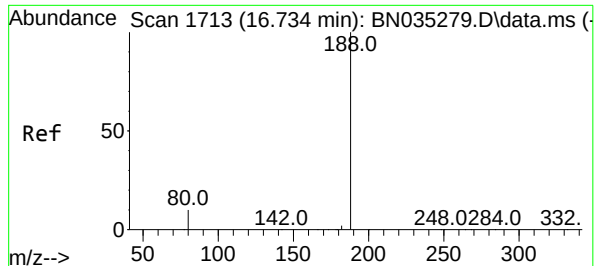
Tgt Ion:154 Resp: 62066
Ion Ratio Lower Upper
154 100
153 117.7 96.1 144.1
152 76.1 72.2 108.2



#18
Fluorene
Concen: 6.276 ng
RT: 15.035 min Scan# 1570
Delta R.T. -0.000 min
Lab File: BN035283.D
Acq: 25 Nov 2024 13:52

Tgt Ion:166 Resp: 87161
Ion Ratio Lower Upper
166 100
165 100.1 81.2 121.8
167 13.3 10.5 15.7





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.734 min Scan# 1713

Delta R.T. -0.000 min

Lab File: BN035283.D

Acq: 25 Nov 2024 13:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

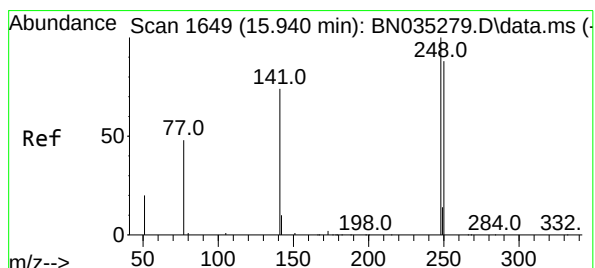
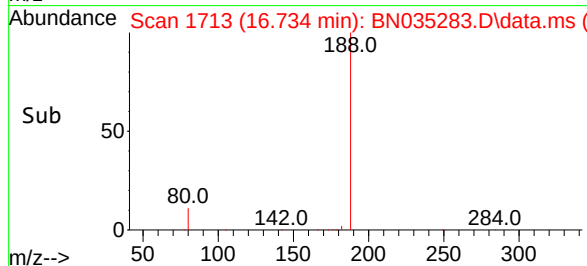
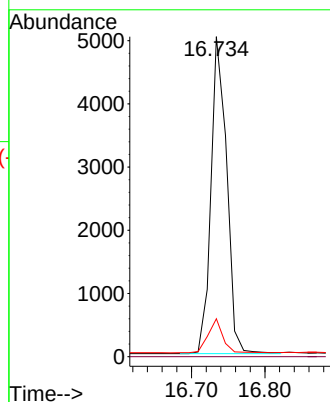
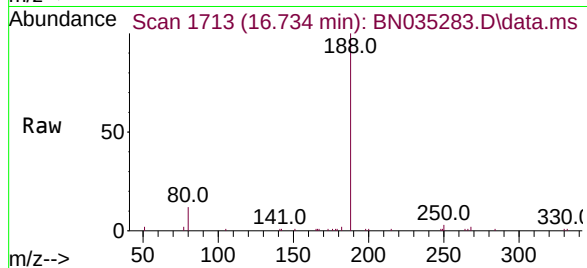
Tgt Ion:188 Resp: 7456

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.9 8.9 13.3



#21

4-Bromophenyl-phenylether

Concen: 5.884 ng

RT: 15.939 min Scan# 1649

Delta R.T. -0.000 min

Lab File: BN035283.D

Acq: 25 Nov 2024 13:52

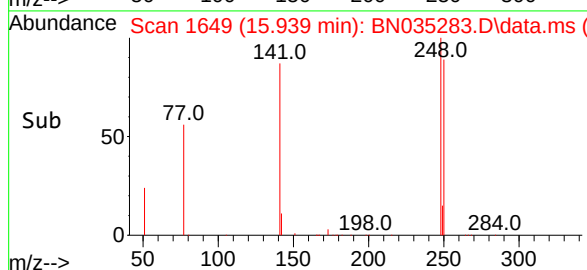
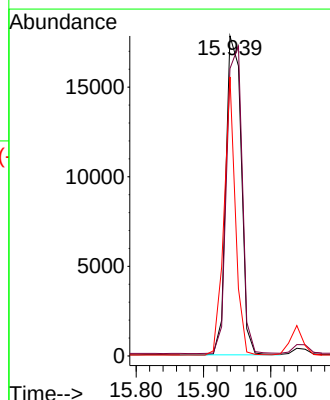
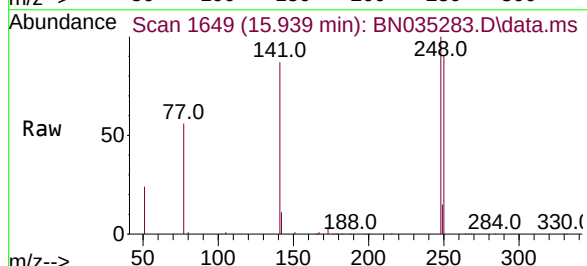
Tgt Ion:248 Resp: 27951

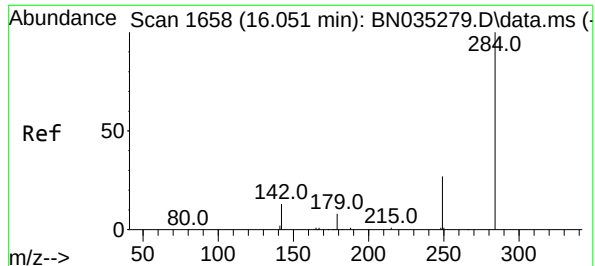
Ion Ratio Lower Upper

248 100

250 89.8 74.8 112.2

141 87.2 59.0 88.4





#22

Hexachlorobenzene

Concen: 7.450 ng

RT: 16.051 min Scan# 1658

Delta R.T. -0.000 min

Lab File: BN035283.D

Acq: 25 Nov 2024 13:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

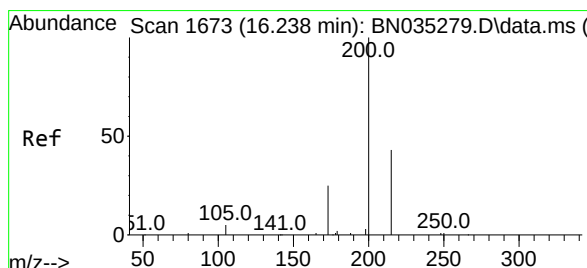
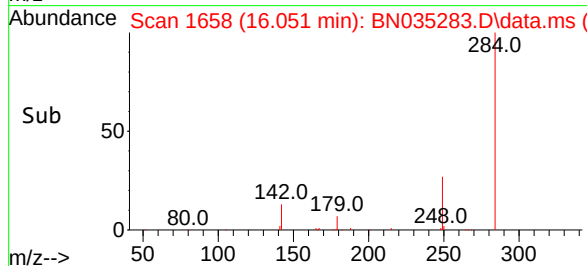
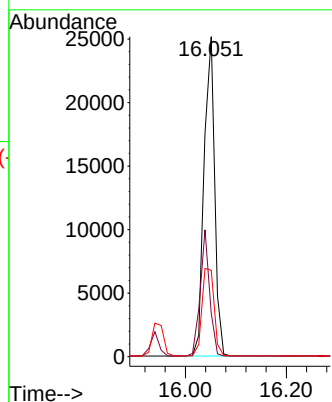
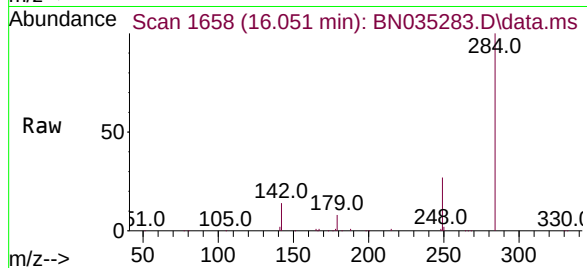
Tgt Ion:284 Resp: 36728

Ion Ratio Lower Upper

284 100

142 35.3 28.7 43.1

249 31.4 25.4 38.0



#23

Atrazine

Concen: 2.900 ng

RT: 16.237 min Scan# 1673

Delta R.T. -0.000 min

Lab File: BN035283.D

Acq: 25 Nov 2024 13:52

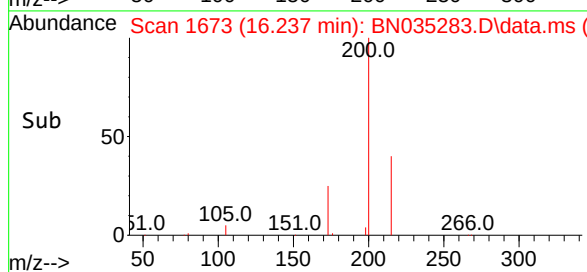
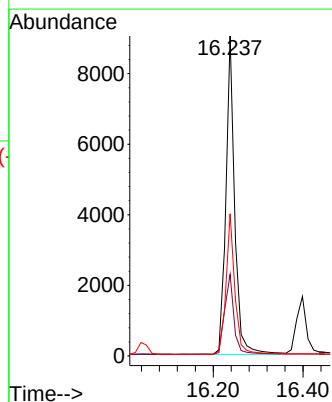
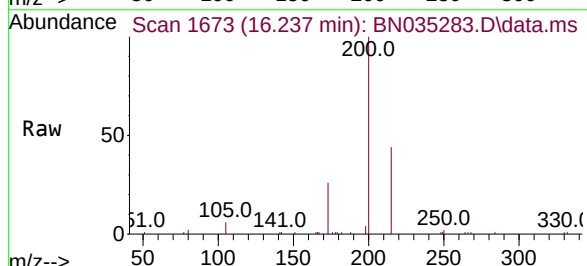
Tgt Ion:200 Resp: 12358

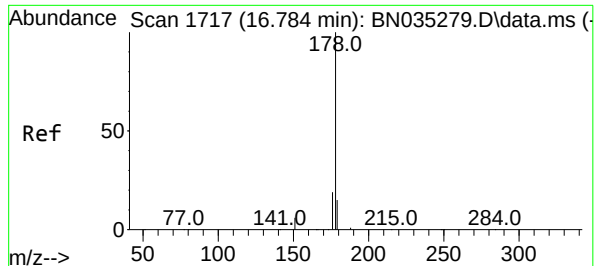
Ion Ratio Lower Upper

200 100

173 25.5 25.8 38.8#

215 44.4 38.6 58.0

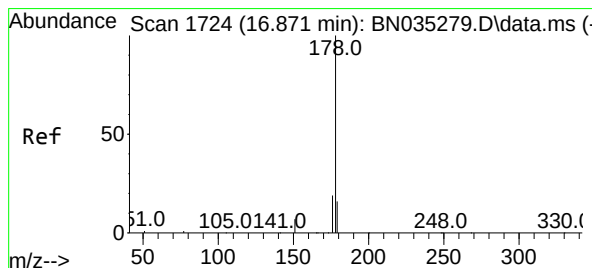
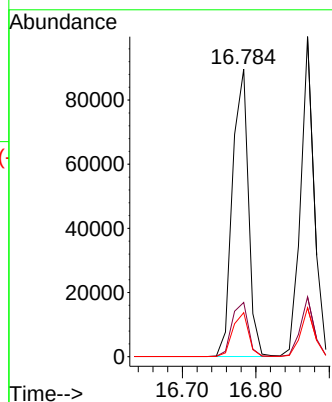
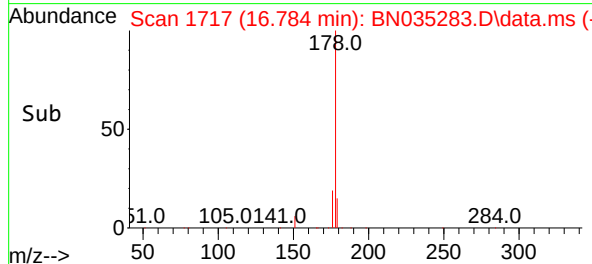
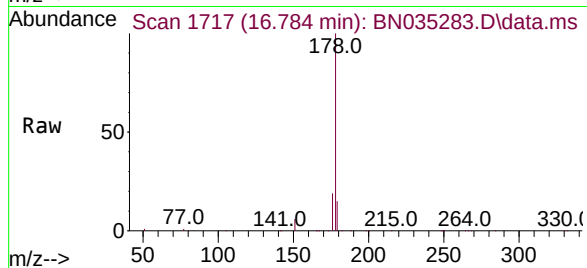




#25
Phenanthrene
Concen: 6.879 ng
RT: 16.784 min Scan# 1717
Delta R.T. -0.000 min
Lab File: BN035283.D
Acq: 25 Nov 2024 13:52

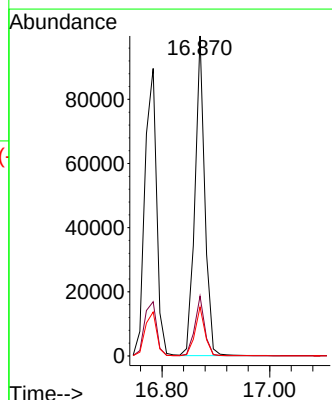
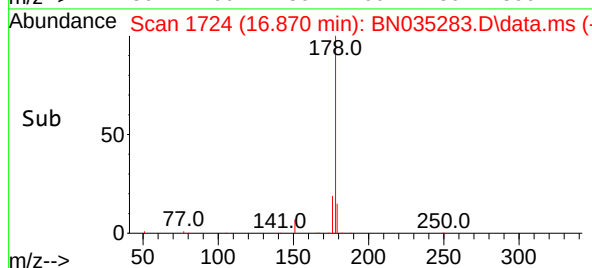
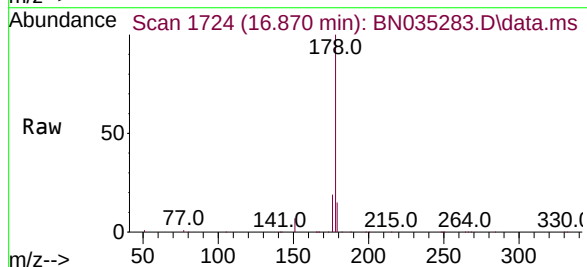
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

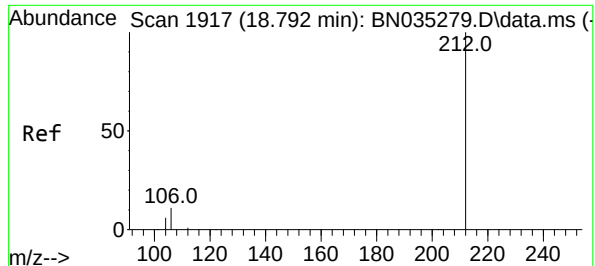
Tgt Ion:178 Resp: 134973
Ion Ratio Lower Upper
178 100
176 19.5 15.4 23.0
179 15.1 12.6 18.8



#26
Anthracene
Concen: 7.069 ng
RT: 16.870 min Scan# 1724
Delta R.T. -0.000 min
Lab File: BN035283.D
Acq: 25 Nov 2024 13:52

Tgt Ion:178 Resp: 127410
Ion Ratio Lower Upper
178 100
176 18.7 15.0 22.4
179 15.3 12.4 18.6





#27

Fluoranthene-d10

Concen: 5.178 ng

RT: 18.792 min Scan# 1917

Delta R.T. -0.000 min

Lab File: BN035283.D

Acq: 25 Nov 2024 13:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

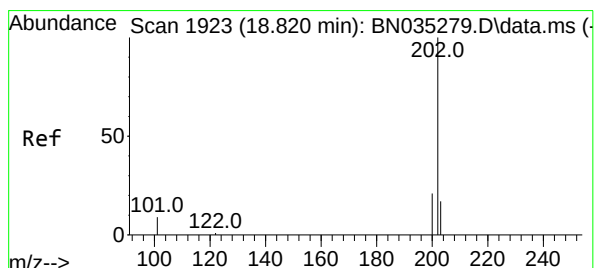
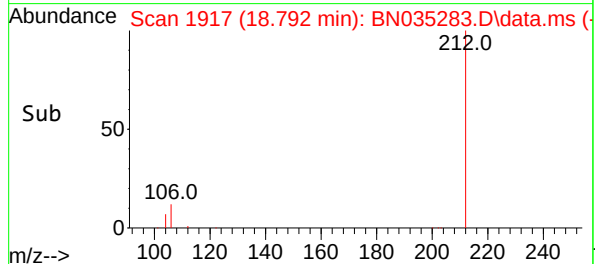
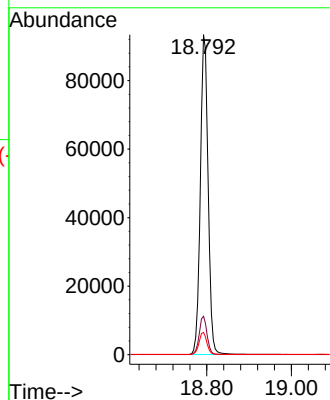
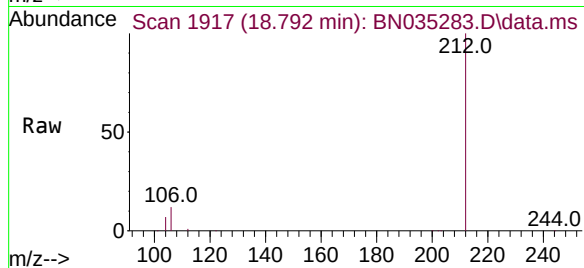
Tgt Ion:212 Resp: 118272

Ion Ratio Lower Upper

212 100

106 12.0 9.8 14.8

104 7.0 5.6 8.4



#28

Fluoranthene

Concen: 6.587 ng

RT: 18.825 min Scan# 1924

Delta R.T. 0.005 min

Lab File: BN035283.D

Acq: 25 Nov 2024 13:52

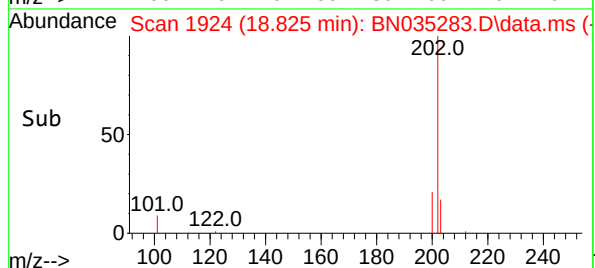
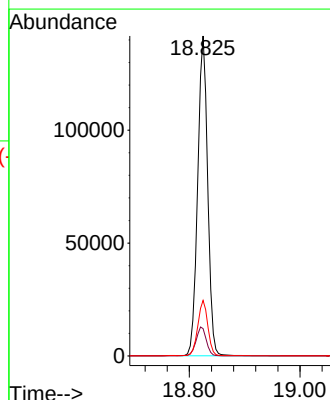
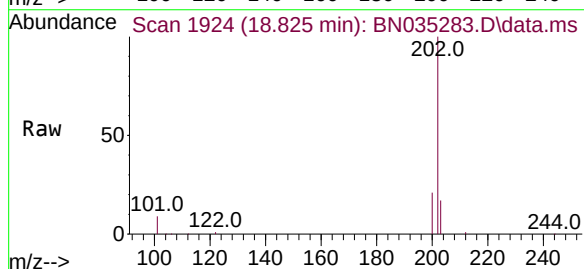
Tgt Ion:202 Resp: 177741

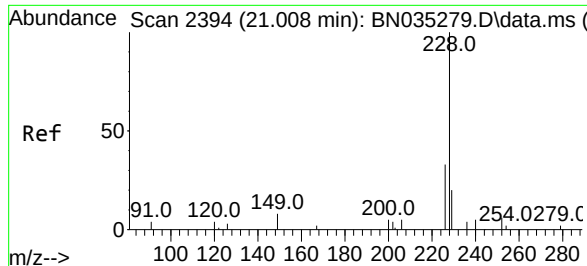
Ion Ratio Lower Upper

202 100

101 9.3 7.6 11.4

203 17.3 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.008 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035283.D

Acq: 25 Nov 2024 13:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

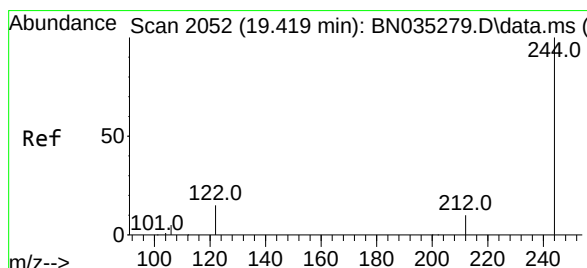
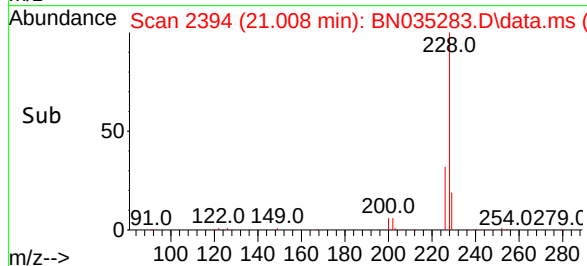
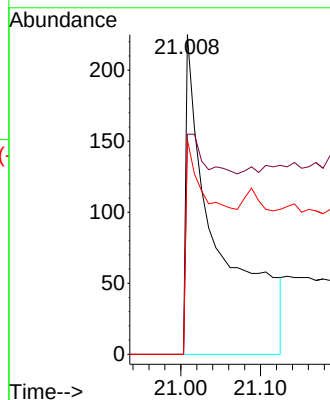
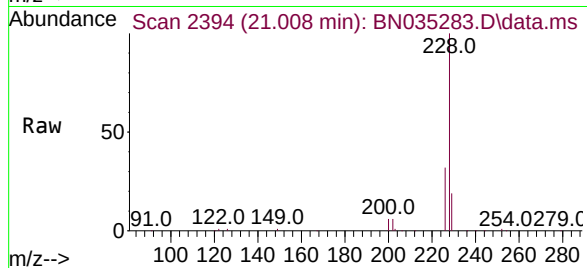
Tgt Ion:240 Resp: 600

Ion Ratio Lower Upper

240 100

120 68.9 54.9 82.3

236 67.1 54.0 81.0



#31

Terphenyl-d14

Concen: 61.679 ng

RT: 19.419 min Scan# 2052

Delta R.T. -0.000 min

Lab File: BN035283.D

Acq: 25 Nov 2024 13:52

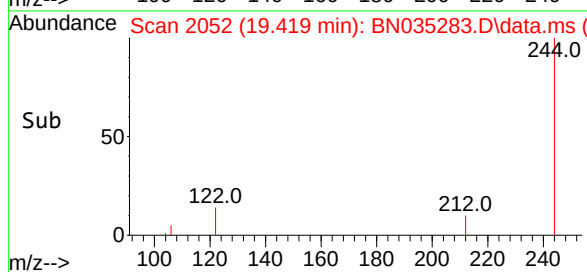
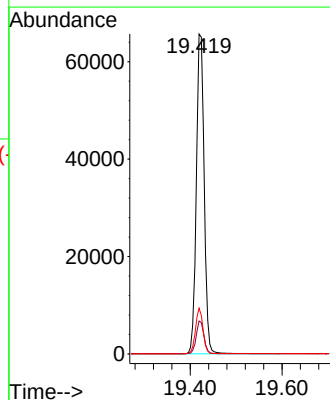
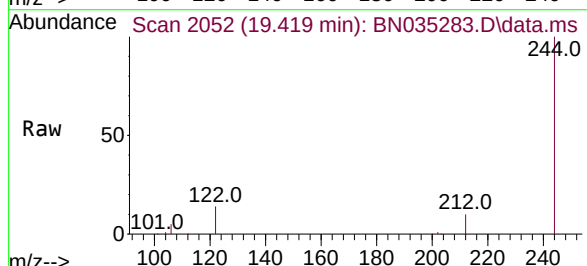
Tgt Ion:244 Resp: 77655

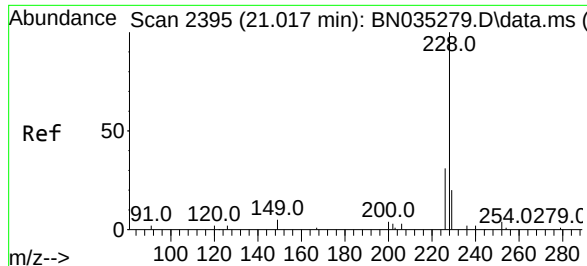
Ion Ratio Lower Upper

244 100

212 10.3 9.4 14.0

122 14.3 13.0 19.4

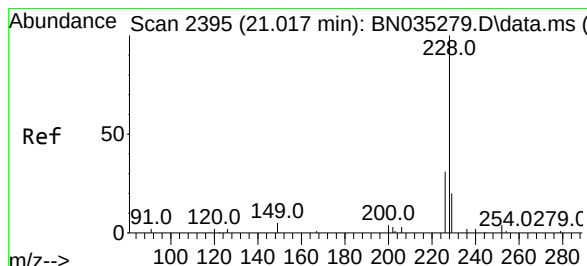
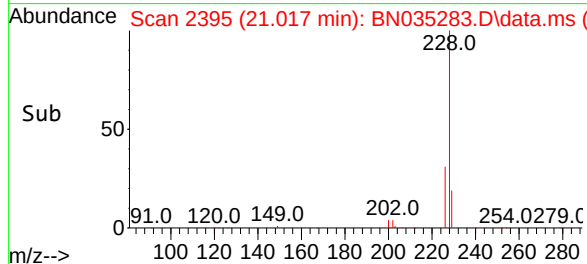
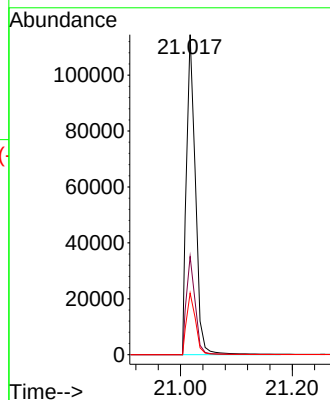
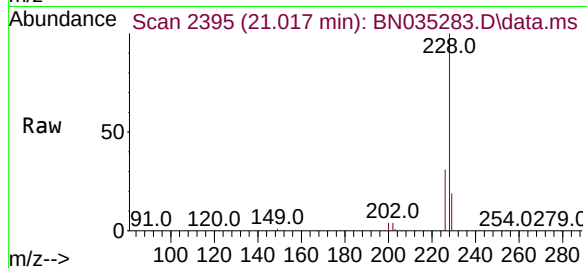




#32
Benzo(a)anthracene
Concen: 61.527 ng
RT: 21.017 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN035283.D
Acq: 25 Nov 2024 13:52

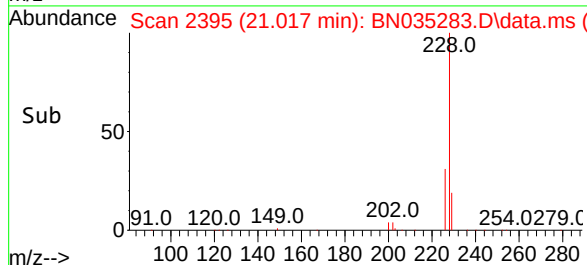
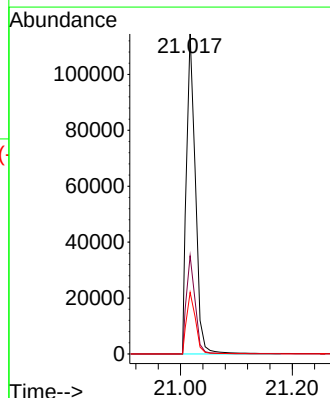
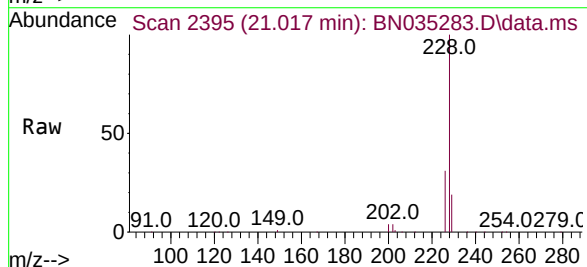
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

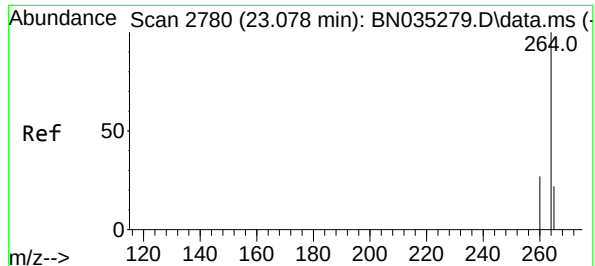
Tgt Ion:228 Resp: 128544
Ion Ratio Lower Upper
228 100
226 30.7 24.7 37.1
229 19.2 16.2 24.2



#33
Chrysene
Concen: 62.111 ng
RT: 21.017 min Scan# 2395
Delta R.T. -0.000 min
Lab File: BN035283.D
Acq: 25 Nov 2024 13:52

Tgt Ion:228 Resp: 128544
Ion Ratio Lower Upper
228 100
226 30.7 24.7 37.1
229 19.2 16.2 24.2





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.081 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN035283.D

Acq: 25 Nov 2024 13:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

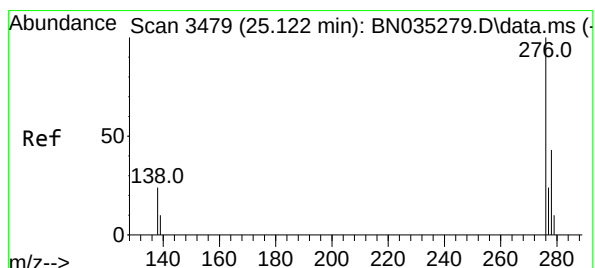
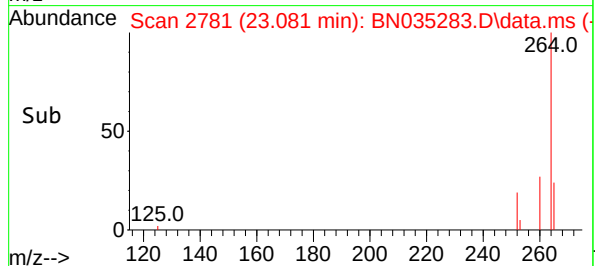
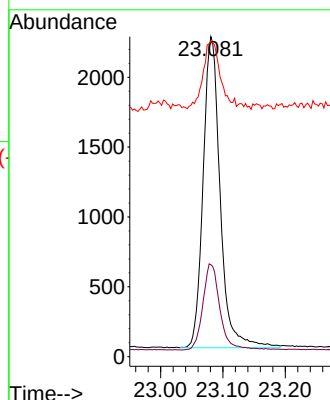
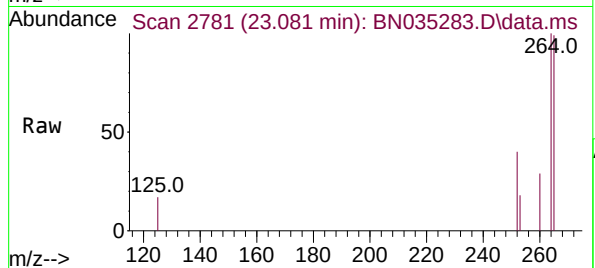
Tgt Ion:264 Resp: 4243

Ion Ratio Lower Upper

264 100

260 28.8 22.3 33.5

265 98.6 68.6 103.0



#36

Indeno(1,2,3-cd)pyrene

Concen: 6.420 ng

RT: 25.124 min Scan# 3480

Delta R.T. 0.003 min

Lab File: BN035283.D

Acq: 25 Nov 2024 13:52

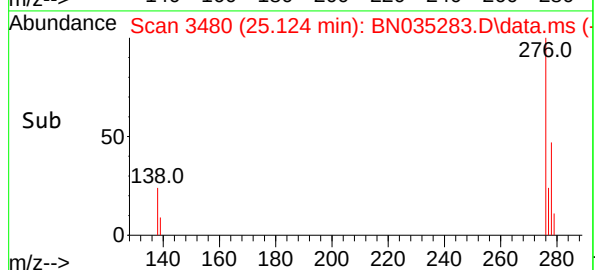
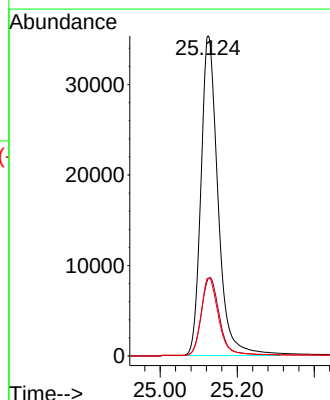
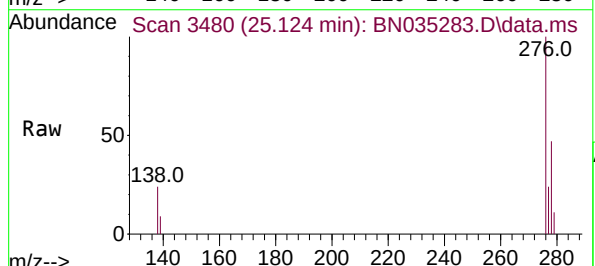
Tgt Ion:276 Resp: 108670

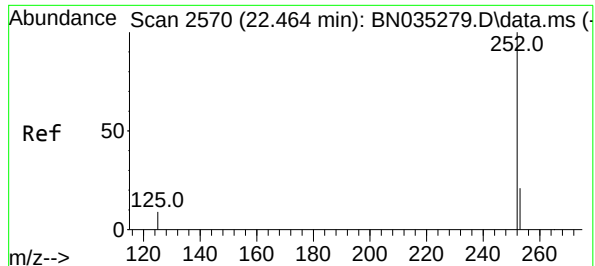
Ion Ratio Lower Upper

276 100

138 25.5 18.8 28.2

277 24.8 18.2 27.4





#37

Benzo(b)fluoranthene

Concen: 7.668 ng

RT: 22.467 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN035283.D

Acq: 25 Nov 2024 13:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

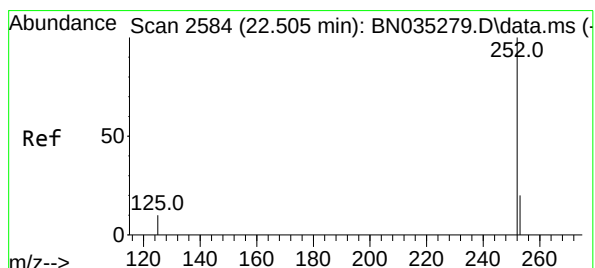
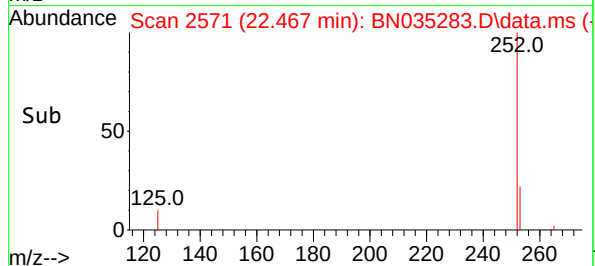
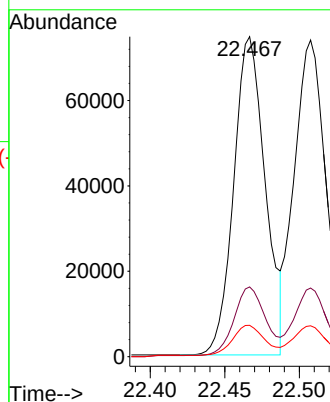
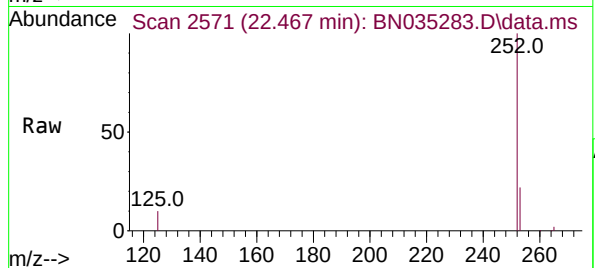
Tgt Ion:252 Resp: 109463

Ion Ratio Lower Upper

252 100

253 21.8 20.2 30.2

125 9.8 12.0 18.0#



#38

Benzo(k)fluoranthene

Concen: 8.038 ng

RT: 22.508 min Scan# 2585

Delta R.T. 0.003 min

Lab File: BN035283.D

Acq: 25 Nov 2024 13:52

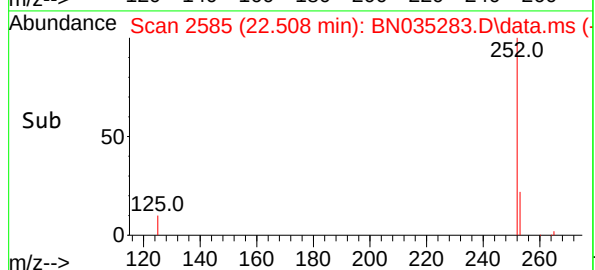
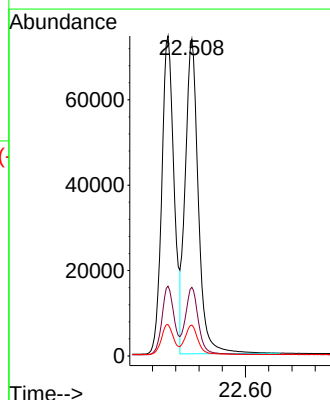
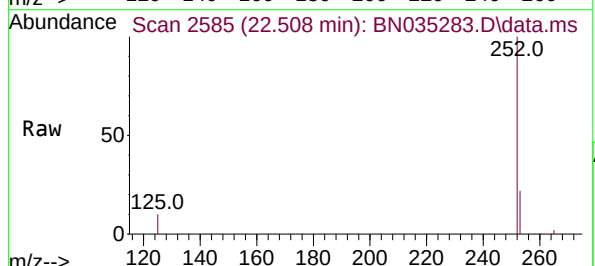
Tgt Ion:252 Resp: 114816

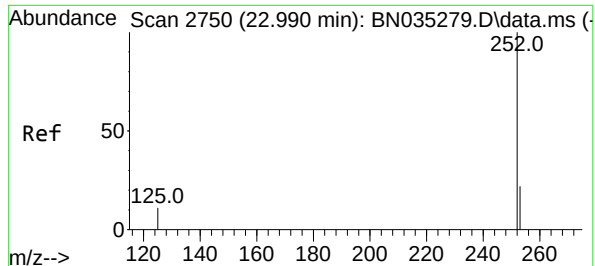
Ion Ratio Lower Upper

252 100

253 21.7 20.1 30.1

125 9.8 12.7 19.1#





#39

Benzo(a)pyrene

Concen: 6.696 ng

RT: 22.993 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN035283.D

Acq: 25 Nov 2024 13:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

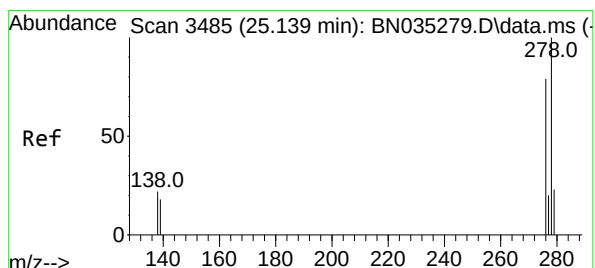
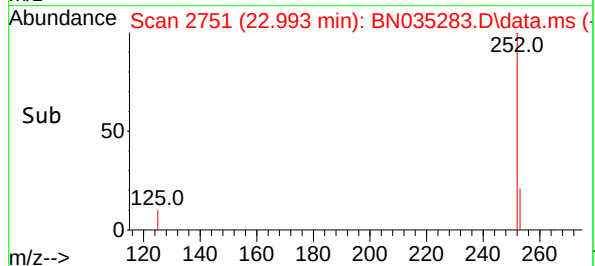
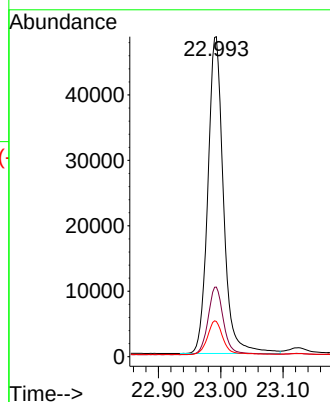
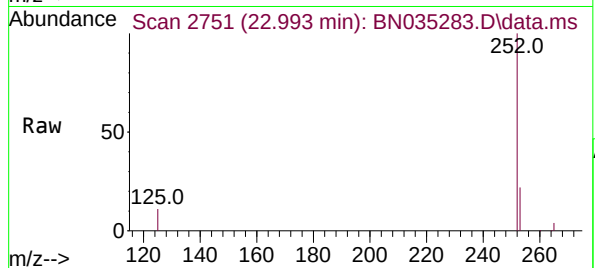
Tgt Ion:252 Resp: 84108

Ion Ratio Lower Upper

252 100

253 21.7 22.3 33.5#

125 11.0 15.3 22.9#



#40

Dibenzo(a,h)anthracene

Concen: 6.375 ng

RT: 25.142 min Scan# 3486

Delta R.T. 0.003 min

Lab File: BN035283.D

Acq: 25 Nov 2024 13:52

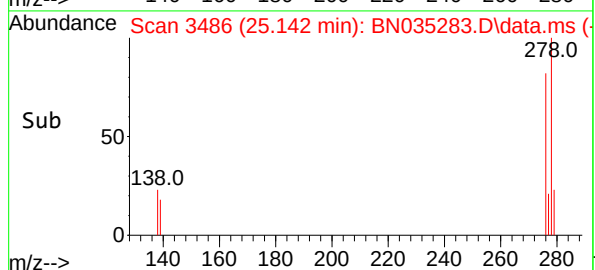
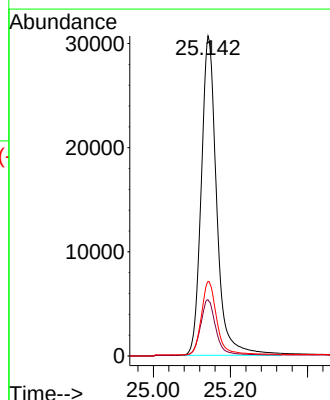
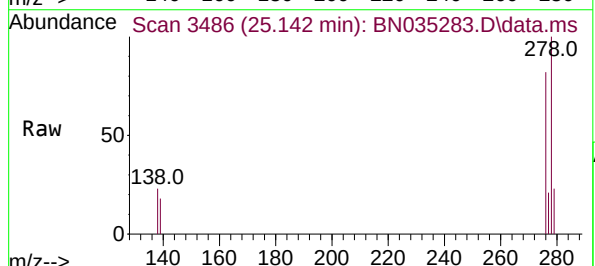
Tgt Ion:278 Resp: 85497

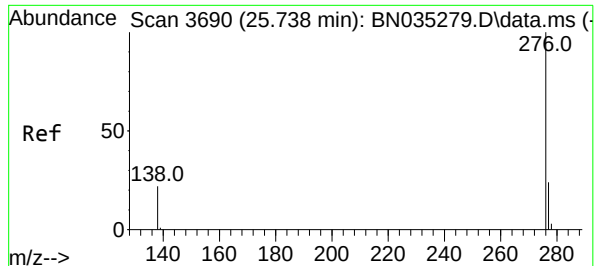
Ion Ratio Lower Upper

278 100

139 17.6 17.0 25.6

279 23.3 23.0 34.4





#41

Benzo(g,h,i)perylene

Concen: 6.459 ng

RT: 25.741 min Scan# 30

Delta R.T. 0.003 min

Lab File: BN035283.D

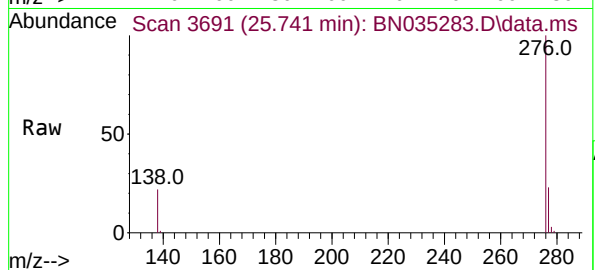
Acq: 25 Nov 2024 13:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0



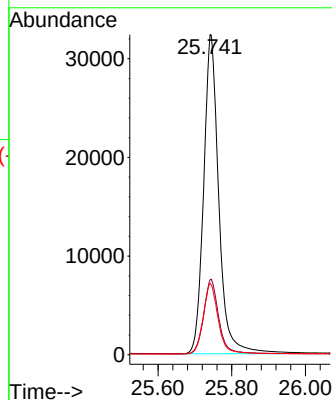
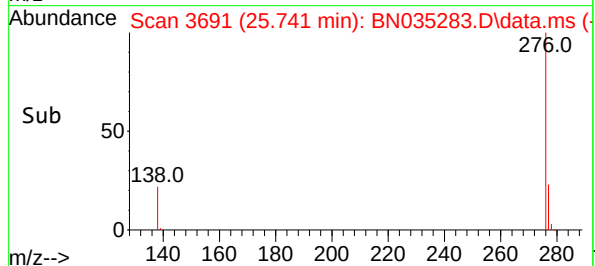
Tgt Ion:276 Resp: 92138

Ion Ratio Lower Upper

276 100

277 23.4 21.1 31.7

138 22.3 19.8 29.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
 Data File : BN035284.D
 Acq On : 25 Nov 2024 14:29
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 59 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

ICVBN112524

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/27/2024

Supervised By :mohammad ahmed 11/27/2024

Quant Time: Nov 25 22:35:44 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Mon Nov 25 14:32:52 2024

Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.315	152	2519	0.400	ng	0.00
7) Naphthalene-d8	10.063	136	5593	0.400	ng	0.00
13) Acenaphthene-d10	13.976	164	2659	0.400	ng	# 0.00
19) Phenanthrene-d10	16.734	188	5748	0.400	ng	0.00
29) Chrysene-d12	21.008	240	611	0.400	ng	0.00
35) Perylene-d12	23.081	264	3470	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.968	112	1712	0.360	ng	0.00
5) Phenol-d6	6.521	99	2314	0.348	ng	0.00
8) Nitrobenzene-d5	8.450	82	2129	0.469	ng	0.00
11) 2-Methylnaphthalene-d10	11.667	152	2635	0.337	ng	0.00
14) 2,4,6-Tribromophenol	15.484	330	546	0.402	ng	0.00
15) 2-Fluorobiphenyl	12.608	172	683	0.465	ng	0.00
27) Fluoranthene-d10	18.792	212	5270m	0.343	ng	0.00
31) Terphenyl-d14	19.419	244	3187	0.282	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.003	88	689	0.381	ng	# 83
3) n-Nitrosodimethylamine	3.299	42	809	0.431	ng	# 76
6) bis(2-Chloroethyl)ether	6.766	93	2132	0.381	ng	99
9) Naphthalene	10.116	128	5975	0.385	ng	99
10) Hexachlorobutadiene	10.415	225	1929	0.442	ng	# 100
12) 2-Methylnaphthalene	11.742	142	3297	0.325	ng	98
16) Acenaphthylene	13.688	152	5175	0.387	ng	99
17) Acenaphthene	14.030	154	3227	0.383	ng	# 90
18) Fluorene	15.035	166	4194	0.355	ng	97
20) 4,6-Dinitro-2-methylph...	15.131	198	239	0.477	ng	98
21) 4-Bromophenyl-phenylether	15.940	248	1328	0.364	ng	92
22) Hexachlorobenzene	16.051	284	2564	0.491	ng	98
23) Atrazine	16.237	200	643	0.419	ng	98
24) Pentachlorophenol	16.399	266	510	0.407	ng	95
25) Phenanthrene	16.784	178	6385	0.362	ng	100
26) Anthracene	16.870	178	4852	0.320	ng	99
28) Fluoranthene	18.825	202	6686	0.300	ng	99
30) Pyrene	19.192	202	6525	0.294	ng	100
32) Benzo(a)anthracene	21.017	228	5799	0.273	ng	100
33) Chrysene	21.017	228	5799	0.273	ng	100
34) Bis(2-ethylhexyl)phtha...	21.017	149	520	0.041	ng	# 98
36) Indeno(1,2,3-cd)pyrene	25.121	276	5652	0.398	ng	99
37) Benzo(b)fluoranthene	22.464	252	5358	0.355	ng	97
38) Benzo(k)fluoranthene	22.508	252	5559	0.348	ng	97
39) Benzo(a)pyrene	22.990	252	4167	0.361	ng	97
40) Dibenzo(a,h)anthracene	25.145	278	4182	0.389	ng	98
41) Benzo(g,h,i)perylene	25.738	276	5121	0.412	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
 Data File : BN035284.D
 Acq On : 25 Nov 2024 14:29
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 59 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

ICVBN112524

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/27/2024

Supervised By :mohammad ahmed 11/27/2024

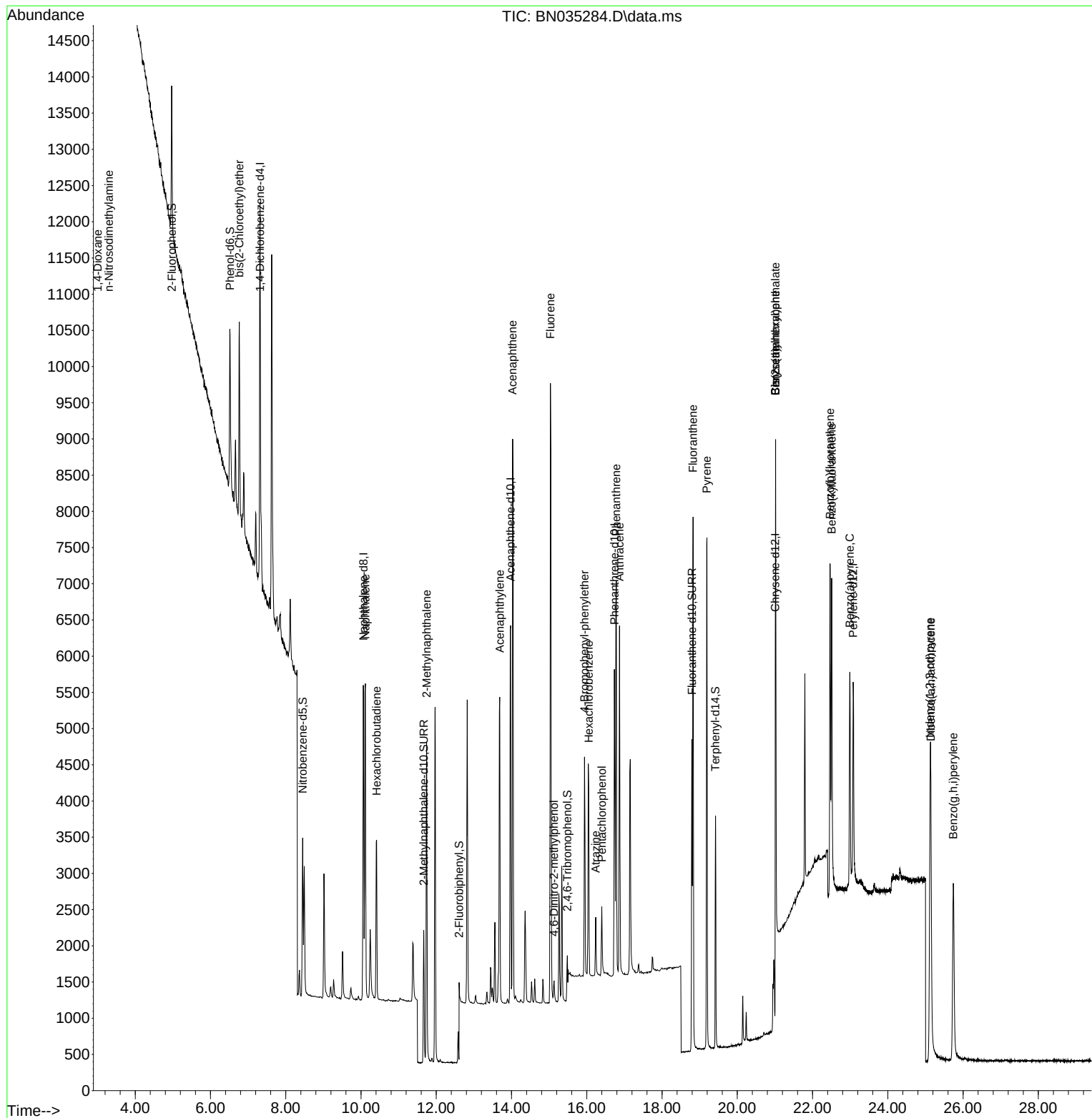
Quant Time: Nov 25 22:35:44 2024

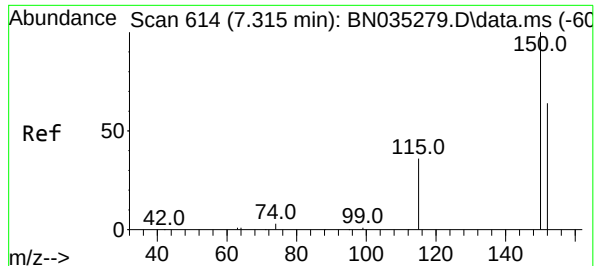
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Mon Nov 25 14:32:52 2024

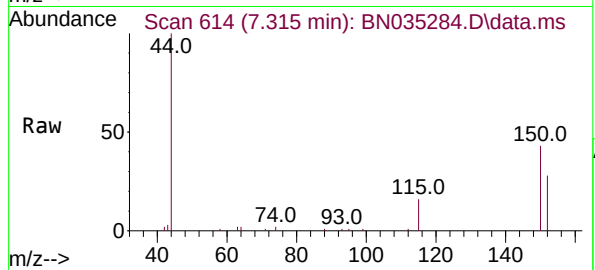
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.315 min Scan# 614
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

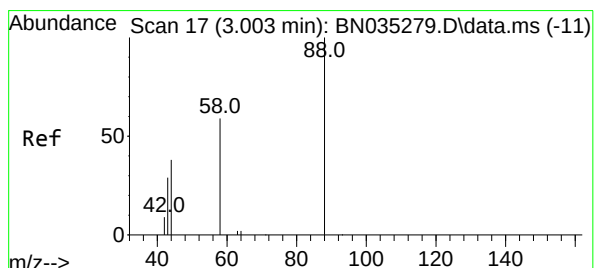
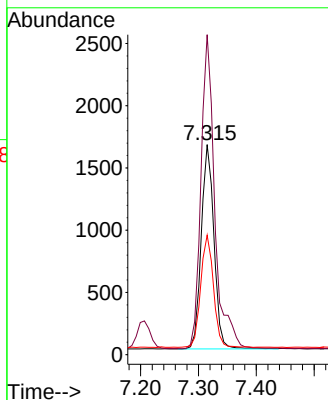
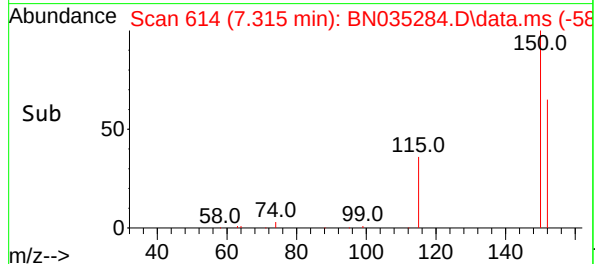
Instrument :
BNA_N
ClientSampleId :
ICVBN112524



Tgt Ion:152 Resp: 2519
Ion Ratio Lower Upper
152 100
150 152.3 124.5 186.7
115 56.9 47.8 71.8

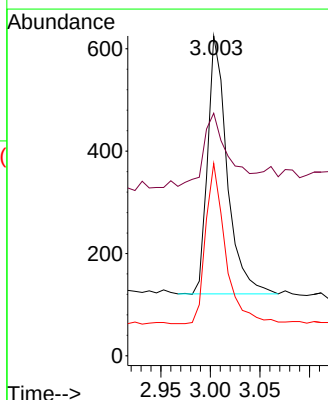
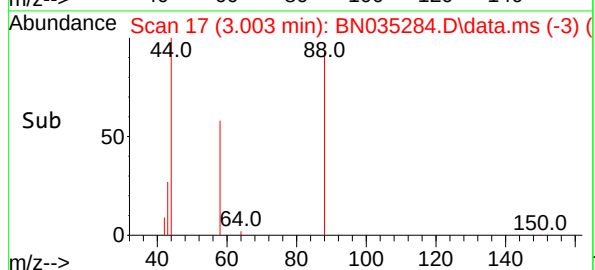
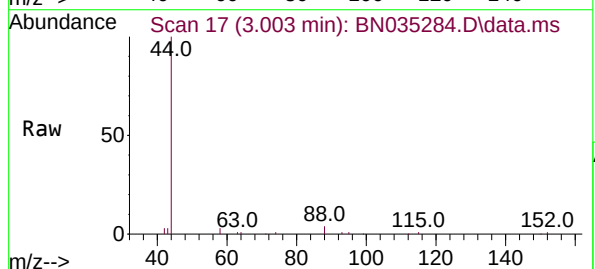
Manual Integrations
APPROVED

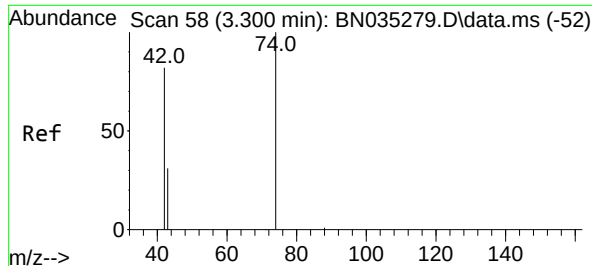
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#2
1,4-Dioxane
Concen: 0.381 ng
RT: 3.003 min Scan# 17
Delta R.T. 0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

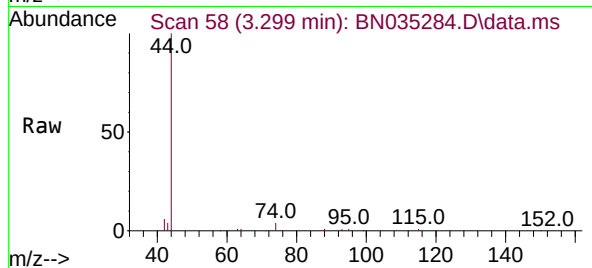
Tgt Ion: 88 Resp: 689
Ion Ratio Lower Upper
88 100
43 38.3 48.1 72.1#
58 62.8 46.9 70.3





#3
n-Nitrosodimethylamine
Concen: 0.431 ng
RT: 3.299 min Scan# 58
Delta R.T. -0.001 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

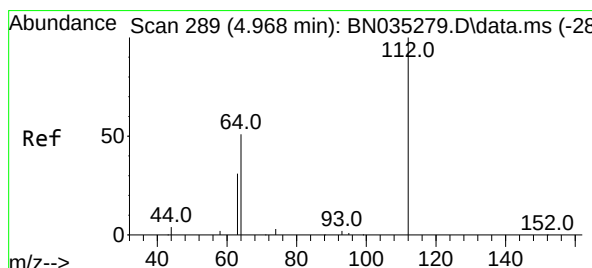
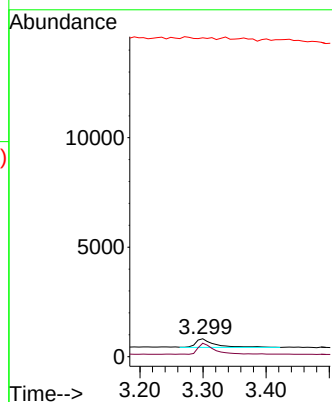
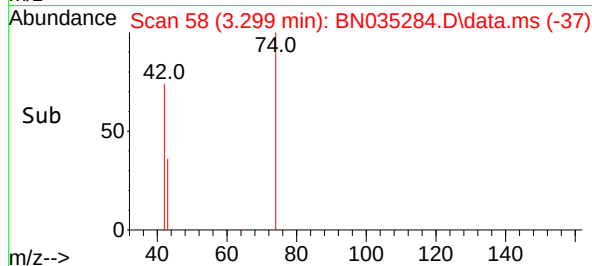
Instrument :
BNA_N
ClientSampleId :
ICVBN112524



Tgt Ion: 42 Resp: 809
Ion Ratio Lower Upper
42 100
74 116.4 102.7 154.1
44 0.0 34.1 51.1

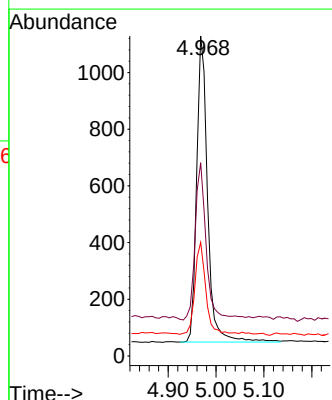
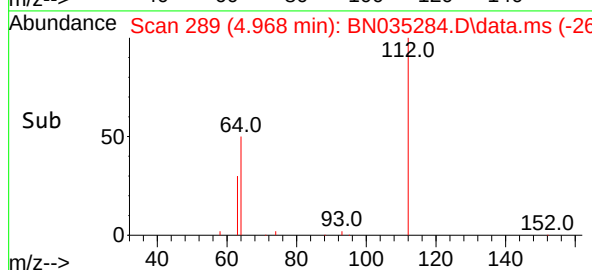
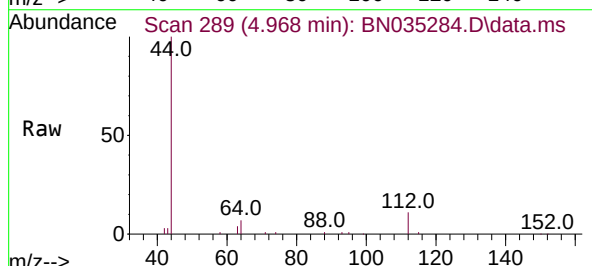
Manual Integrations
APPROVED

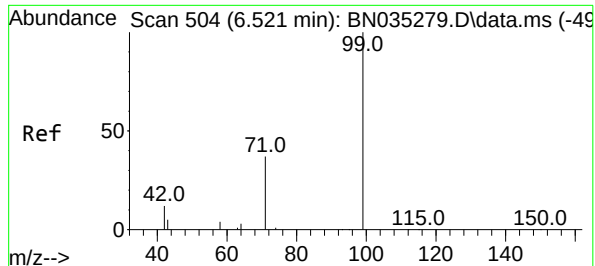
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#4
2-Fluorophenol
Concen: 0.360 ng
RT: 4.968 min Scan# 289
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

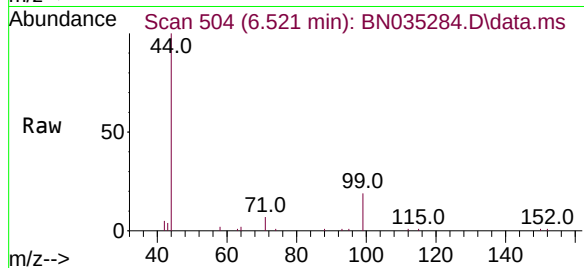
Tgt Ion:112 Resp: 1712
Ion Ratio Lower Upper
112 100
64 53.3 40.4 60.6
63 29.8 23.8 35.8





#5
Phenol-d6
Concen: 0.348 ng
RT: 6.521 min Scan# 504
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

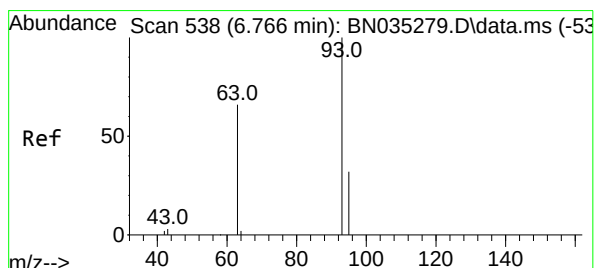
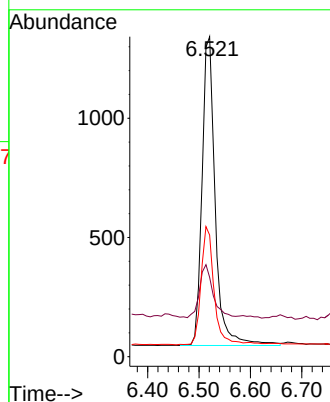
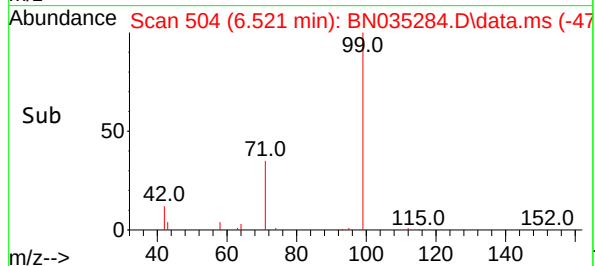
Instrument :
BNA_N
ClientSampleId :
ICVBN112524



Tgt Ion: 99 Resp: 2314
Ion Ratio Lower Upper
99 100
42 17.3 12.8 19.2
71 38.1 31.4 47.2

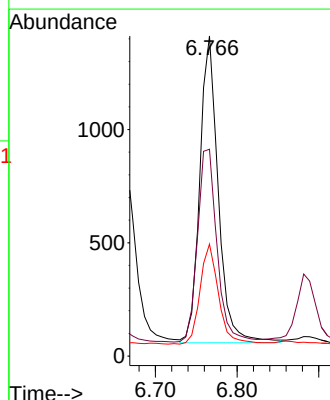
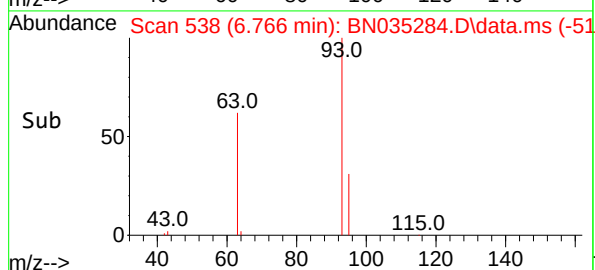
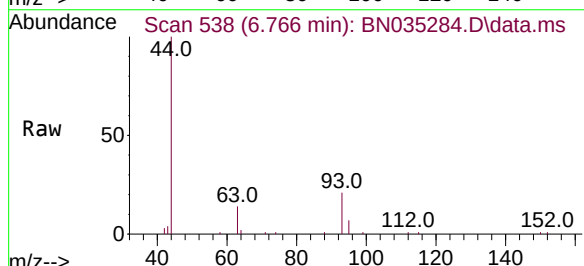
Manual Integrations
APPROVED

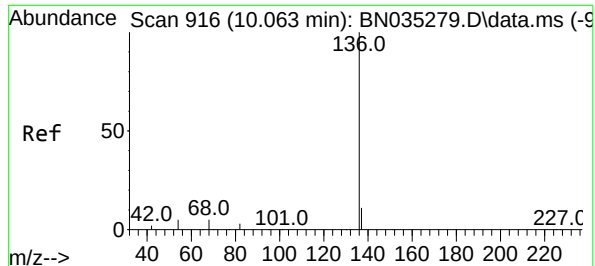
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.381 ng
RT: 6.766 min Scan# 538
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

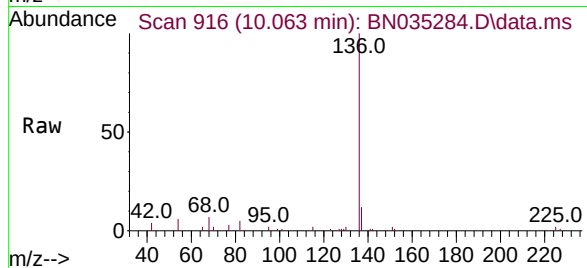
Tgt Ion: 93 Resp: 2132
Ion Ratio Lower Upper
93 100
63 66.4 52.3 78.5
95 32.6 25.5 38.3





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.063 min Scan# 916
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

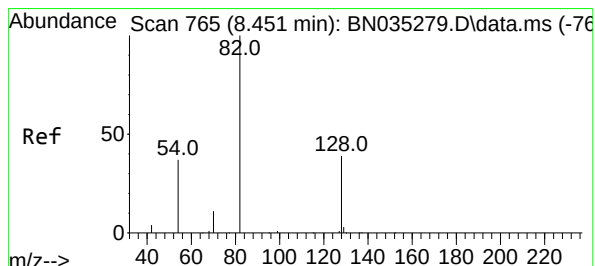
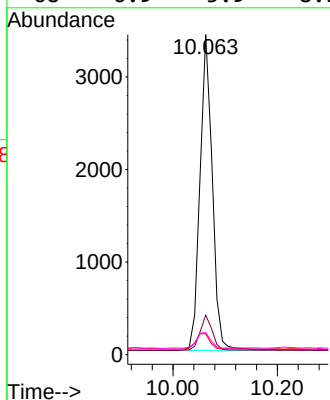
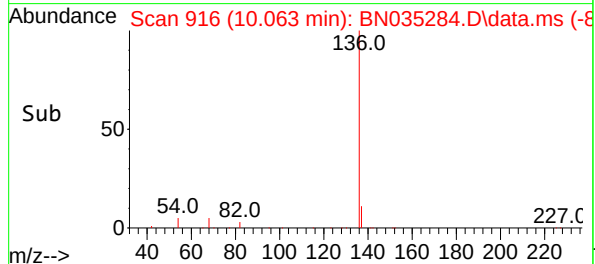
Instrument :
BNA_N
ClientSampleId :
ICVBN112524



Tgt Ion: 136 Resp: 559
Ion Ratio Lower Upper
136 100
137 12.3 9.7 14.5
54 6.5 5.3 7.9
68 6.9 5.9 8.9

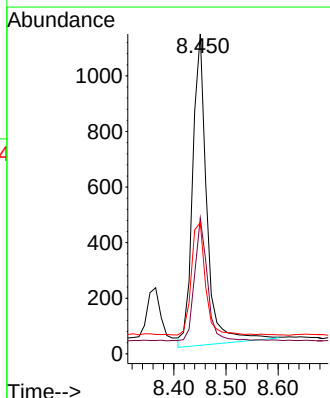
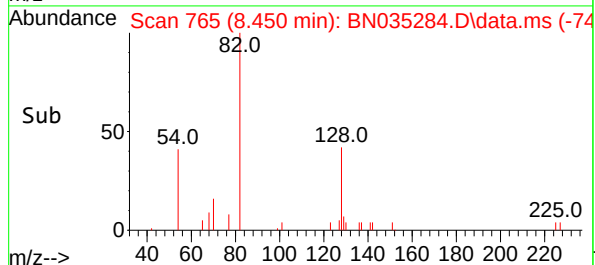
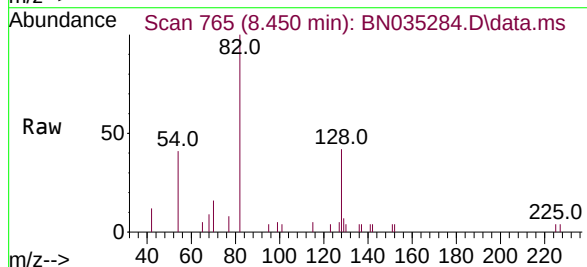
Manual Integrations
APPROVED

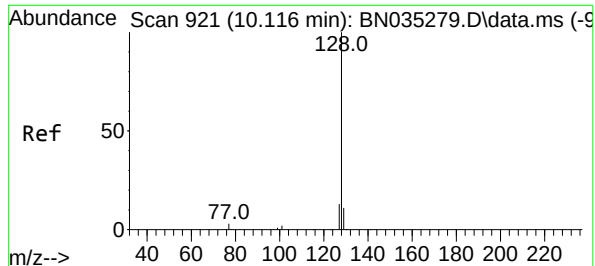
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#8
Nitrobenzene-d5
Concen: 0.469 ng
RT: 8.450 min Scan# 765
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Tgt Ion: 82 Resp: 2129
Ion Ratio Lower Upper
82 100
128 42.5 33.0 49.4
54 41.1 33.3 49.9





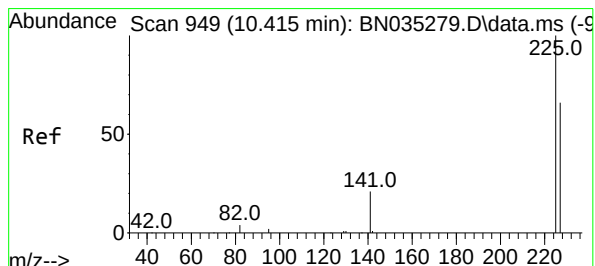
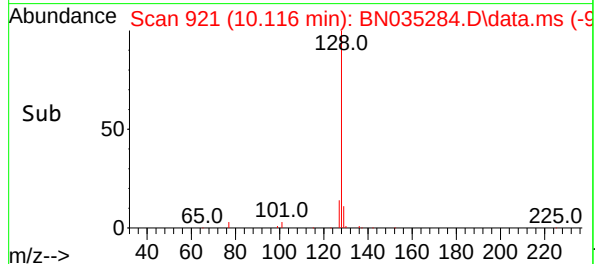
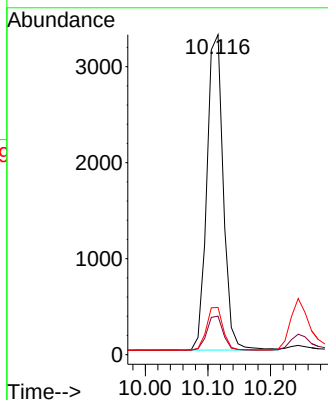
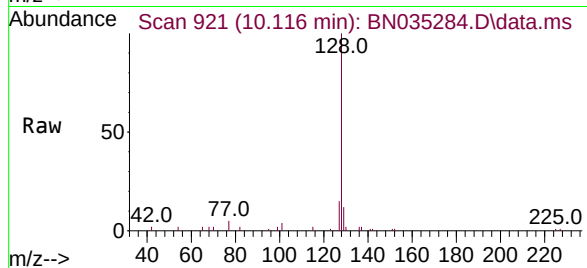
#9
Naphthalene
Concen: 0.385 ng
RT: 10.116 min Scan# 921
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Instrument :
BNA_N
ClientSampleId :
ICVBN112524

Tgt Ion:128 Resp: 597
Ion Ratio Lower Upper
128 100
129 12.0 9.6 14.4
127 14.8 11.3 16.9

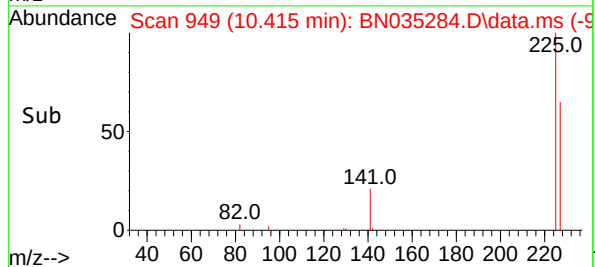
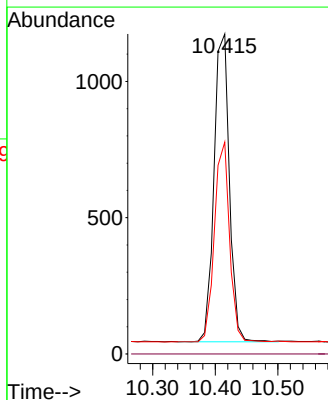
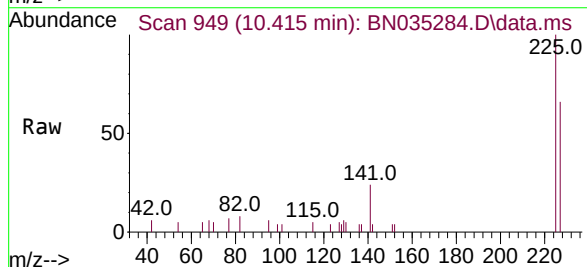
Manual Integrations
APPROVED

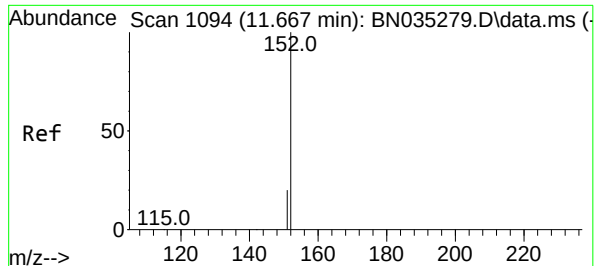
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#10
Hexachlorobutadiene
Concen: 0.442 ng
RT: 10.415 min Scan# 949
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

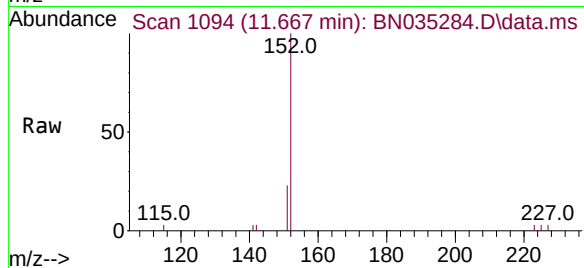
Tgt Ion:225 Resp: 1929
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.7 51.3 76.9





#11
2-Methylnaphthalene-d10
Concen: 0.337 ng
RT: 11.667 min Scan# 1094
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

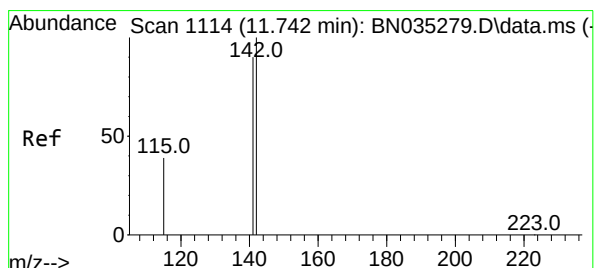
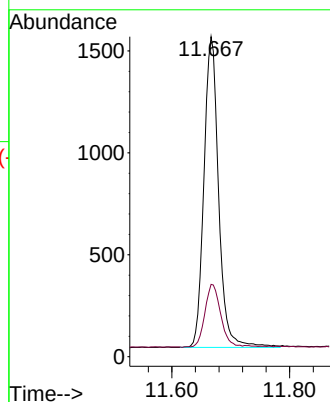
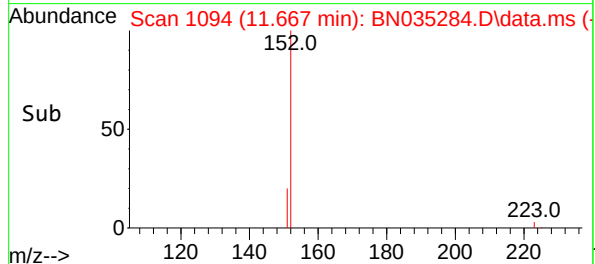
Instrument :
BNA_N
ClientSampleId :
ICVBN112524



Tgt Ion:152 Resp: 2638
Ion Ratio Lower Upper
152 100
151 21.9 17.2 25.8

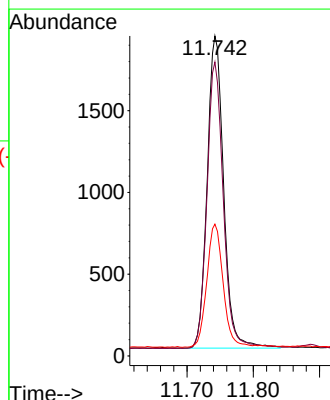
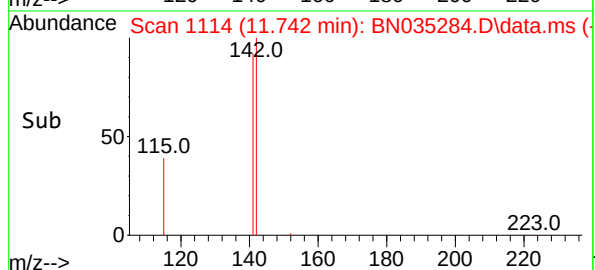
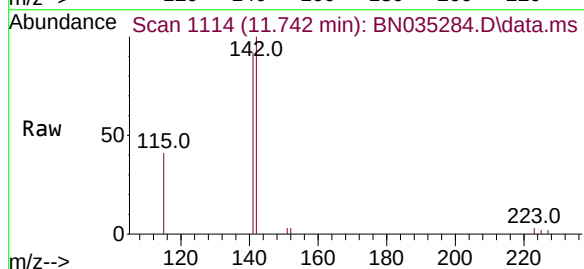
Manual Integrations
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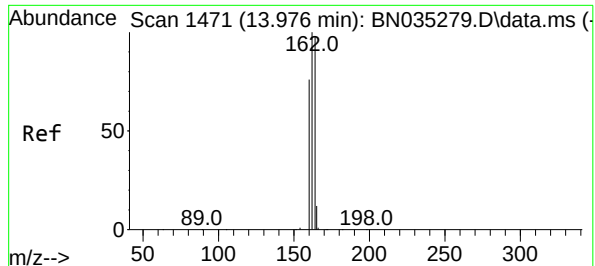
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#12
2-Methylnaphthalene
Concen: 0.325 ng
RT: 11.742 min Scan# 1114
Delta R.T. 0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

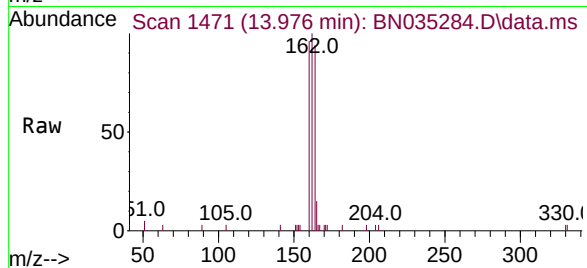
Tgt Ion:142 Resp: 3297
Ion Ratio Lower Upper
142 100
141 91.9 71.8 107.8
115 41.2 32.6 49.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.976 min Scan# 1471
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

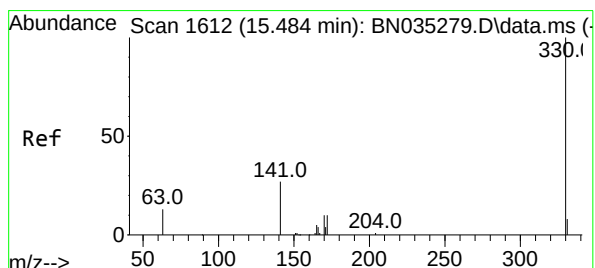
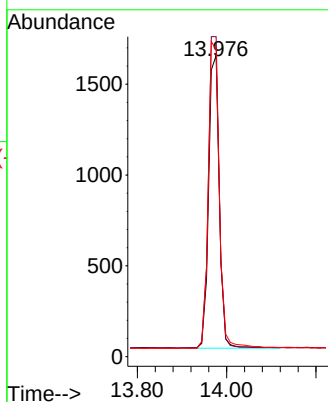
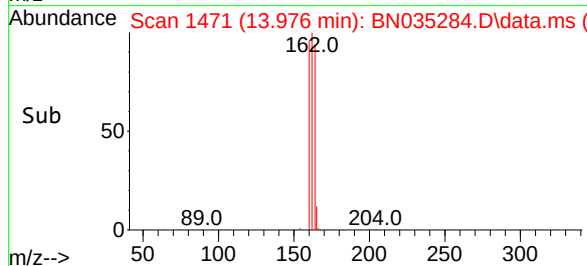
Instrument :
BNA_N
ClientSampleId :
ICVBN112524



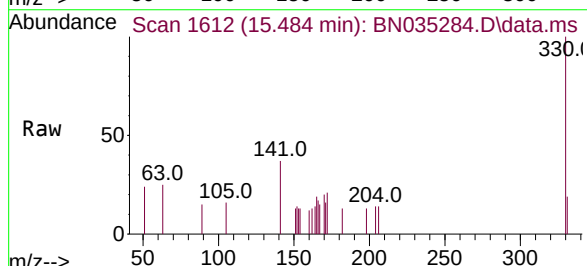
Tgt Ion:164 Resp: 2659
Ion Ratio Lower Upper
164 100
162 106.3 82.0 123.0
160 101.9 63.0 94.4

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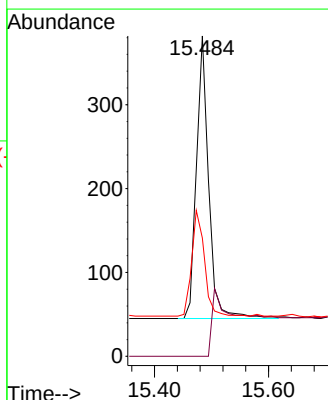
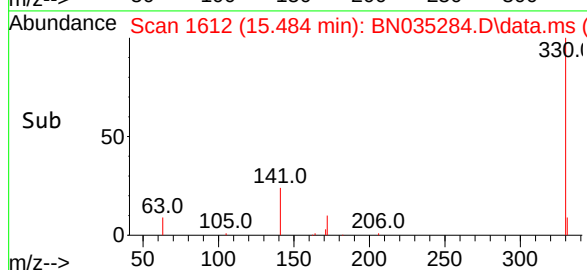
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024

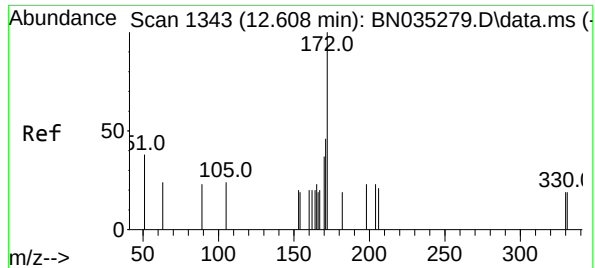


#14
2,4,6-Tribromophenol
Concen: 0.402 ng
RT: 15.484 min Scan# 1612
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29



Tgt Ion:330 Resp: 546
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 37.7 32.4 48.6





#15
2-Fluorobiphenyl
Concen: 0.465 ng
RT: 12.608 min Scan# 1343
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Instrument :

BNA_N

ClientSampleId :

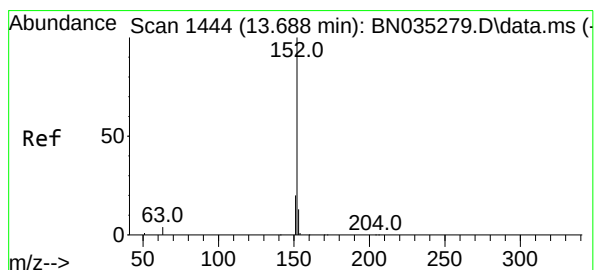
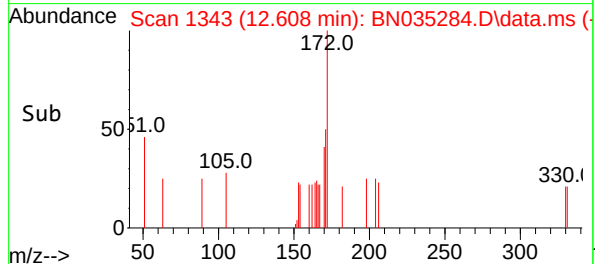
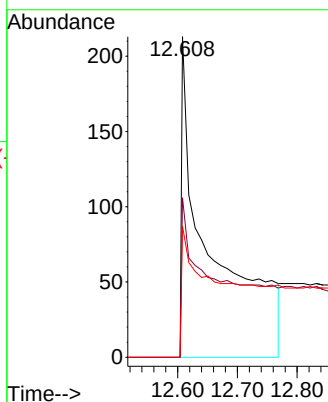
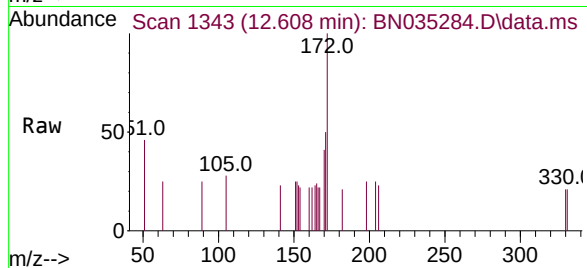
ICVBN112524

Tgt Ion	Ratio	Lower	Upper
172	100		
171	49.8	36.6	55.0
170	40.8	29.7	44.5

Manual Integrations

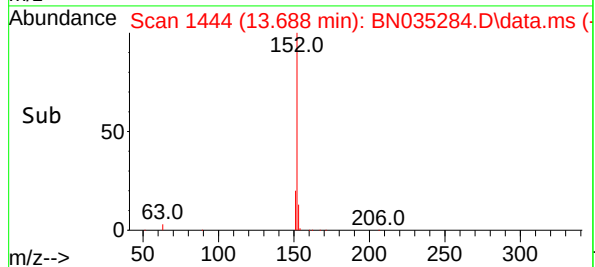
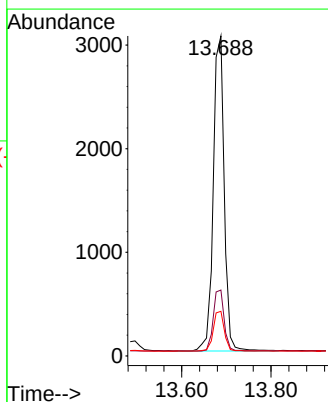
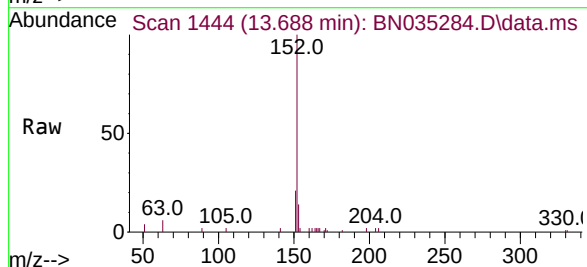
APPROVED

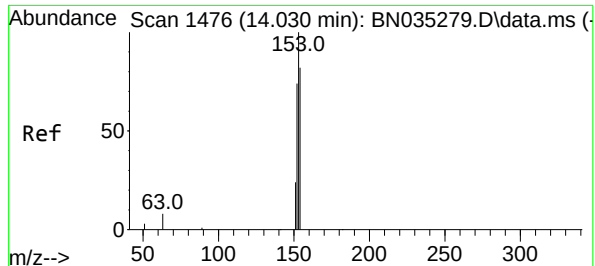
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#16
Acenaphthylene
Concen: 0.387 ng
RT: 13.688 min Scan# 1444
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

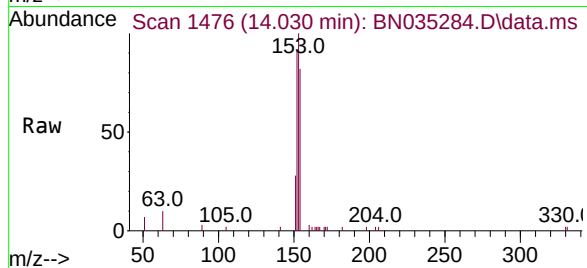
Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.1	15.9	23.9
153	12.9	10.2	15.4





#17
Acenaphthene
Concen: 0.383 ng
RT: 14.030 min Scan# 1476
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

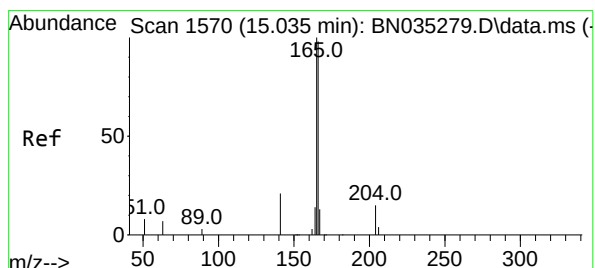
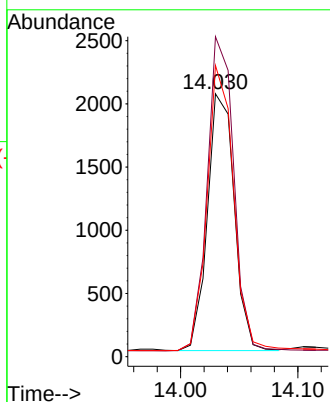
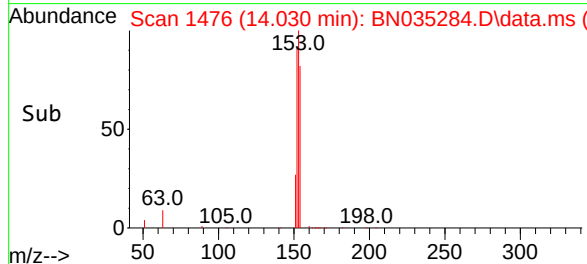
Instrument :
BNA_N
ClientSampleId :
ICVBN112524



Tgt Ion:154 Resp: 322
Ion Ratio Lower Upper
154 100
153 121.8 96.1 144.1
152 111.1 72.2 108.2

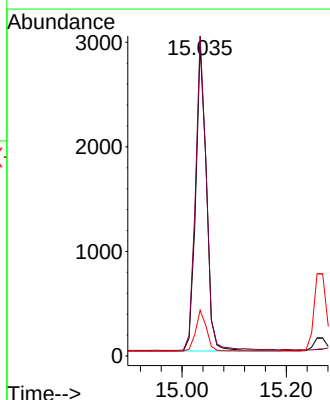
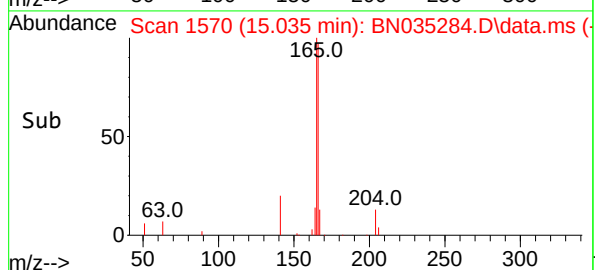
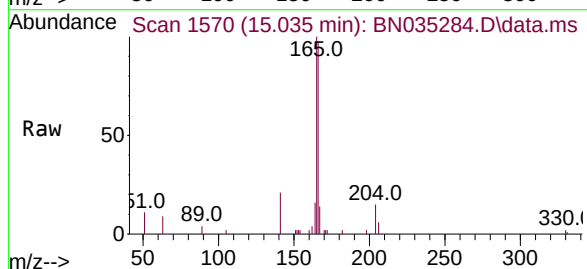
Manual Integrations
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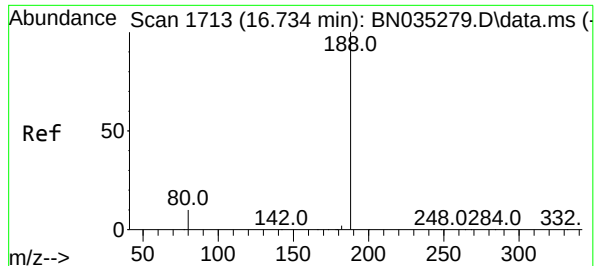
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#18
Fluorene
Concen: 0.355 ng
RT: 15.035 min Scan# 1570
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

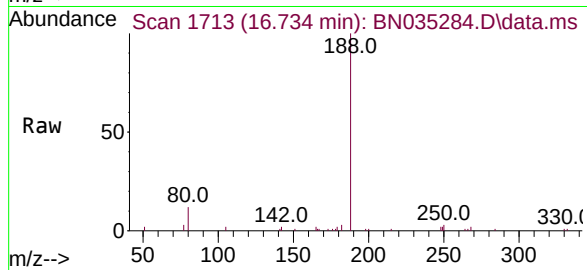
Tgt Ion:166 Resp: 4194
Ion Ratio Lower Upper
166 100
165 104.2 81.2 121.8
167 13.7 10.5 15.7





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.734 min Scan# 1713
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

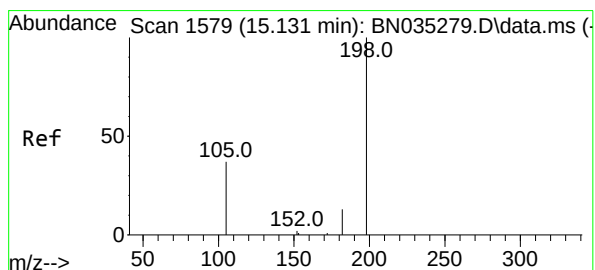
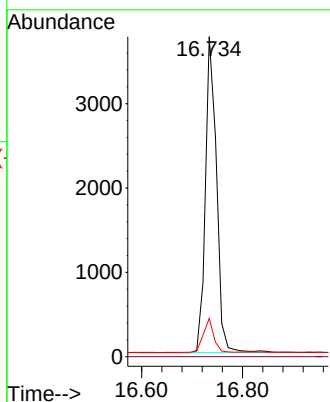
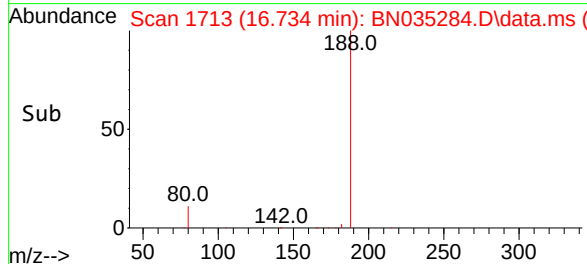
Instrument :
BNA_N
ClientSampleId :
ICVBN112524



Tgt Ion:188 Resp: 5748
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 11.9 8.9 13.3

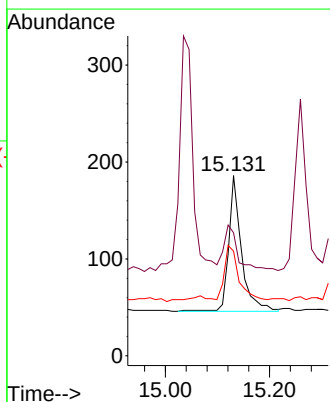
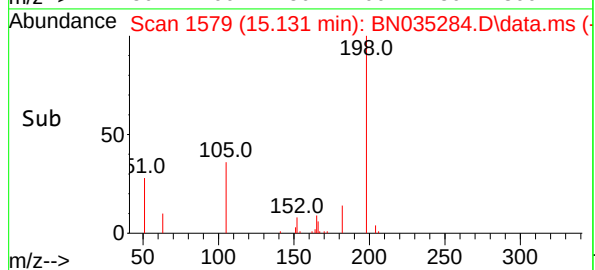
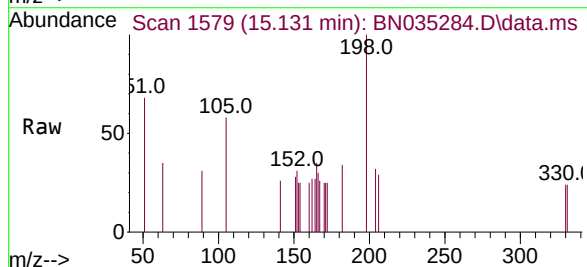
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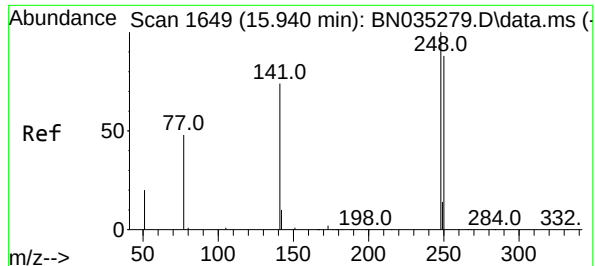
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#20
4,6-Dinitro-2-methylphenol
Concen: 0.477 ng
RT: 15.131 min Scan# 1579
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

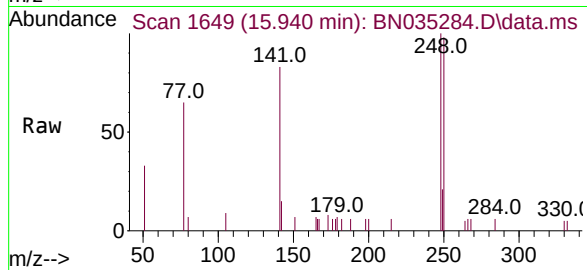
Tgt Ion:198 Resp: 239
Ion Ratio Lower Upper
198 100
51 68.3 53.6 80.4
105 58.1 47.4 71.2





#21
4-Bromophenyl-phenylether
Concen: 0.364 ng
RT: 15.940 min Scan# 1649
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

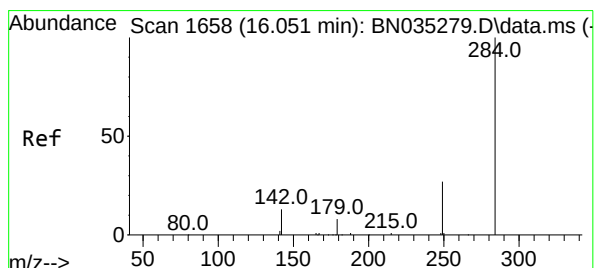
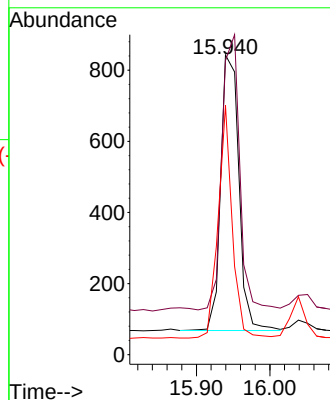
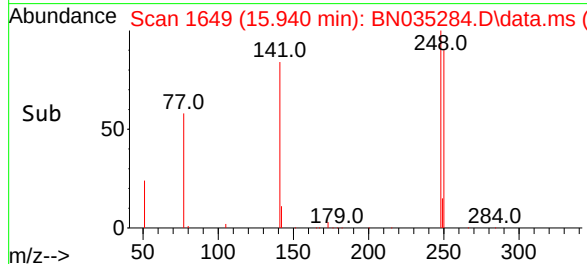
Instrument :
BNA_N
ClientSampleId :
ICVBN112524



Tgt Ion:248 Resp: 1328
Ion Ratio Lower Upper
248 100
250 98.1 74.8 112.2
141 83.2 59.0 88.4

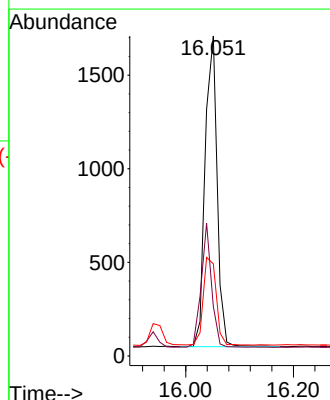
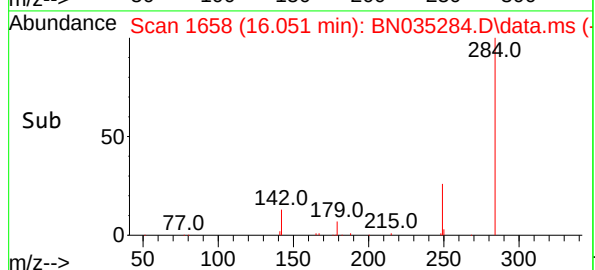
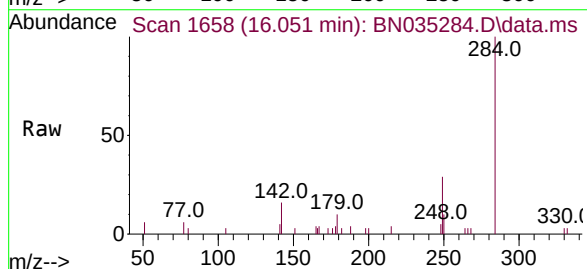
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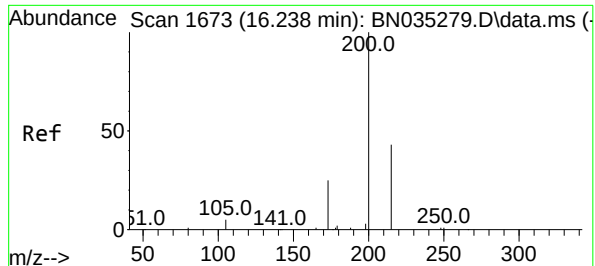
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#22
Hexachlorobenzene
Concen: 0.491 ng
RT: 16.051 min Scan# 1658
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Tgt Ion:284 Resp: 2564
Ion Ratio Lower Upper
284 100
142 35.1 28.7 43.1
249 30.5 25.4 38.0





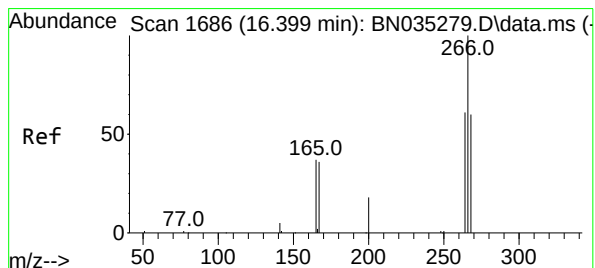
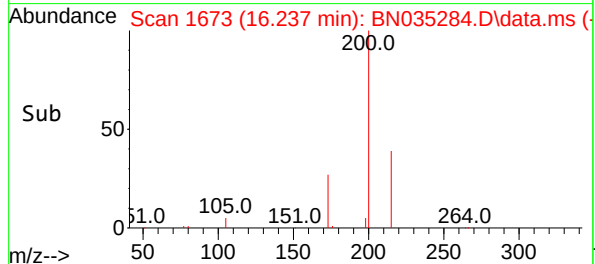
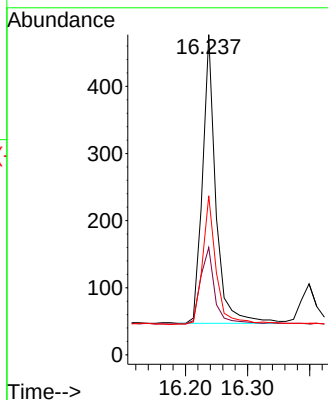
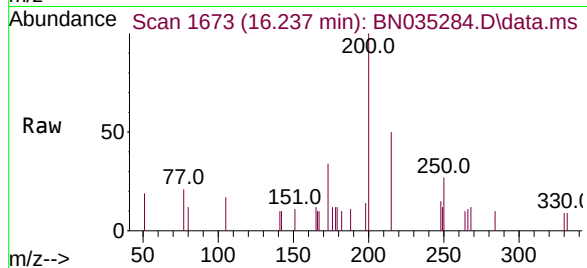
#23
Atrazine
Concen: 0.419 ng
RT: 16.237 min Scan# 1673
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Instrument :
BNA_N
ClientSampleId :
ICVBN112524

Tgt Ion:200 Resp: 64.0
Ion Ratio Lower Upper
200 100
173 33.5 25.8 38.8
215 49.7 38.6 58.0

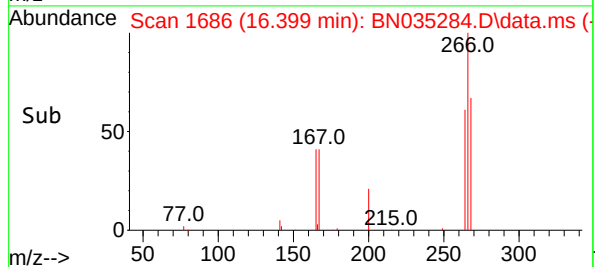
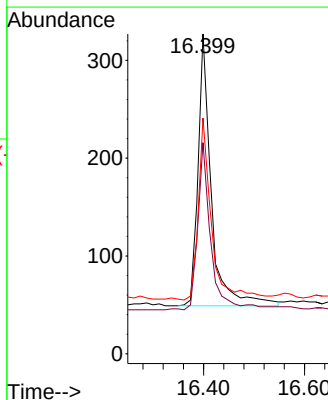
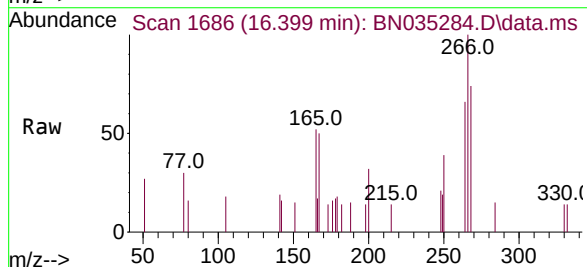
Manual Integrations
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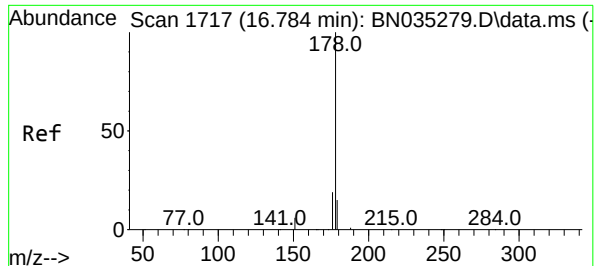
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#24
Pentachlorophenol
Concen: 0.407 ng
RT: 16.399 min Scan# 1686
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Tgt Ion:266 Resp: 510
Ion Ratio Lower Upper
266 100
264 59.8 49.3 73.9
268 66.9 48.6 73.0





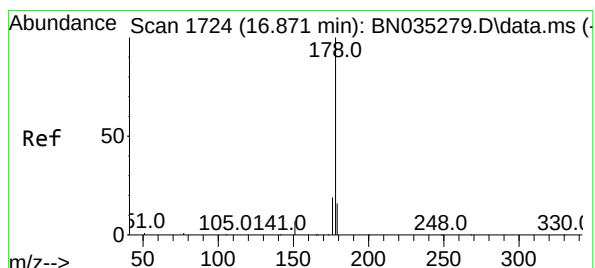
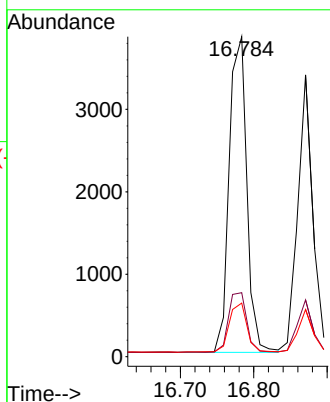
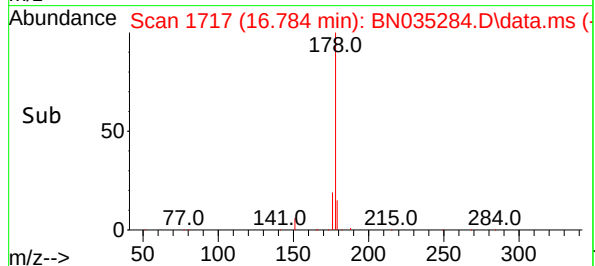
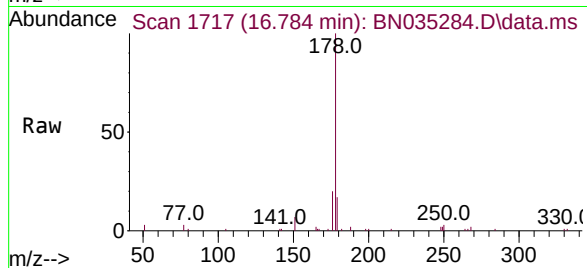
#25
Phenanthrene
Concen: 0.362 ng
RT: 16.784 min Scan# 1717
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Instrument :
BNA_N
ClientSampleId :
ICVBN112524

Tgt Ion:178 Resp: 6385
Ion Ratio Lower Upper
178 100
176 19.5 15.4 23.0
179 15.8 12.6 18.8

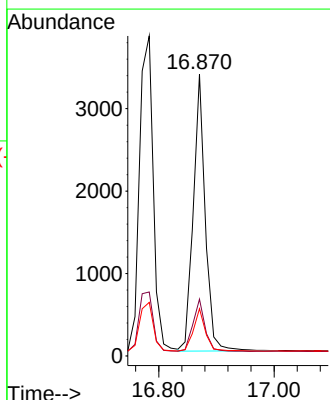
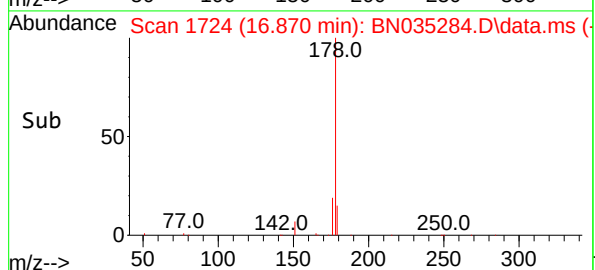
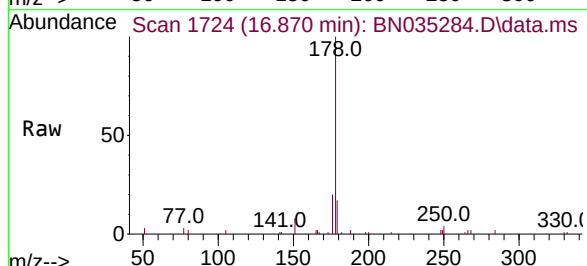
Manual Integrations
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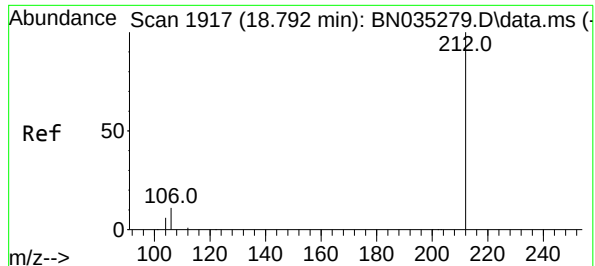
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#26
Anthracene
Concen: 0.320 ng
RT: 16.870 min Scan# 1724
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Tgt Ion:178 Resp: 4852
Ion Ratio Lower Upper
178 100
176 19.1 15.0 22.4
179 15.5 12.4 18.6





#27

Fluoranthene-d10

Concen: 0.343 ng m

RT: 18.792 min Scan# 1917

Delta R.T. -0.000 min

Lab File: BN035284.D

Acq: 25 Nov 2024 14:29

Instrument :

BNA_N

ClientSampleId :

ICVBN112524

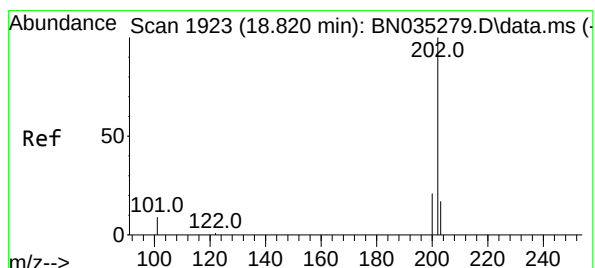
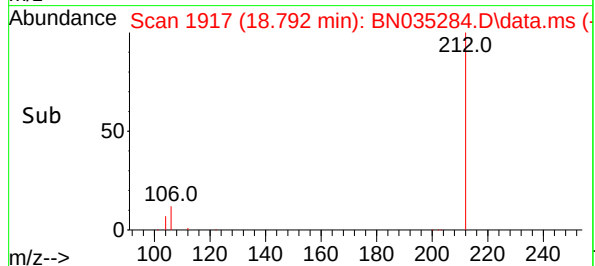
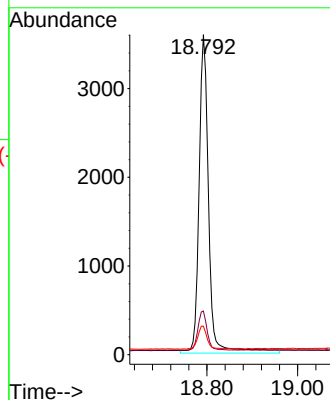
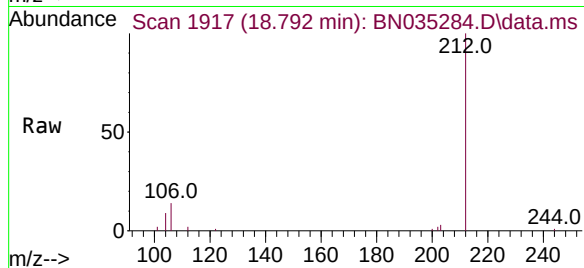
Tgt Ion:	212	Resp:	5270
Ion	Ratio	Lower	Upper
212	100		
106	11.8	9.8	14.8
104	7.3	5.6	8.4

Manual Integrations

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Reviewed By :Yogesh Patel 11/27/2024

Supervised By :mohammad ahmed 11/27/2024



#28

Fluoranthene

Concen: 0.300 ng

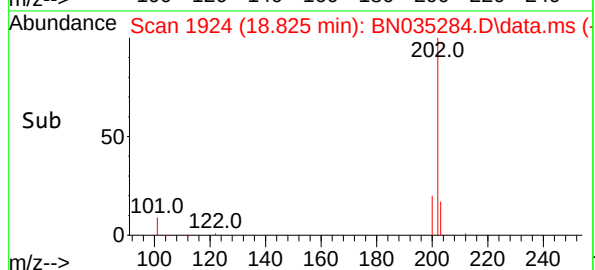
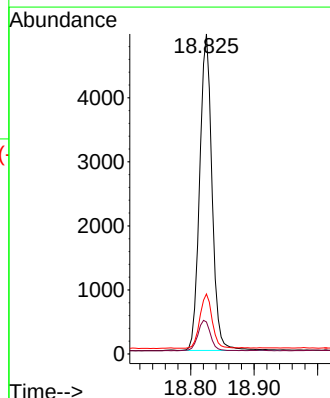
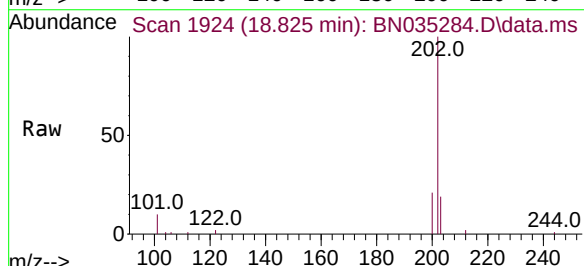
RT: 18.825 min Scan# 1924

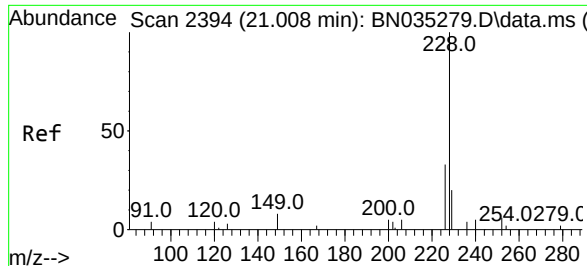
Delta R.T. 0.005 min

Lab File: BN035284.D

Acq: 25 Nov 2024 14:29

Tgt Ion:	202	Resp:	6686
Ion	Ratio	Lower	Upper
202	100		
101	9.8	7.6	11.4
203	17.1	13.8	20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.008 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035284.D

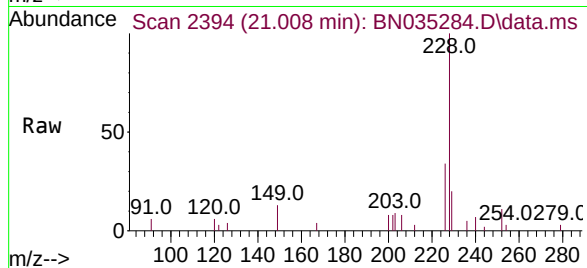
Acq: 25 Nov 2024 14:29

Instrument :

BNA_N

ClientSampleId :

ICVBN112524



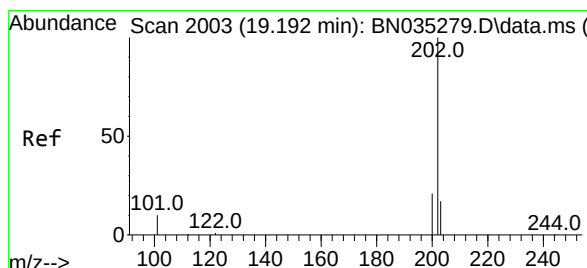
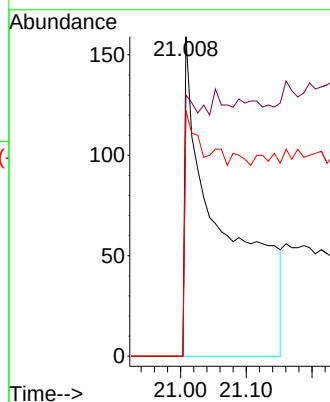
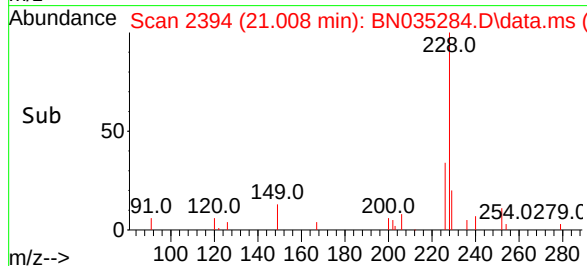
Tgt Ion:	240	Resp:	61
Ion	Ratio	Lower	Upper
240	100		
120	81.8	54.9	82.3
236	76.7	54.0	81.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/27/2024

Supervised By :mohammad ahmed 11/27/2024



#30

Pyrene

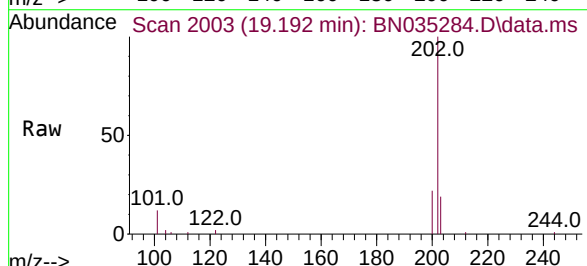
Concen: 0.294 ng

RT: 19.192 min Scan# 2003

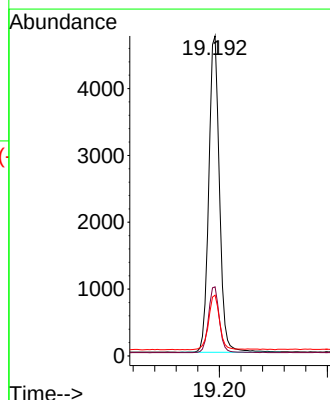
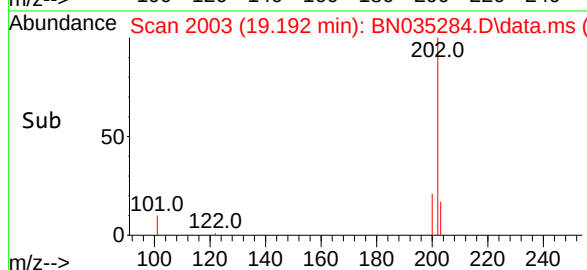
Delta R.T. -0.000 min

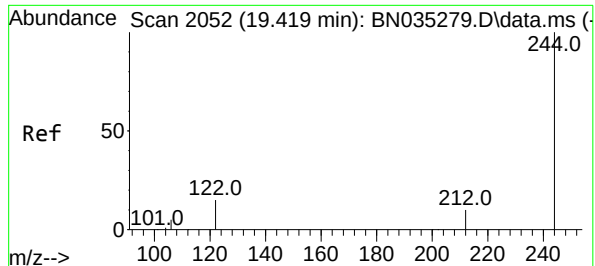
Lab File: BN035284.D

Acq: 25 Nov 2024 14:29



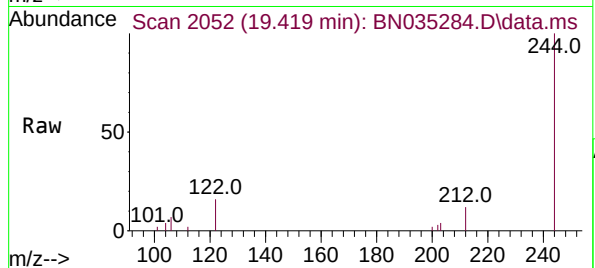
Tgt Ion:	202	Resp:	6525
Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.8	25.2
203	17.9	14.4	21.6





#31
Terphenyl-d14
Concen: 0.282 ng
RT: 19.419 min Scan# 2052
Delta R.T. 0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

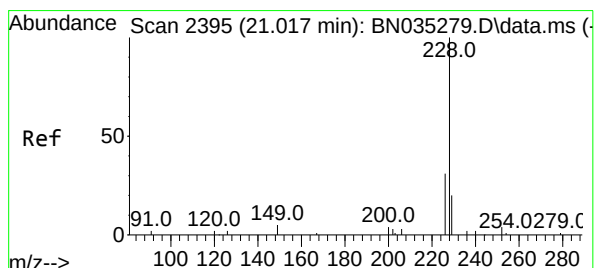
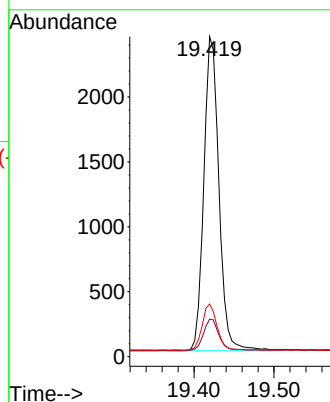
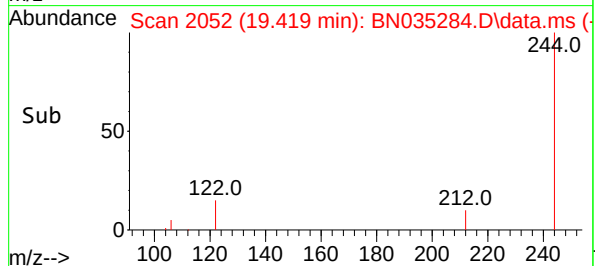
Instrument :
BNA_N
ClientSampleId :
ICVBN112524



Tgt Ion:244 Resp: 318
Ion Ratio Lower Upper
244 100
212 11.8 9.4 14.0
122 16.4 13.0 19.4

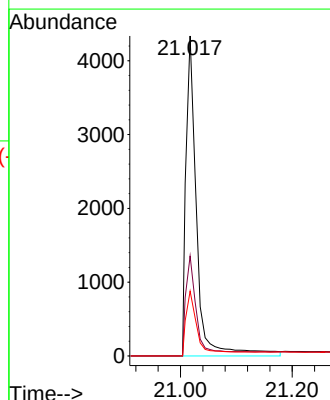
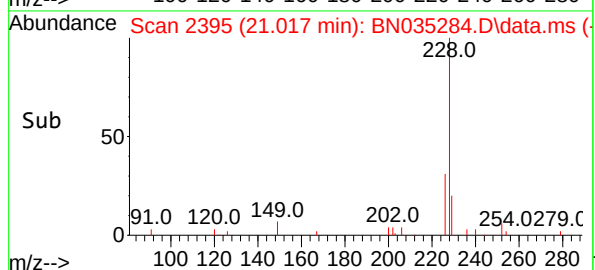
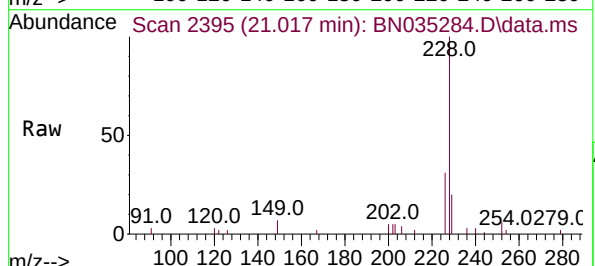
Manual Integrations
APPROVED

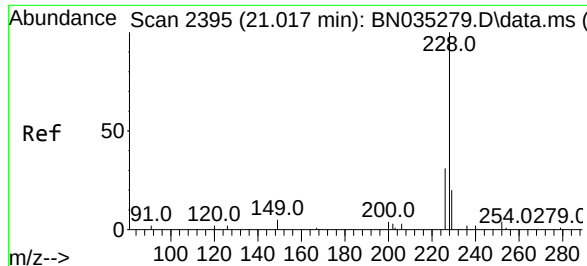
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#32
Benzo(a)anthracene
Concen: 0.273 ng
RT: 21.017 min Scan# 2395
Delta R.T. 0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Tgt Ion:228 Resp: 5799
Ion Ratio Lower Upper
228 100
226 31.3 24.7 37.1
229 20.3 16.2 24.2





#33

Chrysene

Concen: 0.273 ng

RT: 21.017 min Scan# 2395

Delta R.T. -0.000 min

Lab File: BN035284.D

Acq: 25 Nov 2024 14:29

Instrument :

BNA_N

ClientSampleId :

ICVBN112524

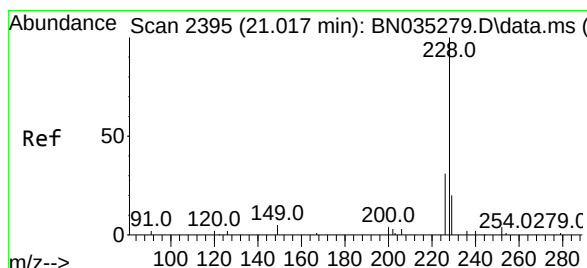
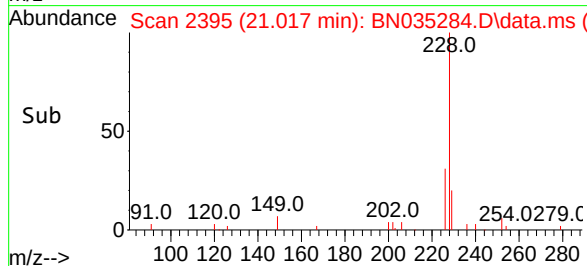
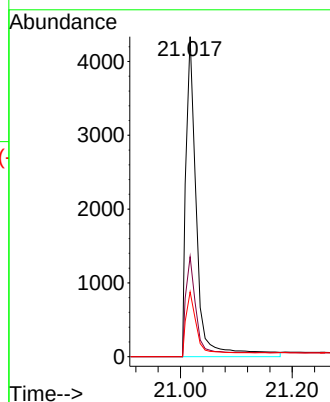
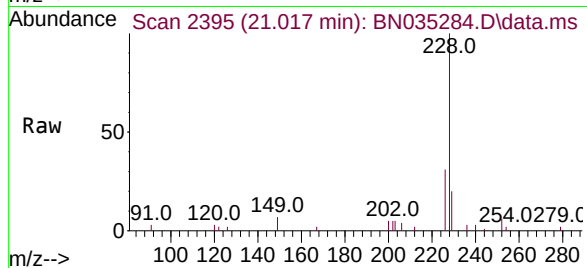
Tgt Ion:228	Resp:	579
Ion Ratio	Lower	Upper
228	100	
226	31.3	24.7 37.1
229	20.3	16.2 24.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/27/2024

Supervised By :mohammad ahmed 11/27/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.041 ng

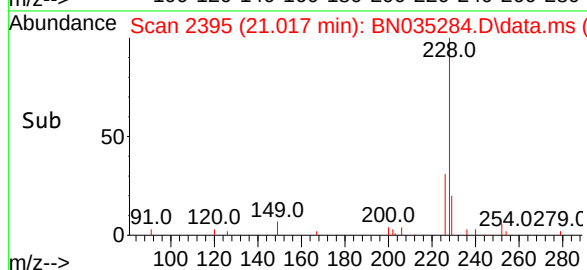
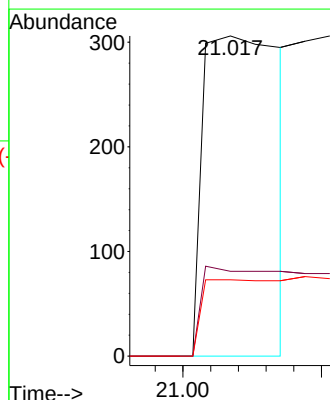
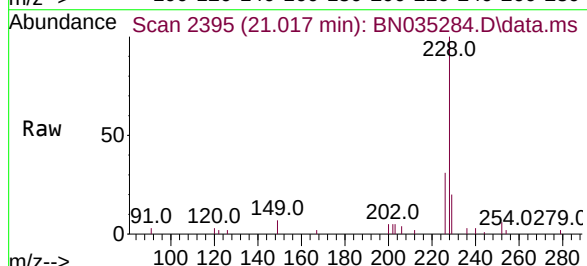
RT: 21.017 min Scan# 2395

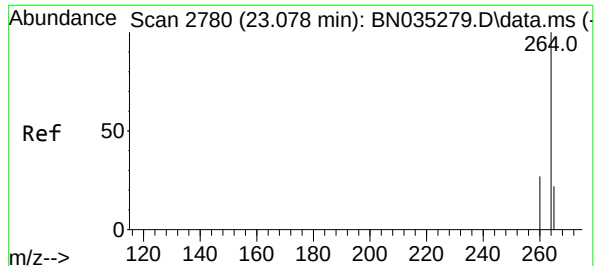
Delta R.T. 0.000 min

Lab File: BN035284.D

Acq: 25 Nov 2024 14:29

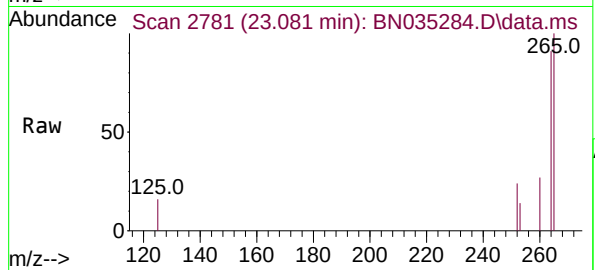
Tgt Ion:149	Resp:	520
Ion Ratio	Lower	Upper
149	100	
167	35.4	0.0 0.0#
279	17.1	13.0 19.6





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.081 min Scan# 21
Delta R.T. 0.003 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

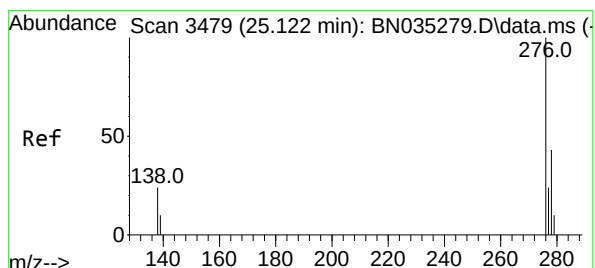
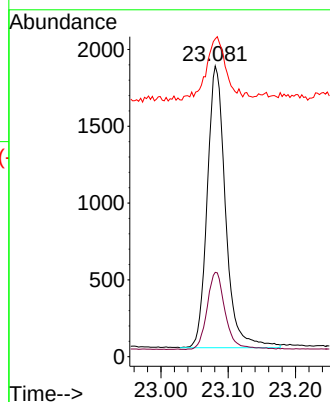
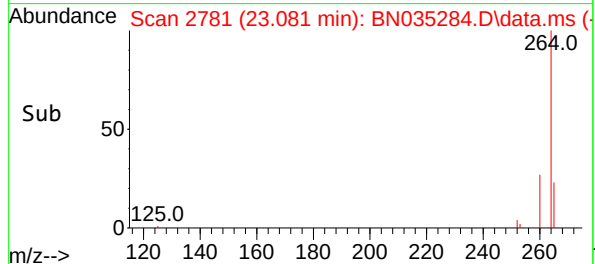
Instrument :
BNA_N
ClientSampleId :
ICVBN112524



Tgt Ion:264 Resp: 3470
Ion Ratio Lower Upper
264 100
260 29.0 22.3 33.5
265 109.3 68.6 103.0

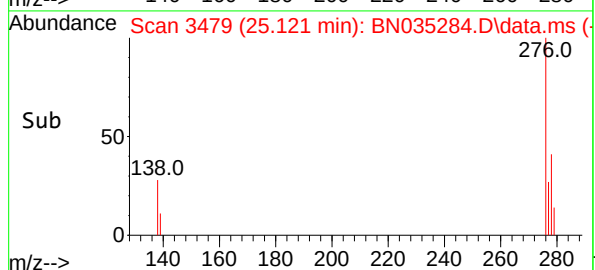
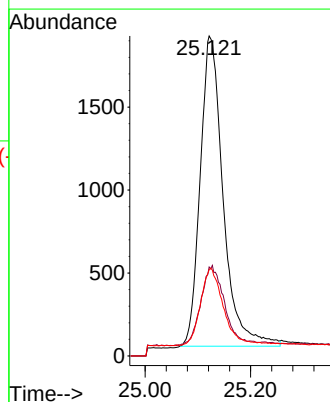
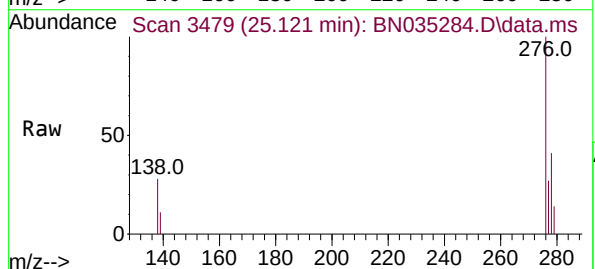
Manual Integrations
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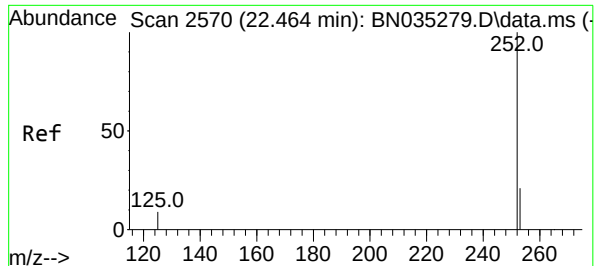
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.398 ng
RT: 25.121 min Scan# 3479
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Tgt Ion:276 Resp: 5652
Ion Ratio Lower Upper
276 100
138 23.1 18.8 28.2
277 23.0 18.2 27.4





#37

Benzo(b)fluoranthene

Concen: 0.355 ng

RT: 22.464 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035284.D

Acq: 25 Nov 2024 14:29

Instrument :

BNA_N

ClientSampleId :

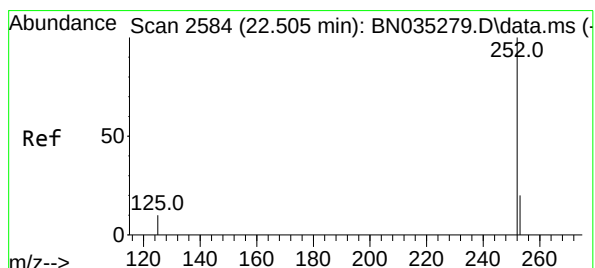
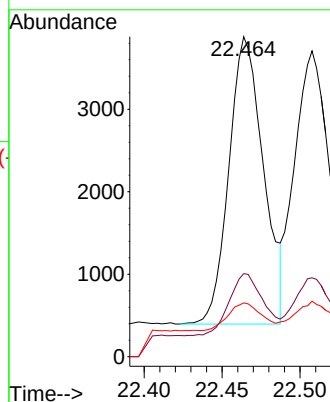
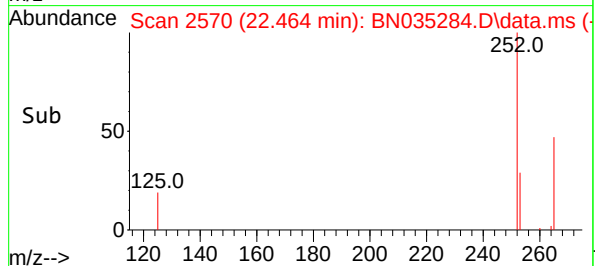
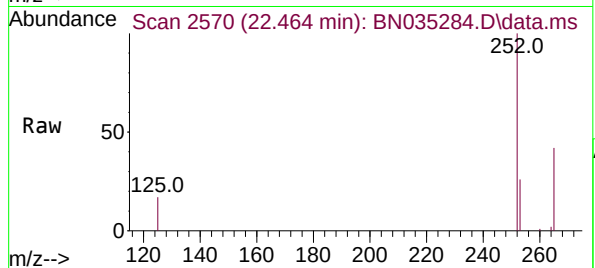
ICVBN112524

Tgt Ion:	252	Resp:	5358
Ion	Ratio	Lower	Upper
252	100		
253	26.0	20.2	30.2
125	16.8	12.0	18.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#38

Benzo(k)fluoranthene

Concen: 0.348 ng

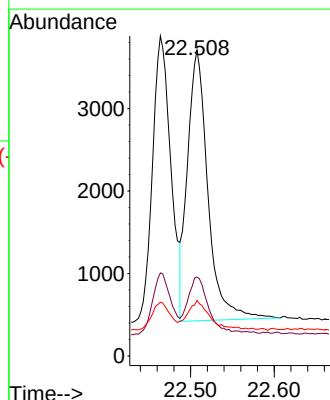
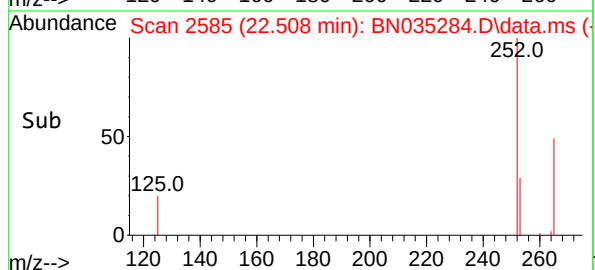
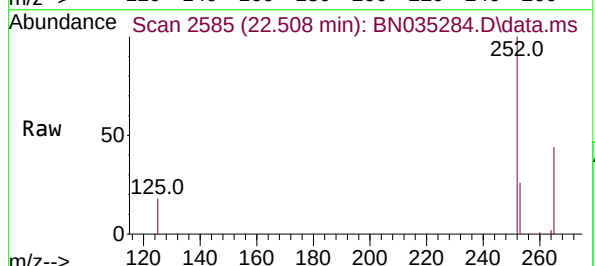
RT: 22.508 min Scan# 2585

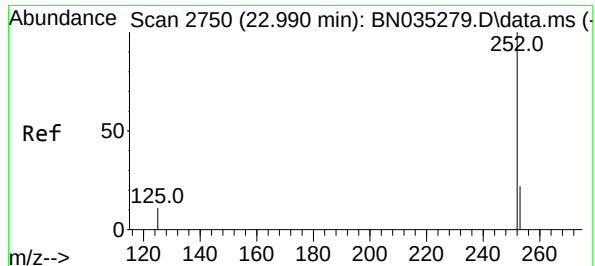
Delta R.T. 0.003 min

Lab File: BN035284.D

Acq: 25 Nov 2024 14:29

Tgt Ion:	252	Resp:	5559
Ion	Ratio	Lower	Upper
252	100		
253	25.8	20.1	30.1
125	18.1	12.7	19.1





#39

Benzo(a)pyrene

Concen: 0.361 ng

RT: 22.990 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035284.D

Acq: 25 Nov 2024 14:29

Instrument :

BNA_N

ClientSampleId :

ICVBN112524

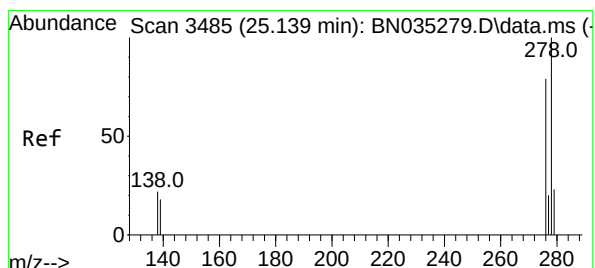
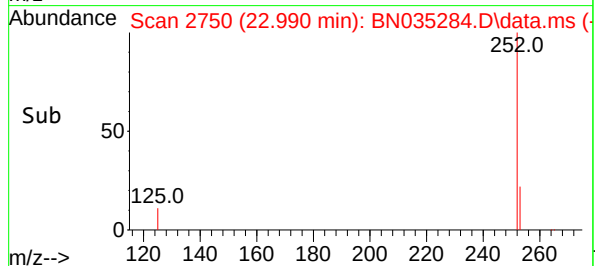
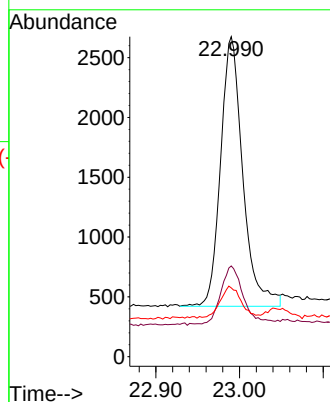
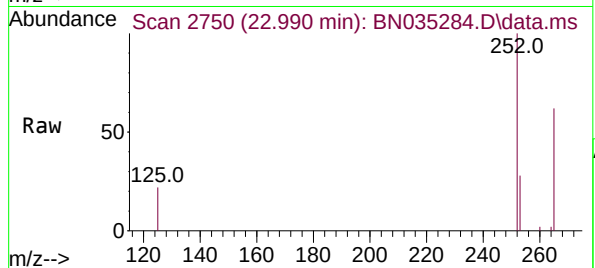
Tgt Ion:	252	Resp:	416
Ion Ratio	Lower	Upper	
252	100		
253	28.3	22.3	33.5
125	21.5	15.3	22.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/27/2024

Supervised By :mohammad ahmed 11/27/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.389 ng

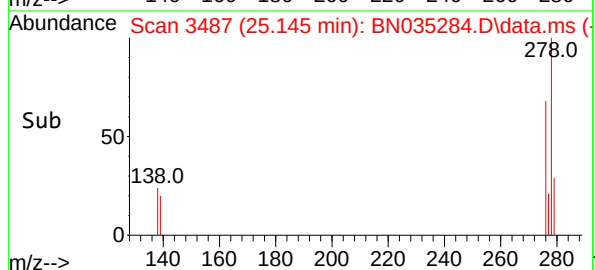
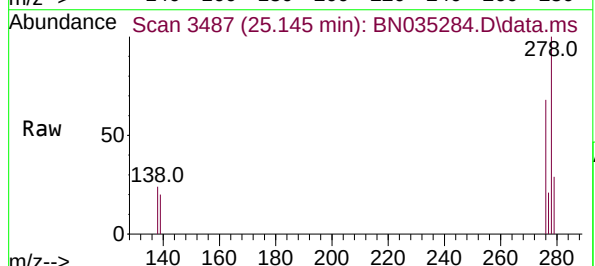
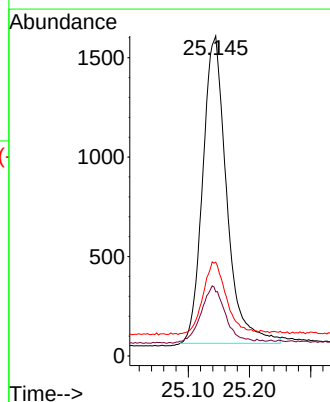
RT: 25.145 min Scan# 3487

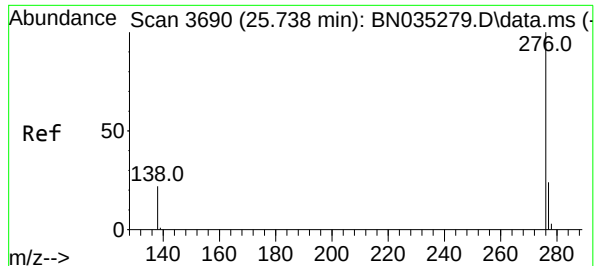
Delta R.T. 0.006 min

Lab File: BN035284.D

Acq: 25 Nov 2024 14:29

Tgt Ion:	278	Resp:	4182
Ion Ratio	Lower	Upper	
278	100		
139	20.1	17.0	25.6
279	29.3	23.0	34.4





#41

Benzo(g,h,i)perylene

Concen: 0.412 ng

RT: 25.738 min Scan# 30

Delta R.T. -0.000 min

Lab File: BN035284.D

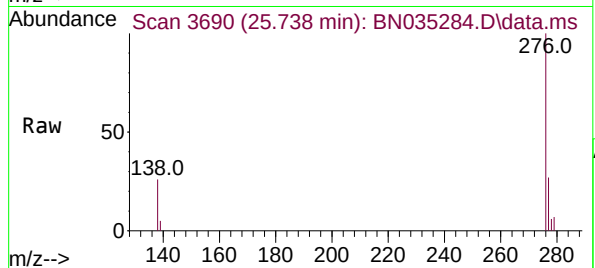
Acq: 25 Nov 2024 14:29

Instrument :

BNA_N

ClientSampleId :

ICVBN112524



Tgt Ion:276 Resp: 512

Ion Ratio Lower Upper

276 100

277 26.8 21.1 31.7

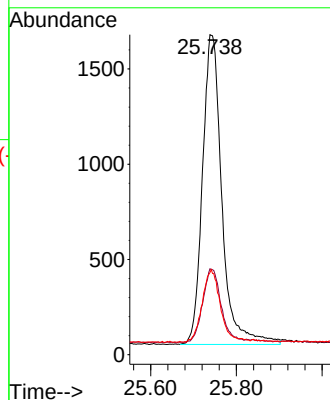
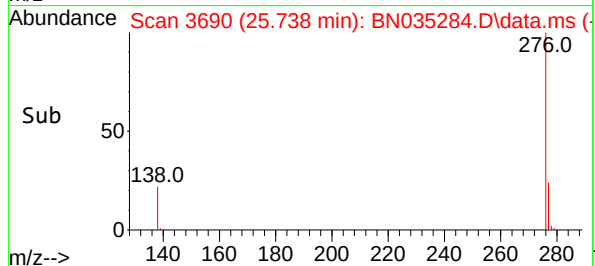
138 25.7 19.8 29.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/27/2024

Supervised By :mohammad ahmed 11/27/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
 Data File : BN035284.D
 Acq On : 25 Nov 2024 14:29
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 59 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN112524

Quant Time: Nov 25 22:35:44 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Nov 25 14:32:52 2024
 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	115	0.00
2	1,4-Dioxane	0.288	0.274	4.9	109	0.00
3	n-Nitrosodimethylamine	0.298	0.321	-7.7	130	0.00
4 S	2-Fluorophenol	0.756	0.680	10.1	99	0.00
5 S	Phenol-d6	1.056	0.919	13.0	95	0.00
6	bis(2-Chloroethyl)ether	0.889	0.846	4.8	108	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	105	0.00
8 S	Nitrobenzene-d5	0.324	0.381	-17.6	115	0.00
9	Naphthalene	1.110	1.068	3.8	103	0.00
10	Hexachlorobutadiene	0.312	0.345	-10.6	116	0.00
11 SURR	2-Methylnaphthalene-d10	0.560	0.471	15.9	92	0.00
12	2-Methylnaphthalene	0.726	0.589	18.9	91	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	90	0.00
14 S	2,4,6-Tribromophenol	0.204	0.205	-0.5	103	0.00
15 S	2-Fluorobiphenyl	0.221	0.257	-16.3	95	0.00
16	Acenaphthylene	2.013	1.946	3.3	93	0.00
17	Acenaphthene	1.267	1.214	4.2	93	0.00
18	Fluorene	1.777	1.577	11.3	87	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	83	0.00
20	4,6-Dinitro-2-methylphenol	0.041	0.042	-2.4	103	0.00
21	4-Bromophenyl-phenylether	0.254	0.231	9.1	82	0.00
22	Hexachlorobenzene	0.363	0.446	-22.9	106	0.00
23	Atrazine	0.107	0.112	-4.7	93	0.00
24	Pentachlorophenol	0.087	0.089	-2.3	94	0.00
25	Phenanthrene	1.229	1.111	9.6	82	0.00
26	Anthracene	1.055	0.844	20.0	77	0.00
27 SURR	Fluoranthene-d10	1.070	0.917	14.3	79	0.00
28	Fluoranthene	1.550	1.163	25.0	72	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	104	0.00
30	Pyrene	14.551	10.679	26.6#	73	0.00
31 S	Terphenyl-d14	7.392	5.216	29.4#	75	0.00
32	Benzo(a)anthracene	13.920	9.491	31.8#	72	0.00
33	Chrysene	13.920	9.491	31.8#	72	0.00
34	Bis(2-ethylhexyl)phthalate	0.765	0.851	-11.2	98	0.00
35 I	Perylene-d12	1.000	1.000	0.0	74	0.00
36	Indeno(1,2,3-cd)pyrene	1.638	1.629	0.5	79	0.00
37	Benzo(b)fluoranthene	1.738	1.544	11.2	79	0.00
38	Benzo(k)fluoranthene	1.839	1.602	12.9	73	0.00
39 C	Benzo(a)pyrene	1.329	1.201	9.6	78	0.00
40	Dibenzo(a,h)anthracene	1.238	1.205	2.7	81	0.00
41	Benzo(g,h,i)perylene	1.432	1.476	-3.1	88	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
 Data File : BN035284.D
 Acq On : 25 Nov 2024 14:29
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 59 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN112524

Quant Time: Nov 25 22:35:44 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Nov 25 14:32:52 2024
 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	115	0.00
2	1,4-Dioxane	0.400	0.381	4.8	109	0.00
3	n-Nitrosodimethylamine	0.400	0.431	-7.7	130	0.00
4 S	2-Fluorophenol	0.400	0.360	10.0	99	0.00
5 S	Phenol-d6	0.400	0.348	13.0	95	0.00
6	bis(2-Chloroethyl)ether	0.400	0.381	4.8	108	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	105	0.00
8 S	Nitrobenzene-d5	0.400	0.469	-17.2	115	0.00
9	Naphthalene	0.400	0.385	3.8	103	0.00
10	Hexachlorobutadiene	0.400	0.442	-10.5	116	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.337	15.8	92	0.00
12	2-Methylnaphthalene	0.400	0.325	18.8	91	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	90	0.00
14 S	2,4,6-Tribromophenol	0.400	0.402	-0.5	103	0.00
15 S	2-Fluorobiphenyl	0.400	0.465	-16.3	95	0.00
16	Acenaphthylene	0.400	0.387	3.3	93	0.00
17	Acenaphthene	0.400	0.383	4.3	93	0.00
18	Fluorene	0.400	0.355	11.3	87	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	83	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.477	-19.2	103	0.00
21	4-Bromophenyl-phenylether	0.400	0.364	9.0	82	0.00
22	Hexachlorobenzene	0.400	0.491	-22.7	106	0.00
23	Atrazine	0.400	0.419	-4.7	93	0.00
24	Pentachlorophenol	0.400	0.407	-1.7	94	0.00
25	Phenanthrene	0.400	0.362	9.5	82	0.00
26	Anthracene	0.400	0.320	20.0	77	0.00
27 SURR	Fluoranthene-d10	0.400	0.343	14.2	79	0.00
28	Fluoranthene	0.400	0.300	25.0#	72	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	104	0.00
30	Pyrene	0.400	0.294	26.5#	73	0.00
31 S	Terphenyl-d14	0.400	0.282	29.5#	75	0.00
32	Benzo(a)anthracene	0.400	0.273	31.8#	72	0.00
33	Chrysene	0.400	0.273	31.8#	72	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.041	89.8#	98	0.00
35 I	Perylene-d12	0.400	0.400	0.0	74	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.398	0.5	79	0.00
37	Benzo(b)fluoranthene	0.400	0.355	11.3	79	0.00
38	Benzo(k)fluoranthene	0.400	0.348	13.0	73	0.00
39 C	Benzo(a)pyrene	0.400	0.361	9.8	78	0.00
40	Dibenzo(a,h)anthracene	0.400	0.389	2.8	81	0.00
41	Benzo(g,h,i)perylene	0.400	0.412	-3.0	88	0.00

(#) = Out of Range

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



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P4934 SAS No.: P4934 SDG No.: P4934

Instrument ID: BNA_N Calibration Date/Time: 11/21/2024 13:22

Lab File ID: BN035219.D Init. Calib. Date(s): 11/13/2024 11/13/2024

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 12:40 16:15

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.713	0.604		-15.3	20.0
Fluoranthene-d10	1.225	0.956		-22.0	20.0
2-Fluorophenol	1.015	1.174		15.7	20.0
Phenol-d6	1.273	1.472		15.6	20.0
Nitrobenzene-d5	0.348	0.208		-40.2	20.0
2-Fluorobiphenyl	1.624	0.299		-81.6	20.0
2,4,6-Tribromophenol	0.289	0.331		14.5	20.0
Terphenyl-d14	0.839	3.629		332.5	20.0
1,4-Dioxane	0.363	0.403		11.0	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112124\
 Data File : BN035219.D
 Acq On : 21 Nov 2024 13:22
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/22/2024

Supervised By :mohammad ahmed 11/22/2024

Quant Time: Nov 21 14:33:33 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Thu Nov 21 14:00:03 2024

Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.329	152	3553	0.400	ng	0.00
7) Naphthalene-d8	10.073	136	8594	0.400	ng	# 0.00
13) Acenaphthene-d10	13.987	164	5839	0.400	ng	0.00
19) Phenanthrene-d10	16.746	188	13132	0.400	ng	# 0.00
29) Chrysene-d12	21.008	240	2179	0.400	ng	# 0.00
35) Perylene-d12	23.104	264	7936	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.982	112	4170	0.462	ng	0.00
5) Phenol-d6	6.528	99	5231	0.463	ng	0.00
8) Nitrobenzene-d5	8.461	82	1784m	0.238	ng	0.00
11) 2-Methylnaphthalene-d10	11.678	152	5187	0.339	ng	0.00
14) 2,4,6-Tribromophenol	15.494	330	1931	0.458	ng	0.00
15) 2-Fluorobiphenyl	12.608	172	1744	0.074	ng	0.00
27) Fluoranthene-d10	18.806	212	12553	0.312	ng	0.00
31) Terphenyl-d14	19.438	244	7908	1.730	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.011	88	1431	0.443	ng	# 85
3) n-Nitrosodimethylamine	3.307	42	1242	0.413	ng	# 97
6) bis(2-Chloroethyl)ether	6.773	93	3817	0.450	ng	95
9) Naphthalene	10.127	128	8813	0.393	ng	99
10) Hexachlorobutadiene	10.426	225	2134	0.324	ng	# 100
12) 2-Methylnaphthalene	11.754	142	6233	0.377	ng	97
16) Acenaphthylene	13.698	152	10404	0.417	ng	99
17) Acenaphthene	14.051	154	6430	0.393	ng	99
18) Fluorene	15.045	166	8973	0.373	ng	99
20) 4,6-Dinitro-2-methylph...	15.142	198	427	0.156	ng	# 31
21) 4-Bromophenyl-phenylether	15.952	248	3185	0.381	ng	# 73
22) Hexachlorobenzene	16.064	284	3749	0.432	ng	96
23) Atrazine	16.250	200	1902	0.253	ng	# 94
24) Pentachlorophenol	16.411	266	2236	0.551	ng	98
25) Phenanthrene	16.796	178	13999	0.405	ng	99
26) Anthracene	16.883	178	13479	0.425	ng	99
28) Fluoranthene	18.839	202	16410	0.345	ng	# 97
30) Pyrene	19.206	202	16732	2.306	ng	100
32) Benzo(a)anthracene	21.035	228	12666	1.669	ng	95
33) Chrysene	21.035	228	12666	1.685	ng	98
34) Bis(2-ethylhexyl)phtha...	21.026	149	1204	0.302	ng	# 93
36) Indeno(1,2,3-cd)pyrene	25.157	276	12159	0.384	ng	# 90
37) Benzo(b)fluoranthene	22.487	252	11451	0.429	ng	# 95
38) Benzo(k)fluoranthene	22.528	252	11422	0.428	ng	# 95
39) Benzo(a)pyrene	23.014	252	9865	0.420	ng	# 94
40) Dibenzo(a,h)anthracene	25.177	278	9332	0.372	ng	# 89
41) Benzo(g,h,i)perylene	25.776	276	10046	0.377	ng	# 89

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

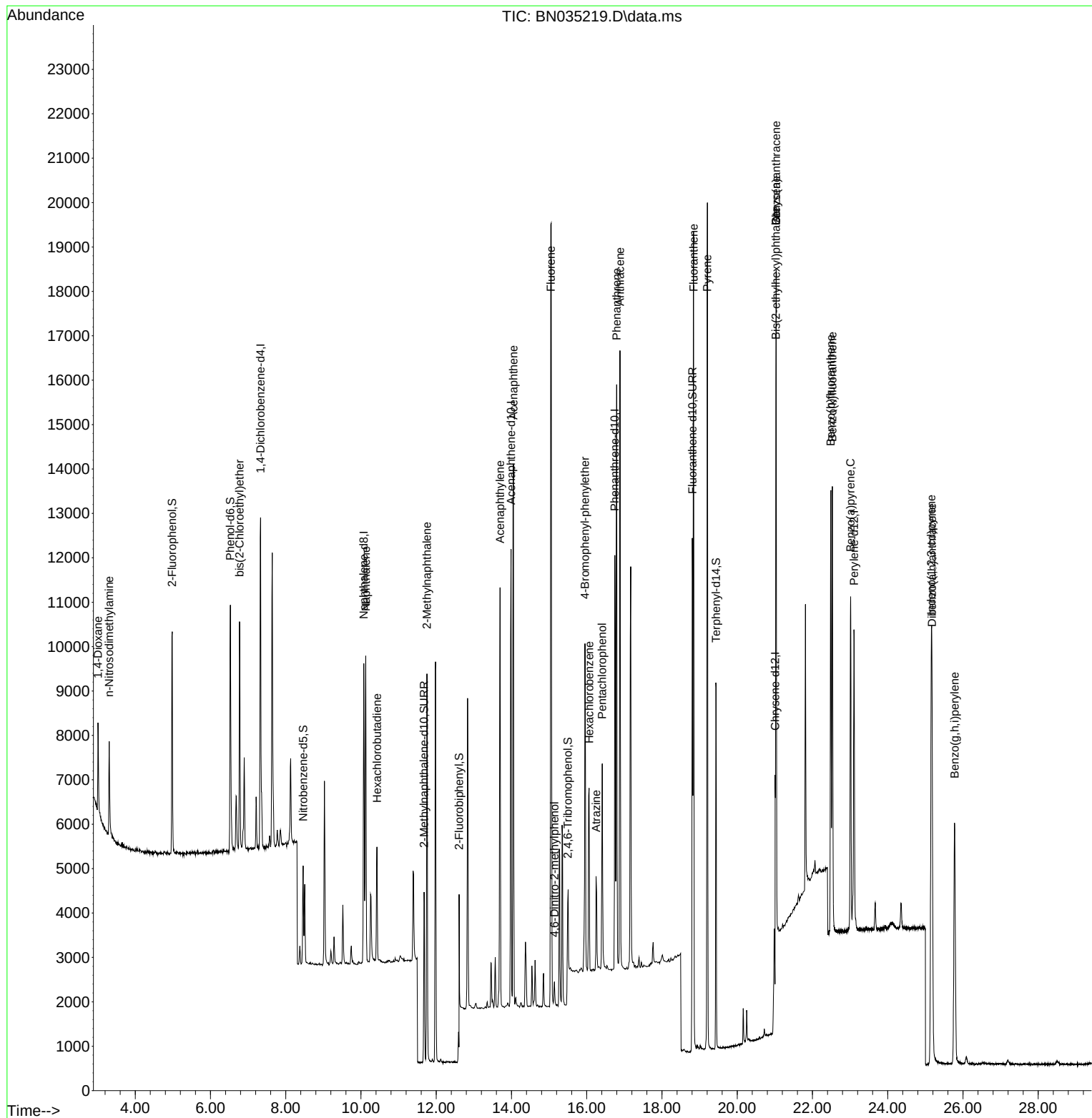
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 Data File : BN035219.D
 Acq On : 21 Nov 2024 13:22
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

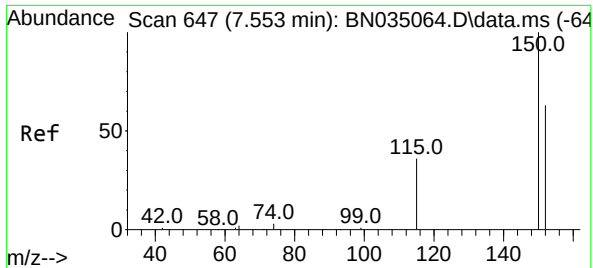
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/22/2024
 Supervised By :mohammad ahmed 11/22/2024

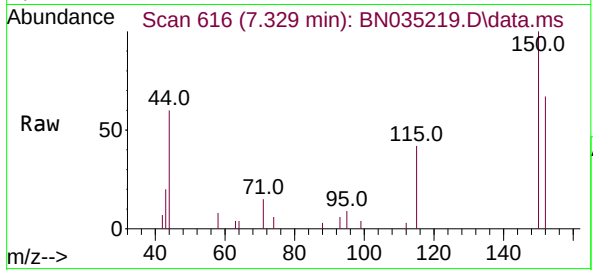
Quant Time: Nov 21 14:33:33 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 21 14:00:03 2024
 Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.329 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

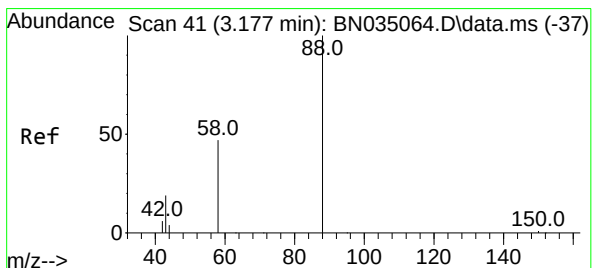
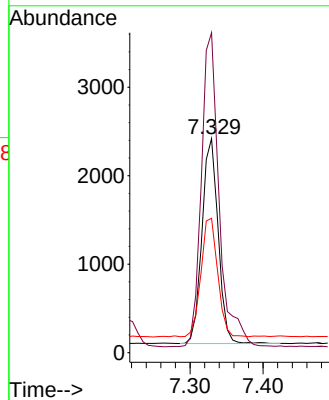
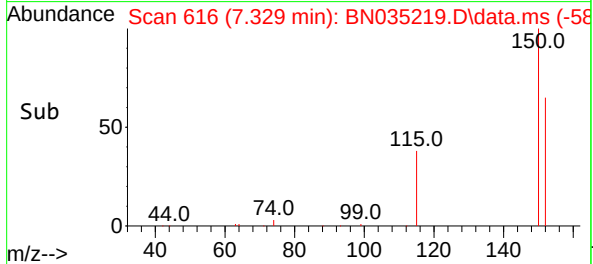
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:152 Resp: 355
Ion Ratio Lower Upper
152 100
150 149.5 124.5 186.7
115 62.8 47.8 71.6

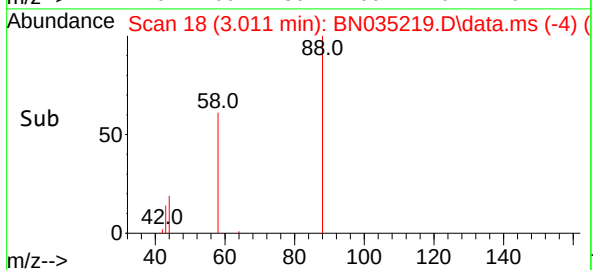
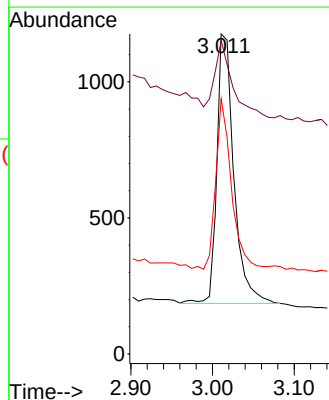
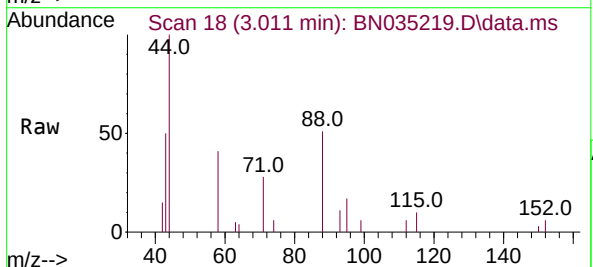
Manual Integrations
APPROVED

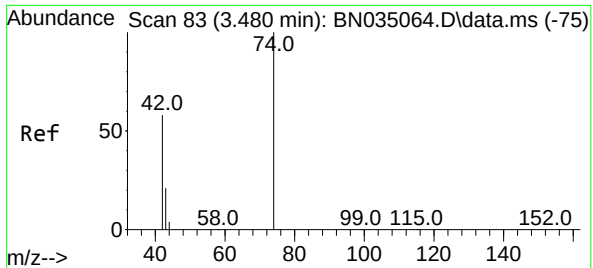
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#2
1,4-Dioxane
Concen: 0.443 ng
RT: 3.011 min Scan# 18
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

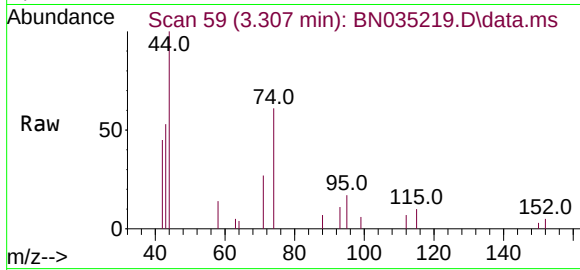
Tgt Ion: 88 Resp: 1431
Ion Ratio Lower Upper
88 100
43 30.7 16.9 25.3#
58 57.5 39.0 58.4





#3
n-Nitrosodimethylamine
Concen: 0.413 ng
RT: 3.307 min Scan# 50
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

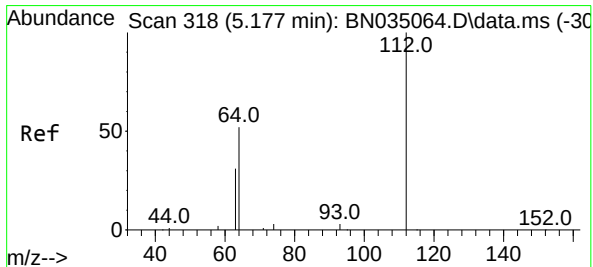
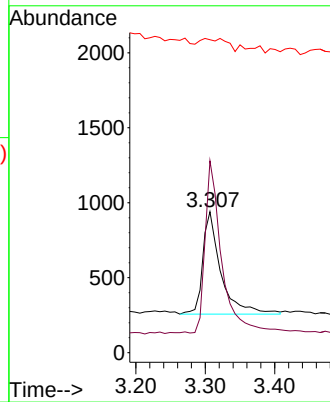
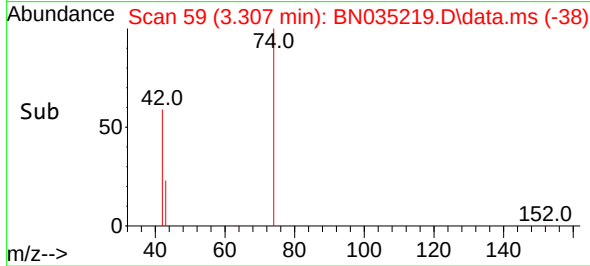
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion: 42 Resp: 124
Ion Ratio Lower Upper
42 100
74 153.3 120.8 181.2
44 18.3 2.9 4.3

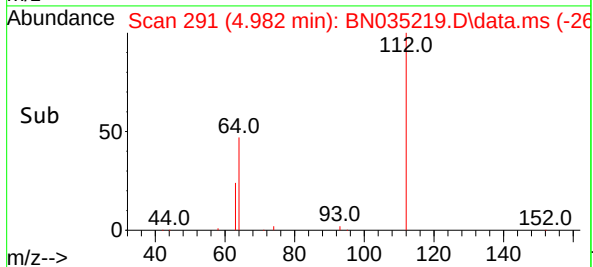
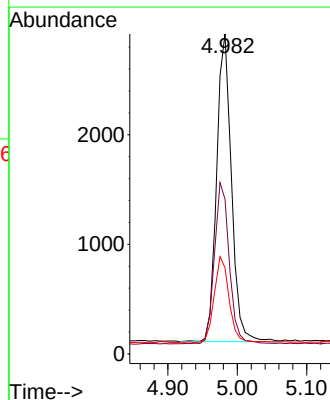
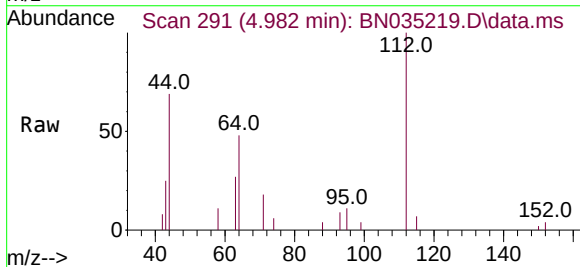
Manual Integrations
APPROVED

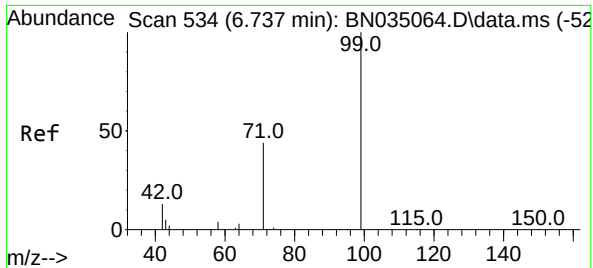
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#4
2-Fluorophenol
Concen: 0.462 ng
RT: 4.982 min Scan# 291
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

Tgt Ion:112 Resp: 4170
Ion Ratio Lower Upper
112 100
64 52.4 39.7 59.5
63 27.9 23.0 34.4





#5
Phenol-d6
Concen: 0.463 ng
RT: 6.528 min Scan# 505
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

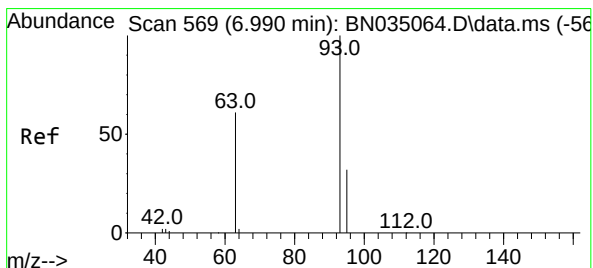
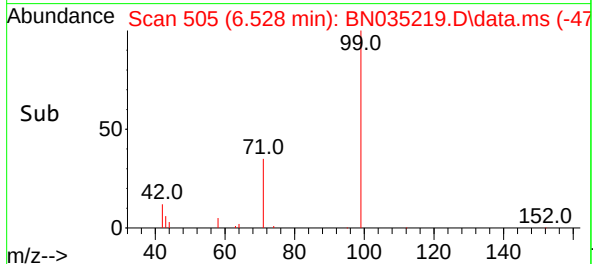
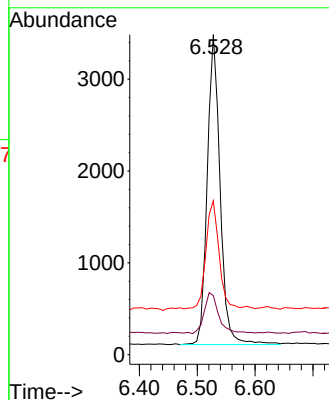
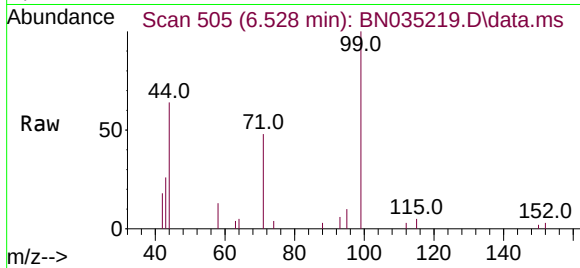
Tgt Ion	Ratio	Lower	Upper
99	100		
42	14.2	11.4	17.0
71	37.0	34.6	51.8

Manual Integrations

APPROVED

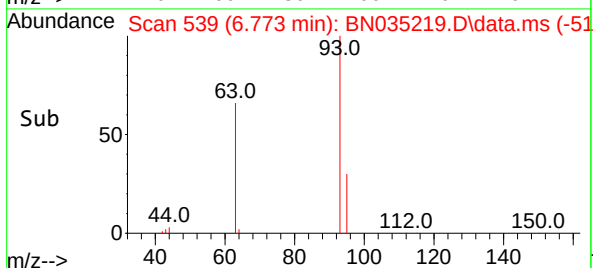
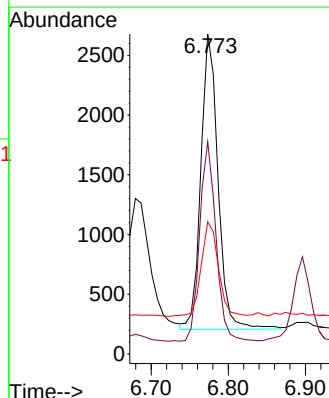
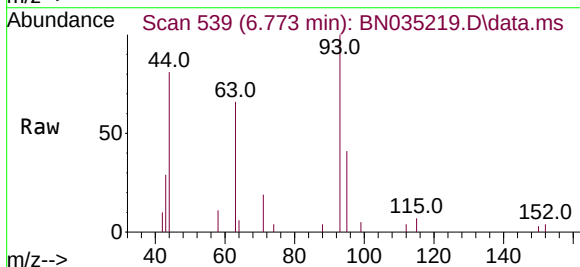
Reviewed By :Yogesh Patel 11/22/2024

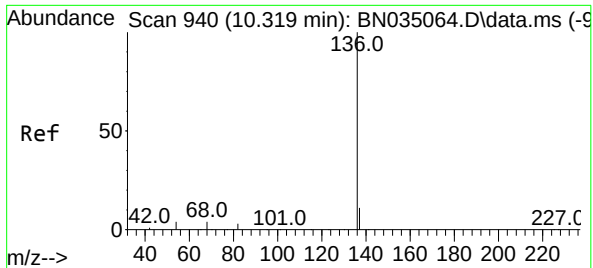
Supervised By :mohammad ahmed 11/22/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.450 ng
RT: 6.773 min Scan# 539
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

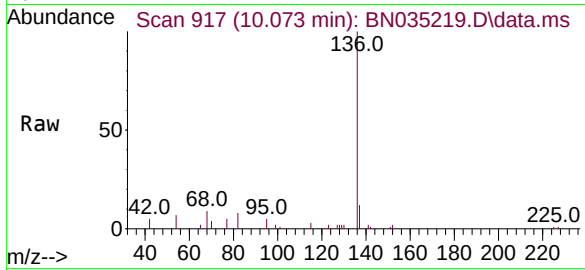
Tgt Ion	Ratio	Lower	Upper
93	100		
63	63.9	47.4	71.2
95	31.9	26.2	39.4





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.073 min Scan# 917
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

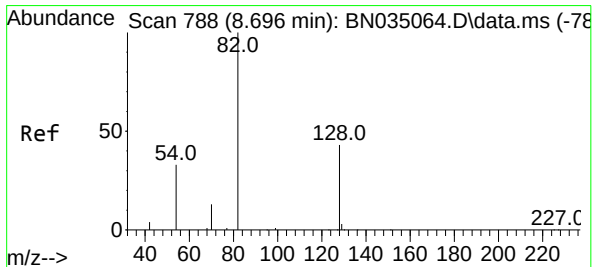
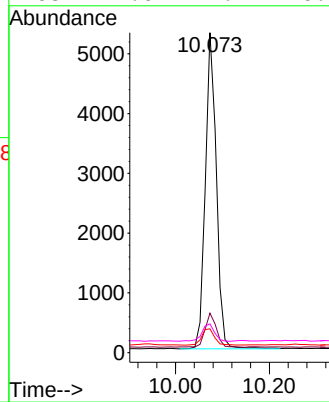
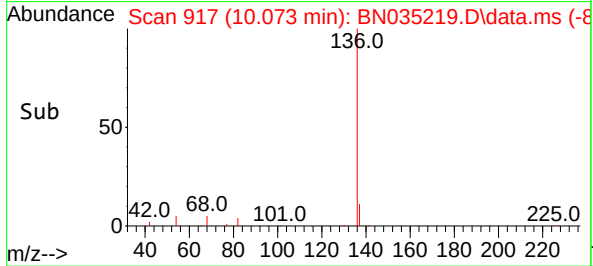
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion: 136 Resp: 8594
Ion Ratio Lower Upper
136 100
137 12.3 9.8 14.8
54 7.4 4.0 6.0
68 9.0 4.2 6.2

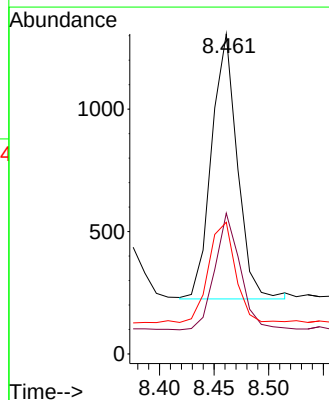
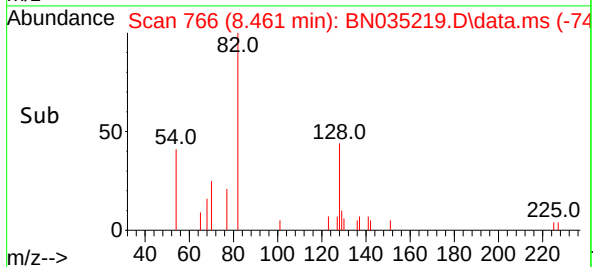
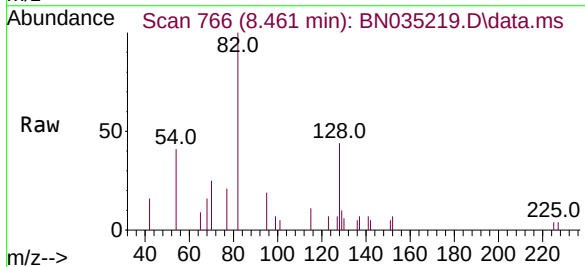
Manual Integrations
APPROVED

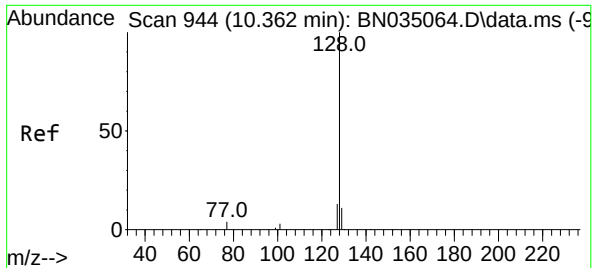
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#8
Nitrobenzene-d5
Concen: 0.238 ng m
RT: 8.461 min Scan# 766
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

Tgt Ion: 82 Resp: 1784
Ion Ratio Lower Upper
82 100
128 44.0 36.5 54.7
54 41.2 28.7 43.1





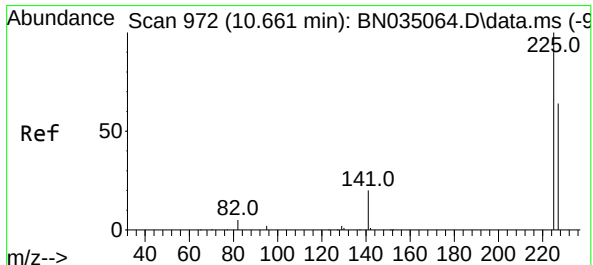
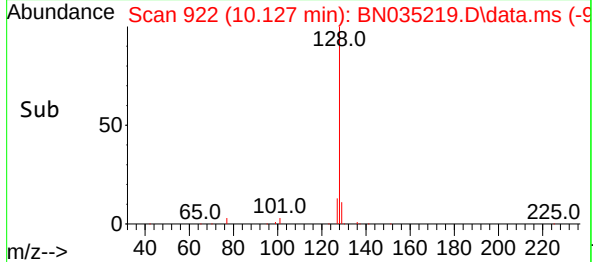
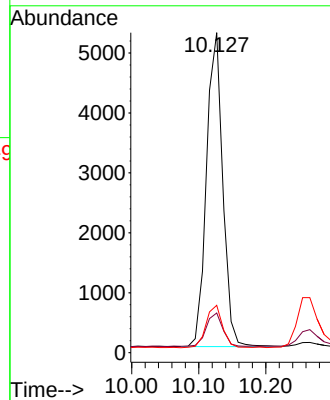
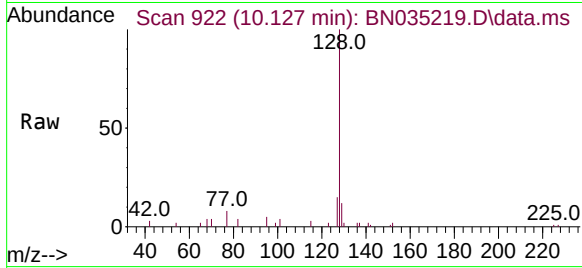
#9
Naphthalene
Concen: 0.393 ng
RT: 10.127 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 881
Ion Ratio Lower Upper
128 100
129 12.4 9.6 14.4
127 14.8 11.6 17.4

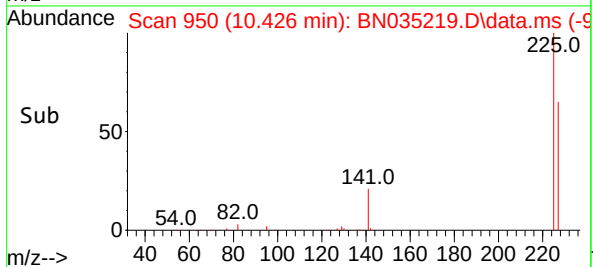
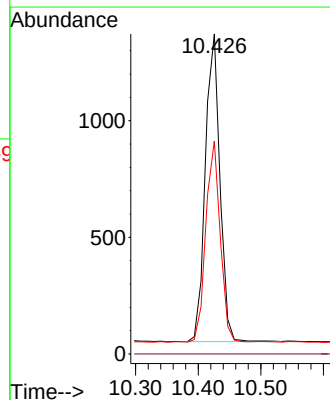
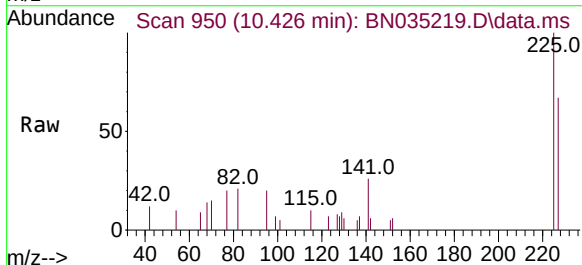
Manual Integrations
APPROVED

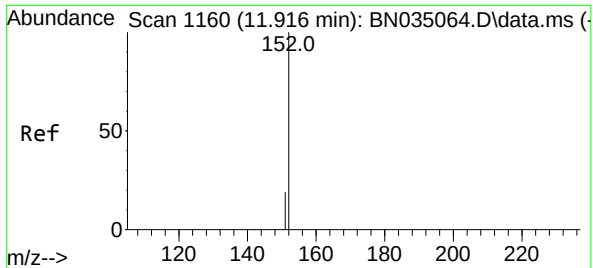
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#10
Hexachlorobutadiene
Concen: 0.324 ng
RT: 10.426 min Scan# 950
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

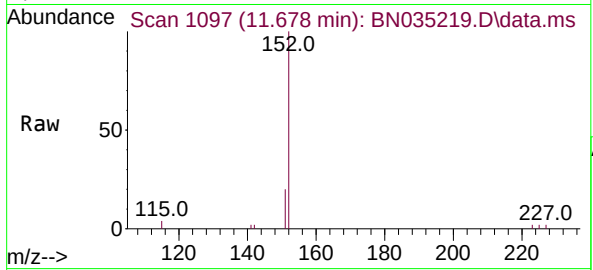
Tgt Ion:225 Resp: 2134
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.4 51.5 77.3





#11
2-Methylnaphthalene-d10
Concen: 0.339 ng
RT: 11.678 min Scan# 1107
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

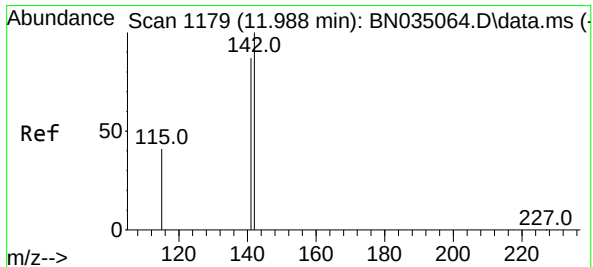
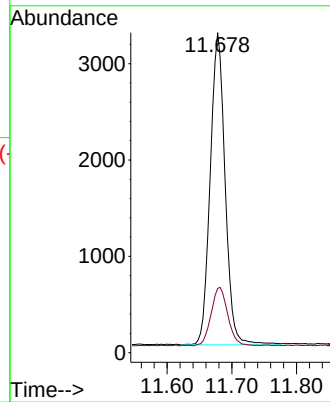
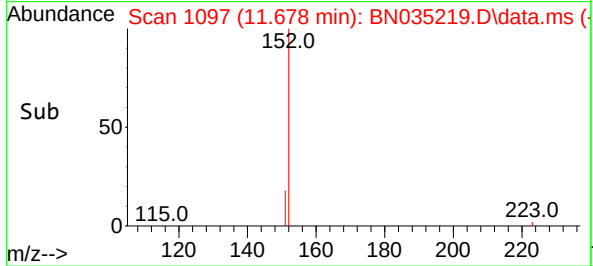
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



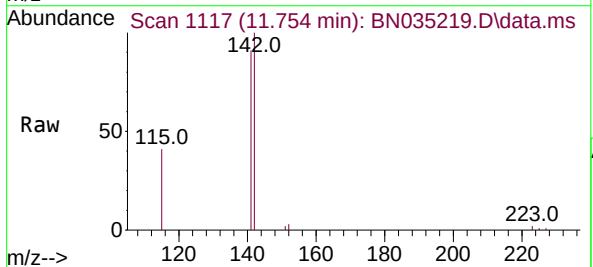
Tgt Ion:152 Resp: 518
Ion Ratio Lower Upper
152 100
151 21.0 16.2 24.4

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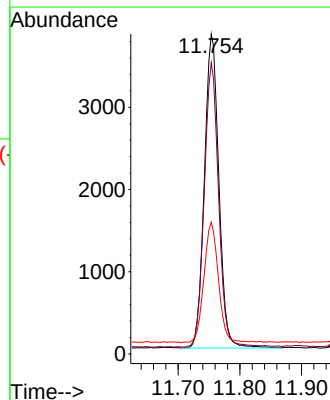
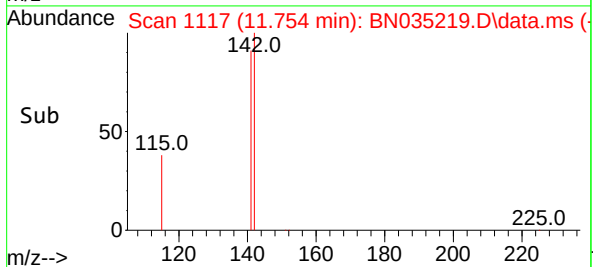
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024

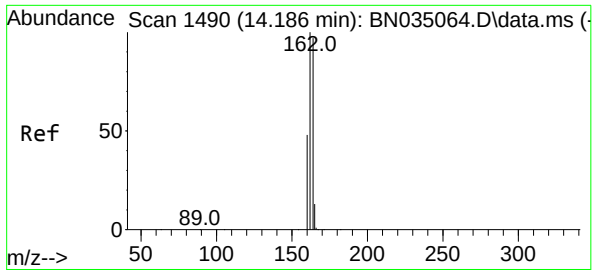


#12
2-Methylnaphthalene
Concen: 0.377 ng
RT: 11.754 min Scan# 1117
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22



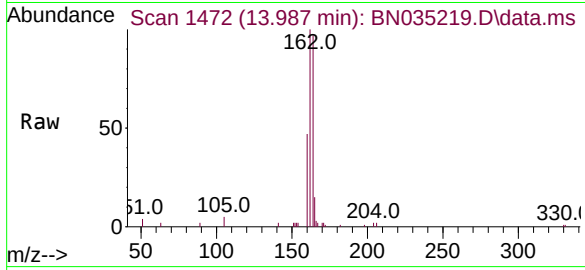
Tgt Ion:142 Resp: 6233
Ion Ratio Lower Upper
142 100
141 91.0 70.1 105.1
115 41.2 34.4 51.6





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.987 min Scan# 1490
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

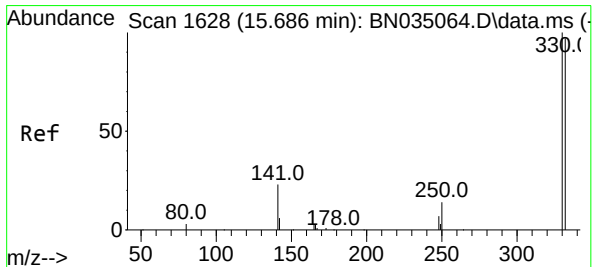
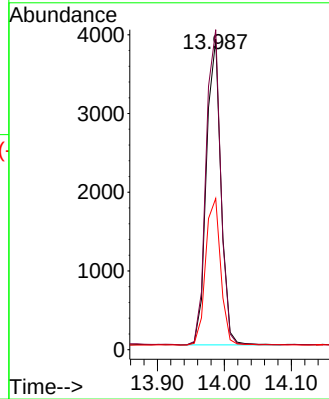
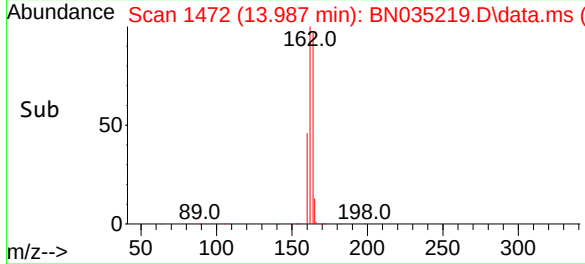
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



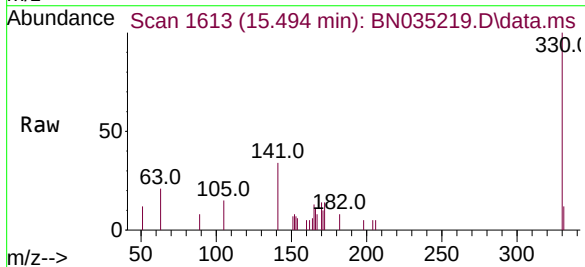
Tgt Ion:164 Resp: 5839
Ion Ratio Lower Upper
164 100
162 103.1 82.2 123.2
160 48.7 40.2 60.4

Manual Integrations
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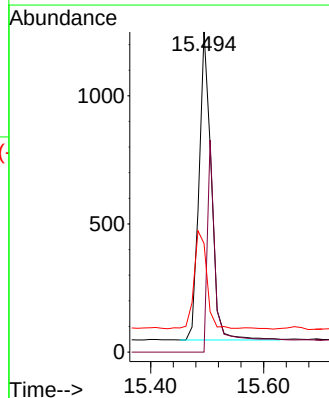
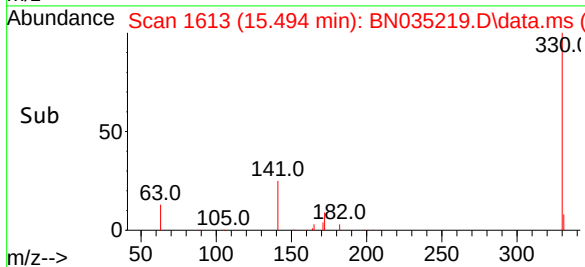
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024

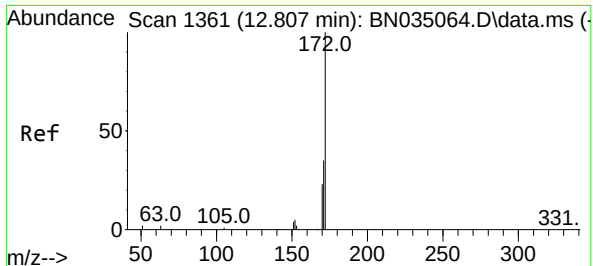


#14
2,4,6-Tribromophenol
Concen: 0.458 ng
RT: 15.494 min Scan# 1613
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22



Tgt Ion:330 Resp: 1931
Ion Ratio Lower Upper
330 100
332 57.9 76.9 115.3#
141 0.0 29.6 44.4#





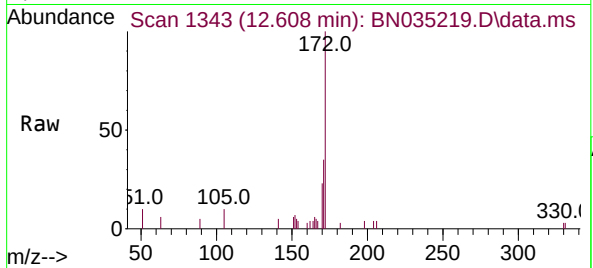
#15
2-Fluorobiphenyl
Concen: 0.074 ng
RT: 12.608 min Scan# 1445
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



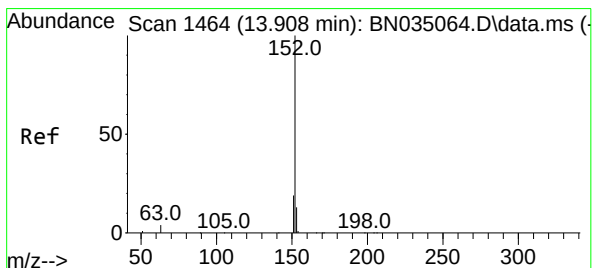
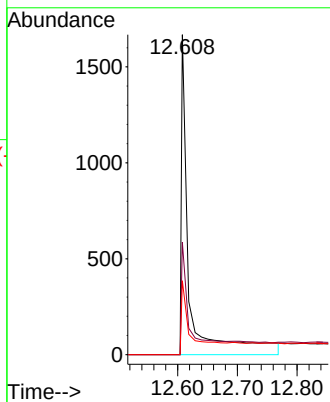
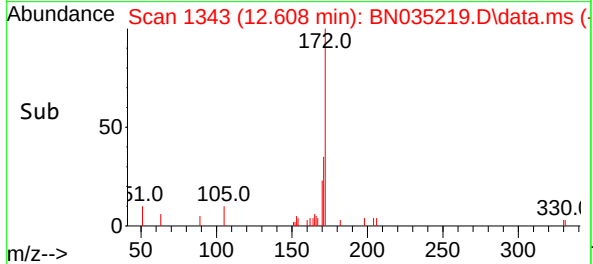
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.1	28.2	42.4
170	23.1	19.0	28.6

Manual Integrations

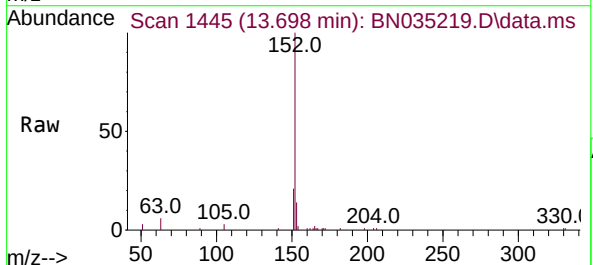
APPROVED

Reviewed By :Yogesh Patel 11/22/2024

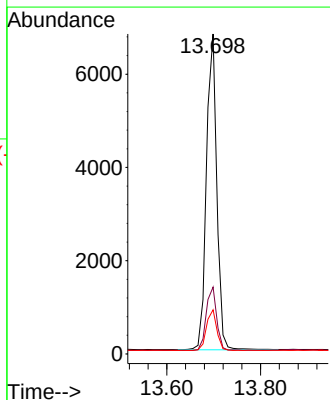
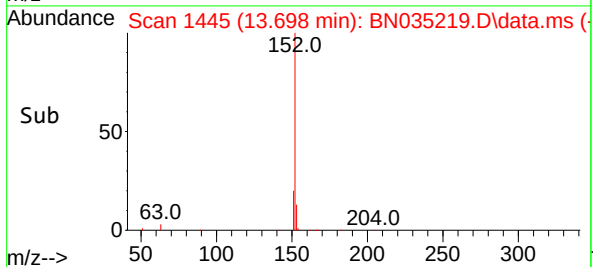
Supervised By :mohammad ahmed 11/22/2024

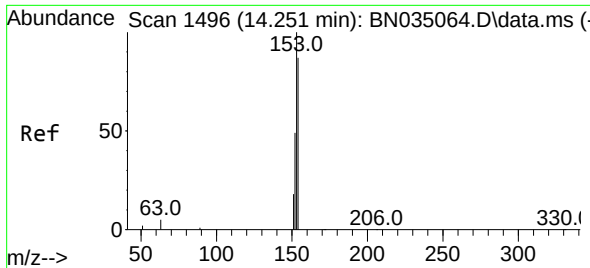


#16
Acenaphthylene
Concen: 0.417 ng
RT: 13.698 min Scan# 1445
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22



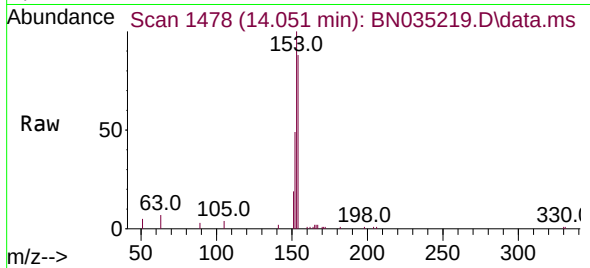
Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.4	15.8	23.8
153	12.8	10.2	15.4





#17
Acenaphthene
Concen: 0.393 ng
RT: 14.051 min Scan# 1496
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

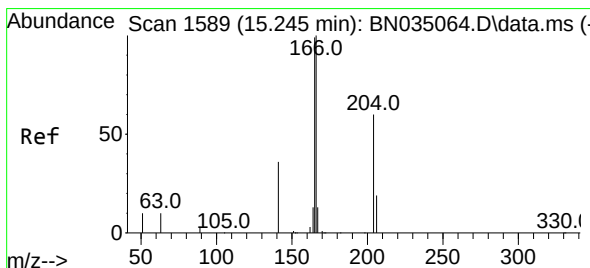
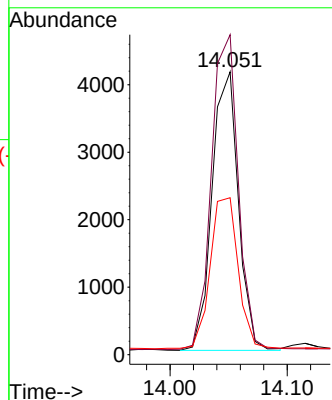
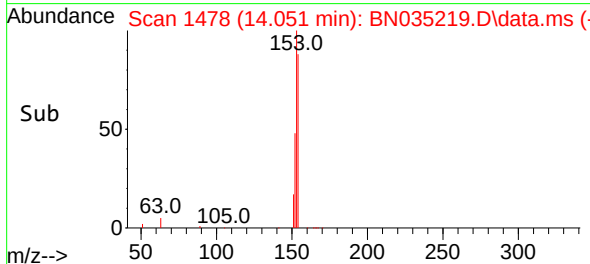
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:154 Resp: 6430
Ion Ratio Lower Upper
154 100
153 115.4 91.6 137.4
152 58.0 45.8 68.6

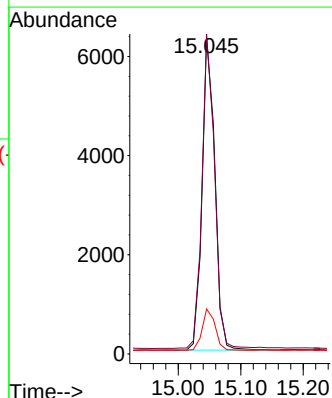
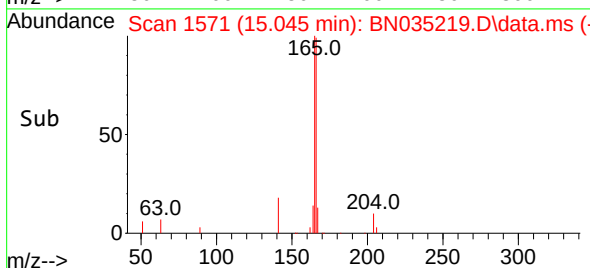
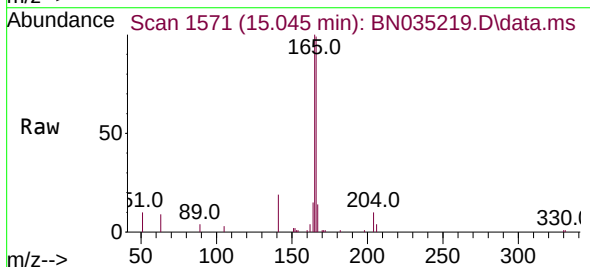
Manual Integrations
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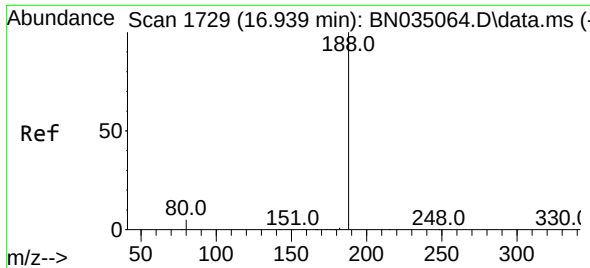
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#18
Fluorene
Concen: 0.373 ng
RT: 15.045 min Scan# 1571
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

Tgt Ion:166 Resp: 8973
Ion Ratio Lower Upper
166 100
165 99.7 79.1 118.7
167 13.4 10.6 16.0





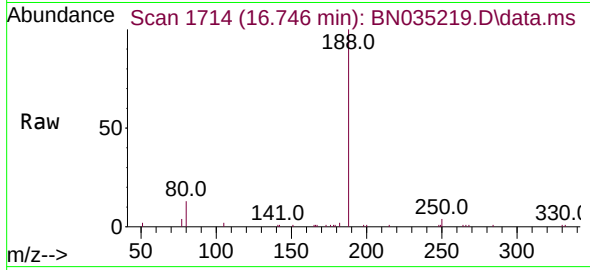
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.746 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



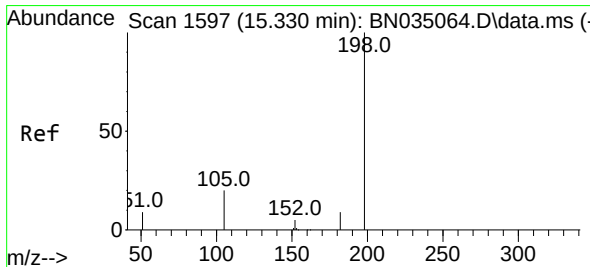
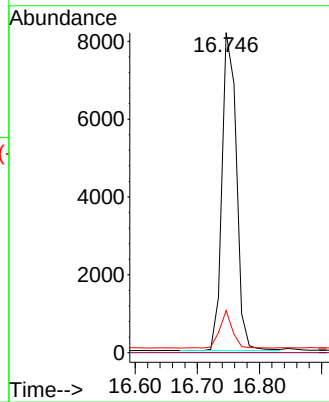
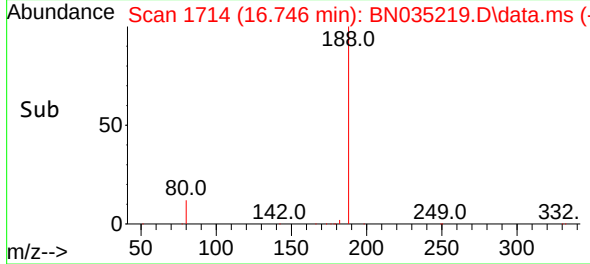
Tgt Ion:188 Resp: 1313
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 13.2 4.3 6.5

Manual Integrations

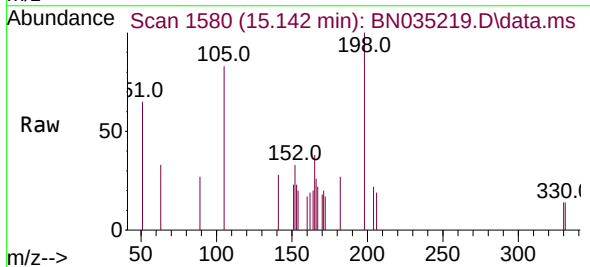
APPROVED

Reviewed By :Yogesh Patel 11/22/2024

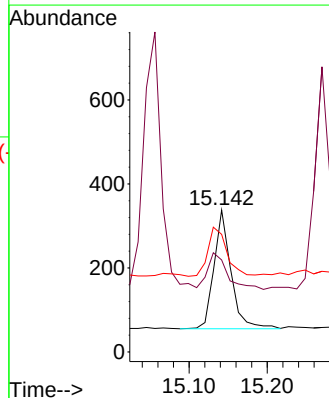
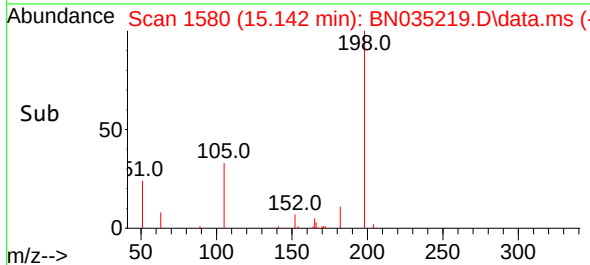
Supervised By :mohammad ahmed 11/22/2024

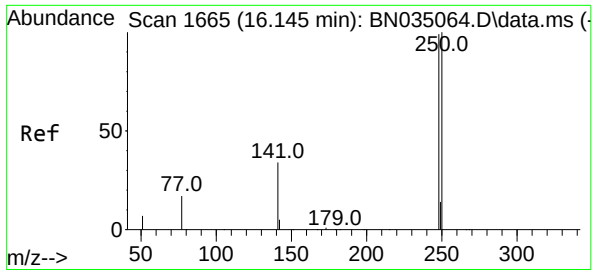


#20
4,6-Dinitro-2-methylphenol
Concen: 0.156 ng
RT: 15.142 min Scan# 1580
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22



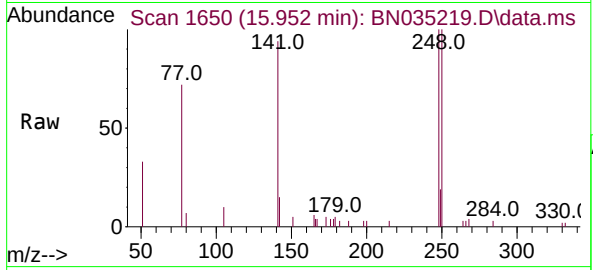
Tgt Ion:198 Resp: 427
Ion Ratio Lower Upper
198 100
51 64.8 29.9 44.9#
105 82.8 23.7 35.5#





#21
4-Bromophenyl-phenylether
Concen: 0.381 ng
RT: 15.952 min Scan# 1650
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

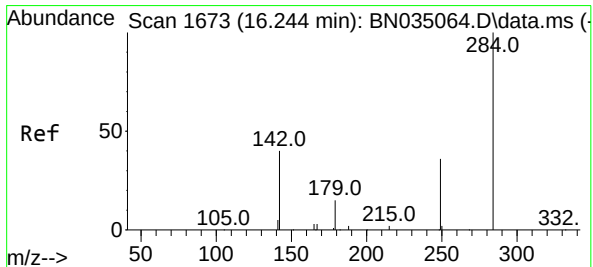
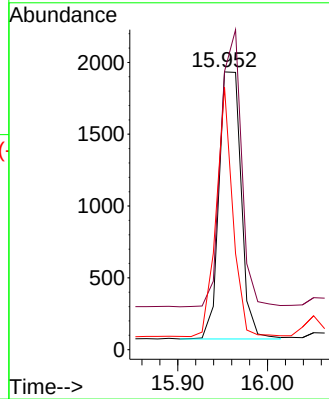
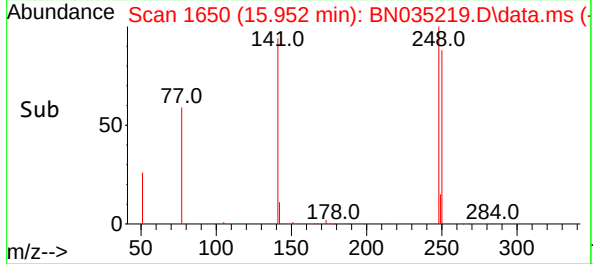
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:248 Resp: 3185
Ion Ratio Lower Upper
248 100
250 100.2 81.2 121.8
141 94.6 29.1 43.7

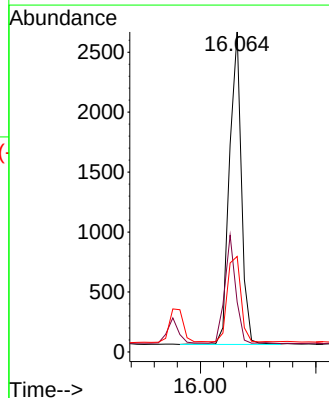
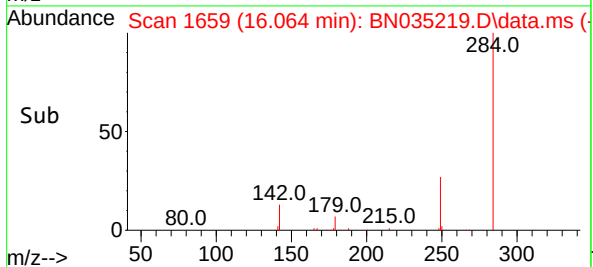
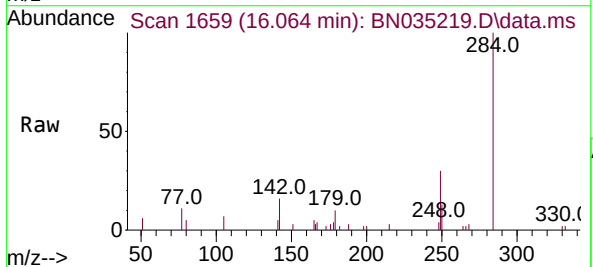
Manual Integrations
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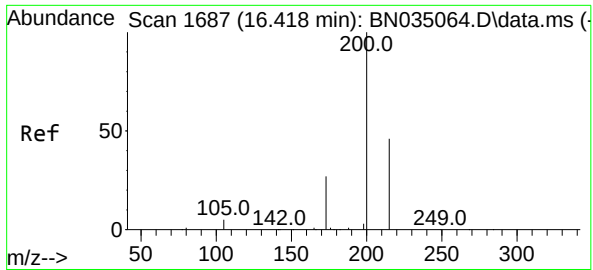
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#22
Hexachlorobenzene
Concen: 0.432 ng
RT: 16.064 min Scan# 1659
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

Tgt Ion:284 Resp: 3749
Ion Ratio Lower Upper
284 100
142 32.4 28.2 42.4
249 31.3 26.2 39.2





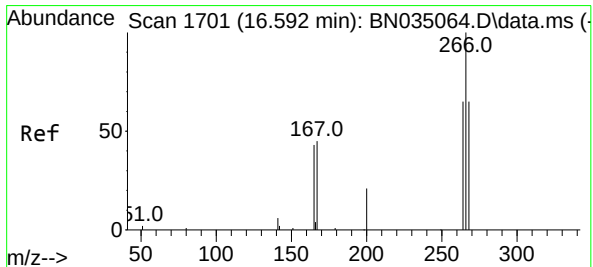
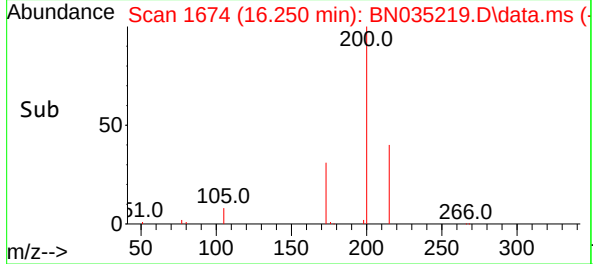
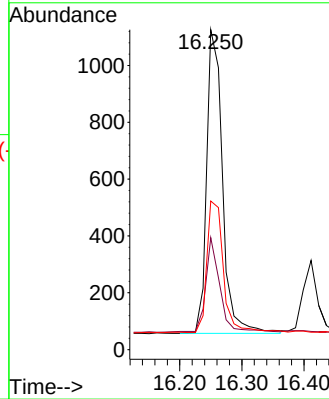
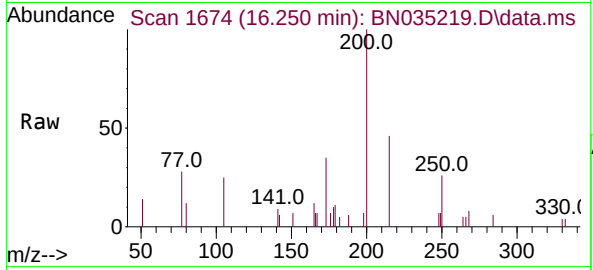
#23
Atrazine
Concen: 0.253 ng
RT: 16.250 min Scan# 1687
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:200 Resp: 190
Ion Ratio Lower Upper
200 100
173 35.0 22.6 33.8
215 46.4 37.8 56.6

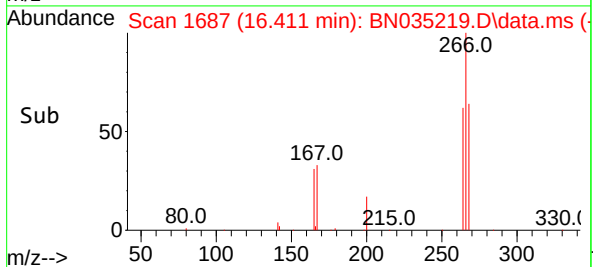
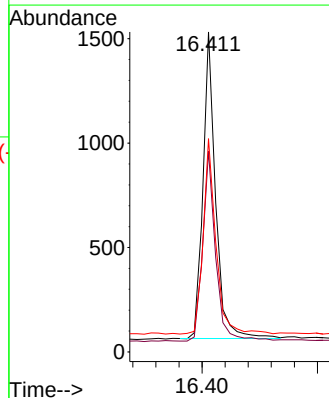
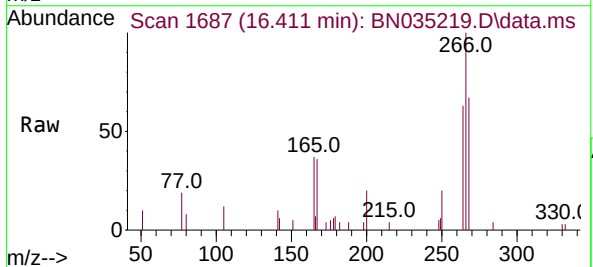
Manual Integrations
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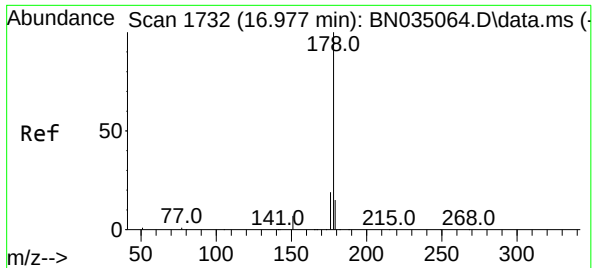
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#24
Pentachlorophenol
Concen: 0.551 ng
RT: 16.411 min Scan# 1687
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

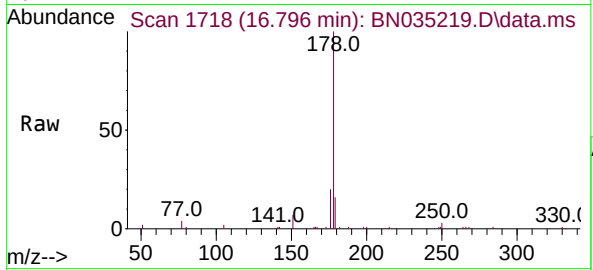
Tgt Ion:266 Resp: 2236
Ion Ratio Lower Upper
266 100
264 63.4 49.4 74.0
268 64.6 52.6 79.0





#25
Phenanthrene
Concen: 0.405 ng
RT: 16.796 min Scan# 1725
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

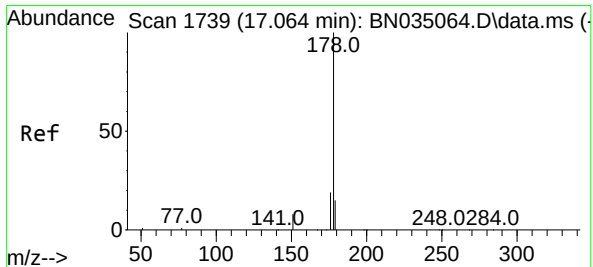
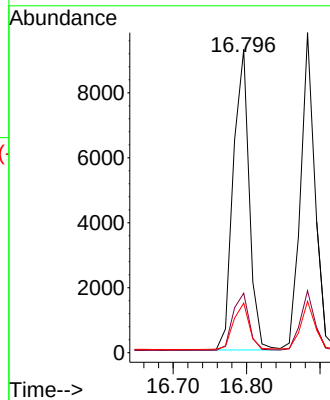
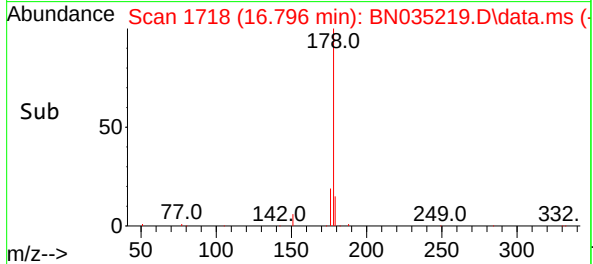
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:178 Resp: 13995
Ion Ratio Lower Upper
178 100
176 19.4 15.2 22.8
179 15.5 12.6 18.8

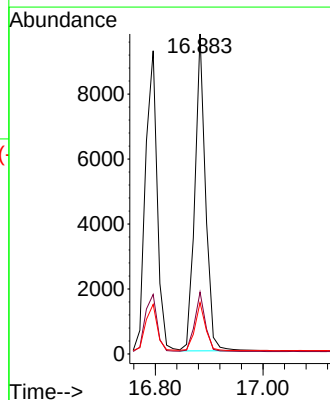
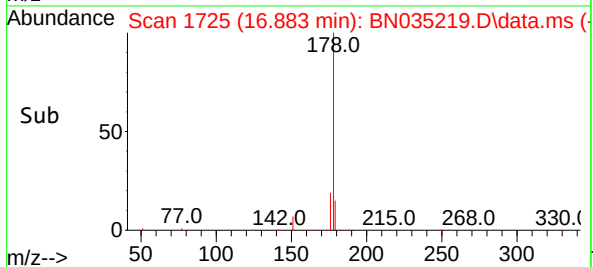
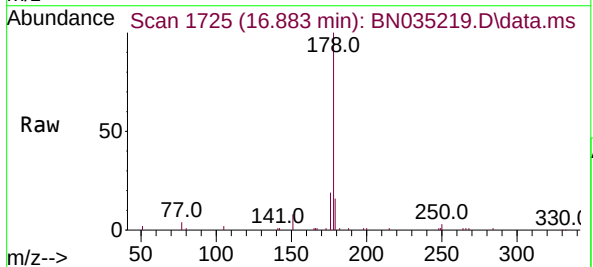
Manual Integrations
APPROVED

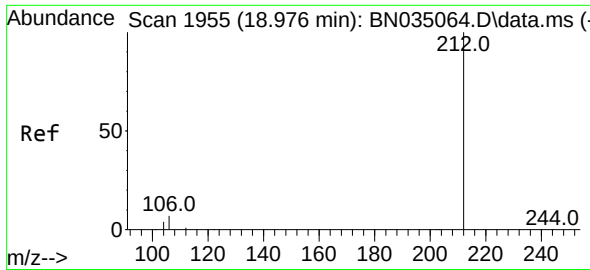
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#26
Anthracene
Concen: 0.425 ng
RT: 16.883 min Scan# 1725
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

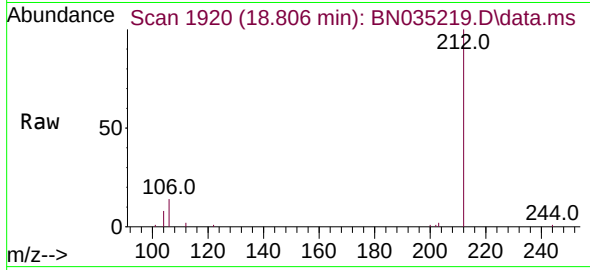
Tgt Ion:178 Resp: 13479
Ion Ratio Lower Upper
178 100
176 18.8 14.6 22.0
179 15.2 12.2 18.2





#27
Fluoranthene-d10
Concen: 0.312 ng
RT: 18.806 min Scan# 1920
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

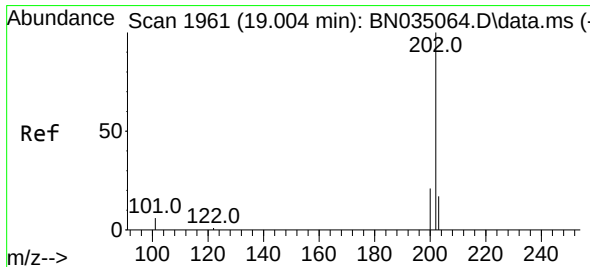
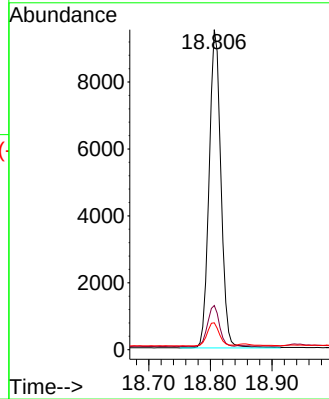
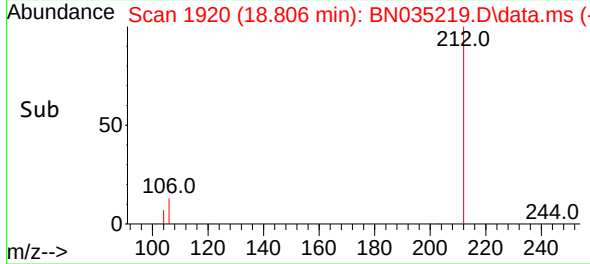
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:212 Resp: 1255
Ion Ratio Lower Upper
212 100
106 13.0 6.0 9.0
104 7.5 3.5 5.3

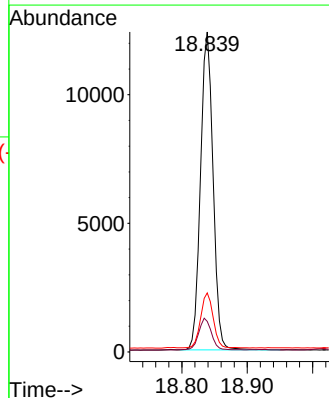
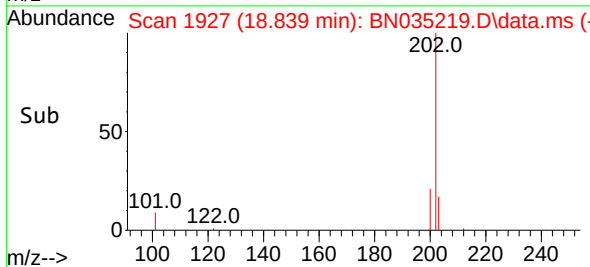
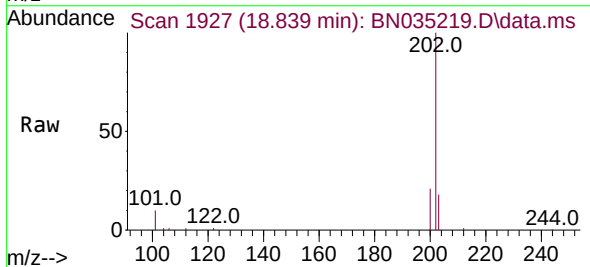
Manual Integrations
APPROVED

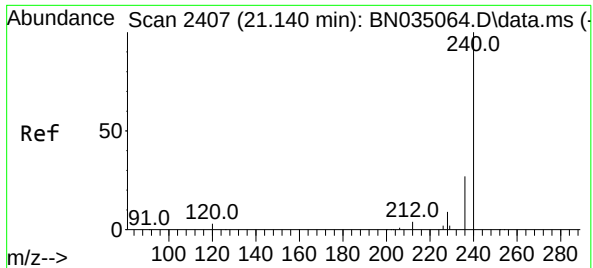
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#28
Fluoranthene
Concen: 0.345 ng
RT: 18.839 min Scan# 1927
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

Tgt Ion:202 Resp: 16410
Ion Ratio Lower Upper
202 100
101 10.1 5.2 7.8
203 17.3 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.008 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN035219.D

Acq: 21 Nov 2024 13:22

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion:240 Resp: 2179

Ion Ratio Lower Upper

240 100

120 11.7 3.8 5.6

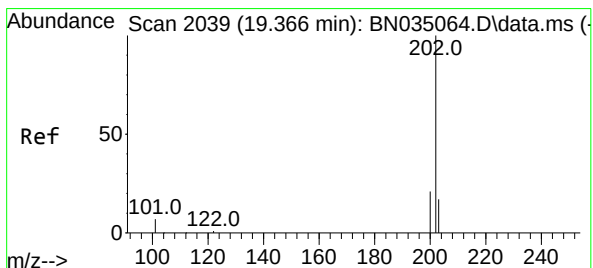
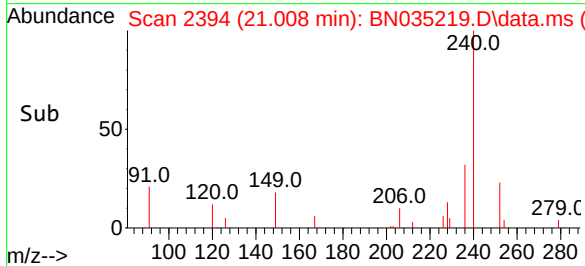
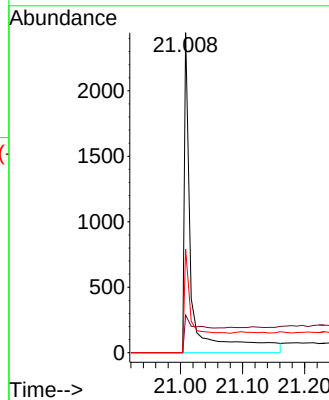
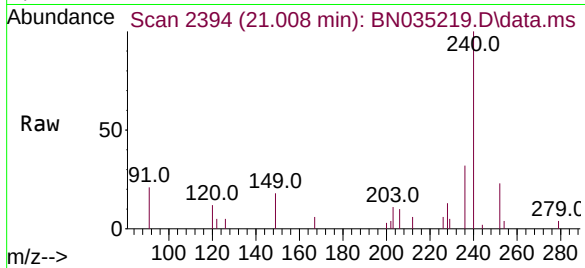
236 32.4 22.2 33.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/22/2024

Supervised By :mohammad ahmed 11/22/2024



#30

Pyrene

Concen: 2.306 ng

RT: 19.206 min Scan# 2006

Delta R.T. 0.000 min

Lab File: BN035219.D

Acq: 21 Nov 2024 13:22

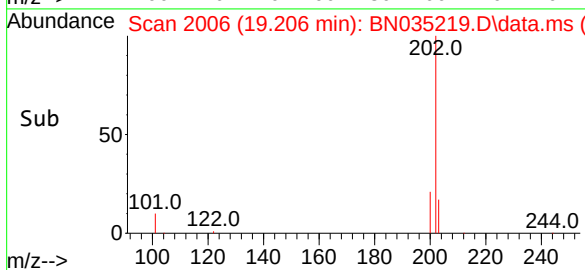
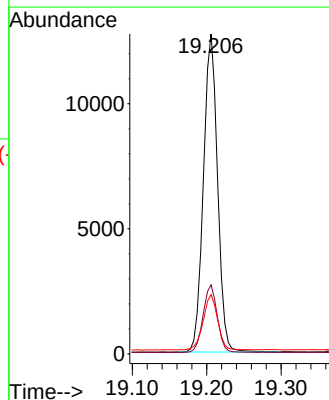
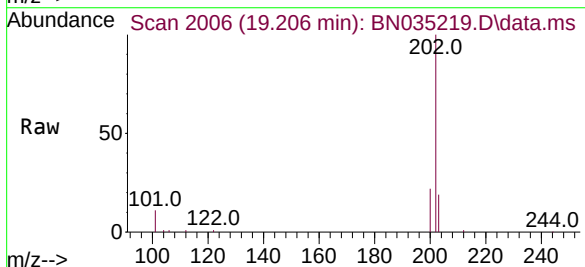
Tgt Ion:202 Resp: 16732

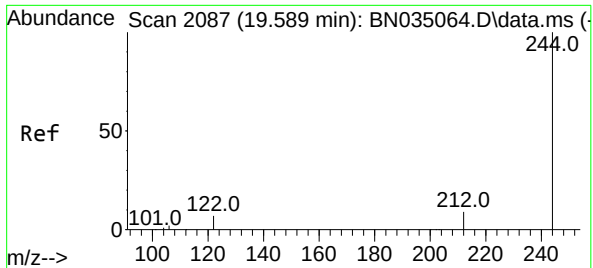
Ion Ratio Lower Upper

202 100

200 21.3 16.7 25.1

203 17.8 14.2 21.4





#31
Terphenyl-d14
Concen: 1.730 ng
RT: 19.438 min Scan# 2087
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

Instrument :

BNA_N

ClientSampleId :

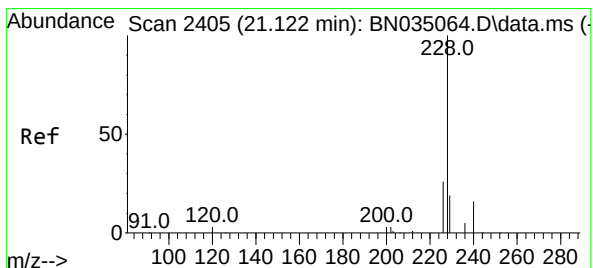
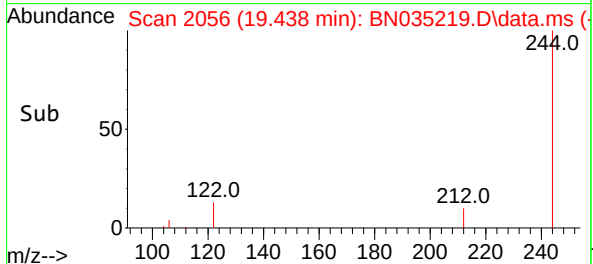
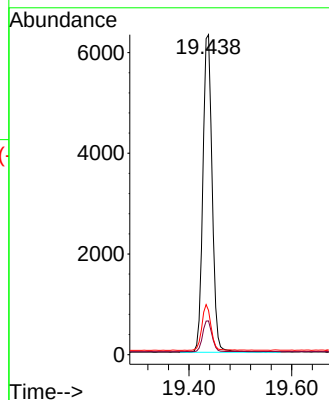
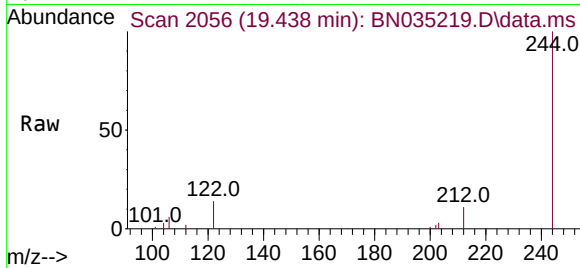
SSTDCCC0.4

Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.5	7.6	11.4
122	13.8	6.1	9.1

Manual Integrations

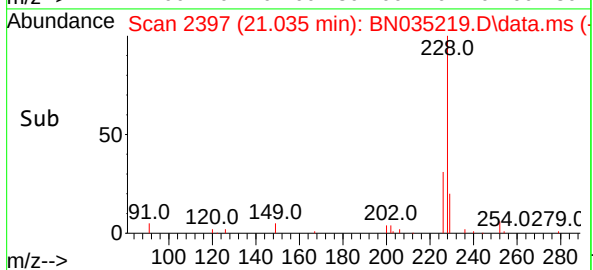
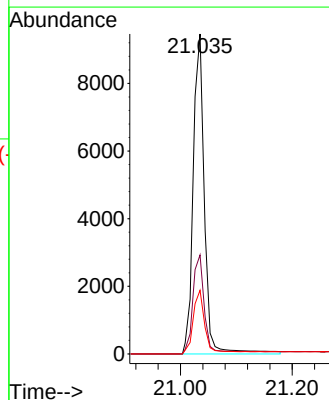
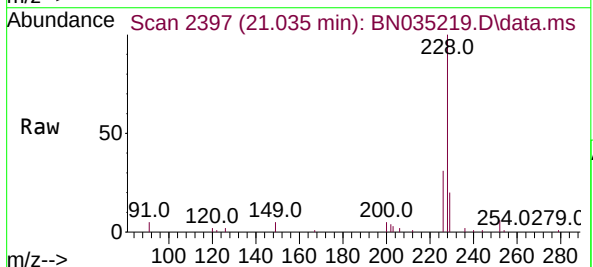
APPROVED

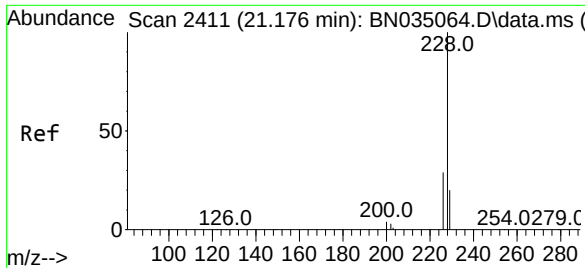
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#32
Benzo(a)anthracene
Concen: 1.669 ng
RT: 21.035 min Scan# 2397
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.9	21.4	32.0
229	19.9	15.7	23.5





#33

Chrysene

Concen: 1.685 ng

RT: 21.035 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN035219.D

Acq: 21 Nov 2024 13:22

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion:228 Resp: 1266

Ion Ratio Lower Upper

228 100

226 30.9 23.7 35.5

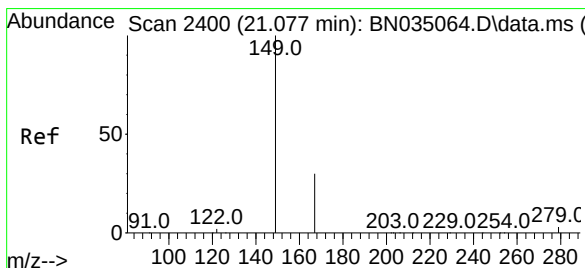
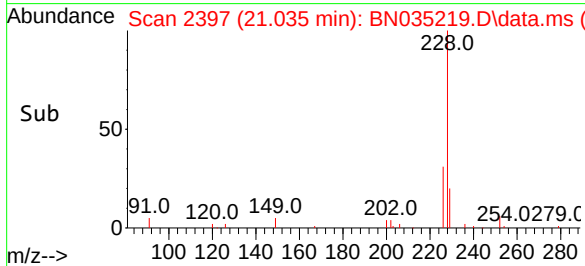
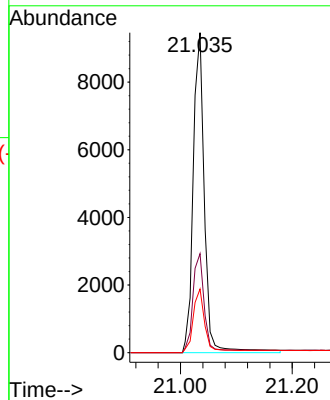
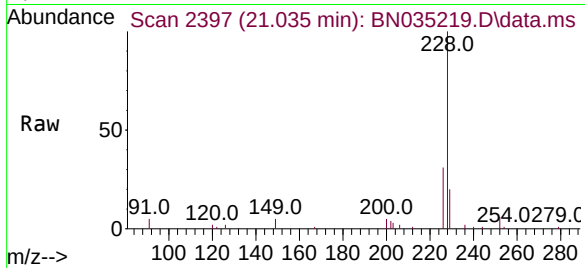
229 19.9 16.2 24.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/22/2024

Supervised By :mohammad ahmed 11/22/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.302 ng

RT: 21.026 min Scan# 2396

Delta R.T. 0.000 min

Lab File: BN035219.D

Acq: 21 Nov 2024 13:22

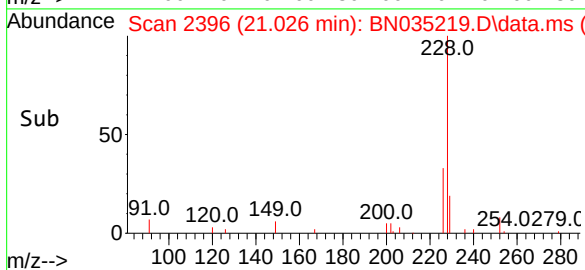
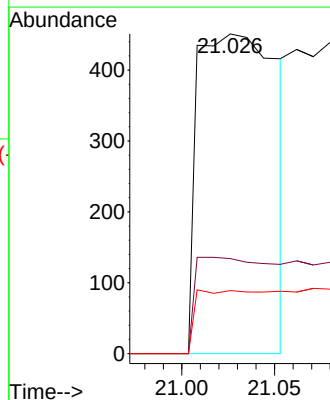
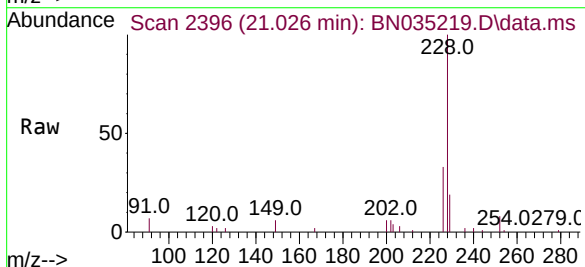
Tgt Ion:149 Resp: 1204

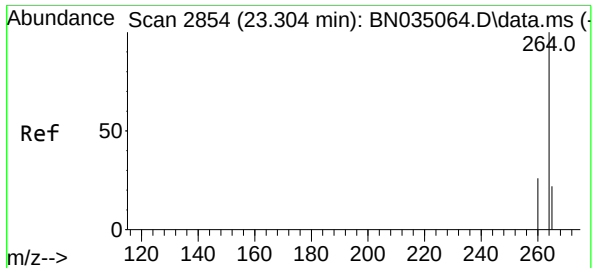
Ion Ratio Lower Upper

149 100

167 30.3 23.2 34.8

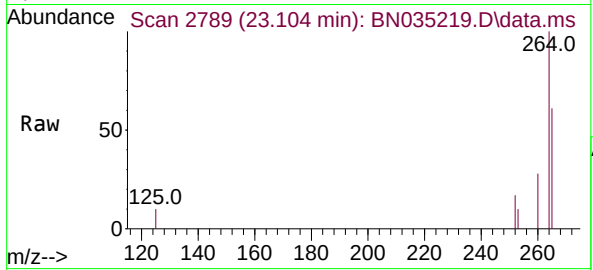
279 16.4 3.2 4.8#





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.104 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

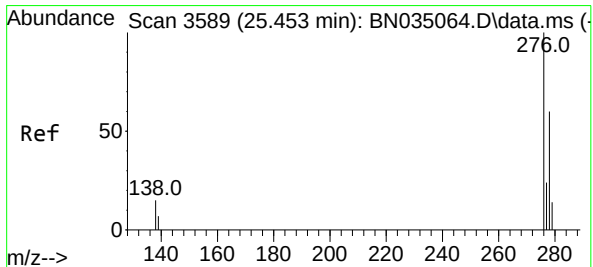
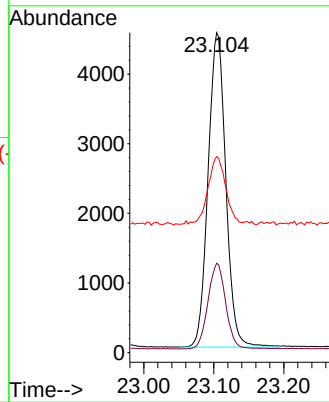
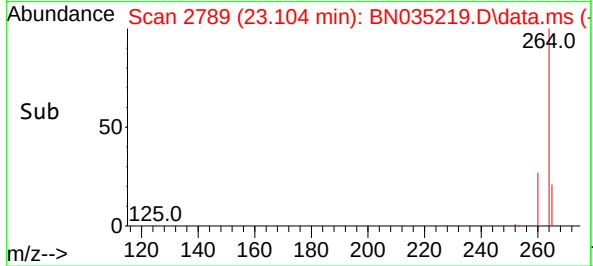
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:264 Resp: 7930
Ion Ratio Lower Upper
264 100
260 27.9 20.9 31.3
265 61.2 35.4 53.2

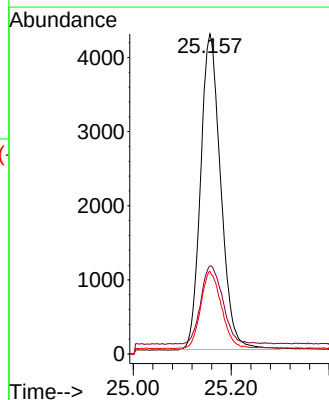
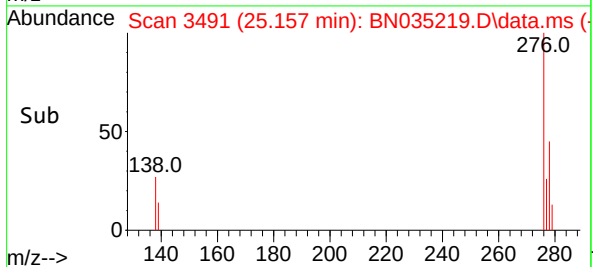
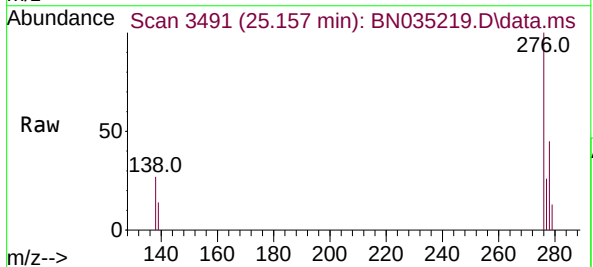
Manual Integrations
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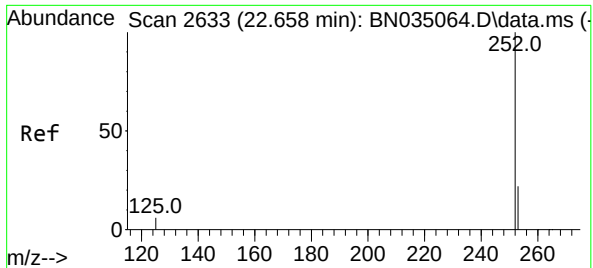
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.384 ng
RT: 25.157 min Scan# 3491
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

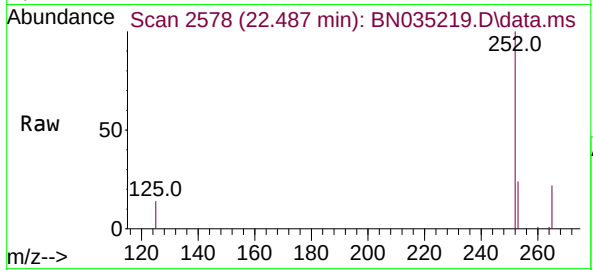
Tgt Ion:276 Resp: 12159
Ion Ratio Lower Upper
276 100
138 25.9 13.0 19.4#
277 24.1 19.8 29.6





#37
Benzo(b)fluoranthene
Concen: 0.429 ng
RT: 22.487 min Scan# 2578
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

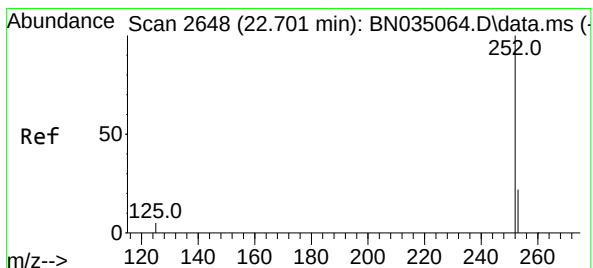
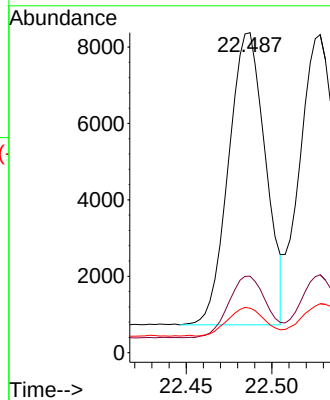
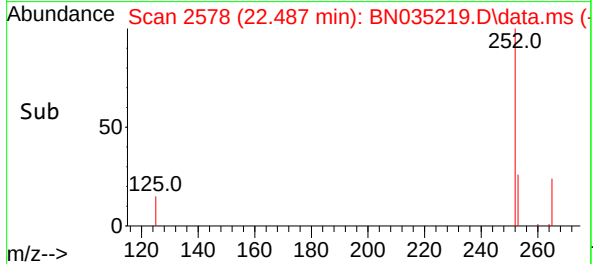
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:252 Resp: 1145
Ion Ratio Lower Upper
252 100
253 23.9 19.3 28.9
125 13.9 6.2 9.2

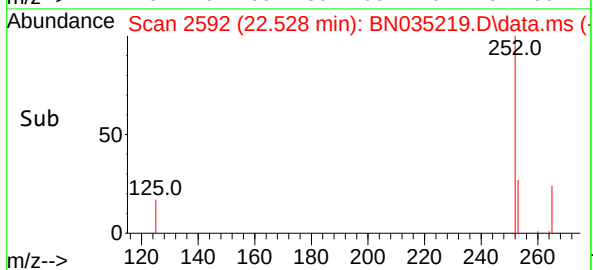
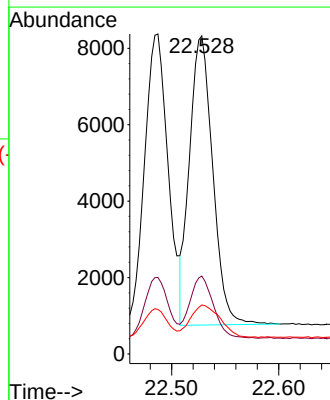
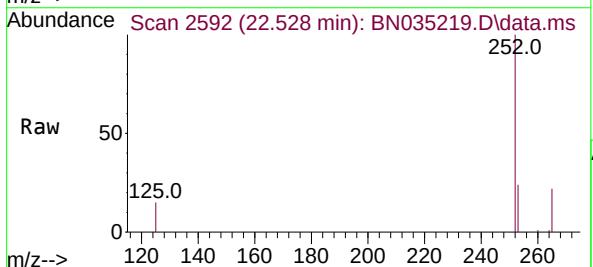
Manual Integrations
APPROVED

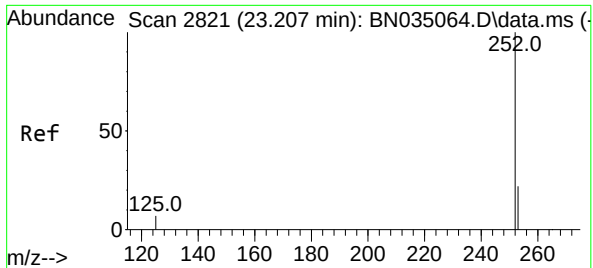
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#38
Benzo(k)fluoranthene
Concen: 0.428 ng
RT: 22.528 min Scan# 2592
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

Tgt Ion:252 Resp: 11422
Ion Ratio Lower Upper
252 100
253 24.5 19.5 29.3
125 15.4 6.5 9.7#





#39

Benzo(a)pyrene

Concen: 0.420 ng

RT: 23.014 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN035219.D

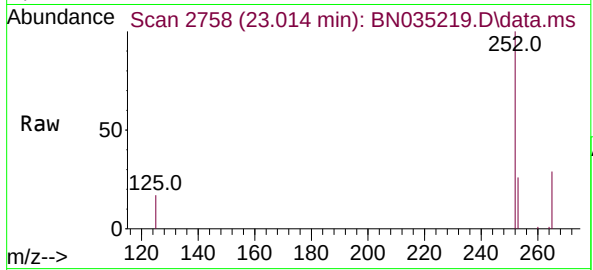
Acq: 21 Nov 2024 13:22

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



Tgt Ion:252 Resp: 986

Ion Ratio Lower Upper

252 100

253 25.6 20.1 30.1

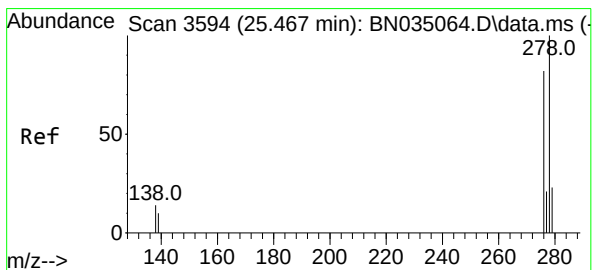
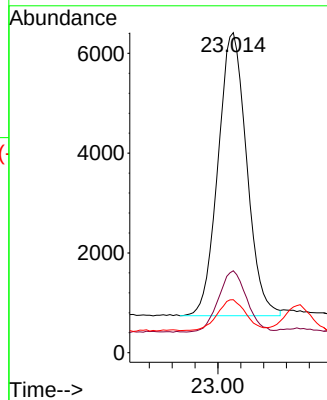
125 16.6 7.5 11.3

Manual Integrations

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Reviewed By :Yogesh Patel 11/22/2024

Supervised By :mohammad ahmed 11/22/2024



#40

Dibenzo(a,h)anthracene

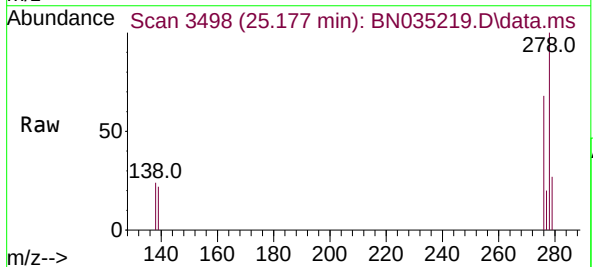
Concen: 0.372 ng

RT: 25.177 min Scan# 3498

Delta R.T. 0.000 min

Lab File: BN035219.D

Acq: 21 Nov 2024 13:22



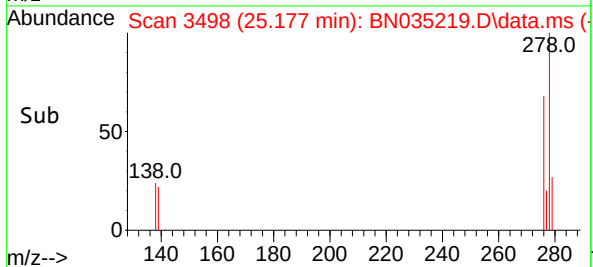
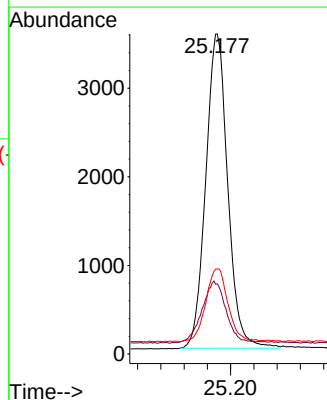
Tgt Ion:278 Resp: 9332

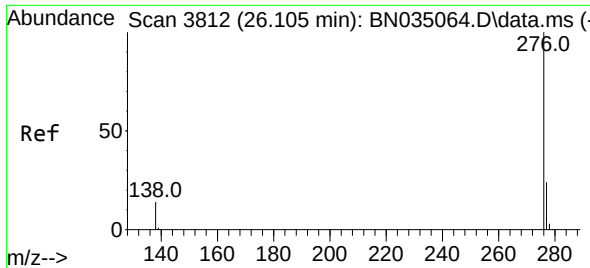
Ion Ratio Lower Upper

278 100

139 21.9 9.3 13.9#

279 26.5 19.7 29.5





#41

Benzo(g,h,i)perylene

Concen: 0.377 ng

RT: 25.776 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN035219.D

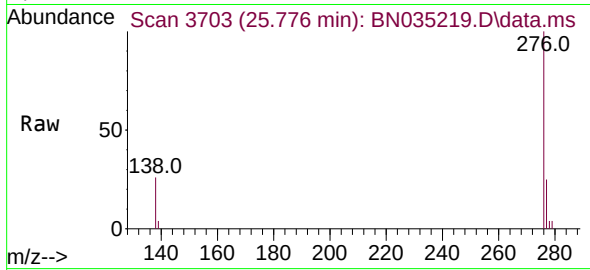
Acq: 21 Nov 2024 13:22

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



Tgt Ion:276 Resp: 1004

Ion Ratio Lower Upper

276 100

277 25.4 19.9 29.9

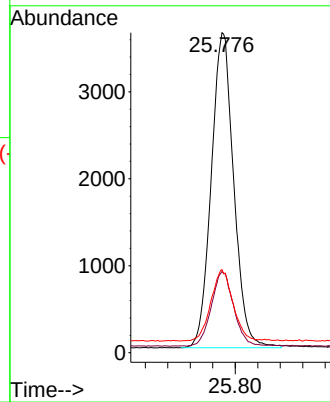
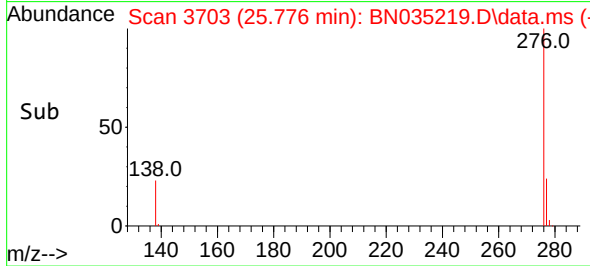
138 26.0 11.6 17.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/22/2024

Supervised By :mohammad ahmed 11/22/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112124\
 Data File : BN035219.D
 Acq On : 21 Nov 2024 13:22
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Nov 21 14:33:33 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 21 14:00:03 2024
 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	127	0.00
2	1,4-Dioxane	0.363	0.403	-11.0	152#	0.00
3	n-Nitrosodimethylamine	0.339	0.350	-3.2	136	0.00
4 S	2-Fluorophenol	1.015	1.174	-15.7	157#	0.00
5 S	Phenol-d6	1.273	1.472	-15.6	161#	0.00
6	bis(2-Chloroethyl)ether	0.956	1.074	-12.3	152#	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	125	0.00
8 S	Nitrobenzene-d5	0.348	0.208	40.2#	81	0.00
9	Naphthalene	1.044	1.025	1.8	131	0.00
10	Hexachlorobutadiene	0.306	0.248	19.0	106	0.00
11 SURR	2-Methylnaphthalene-d10	0.713	0.604	15.3	114	0.00
12	2-Methylnaphthalene	0.770	0.725	5.8	128	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	108	0.00
14 S	2,4,6-Tribromophenol	0.289	0.331	-14.5	149	0.00
15 S	2-Fluorobiphenyl	1.624	0.299	81.6#	22#	0.00
16	Acenaphthylene	1.709	1.782	-4.3	129	0.00
17	Acenaphthene	1.120	1.101	1.7	119	0.00
18	Fluorene	1.648	1.537	6.7	114	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	97	0.00
20	4,6-Dinitro-2-methylphenol	0.083	0.033	60.2#	44#	0.00
21	4-Bromophenyl-phenylether	0.255	0.243	4.7	96	0.00
22	Hexachlorobenzene	0.264	0.285	-8.0	110	0.00
23	Atrazine	0.229	0.145	36.7#	65	0.00
24	Pentachlorophenol	0.124	0.170	-37.1#	159#	0.00
25	Phenanthrene	1.053	1.066	-1.2	103	0.00
26	Anthracene	0.967	1.026	-6.1	109	0.00
27 SURR	Fluoranthene-d10	1.225	0.956	22.0	80	0.00
28	Fluoranthene	1.448	1.250	13.7	88	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	15#	0.00
30	Pyrene	1.332	7.679	-476.5#	87	0.00
31 S	Terphenyl-d14	0.839	3.629	-332.5#	65	0.00
32	Benzo(a)anthracene	1.393	5.813	-317.3#	64	0.00
33	Chrysene	1.380	5.813	-321.2#	64	0.00
34	Bis(2-ethylhexyl)phthalate	0.731	0.553	24.4	12#	0.00
35 I	Perylene-d12	1.000	1.000	0.0	46#	0.00
36	Indeno(1,2,3-cd)pyrene	1.596	1.532	4.0	47#	0.00
37	Benzo(b)fluoranthene	1.346	1.443	-7.2	52	0.00
38	Benzo(k)fluoranthene	1.347	1.439	-6.8	52	0.00
39 C	Benzo(a)pyrene	1.184	1.243	-5.0	51	0.00
40	Dibenzo(a,h)anthracene	1.264	1.176	7.0	45#	0.00
41	Benzo(g,h,i)perylene	1.345	1.266	5.9	46#	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112124\
 Data File : BN035219.D
 Acq On : 21 Nov 2024 13:22
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Nov 21 14:33:33 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 21 14:00:03 2024
 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	127	0.00
2	1,4-Dioxane	0.400	0.443	-10.7	152	0.00
3	n-Nitrosodimethylamine	0.400	0.413	-3.2	136	0.00
4 S	2-Fluorophenol	0.400	0.462	-15.5	157	0.00
5 S	Phenol-d6	0.400	0.463	-15.8	161	0.00
6	bis(2-Chloroethyl)ether	0.400	0.450	-12.5	152	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	125	0.00
8 S	Nitrobenzene-d5	0.400	0.238	40.5#	81	0.00
9	Naphthalene	0.400	0.393	1.8	131	0.00
10	Hexachlorobutadiene	0.400	0.324	19.0	106	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.339	15.3	114	0.00
12	2-Methylnaphthalene	0.400	0.377	5.8	128	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	108	0.00
14 S	2,4,6-Tribromophenol	0.400	0.458	-14.5	149	0.00
15 S	2-Fluorobiphenyl	0.400	0.074	81.5#	22	0.00
16	Acenaphthylene	0.400	0.417	-4.2	129	0.00
17	Acenaphthene	0.400	0.393	1.8	119	0.00
18	Fluorene	0.400	0.373	6.8	114	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	97	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.156	61.0#	44	0.00
21	4-Bromophenyl-phenylether	0.400	0.381	4.8	96	0.00
22	Hexachlorobenzene	0.400	0.432	-8.0	110	0.00
23	Atrazine	0.400	0.253	36.8#	65	0.00
24	Pentachlorophenol	0.400	0.551	-37.8#	159	0.00
25	Phenanthrene	0.400	0.405	-1.3	103	0.00
26	Anthracene	0.400	0.425	-6.2	109	0.00
27 SURR	Fluoranthene-d10	0.400	0.312	22.0	80	0.00
28	Fluoranthene	0.400	0.345	13.8	88	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	15	0.00
30	Pyrene	0.400	2.306	-476.5#	87	0.00
31 S	Terphenyl-d14	0.400	1.730	-332.5#	65	0.00
32	Benzo(a)anthracene	0.400	1.669	-317.3#	64	0.00
33	Chrysene	0.400	1.685	-321.3#	64	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.302	24.5	12	0.00
35 I	Perylene-d12	0.400	0.400	0.0	46	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.384	4.0	47	0.00
37	Benzo(b)fluoranthene	0.400	0.429	-7.2	52	0.00
38	Benzo(k)fluoranthene	0.400	0.428	-7.0	52	0.00
39 C	Benzo(a)pyrene	0.400	0.420	-5.0	51	0.00
40	Dibenzo(a,h)anthracene	0.400	0.372	7.0	45	0.00
41	Benzo(g,h,i)perylene	0.400	0.377	5.8	46	0.00

(#) = Out of Range

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



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P4934 SAS No.: P4934 SDG No.: P4934

Instrument ID: BNA_N Calibration Date/Time: 11/21/2024 23:01

Lab File ID: BN035235.D Init. Calib. Date(s): 11/13/2024 11/13/2024

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 12:40 16:15

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.713	0.581		-18.5	50.0
Fluoranthene-d10	1.225	0.987		-19.4	50.0
2-Fluorophenol	1.015	1.087		7.1	50.0
Phenol-d6	1.273	1.273		0.0	50.0
Nitrobenzene-d5	0.348	0.189		-45.7	50.0
2-Fluorobiphenyl	1.624	0.255		-84.3	50.0
2,4,6-Tribromophenol	0.289	0.242		-16.3	50.0
Terphenyl-d14	0.839	6.857		717.3	50.0
1,4-Dioxane	0.363	0.381		5.0	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112124\
 Data File : BN035235.D
 Acq On : 21 Nov 2024 23:01
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/22/2024
 Supervised By :mohammad ahmed 11/22/2024

Quant Time: Nov 21 23:33:46 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 21 14:00:03 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.322	152	3350	0.400	ng	0.00
7) Naphthalene-d8	10.073	136	7674	0.400	ng	0.00
13) Acenaphthene-d10	13.976	164	4706	0.400	ng	-0.01
19) Phenanthrene-d10	16.746	188	9785	0.400	ng	# 0.00
29) Chrysene-d12	21.008	240	924	0.400	ng	# 0.00
35) Perylene-d12	23.092	264	8785	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.975	112	3641	0.428	ng	0.00
5) Phenol-d6	6.528	99	4263	0.400	ng	0.00
8) Nitrobenzene-d5	8.461	82	1450m	0.217	ng	0.00
11) 2-Methylnaphthalene-d10	11.674	152	4455	0.326	ng	0.00
14) 2,4,6-Tribromophenol	15.494	330	1140	0.336	ng	0.00
15) 2-Fluorobiphenyl	12.608	172	1202	0.063	ng	0.00
27) Fluoranthene-d10	18.802	212	9657	0.322	ng	0.00
31) Terphenyl-d14	19.429	244	6336	3.268	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.011	88	1275	0.419	ng	92
3) n-Nitrosodimethylamine	3.307	42	994	0.351	ng	# 88
6) bis(2-Chloroethyl)ether	6.773	93	3222	0.403	ng	97
9) Naphthalene	10.116	128	7849	0.392	ng	100
10) Hexachlorobutadiene	10.415	225	1778	0.303	ng	# 99
12) 2-Methylnaphthalene	11.750	142	5199	0.352	ng	96
16) Acenaphthylene	13.688	152	7880	0.392	ng	99
17) Acenaphthene	14.040	154	5046	0.383	ng	98
18) Fluorene	15.045	166	6711	0.346	ng	99
20) 4,6-Dinitro-2-methylph...	15.142	198	322	0.158	ng	# 47
21) 4-Bromophenyl-phenylether	15.952	248	2324	0.373	ng	# 84
22) Hexachlorobenzene	16.051	284	2690	0.416	ng	98
23) Atrazine	16.250	200	1260	0.225	ng	95
24) Pentachlorophenol	16.411	266	1189	0.393	ng	97
25) Phenanthrene	16.784	178	10390	0.403	ng	99
26) Anthracene	16.883	178	9521	0.403	ng	99
28) Fluoranthene	18.834	202	12485	0.353	ng	# 97
30) Pyrene	19.201	202	12814	4.164	ng	99
32) Benzo(a)anthracene	21.026	228	11745	3.650	ng	96
33) Chrysene	21.026	228	11745	3.685	ng	99
34) Bis(2-ethylhexyl)phtha...	21.026	149	1040	0.616	ng	# 85
36) Indeno(1,2,3-cd)pyrene	25.145	276	13630	0.389	ng	# 90
37) Benzo(b)fluoranthene	22.475	252	11553	0.391	ng	# 95
38) Benzo(k)fluoranthene	22.519	252	11920	0.403	ng	# 94
39) Benzo(a)pyrene	23.002	252	10296	0.396	ng	# 93
40) Dibenzo(a,h)anthracene	25.162	278	10355	0.373	ng	# 90
41) Benzo(g,h,i)perylene	25.762	276	11294	0.382	ng	# 91

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112124\
 Data File : BN035235.D
 Acq On : 21 Nov 2024 23:01
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

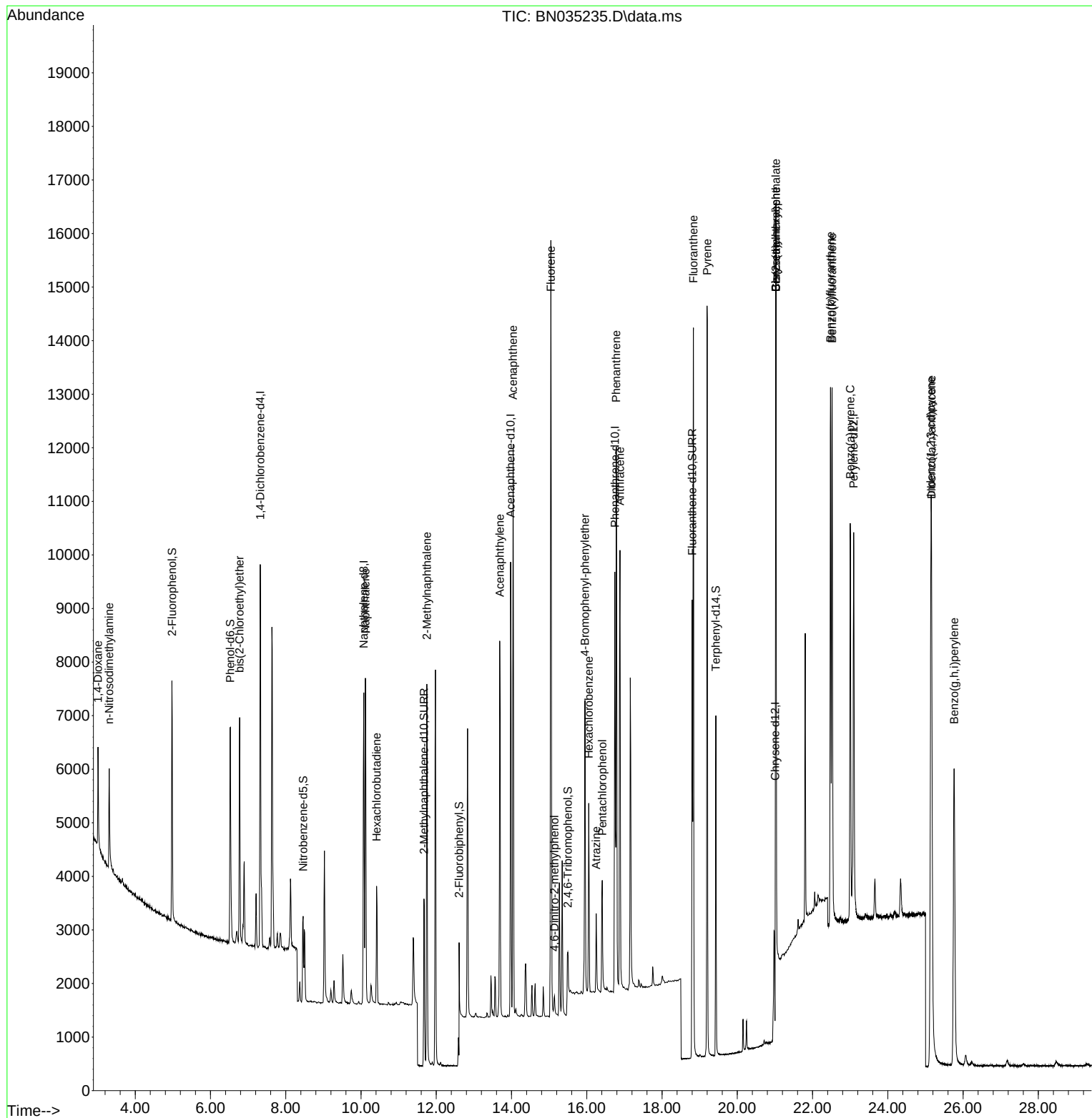
SSTDCCC0.4EC

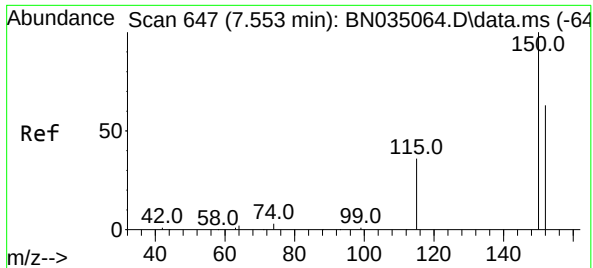
Manual Integrations**APPROVED**

Reviewed By :Yogesh Patel 11/22/2024

Supervised By :mohammad ahmed 11/22/2024

Quant Time: Nov 21 23:33:46 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112124.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 21 14:00:03 2024
 Response via : Initial Calibration





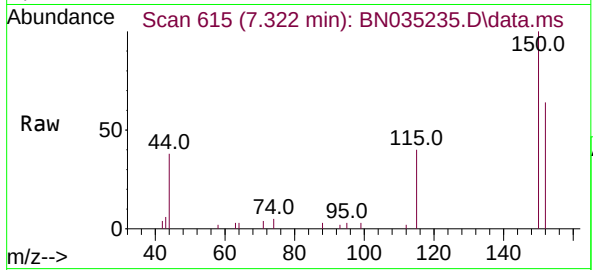
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.322 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

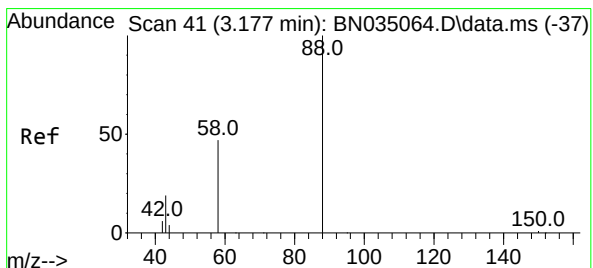
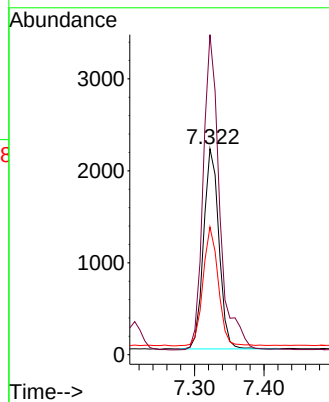
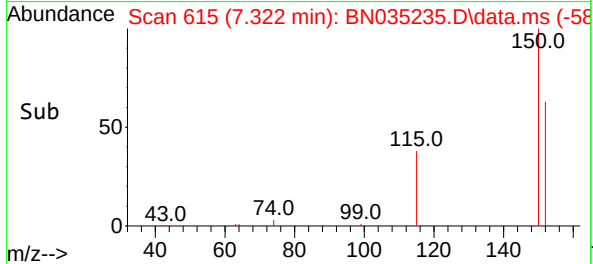


Tgt Ion:152 Resp: 3350
Ion Ratio Lower Upper
152 100
150 155.4 124.5 186.7
115 62.1 47.8 71.6

Manual Integrations

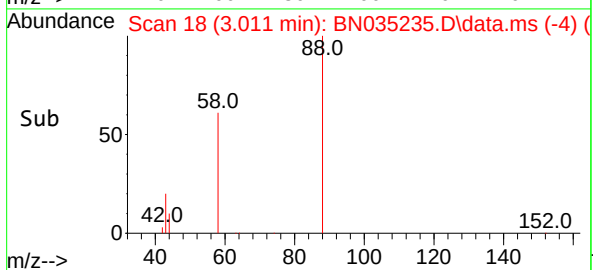
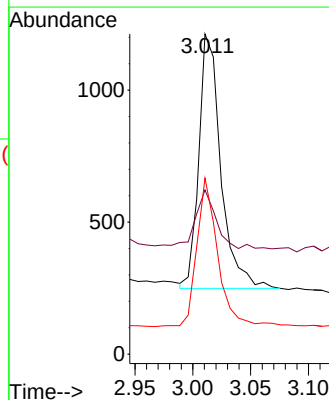
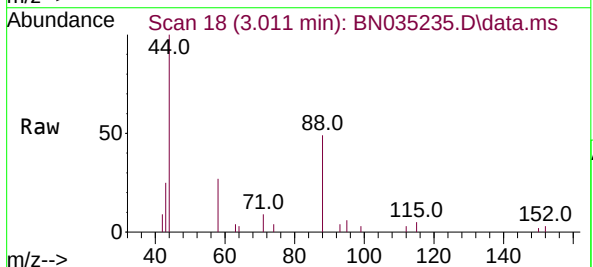
APPROVED

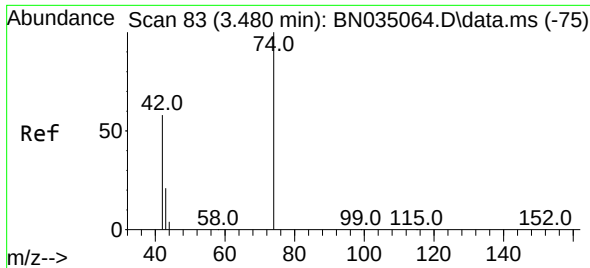
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#2
1,4-Dioxane
Concen: 0.419 ng
RT: 3.011 min Scan# 18
Delta R.T. -0.000 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

Tgt Ion: 88 Resp: 1275
Ion Ratio Lower Upper
88 100
43 22.0 16.9 25.3
58 56.2 39.0 58.4





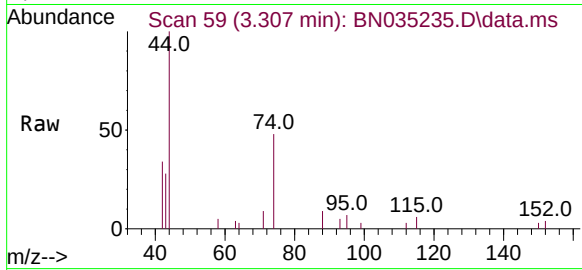
#3
n-Nitrosodimethylamine
Concen: 0.351 ng
RT: 3.307 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



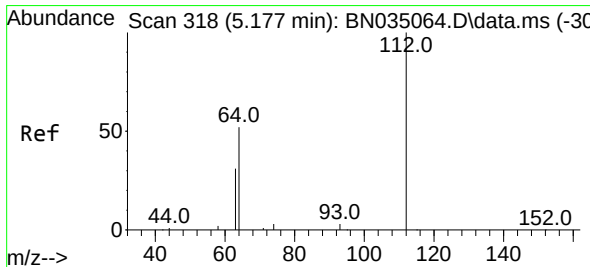
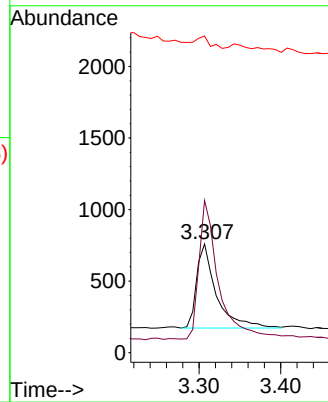
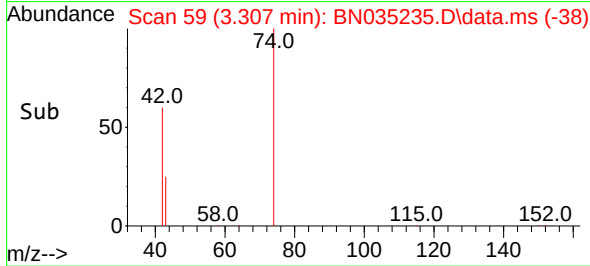
Tgt Ion: 42 Resp: 994
Ion Ratio Lower Upper
42 100
74 166.1 120.8 181.2
44 10.4 2.9 4.3

Manual Integrations

APPROVED

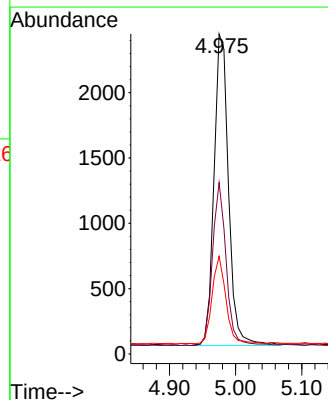
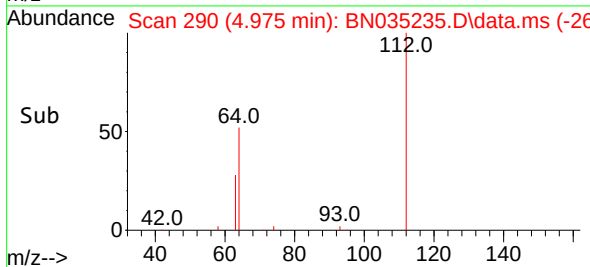
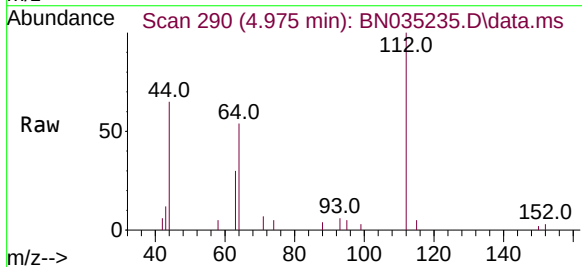
Reviewed By :Yogesh Patel 11/22/2024

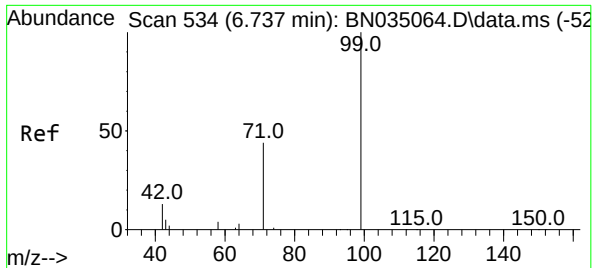
Supervised By :mohammad ahmed 11/22/2024



#4
2-Fluorophenol
Concen: 0.428 ng
RT: 4.975 min Scan# 290
Delta R.T. -0.007 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

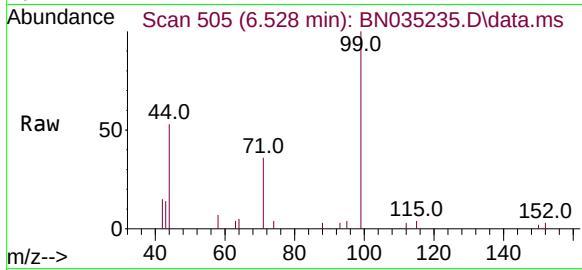
Tgt Ion:112 Resp: 3641
Ion Ratio Lower Upper
112 100
64 48.9 39.7 59.5
63 26.9 23.0 34.4





#5
Phenol-d6
Concen: 0.400 ng
RT: 6.528 min Scan# 505
Delta R.T. -0.000 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

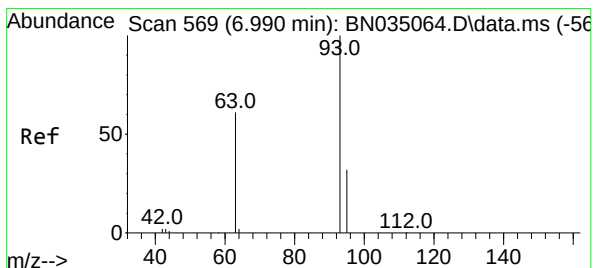
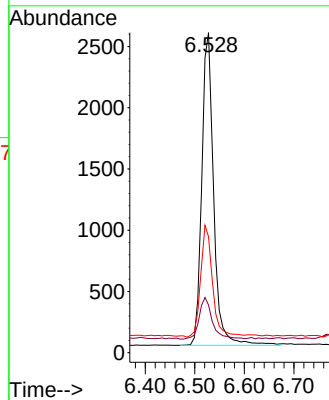
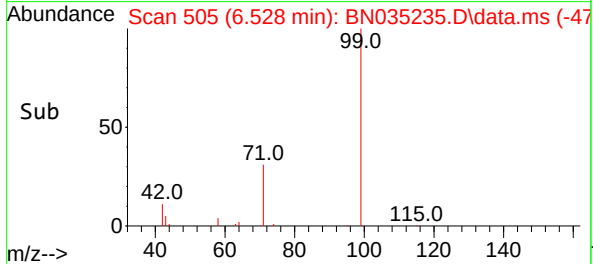
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion: 99 Resp: 426
Ion Ratio Lower Upper
99 100
42 14.5 11.4 17.0
71 35.9 34.6 51.8

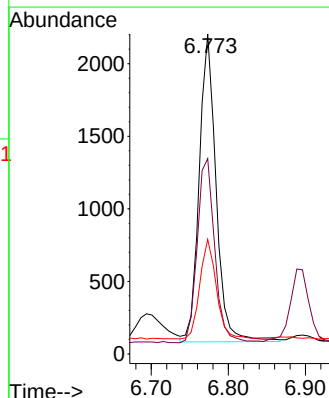
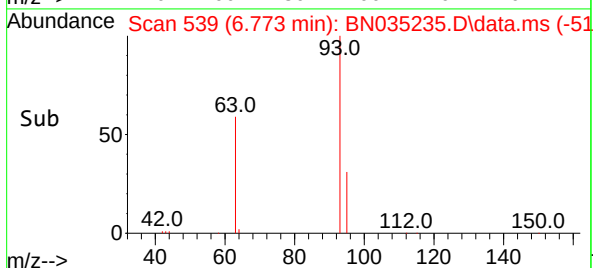
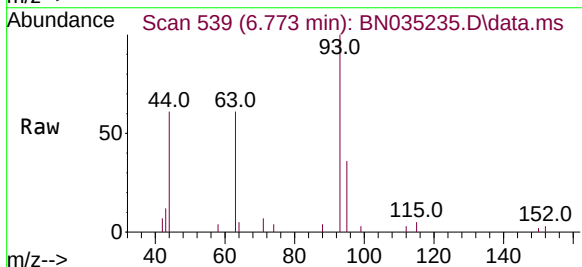
Manual Integrations
APPROVED

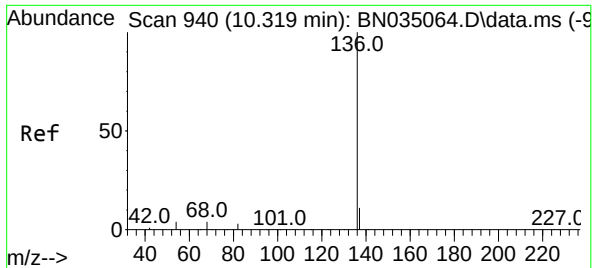
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.403 ng
RT: 6.773 min Scan# 539
Delta R.T. -0.000 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

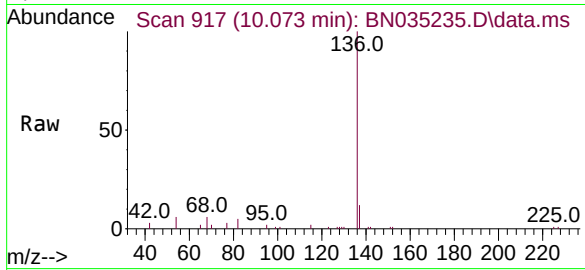
Tgt Ion: 93 Resp: 3222
Ion Ratio Lower Upper
93 100
63 61.9 47.4 71.2
95 31.4 26.2 39.4





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.073 min Scan# 917
Delta R.T. -0.000 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

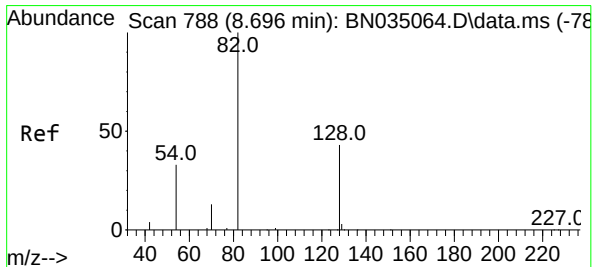
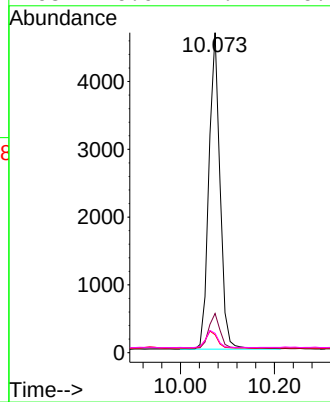
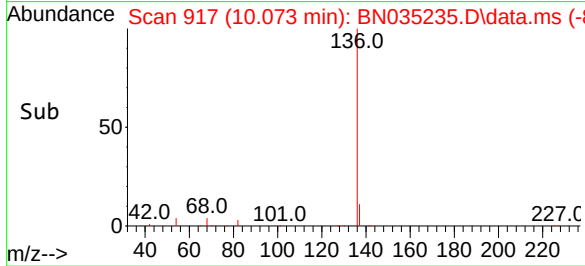
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:136 Resp: 7674
Ion Ratio Lower Upper
136 100
137 12.2 9.8 14.8
54 5.6 4.0 6.0
68 6.0 4.2 6.2

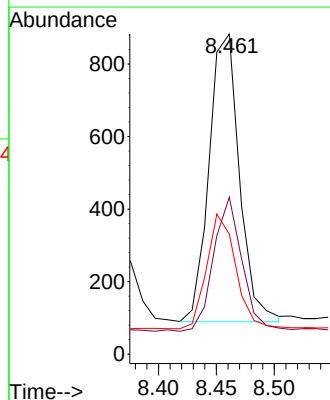
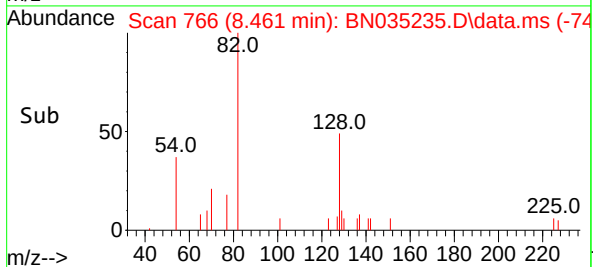
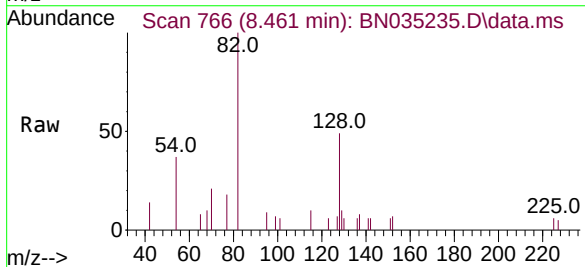
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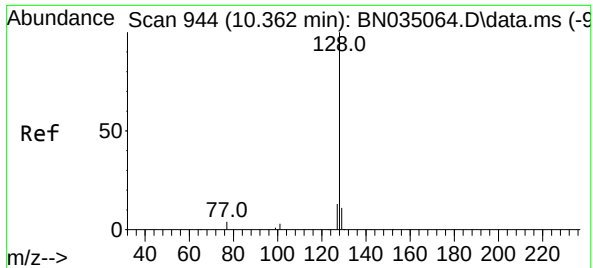
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#8
Nitrobenzene-d5
Concen: 0.217 ng m
RT: 8.461 min Scan# 766
Delta R.T. -0.000 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

Tgt Ion: 82 Resp: 1450
Ion Ratio Lower Upper
82 100
128 49.0 36.5 54.7
54 37.5 28.7 43.1





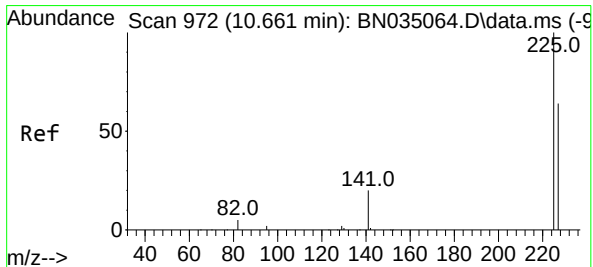
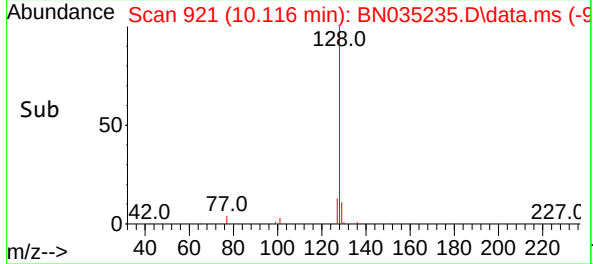
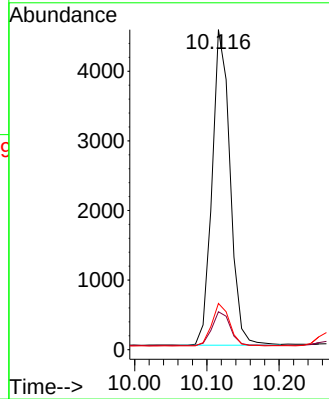
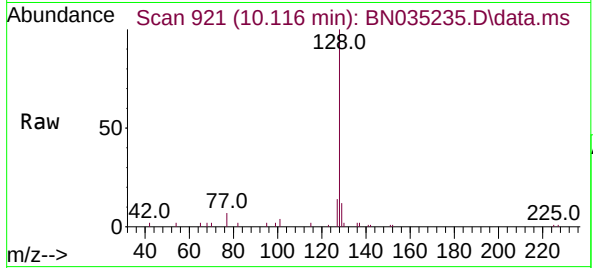
#9
Naphthalene
Concen: 0.392 ng
RT: 10.116 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:128 Resp: 7849
Ion Ratio Lower Upper
128 100
129 11.9 9.6 14.4
127 14.5 11.6 17.4

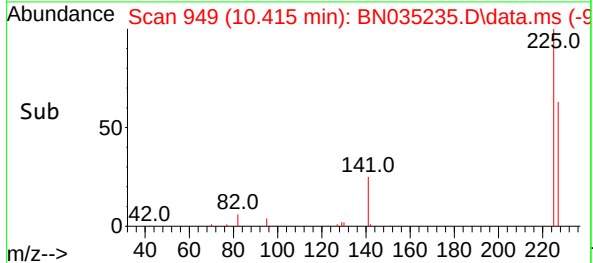
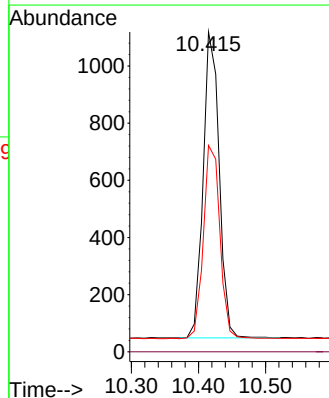
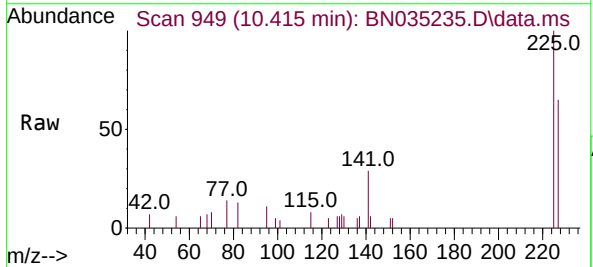
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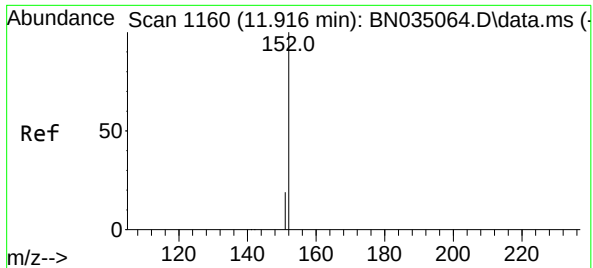
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#10
Hexachlorobutadiene
Concen: 0.303 ng
RT: 10.415 min Scan# 949
Delta R.T. -0.011 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

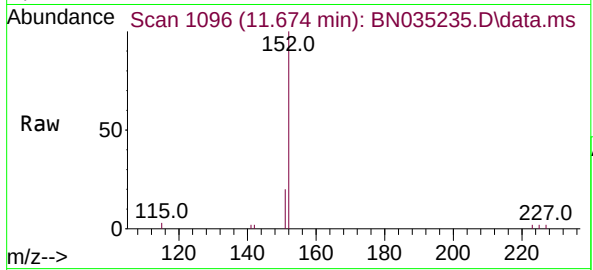
Tgt Ion:225 Resp: 1778
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 65.5 51.5 77.3





#11
2-Methylnaphthalene-d10
Concen: 0.326 ng
RT: 11.674 min Scan# 1106
Delta R.T. -0.004 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

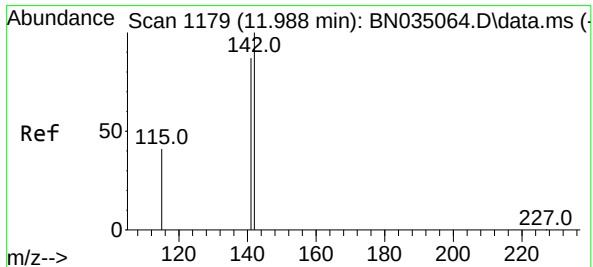
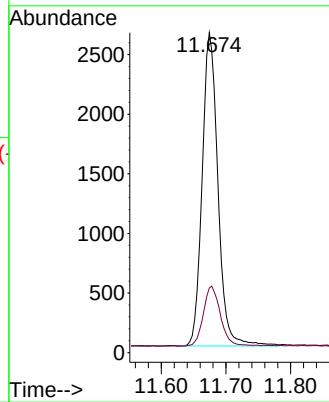
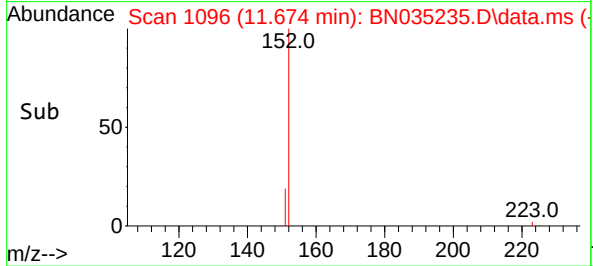
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:152 Resp: 445
Ion Ratio Lower Upper
152 100
151 20.6 16.2 24.4

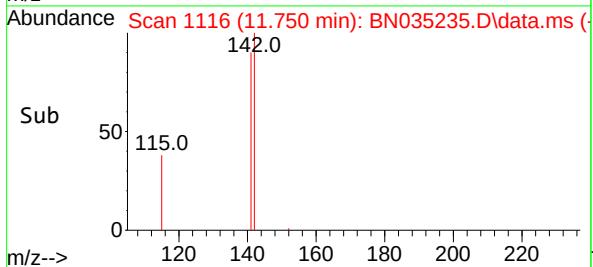
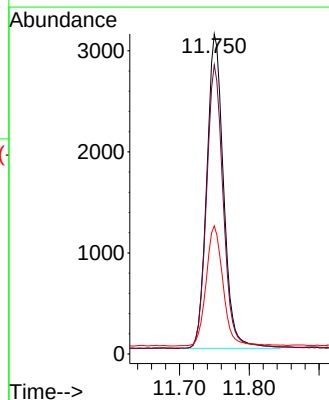
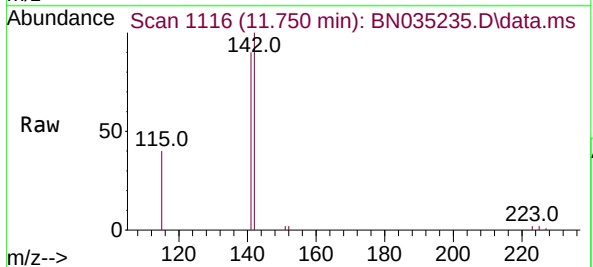
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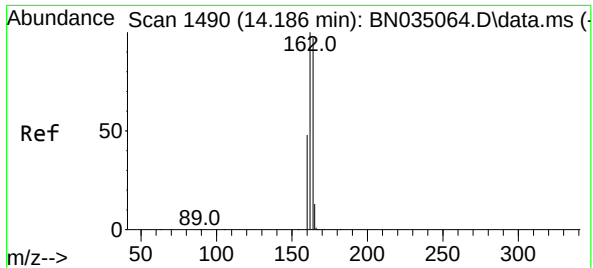
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#12
2-Methylnaphthalene
Concen: 0.352 ng
RT: 11.750 min Scan# 1116
Delta R.T. -0.004 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

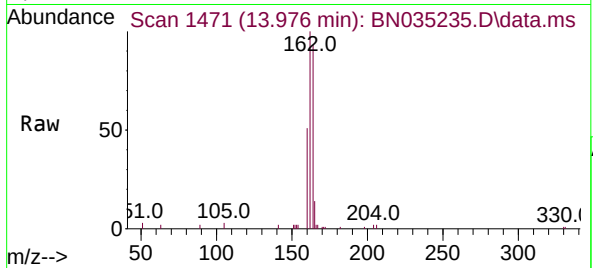
Tgt Ion:142 Resp: 5199
Ion Ratio Lower Upper
142 100
141 90.4 70.1 105.1
115 40.1 34.4 51.6





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.976 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

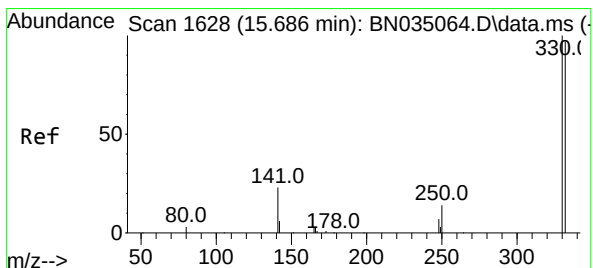
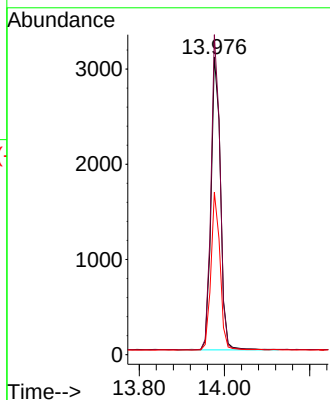
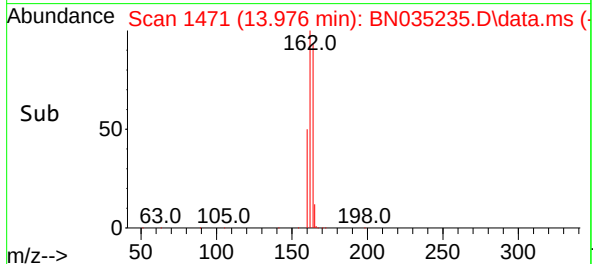
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:164 Resp: 4700
Ion Ratio Lower Upper
164 100
162 107.5 82.2 123.2
160 54.6 40.2 60.4

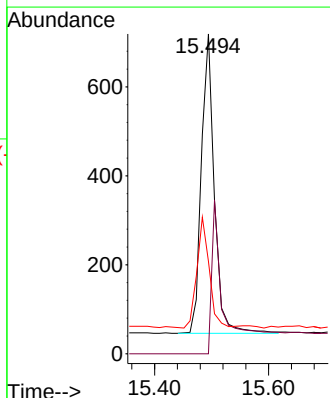
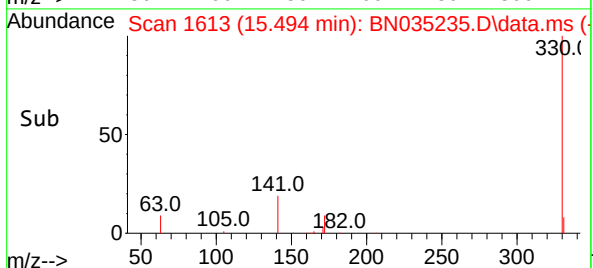
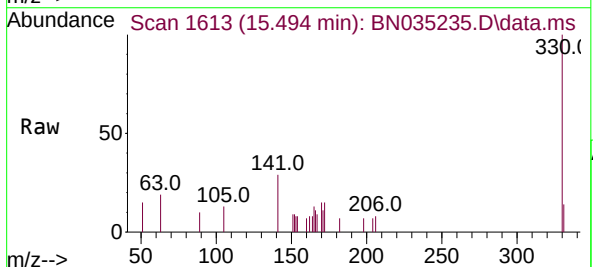
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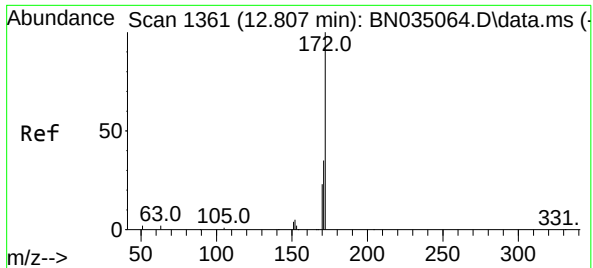
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#14
2,4,6-Tribromophenol
Concen: 0.336 ng
RT: 15.494 min Scan# 1613
Delta R.T. -0.000 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

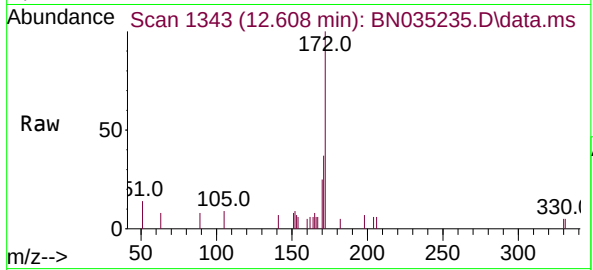
Tgt Ion:330 Resp: 1140
Ion Ratio Lower Upper
330 100
332 0.0 76.9 115.3#
141 34.2 29.6 44.4





#15
2-Fluorobiphenyl
Concen: 0.063 ng
RT: 12.608 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

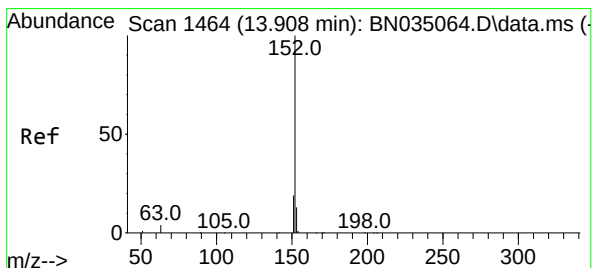
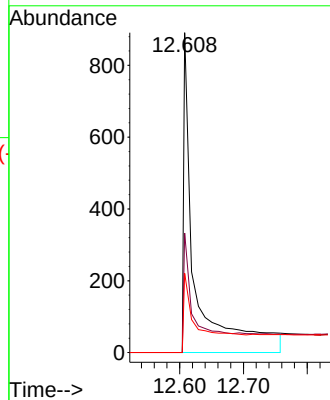
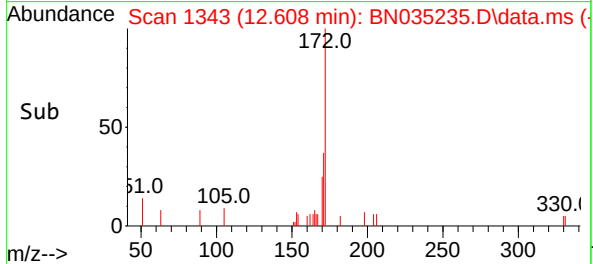
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:172 Resp: 120
Ion Ratio Lower Upper
172 100
171 37.4 28.2 42.4
170 24.8 19.0 28.6

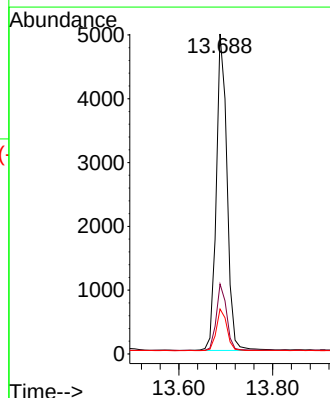
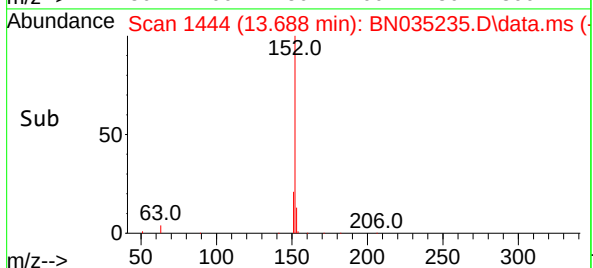
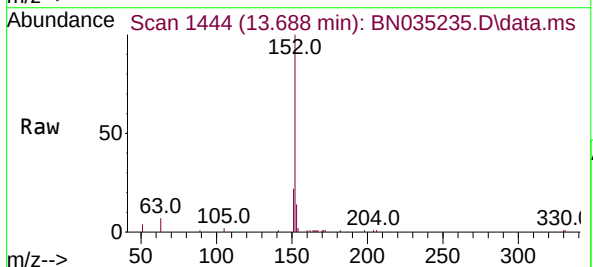
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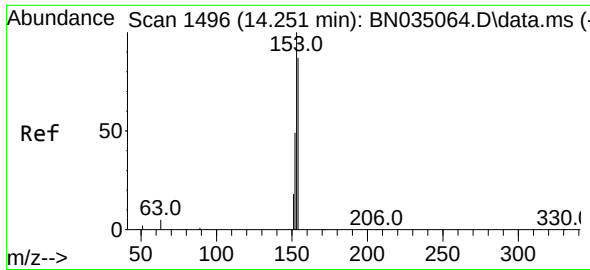
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#16
Acenaphthylene
Concen: 0.392 ng
RT: 13.688 min Scan# 1444
Delta R.T. -0.011 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

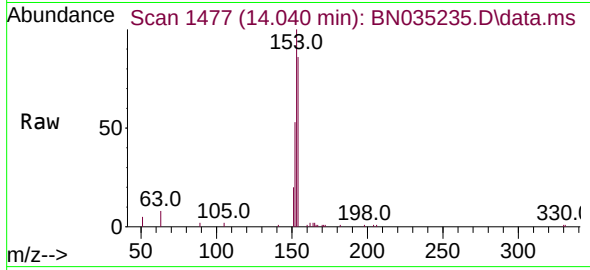
Tgt Ion:152 Resp: 7880
Ion Ratio Lower Upper
152 100
151 20.4 15.8 23.8
153 13.3 10.2 15.4





#17
Acenaphthene
Concen: 0.383 ng
RT: 14.040 min Scan# 1496
Delta R.T. -0.011 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

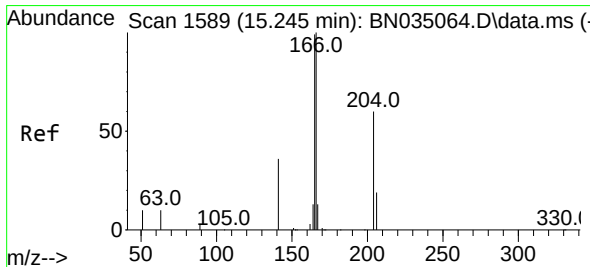
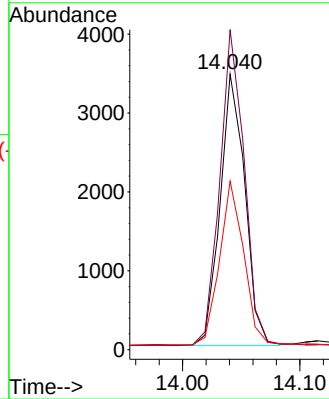
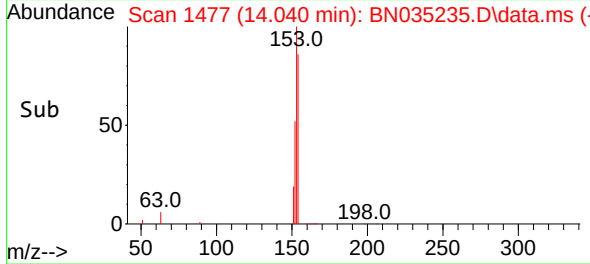
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:154 Resp: 5040
Ion Ratio Lower Upper
154 100
153 115.6 91.6 137.4
152 59.8 45.8 68.6

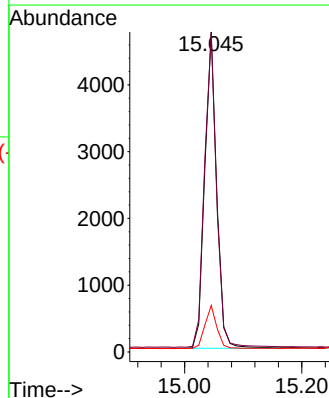
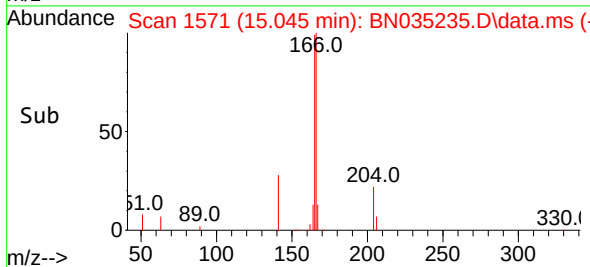
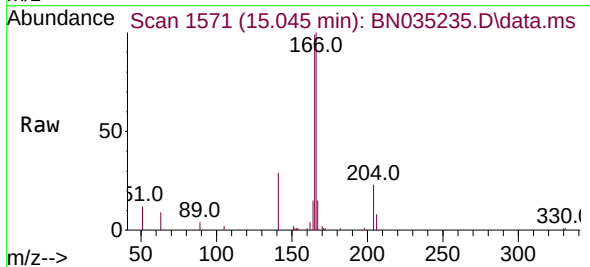
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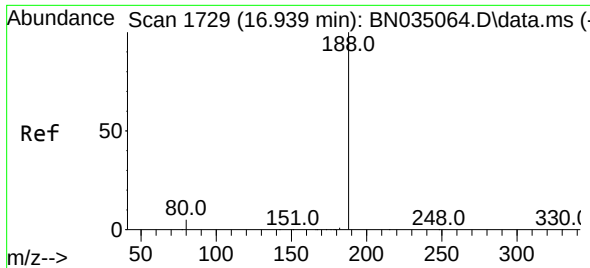
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#18
Fluorene
Concen: 0.346 ng
RT: 15.045 min Scan# 1571
Delta R.T. -0.000 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

Tgt Ion:166 Resp: 6711
Ion Ratio Lower Upper
166 100
165 100.4 79.1 118.7
167 13.8 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.746 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN035235.D

Acq: 21 Nov 2024 23:01

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion:188 Resp: 978

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

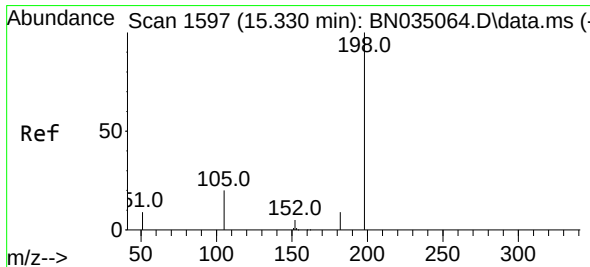
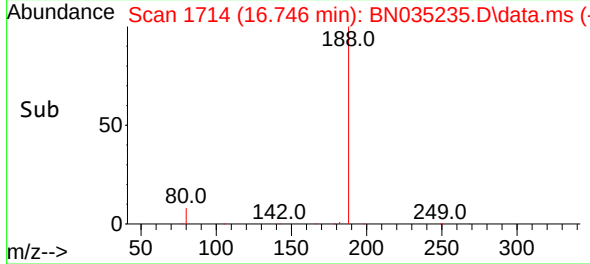
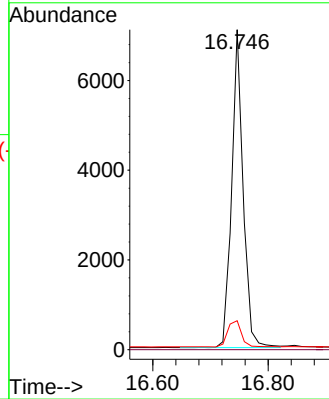
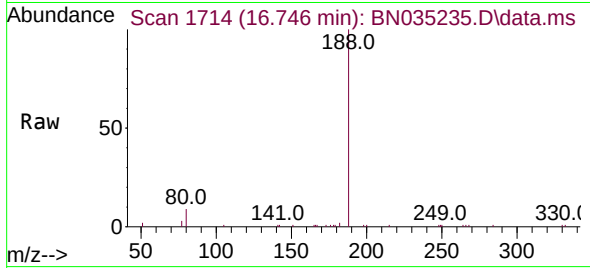
80 9.1 4.3 6.5

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Reviewed By :Yogesh Patel 11/22/2024

Supervised By :mohammad ahmed 11/22/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.158 ng

RT: 15.142 min Scan# 1580

Delta R.T. -0.000 min

Lab File: BN035235.D

Acq: 21 Nov 2024 23:01

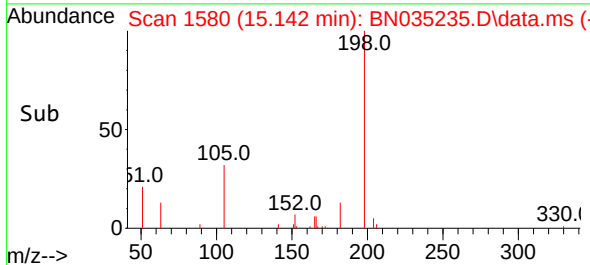
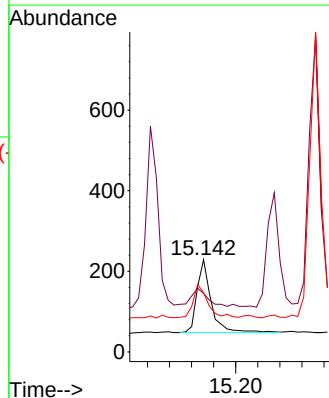
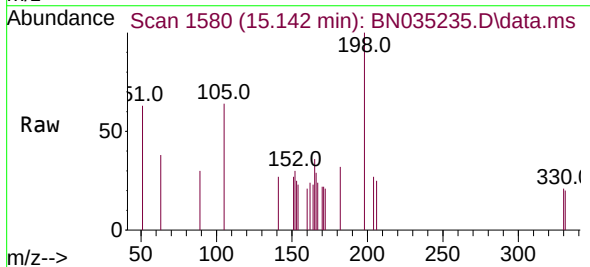
Tgt Ion:198 Resp: 322

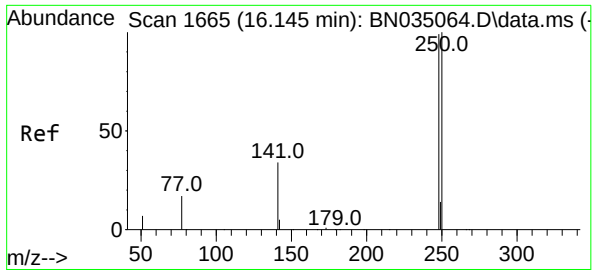
Ion Ratio Lower Upper

198 100

51 63.3 29.9 44.9#

105 64.2 23.7 35.5#





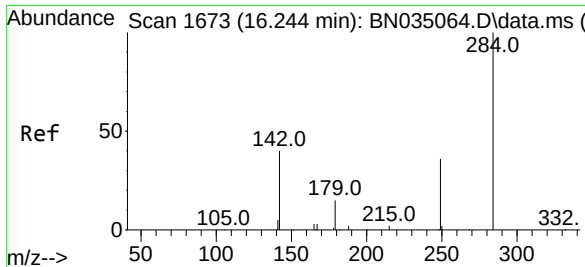
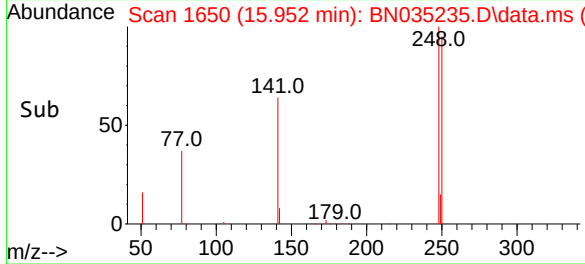
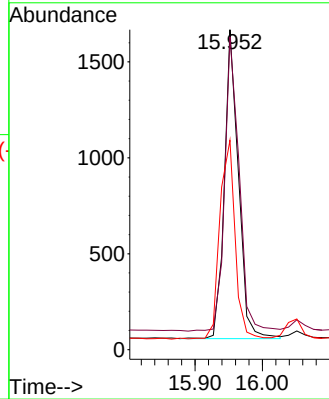
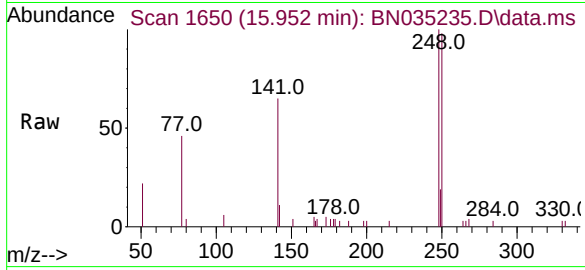
#21
4-Bromophenyl-phenylether
Concen: 0.373 ng
RT: 15.952 min Scan# 1650
Delta R.T. -0.000 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:248 Resp: 2324
Ion Ratio Lower Upper
248 100
250 97.8 81.2 121.8
141 65.5 29.1 43.7

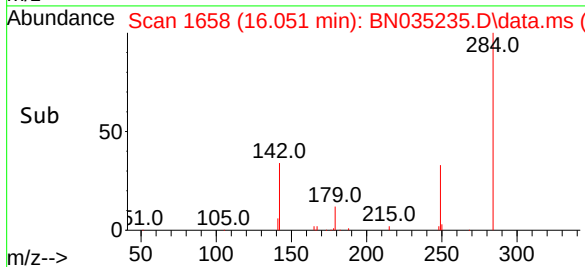
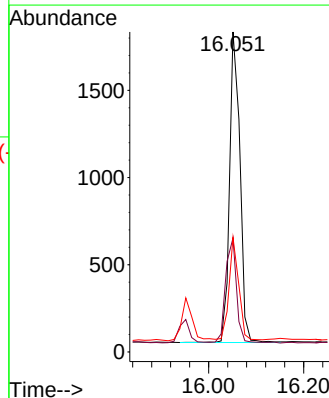
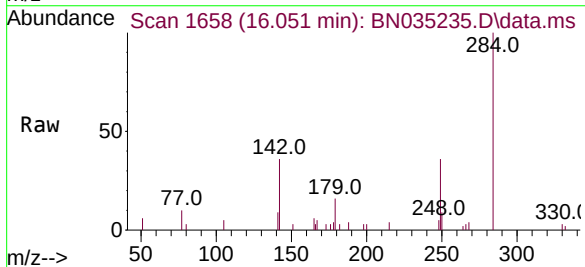
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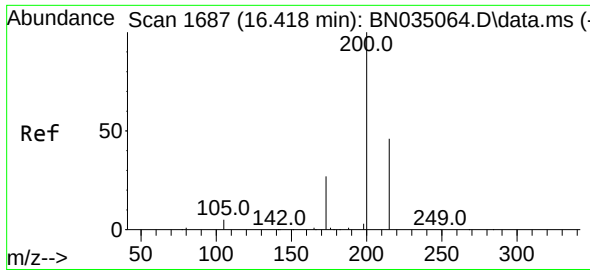
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#22
Hexachlorobenzene
Concen: 0.416 ng
RT: 16.051 min Scan# 1658
Delta R.T. -0.012 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

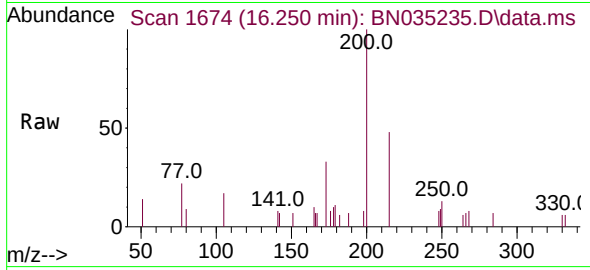
Tgt Ion:284 Resp: 2690
Ion Ratio Lower Upper
284 100
142 35.7 28.2 42.4
249 30.9 26.2 39.2





#23
Atrazine
Concen: 0.225 ng
RT: 16.250 min Scan# 1687
Delta R.T. -0.000 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

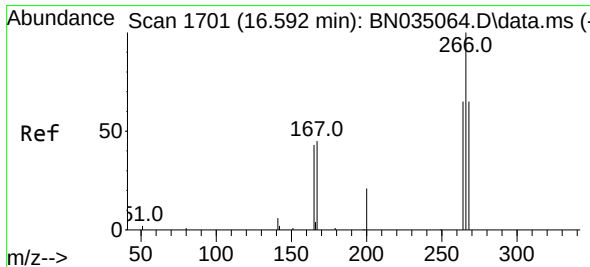
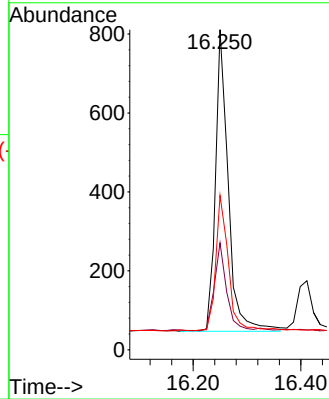
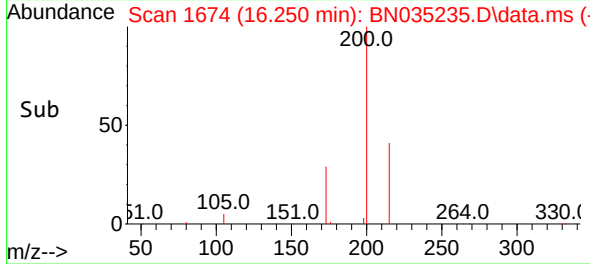
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:200 Resp: 1260
Ion Ratio Lower Upper
200 100
173 33.4 22.6 33.8
215 48.2 37.8 56.6

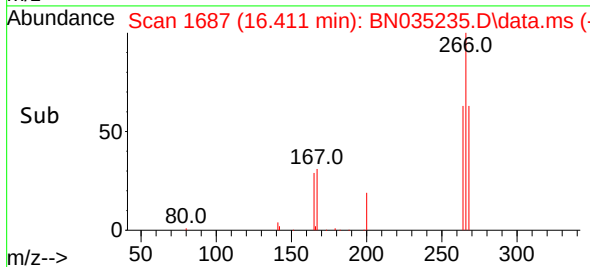
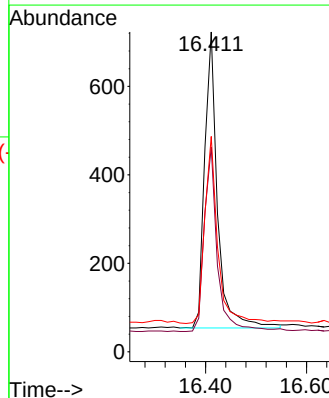
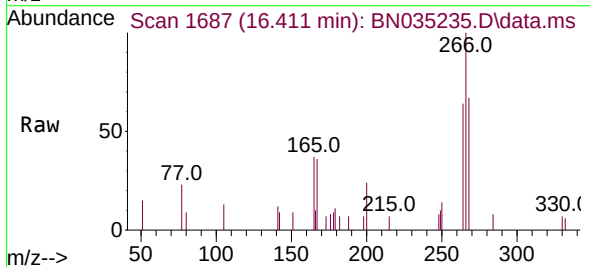
Manual Integrations
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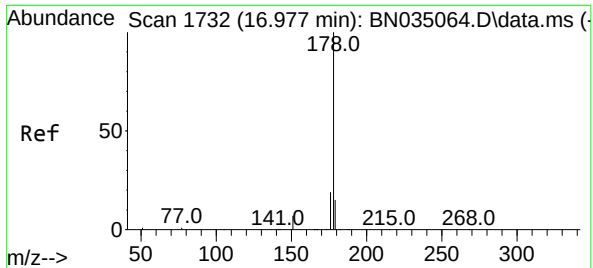
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#24
Pentachlorophenol
Concen: 0.393 ng
RT: 16.411 min Scan# 1687
Delta R.T. -0.000 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

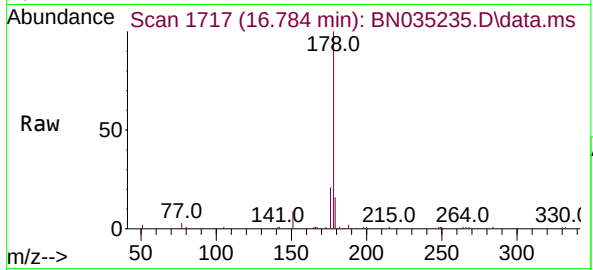
Tgt Ion:266 Resp: 1189
Ion Ratio Lower Upper
266 100
264 63.5 49.4 74.0
268 63.4 52.6 79.0





#25
Phenanthrene
Concen: 0.403 ng
RT: 16.784 min Scan# 1725
Delta R.T. -0.012 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

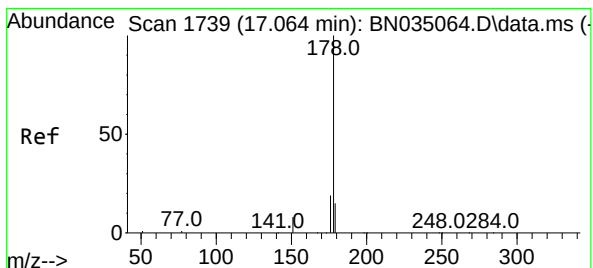
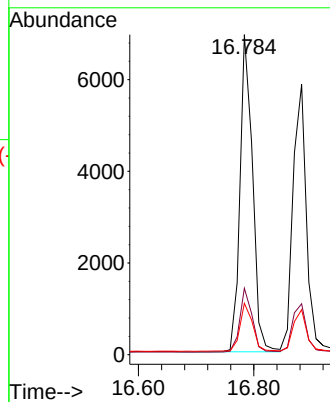
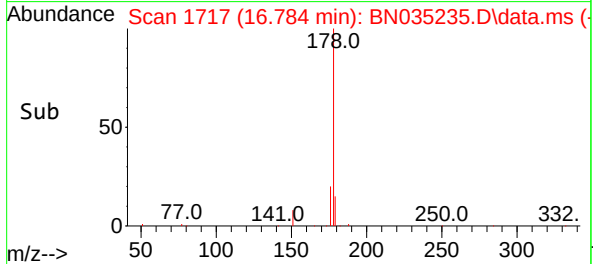
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:178 Resp: 10390
Ion Ratio Lower Upper
178 100
176 19.8 15.2 22.8
179 15.6 12.6 18.8

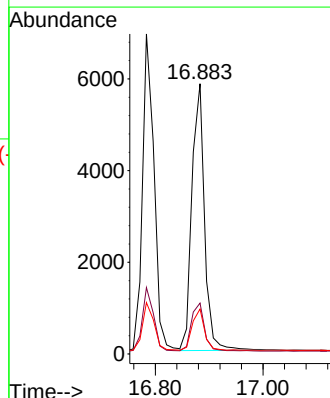
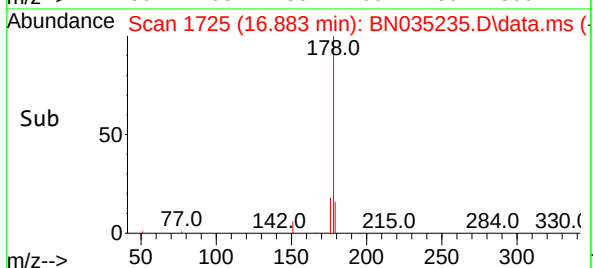
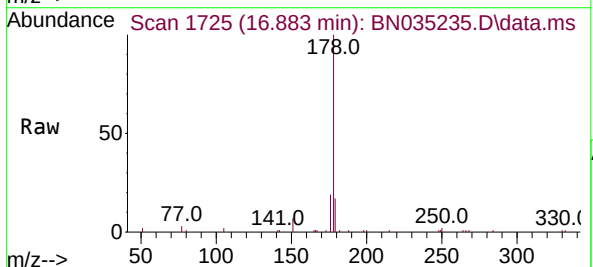
Manual Integrations
APPROVED

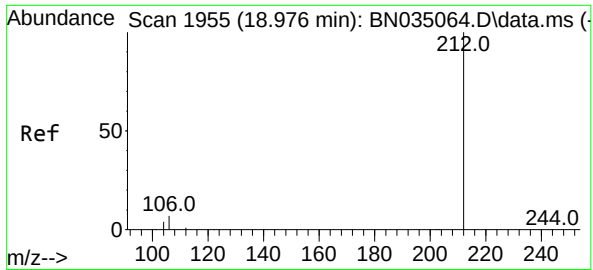
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#26
Anthracene
Concen: 0.403 ng
RT: 16.883 min Scan# 1725
Delta R.T. -0.000 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

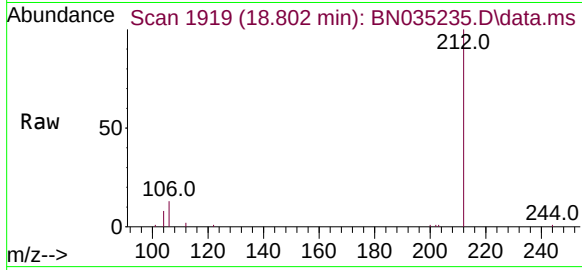
Tgt Ion:178 Resp: 9521
Ion Ratio Lower Upper
178 100
176 18.7 14.6 22.0
179 15.2 12.2 18.2





#27
Fluoranthene-d10
Concen: 0.322 ng
RT: 18.802 min Scan# 1919
Delta R.T. -0.005 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

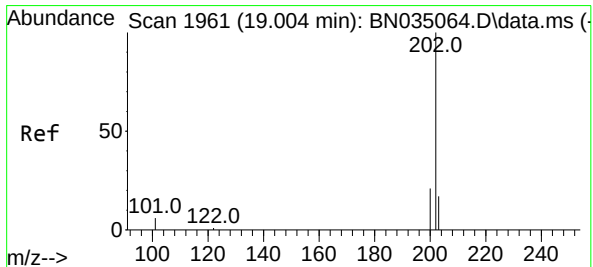
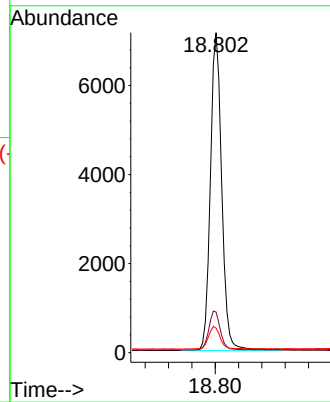
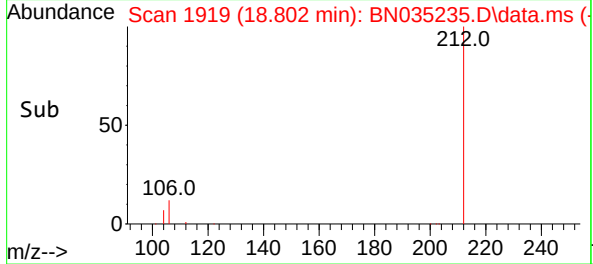
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:212 Resp: 965
Ion Ratio Lower Upper
212 100
106 12.4 6.0 9.0#
104 7.3 3.5 5.3#

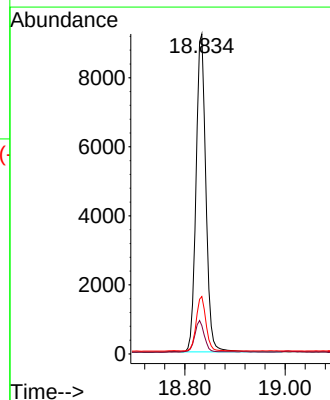
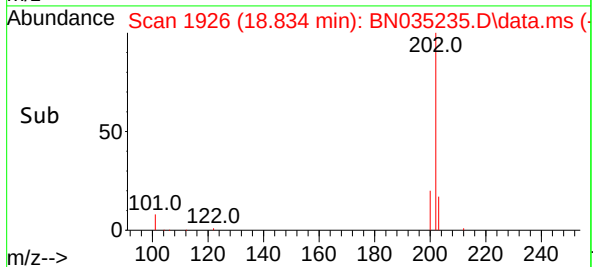
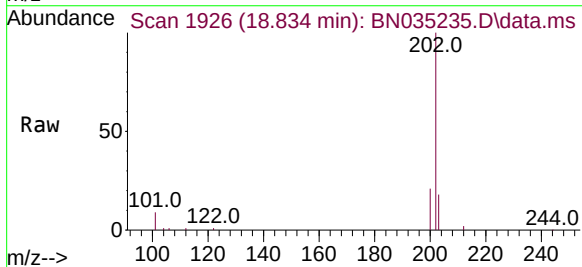
Manual Integrations
APPROVED

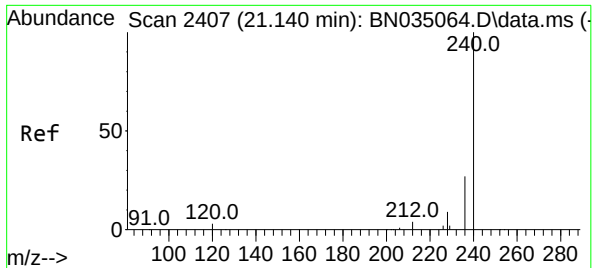
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#28
Fluoranthene
Concen: 0.353 ng
RT: 18.834 min Scan# 1926
Delta R.T. -0.005 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

Tgt Ion:202 Resp: 12485
Ion Ratio Lower Upper
202 100
101 9.9 5.2 7.8#
203 17.0 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.008 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035235.D

Acq: 21 Nov 2024 23:01

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

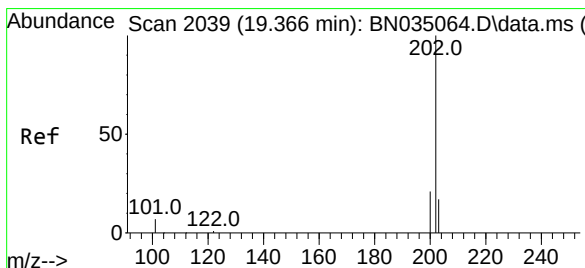
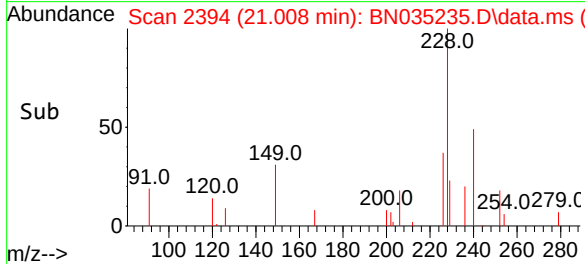
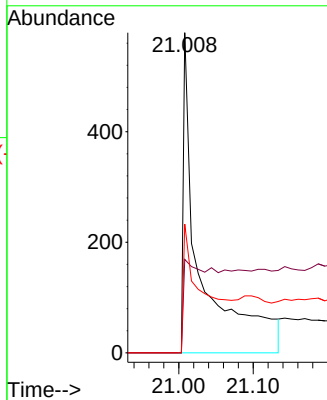
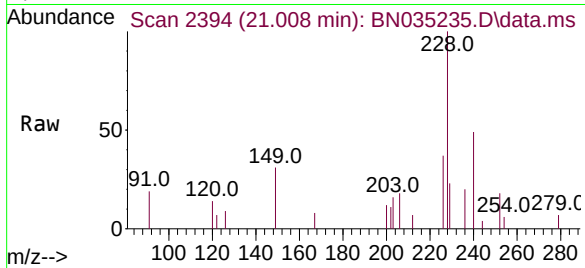
Tgt Ion:	240	Resp:	924
Ion Ratio	Lower	Upper	
240	100		
120	29.2	3.8	5.6
236	40.2	22.2	33.2

Manual Integrations

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Reviewed By :Yogesh Patel 11/22/2024

Supervised By :mohammad ahmed 11/22/2024



#30

Pyrene

Concen: 4.164 ng

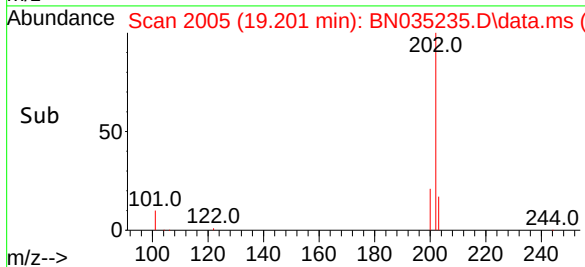
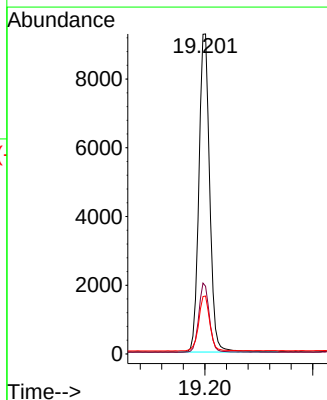
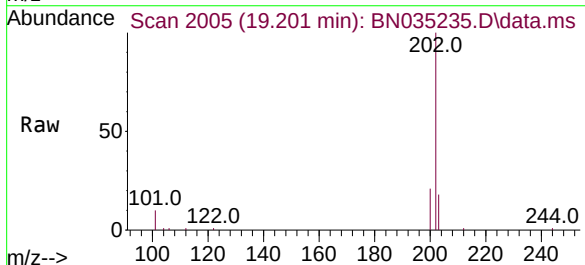
RT: 19.201 min Scan# 2005

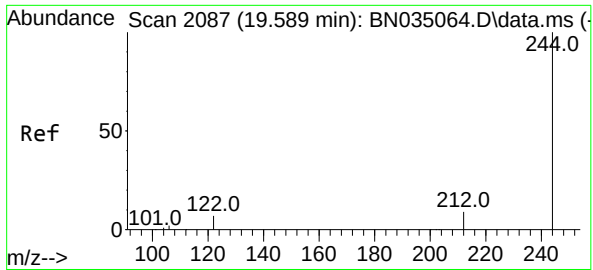
Delta R.T. -0.005 min

Lab File: BN035235.D

Acq: 21 Nov 2024 23:01

Tgt Ion:	202	Resp:	12814
Ion Ratio	Lower	Upper	
202	100		
200	21.3	16.7	25.1
203	17.7	14.2	21.4





#31
Terphenyl-d14
Concen: 3.268 ng
RT: 19.429 min Scan# 2087
Delta R.T. -0.009 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

Instrument :

BNA_N

ClientSampleId :

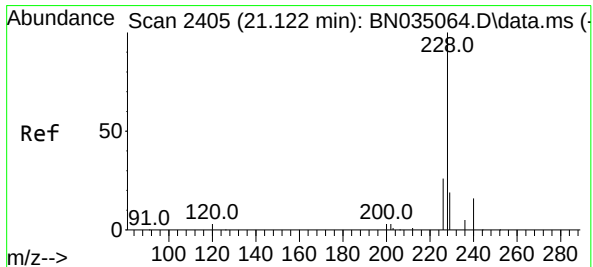
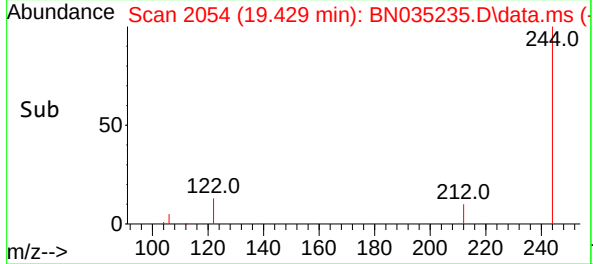
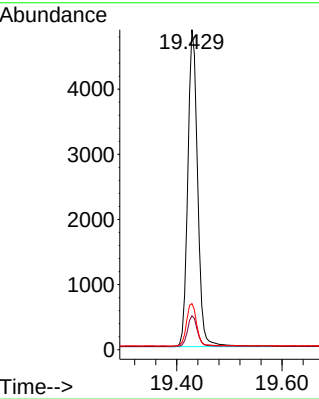
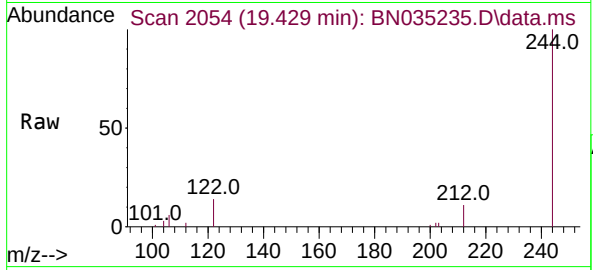
SSTDCCC0.4EC

Tgt Ion:244 Resp: 6330
Ion Ratio Lower Upper
244 100
212 10.6 7.6 11.4
122 14.4 6.1 9.1

Manual Integrations

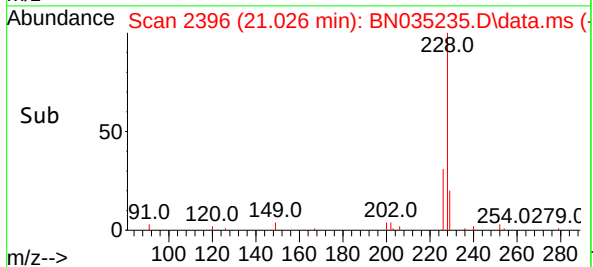
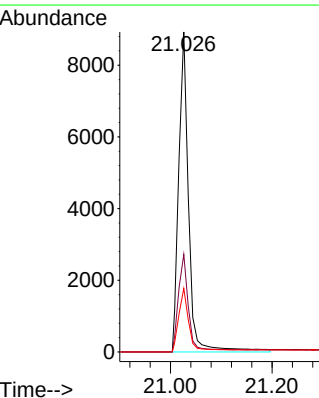
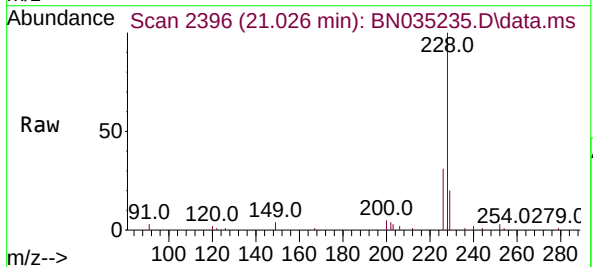
APPROVED

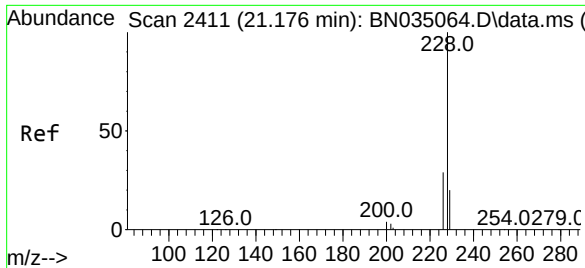
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#32
Benzo(a)anthracene
Concen: 3.650 ng
RT: 21.026 min Scan# 2396
Delta R.T. -0.009 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

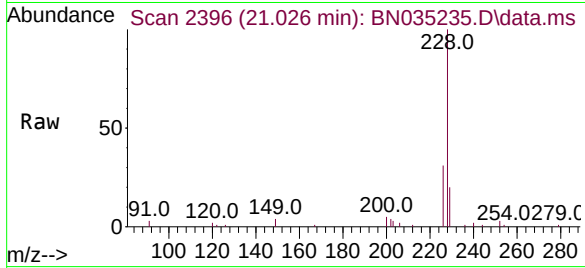
Tgt Ion:228 Resp: 11745
Ion Ratio Lower Upper
228 100
226 30.5 21.4 32.0
229 19.8 15.7 23.5





#33
Chrysene
Concen: 3.685 ng
RT: 21.026 min Scan# 21174
Delta R.T. -0.009 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

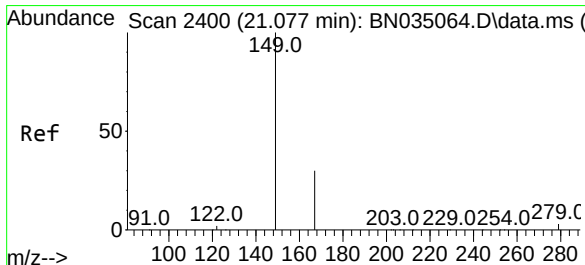
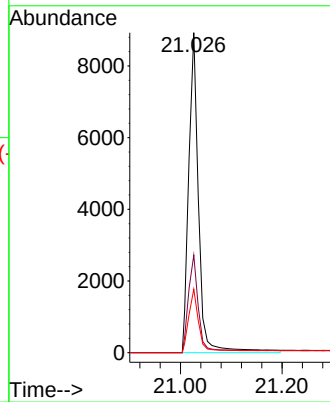
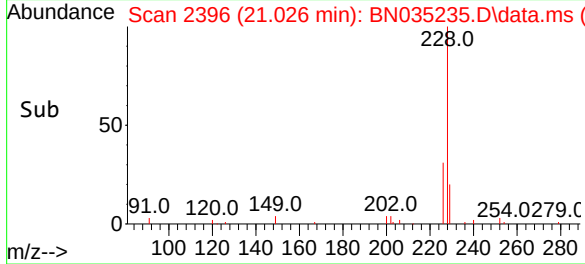
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:228 Resp: 1174
Ion Ratio Lower Upper
228 100
226 30.5 23.7 35.5
229 19.8 16.2 24.4

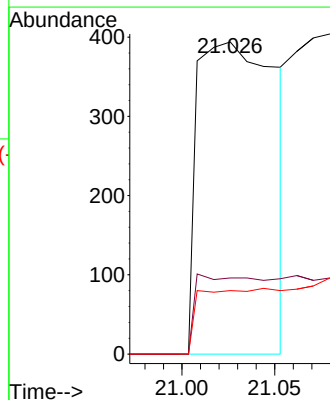
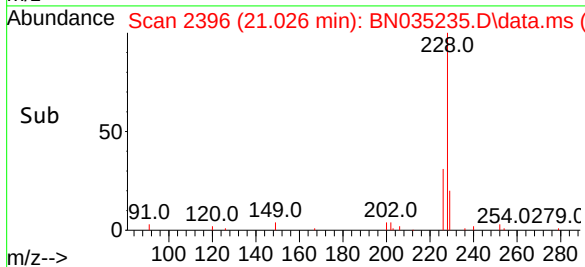
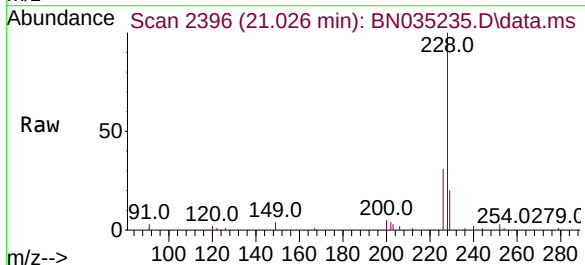
Manual Integrations
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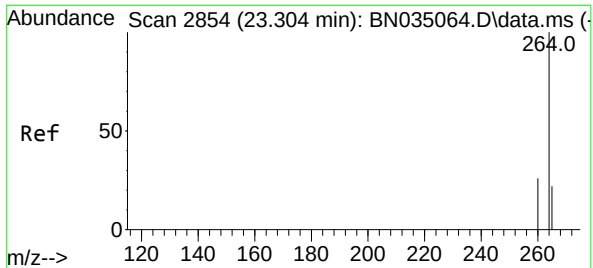
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.616 ng
RT: 21.026 min Scan# 2396
Delta R.T. -0.000 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

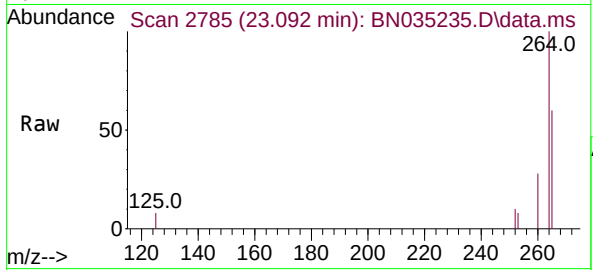
Tgt Ion:149 Resp: 1040
Ion Ratio Lower Upper
149 100
167 20.9 23.2 34.8#
279 0.0 3.2 4.8#





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.092 min Scan# 21
Delta R.T. -0.012 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

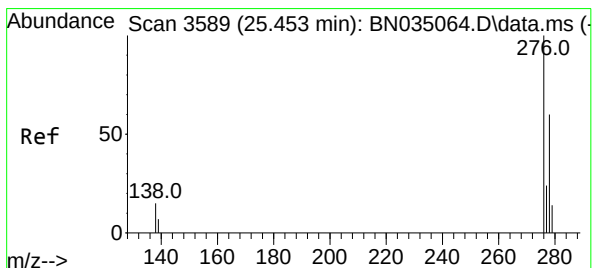
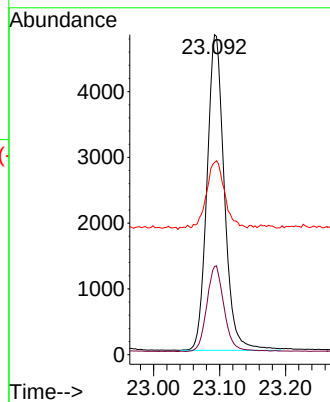
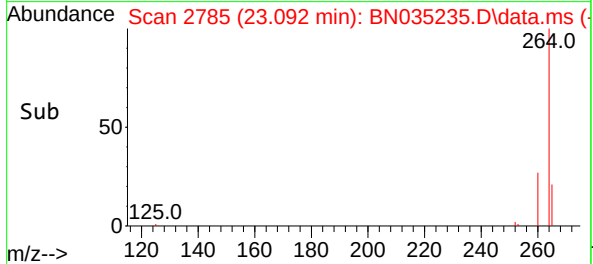
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:264 Resp: 8785
Ion Ratio Lower Upper
264 100
260 27.6 20.9 31.3
265 60.1 35.4 53.2

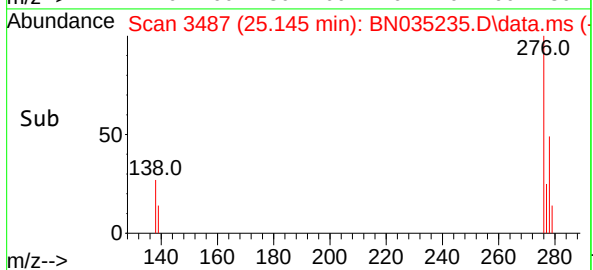
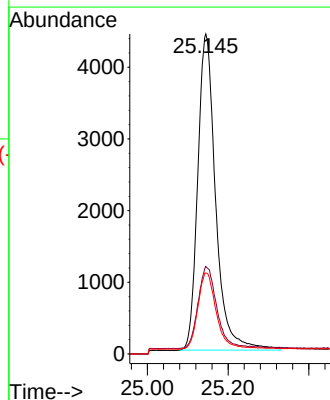
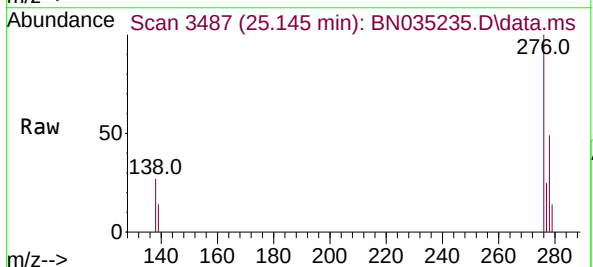
Manual Integrations
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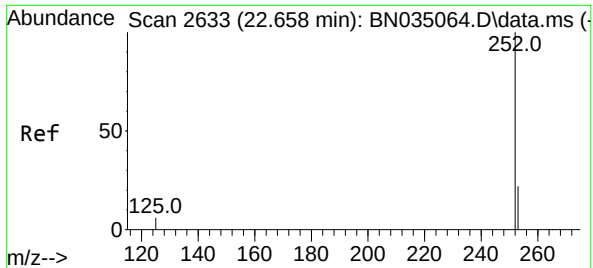
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.389 ng
RT: 25.145 min Scan# 3487
Delta R.T. -0.012 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

Tgt Ion:276 Resp: 13630
Ion Ratio Lower Upper
276 100
138 26.1 13.0 19.4#
277 23.9 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.391 ng

RT: 22.475 min Scan# 21

Delta R.T. -0.012 min

Lab File: BN035235.D

Acq: 21 Nov 2024 23:01

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion:252 Resp: 1155

Ion Ratio Lower Upper

252 100

253 24.8 19.3 28.9

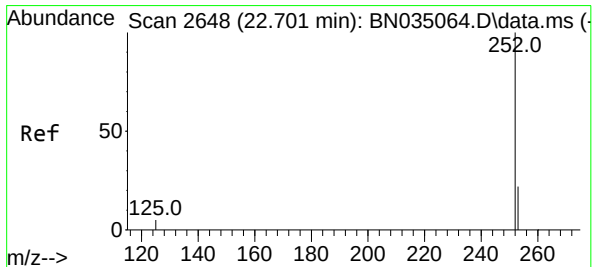
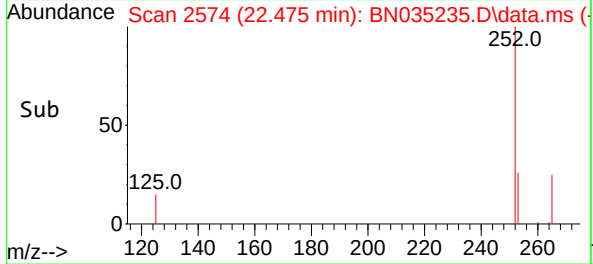
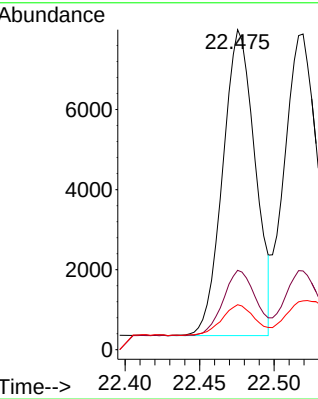
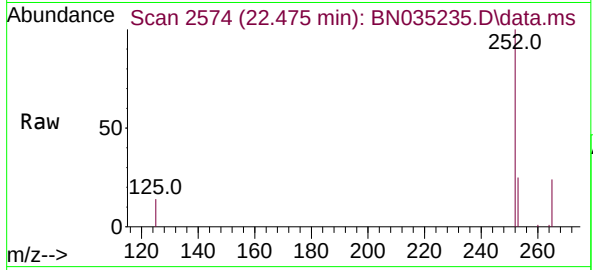
125 14.0 6.2 9.2

Manual Integrations

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Reviewed By :Yogesh Patel 11/22/2024

Supervised By :mohammad ahmed 11/22/2024



#38

Benzo(k)fluoranthene

Concen: 0.403 ng

RT: 22.519 min Scan# 2589

Delta R.T. -0.009 min

Lab File: BN035235.D

Acq: 21 Nov 2024 23:01

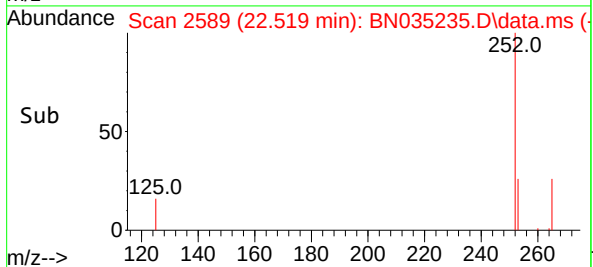
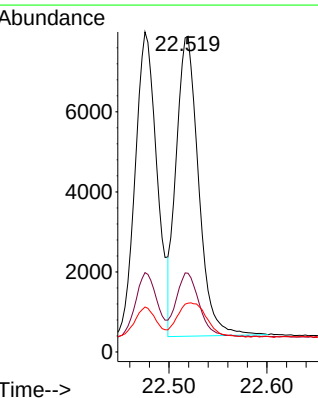
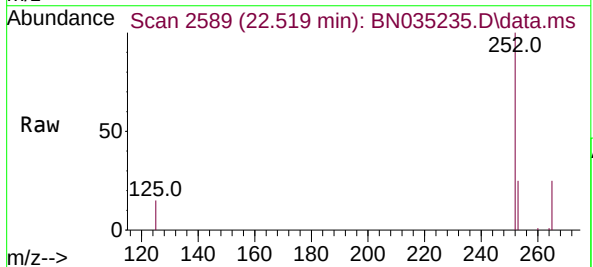
Tgt Ion:252 Resp: 11920

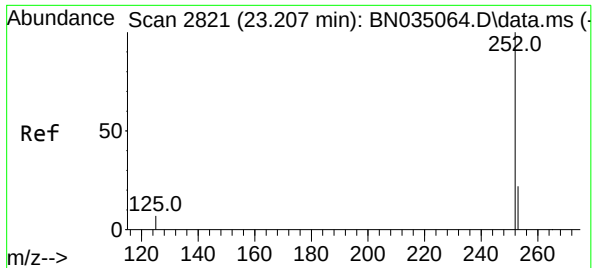
Ion Ratio Lower Upper

252 100

253 25.0 19.5 29.3

125 15.4 6.5 9.7#





#39

Benzo(a)pyrene

Concen: 0.396 ng

RT: 23.002 min Scan# 21

Delta R.T. -0.012 min

Lab File: BN035235.D

Acq: 21 Nov 2024 23:01

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion:252 Resp: 10290

Ion Ratio Lower Upper

252 100

253 26.4 20.1 30.1

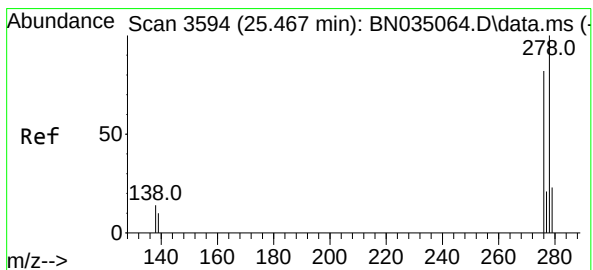
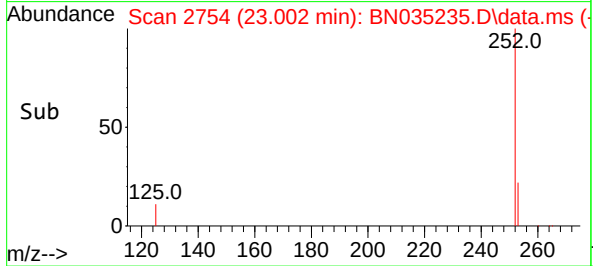
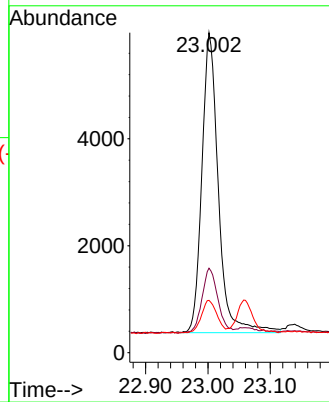
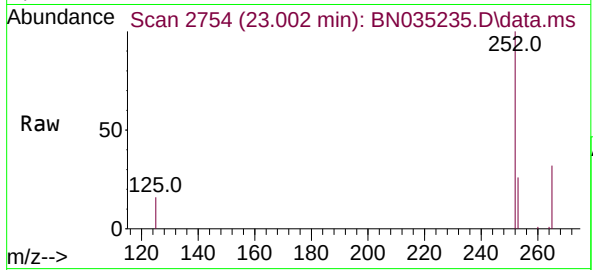
125 16.3 7.5 11.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/22/2024

Supervised By :mohammad ahmed 11/22/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.373 ng

RT: 25.162 min Scan# 3493

Delta R.T. -0.015 min

Lab File: BN035235.D

Acq: 21 Nov 2024 23:01

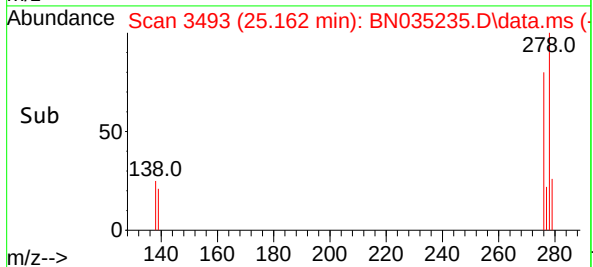
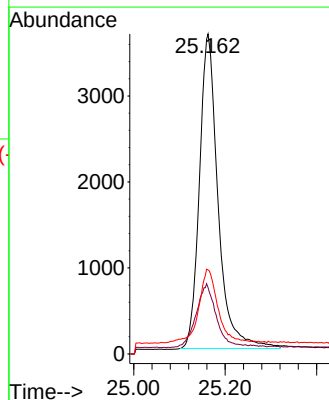
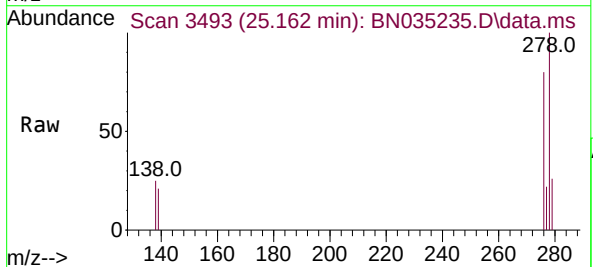
Tgt Ion:278 Resp: 10355

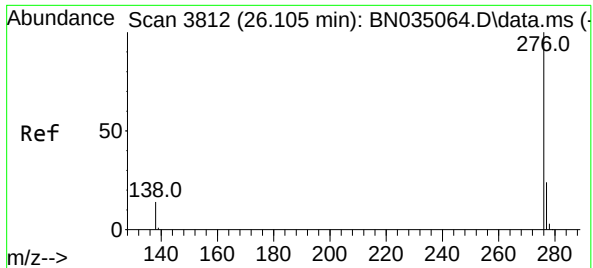
Ion Ratio Lower Upper

278 100

139 20.7 9.3 13.9

279 26.2 19.7 29.5





#41

Benzo(g,h,i)perylene

Concen: 0.382 ng

RT: 25.762 min Scan# 30

Delta R.T. -0.015 min

Lab File: BN035235.D

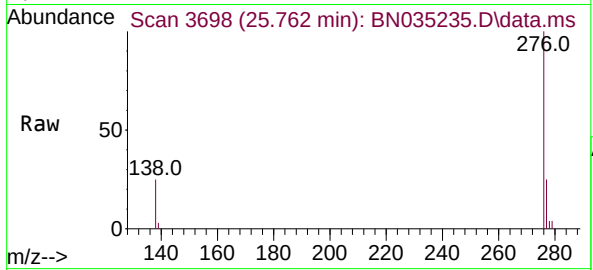
Acq: 21 Nov 2024 23:01

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



Tgt Ion:276 Resp: 11294

Ion Ratio Lower Upper

276 100

277 24.5 19.9 29.9

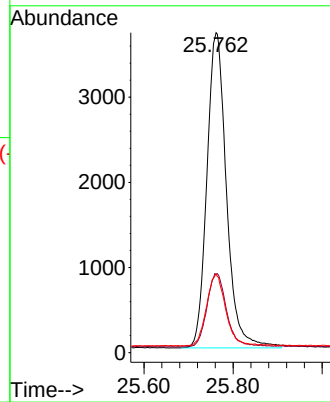
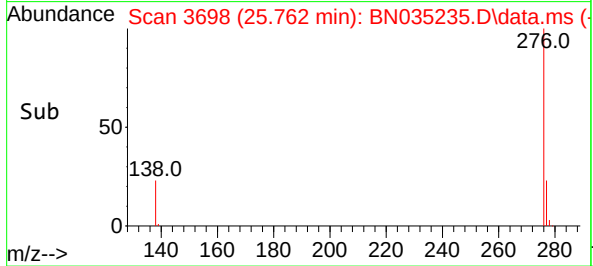
138 24.5 11.6 17.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/22/2024

Supervised By :mohammad ahmed 11/22/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112124\
 Data File : BN035235.D
 Acq On : 21 Nov 2024 23:01
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Nov 21 23:33:46 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 21 14:00:03 2024
 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	119	0.00
2	1,4-Dioxane	0.363	0.381	-5.0	136	0.00
3	n-Nitrosodimethylamine	0.339	0.297	12.4	109	0.00
4 S	2-Fluorophenol	1.015	1.087	-7.1	137	0.00
5 S	Phenol-d6	1.273	1.273	0.0	131	0.00
6	bis(2-Chloroethyl)ether	0.956	0.962	-0.6	129	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	112	0.00
8 S	Nitrobenzene-d5	0.348	0.189	45.7#	66	0.00
9	Naphthalene	1.044	1.023	2.0	117	-0.01
10	Hexachlorobutadiene	0.306	0.232	24.2	88	-0.01
11 SURR	2-Methylnaphthalene-d10	0.713	0.581	18.5	98	0.00
12	2-Methylnaphthalene	0.770	0.677	12.1	106	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	87	-0.01
14 S	2,4,6-Tribromophenol	0.289	0.242	16.3	88	0.00
15 S	2-Fluorobiphenyl	1.624	0.255	84.3#	15#	0.00
16	Acenaphthylene	1.709	1.674	2.0	98	-0.01
17	Acenaphthene	1.120	1.072	4.3	93	-0.01
18	Fluorene	1.648	1.426	13.5	85	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	72	0.00
20	4,6-Dinitro-2-methylphenol	0.083	0.033	60.2#	33#	0.00
21	4-Bromophenyl-phenylether	0.255	0.238	6.7	70	0.00
22	Hexachlorobenzene	0.264	0.275	-4.2	79	-0.01
23	Atrazine	0.229	0.129	43.7#	43#	0.00
24	Pentachlorophenol	0.124	0.122	1.6	85	0.00
25	Phenanthrene	1.053	1.062	-0.9	77	-0.01
26	Anthracene	0.967	0.973	-0.6	77	0.00
27 SURR	Fluoranthene-d10	1.225	0.987	19.4	61	0.00
28	Fluoranthene	1.448	1.276	11.9	67	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	6#	0.00
30	Pyrene	1.332	13.868	-941.1#	67	0.00
31 S	Terphenyl-d14	0.839	6.857	-717.3#	52	0.00
32	Benzo(a)anthracene	1.393	12.711	-812.5#	59	0.00
33	Chrysene	1.380	12.711	-821.1#	59	0.00
34	Bis(2-ethylhexyl)phthalate	0.731	1.126	-54.0#	11#	0.00
35 I	Perylene-d12	1.000	1.000	0.0	51	-0.01
36	Indeno(1,2,3-cd)pyrene	1.596	1.552	2.8	52	-0.01
37	Benzo(b)fluoranthene	1.346	1.315	2.3	53	-0.01
38	Benzo(k)fluoranthene	1.347	1.357	-0.7	54	0.00
39 C	Benzo(a)pyrene	1.184	1.172	1.0	54	-0.01
40	Dibenzo(a,h)anthracene	1.264	1.179	6.7	50	-0.01
41	Benzo(g,h,i)perylene	1.345	1.286	4.4	51	-0.01

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112124\
 Data File : BN035235.D
 Acq On : 21 Nov 2024 23:01
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Nov 21 23:33:46 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 21 14:00:03 2024
 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	119	0.00
2	1,4-Dioxane	0.400	0.419	-4.7	136	0.00
3	n-Nitrosodimethylamine	0.400	0.351	12.3	109	0.00
4 S	2-Fluorophenol	0.400	0.428	-7.0	137	0.00
5 S	Phenol-d6	0.400	0.400	0.0	131	0.00
6	bis(2-Chloroethyl)ether	0.400	0.403	-0.8	129	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	112	0.00
8 S	Nitrobenzene-d5	0.400	0.217	45.8#	66	0.00
9	Naphthalene	0.400	0.392	2.0	117	-0.01
10	Hexachlorobutadiene	0.400	0.303	24.3	88	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.326	18.5	98	0.00
12	2-Methylnaphthalene	0.400	0.352	12.0	106	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	87	-0.01
14 S	2,4,6-Tribromophenol	0.400	0.336	16.0	88	0.00
15 S	2-Fluorobiphenyl	0.400	0.063	84.3#	15	0.00
16	Acenaphthylene	0.400	0.392	2.0	98	-0.01
17	Acenaphthene	0.400	0.383	4.3	93	-0.01
18	Fluorene	0.400	0.346	13.5	85	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	72	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.158	60.5#	33	0.00
21	4-Bromophenyl-phenylether	0.400	0.373	6.8	70	0.00
22	Hexachlorobenzene	0.400	0.416	-4.0	79	-0.01
23	Atrazine	0.400	0.225	43.8#	43	0.00
24	Pentachlorophenol	0.400	0.393	1.8	85	0.00
25	Phenanthrene	0.400	0.403	-0.8	77	-0.01
26	Anthracene	0.400	0.403	-0.8	77	0.00
27 SURR	Fluoranthene-d10	0.400	0.322	19.5	61	0.00
28	Fluoranthene	0.400	0.353	11.8	67	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	6	0.00
30	Pyrene	0.400	4.164	-941.0#	67	0.00
31 S	Terphenyl-d14	0.400	3.268	-717.0#	52	0.00
32	Benzo(a)anthracene	0.400	3.650	-812.5#	59	0.00
33	Chrysene	0.400	3.685	-821.3#	59	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.616	-54.0#	11	0.00
35 I	Perylene-d12	0.400	0.400	0.0	51	-0.01
36	Indeno(1,2,3-cd)pyrene	0.400	0.389	2.8	52	-0.01
37	Benzo(b)fluoranthene	0.400	0.391	2.3	53	-0.01
38	Benzo(k)fluoranthene	0.400	0.403	-0.8	54	0.00
39 C	Benzo(a)pyrene	0.400	0.396	1.0	54	-0.01
40	Dibenzo(a,h)anthracene	0.400	0.373	6.8	50	-0.01
41	Benzo(g,h,i)perylene	0.400	0.382	4.5	51	-0.01

(#) = Out of Range

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



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P4934 SAS No.: P4934 SDG No.: P4934

Instrument ID: BNA_N Calibration Date/Time: 11/25/2024 19:20

Lab File ID: BN035291.D Init. Calib. Date(s): 11/25/2024 11/25/2024

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 10:16 13:52

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.560	0.573		2.3	50.0
Fluoranthene-d10	1.070	0.869		-18.8	50.0
2-Fluorophenol	0.756	0.966		27.8	50.0
Phenol-d6	1.056	1.244		17.8	50.0
Nitrobenzene-d5	0.324	0.194		-40.1	50.0
2-Fluorobiphenyl	0.221	0.144		-34.8	50.0
2,4,6-Tribromophenol	0.204	0.172		-15.7	50.0
Terphenyl-d14	7.392	8.425		14.0	50.0
1,4-Dioxane	0.288	0.380		31.9	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
 Data File : BN035291.D
 Acq On : 25 Nov 2024 19:20
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 67 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/27/2024
 Supervised By :mohammad ahmed 11/27/2024

Quant Time: Nov 26 03:32:31 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 26 02:36:08 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.315	152	3803	0.400	ng	0.00
7) Naphthalene-d8	10.063	136	9055	0.400	ng	# 0.00
13) Acenaphthene-d10	13.965	164	5224	0.400	ng	#-0.01
19) Phenanthrene-d10	16.734	188	9941	0.400	ng	0.00
29) Chrysene-d12	21.008	240	677	0.400	ng	# 0.00
35) Perylene-d12	23.081	264	7069	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.968	112	3673	0.511	ng	0.00
5) Phenol-d6	6.513	99	4730	0.471	ng	0.00
8) Nitrobenzene-d5	8.450	82	1755m	0.239	ng	0.00
11) 2-Methylnaphthalene-d10	11.663	152	5192	0.410	ng	0.00
14) 2,4,6-Tribromophenol	15.484	330	900	0.338	ng	0.00
15) 2-Fluorobiphenyl	12.608	172	751	0.260	ng	0.00
27) Fluoranthene-d10	18.792	212	8641	0.325	ng	0.00
31) Terphenyl-d14	19.419	244	5704	0.456	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.010	88	1445	0.529	ng	# 70
3) n-Nitrosodimethylamine	3.299	42	1020	0.360	ng	# 66
6) bis(2-Chloroethyl)ether	6.766	93	3708	0.439	ng	98
9) Naphthalene	10.105	128	9734	0.387	ng	99
10) Hexachlorobutadiene	10.404	225	2352	0.333	ng	# 100
12) 2-Methylnaphthalene	11.742	142	6373	0.388	ng	99
16) Acenaphthylene	13.677	152	8730	0.332	ng	100
17) Acenaphthene	14.030	154	5862	0.354	ng	# 87
18) Fluorene	15.035	166	7622	0.328	ng	98
20) 4,6-Dinitro-2-methylph...	15.131	198	296	0.395	ng	93
21) 4-Bromophenyl-phenylether	15.939	248	2578	0.409	ng	97
22) Hexachlorobenzene	16.051	284	3153	0.349	ng	98
23) Atrazine	16.237	200	1035	0.390	ng	97
24) Pentachlorophenol	16.399	266	792	0.366	ng	96
25) Phenanthrene	16.771	178	10947	0.358	ng	100
26) Anthracene	16.870	178	9149	0.349	ng	100
28) Fluoranthene	18.820	202	11418	0.296	ng	99
30) Pyrene	19.187	202	11057	0.449	ng	100
32) Benzo(a)anthracene	21.017	228	9935	0.422	ng	100
33) Chrysene	21.017	228	9935	0.422	ng	100
34) Bis(2-ethylhexyl)phtha...	21.017	149	560	0.432	ng	# 100
36) Indeno(1,2,3-cd)pyrene	25.121	276	11395	0.394	ng	98
37) Benzo(b)fluoranthene	22.464	252	9613	0.313	ng	98
38) Benzo(k)fluoranthene	22.505	252	10650	0.328	ng	98
39) Benzo(a)pyrene	22.987	252	8220	0.350	ng	97
40) Dibenzo(a,h)anthracene	25.139	278	8732	0.399	ng	95
41) Benzo(g,h,i)perylene	25.741	276	9930	0.392	ng	97

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

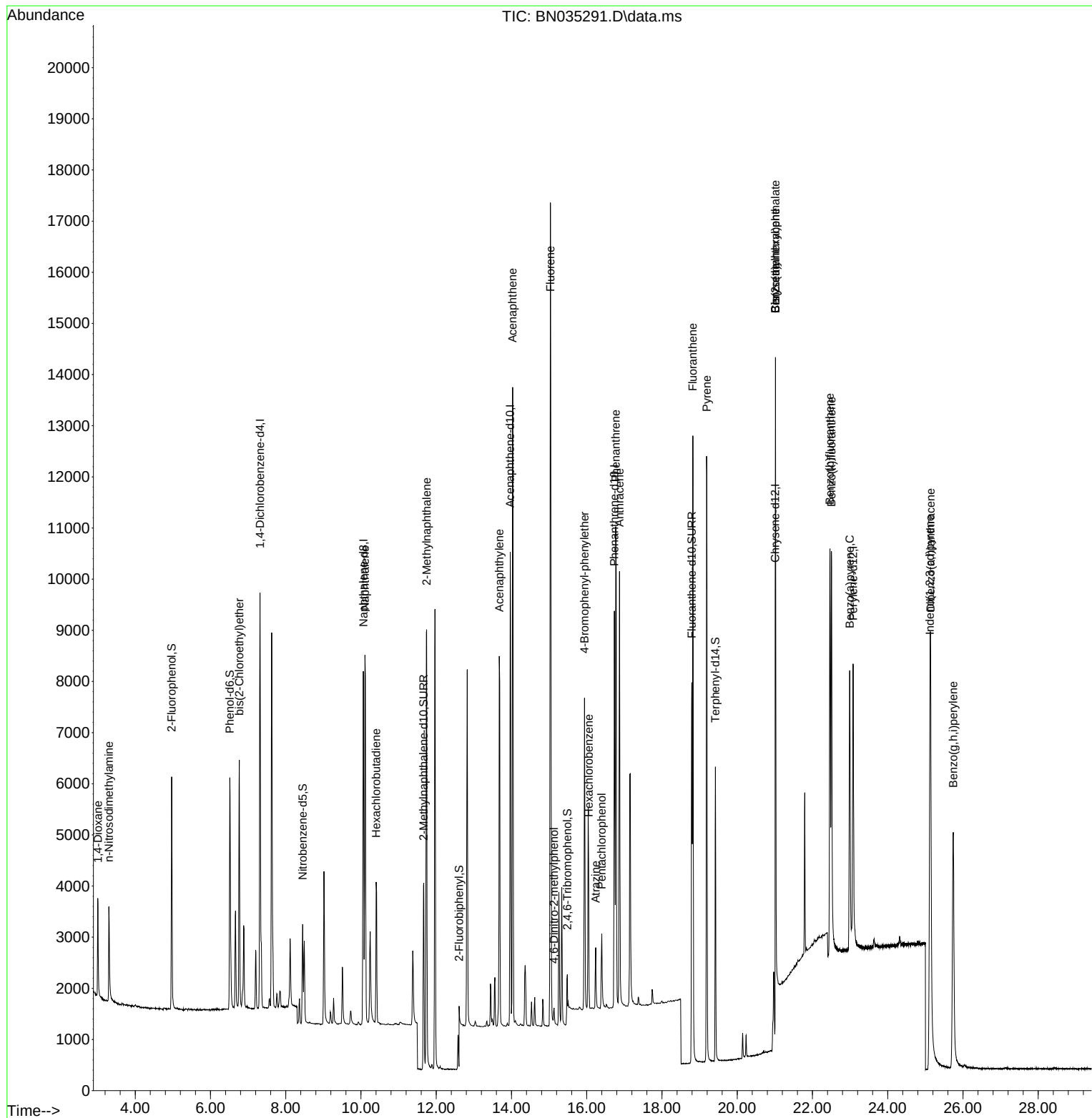
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 Data File : BN035291.D
 Acq On : 25 Nov 2024 19:20
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 67 Sample Multiplier: 1

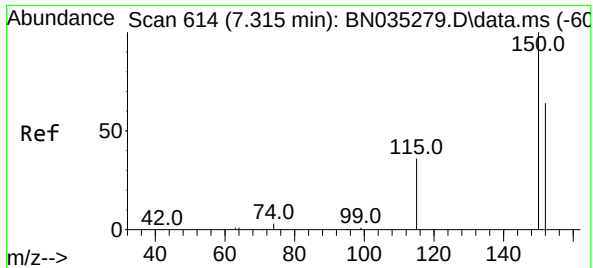
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/27/2024
 Supervised By :mohammad ahmed 11/27/2024

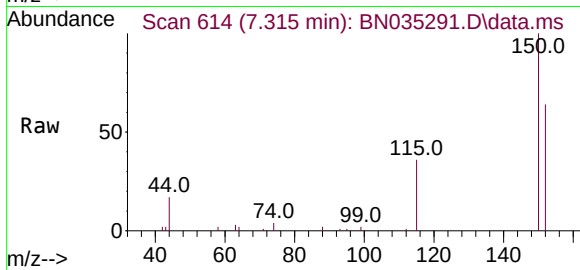
Quant Time: Nov 26 03:32:31 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 26 02:36:08 2024
 Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.315 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035291.D
Acq: 25 Nov 2024 19:20

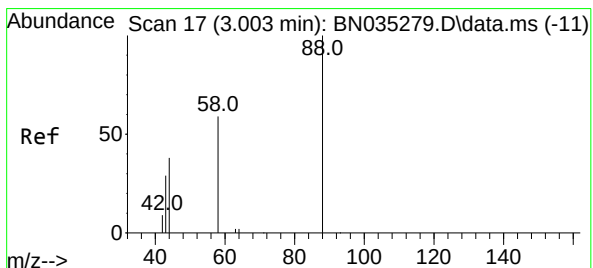
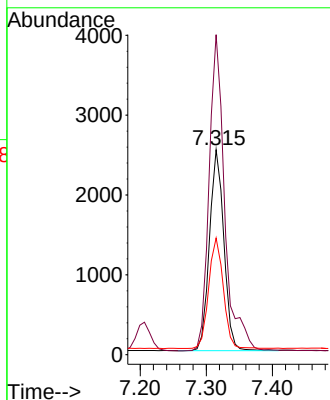
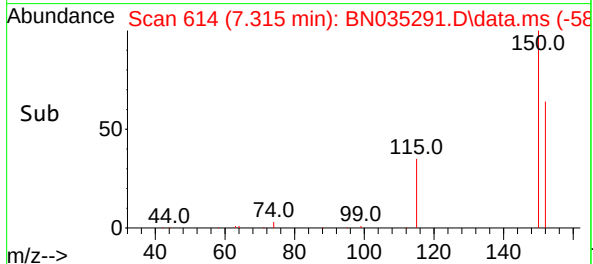
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:152 Resp: 380
Ion Ratio Lower Upper
152 100
150 156.1 124.5 186.7
115 57.0 47.8 71.8

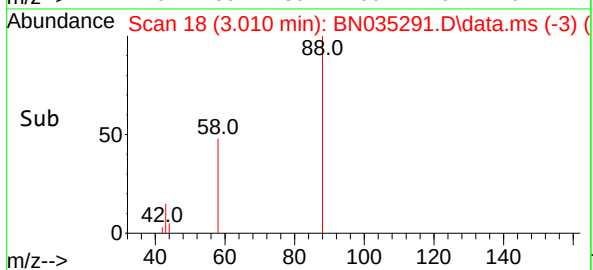
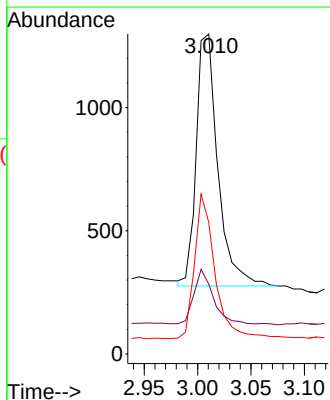
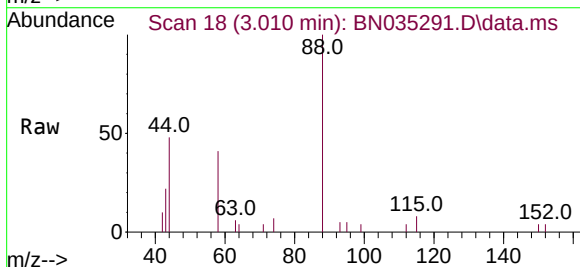
Manual Integrations
APPROVED

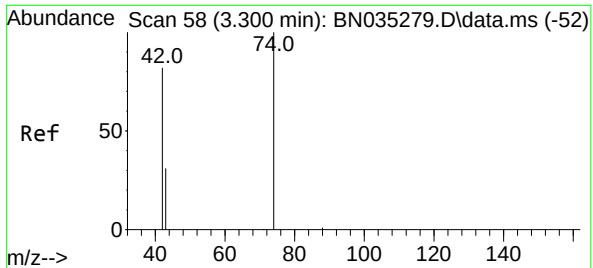
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#2
1,4-Dioxane
Concen: 0.529 ng
RT: 3.010 min Scan# 18
Delta R.T. 0.007 min
Lab File: BN035291.D
Acq: 25 Nov 2024 19:20

Tgt Ion: 88 Resp: 1445
Ion Ratio Lower Upper
88 100
43 20.5 48.1 72.1#
58 53.4 46.9 70.3





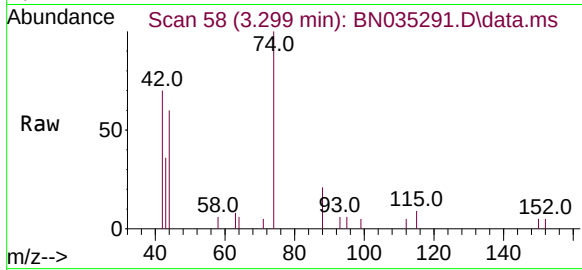
#3
n-Nitrosodimethylamine
Concen: 0.360 ng
RT: 3.299 min Scan# 58
Delta R.T. -0.001 min
Lab File: BN035291.D
Acq: 25 Nov 2024 19:20

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



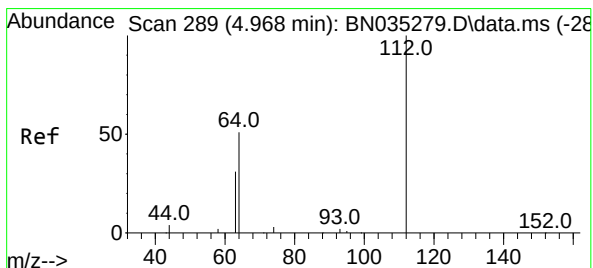
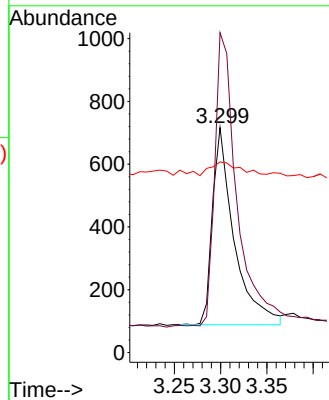
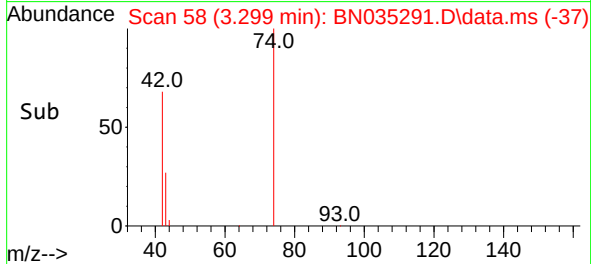
Tgt Ion: 42 Resp: 1020
Ion Ratio Lower Upper
42 100
74 160.9 102.7 154.1
44 9.3 34.1 51.1

Manual Integrations

APPROVED

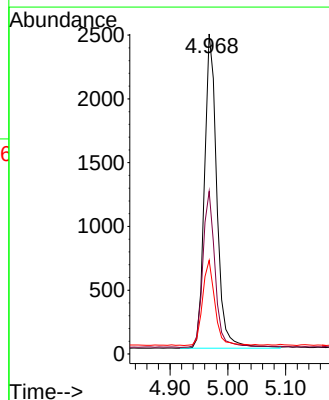
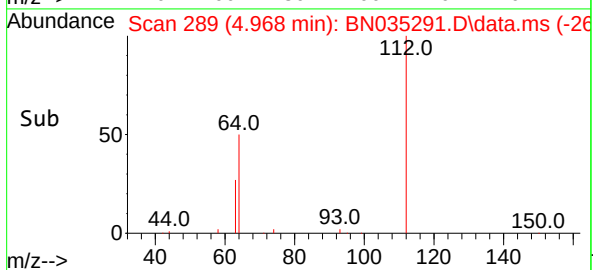
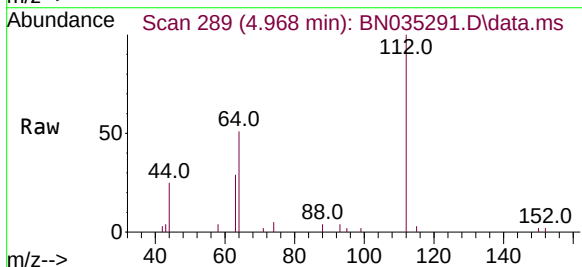
Reviewed By :Yogesh Patel 11/27/2024

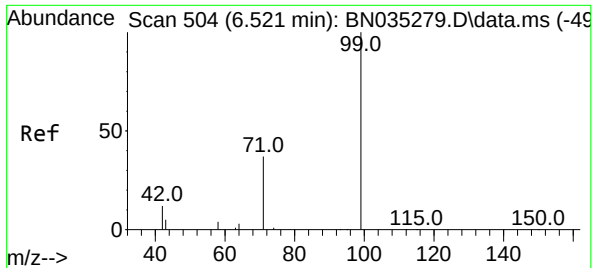
Supervised By :mohammad ahmed 11/27/2024



#4
2-Fluorophenol
Concen: 0.511 ng
RT: 4.968 min Scan# 289
Delta R.T. -0.000 min
Lab File: BN035291.D
Acq: 25 Nov 2024 19:20

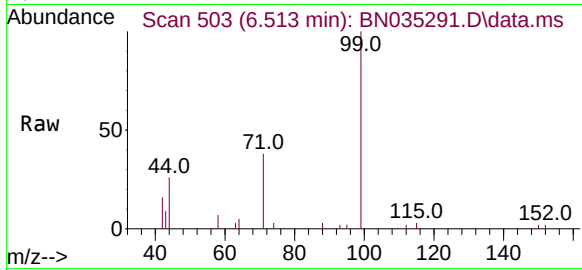
Tgt Ion:112 Resp: 3673
Ion Ratio Lower Upper
112 100
64 49.8 40.4 60.6
63 27.0 23.8 35.8





#5
Phenol-d6
Concen: 0.471 ng
RT: 6.513 min Scan# 504
Delta R.T. -0.007 min
Lab File: BN035291.D
Acq: 25 Nov 2024 19:20

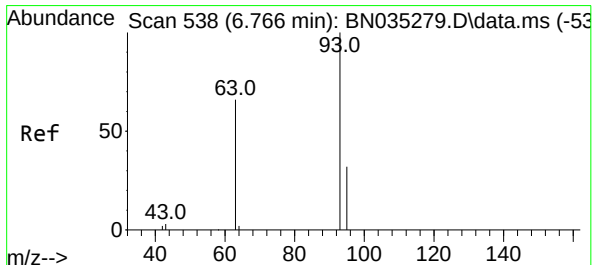
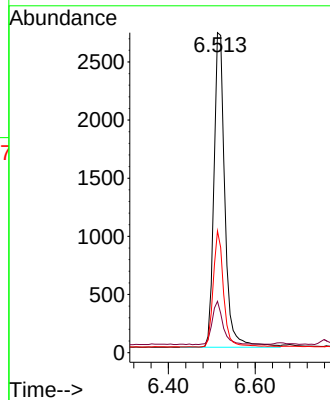
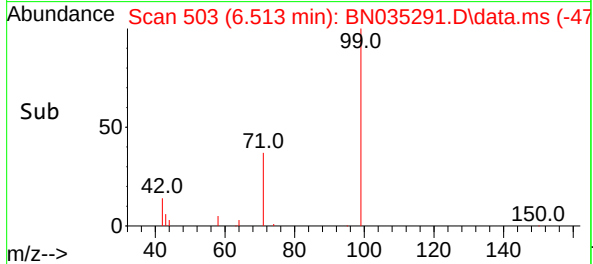
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion: 99 Resp: 4730
Ion Ratio Lower Upper
99 100
42 13.7 12.8 19.2
71 35.5 31.4 47.2

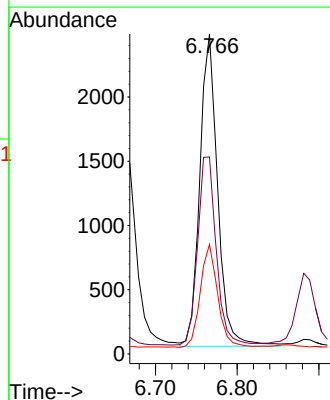
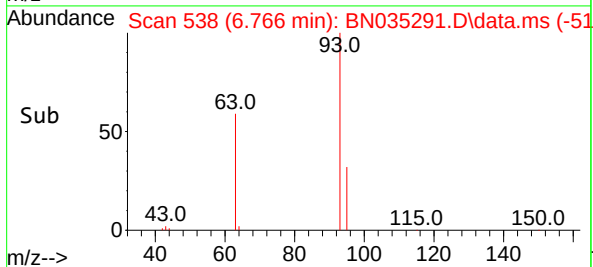
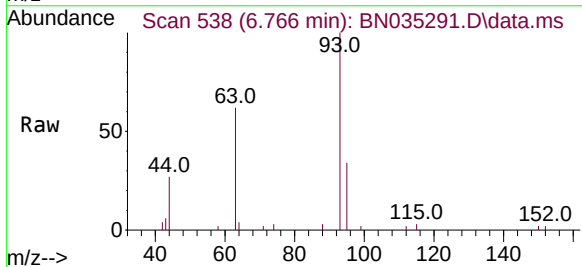
Manual Integrations
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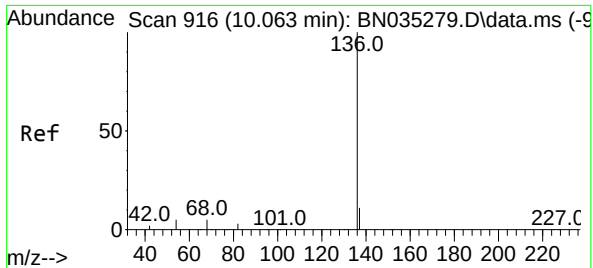
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.439 ng
RT: 6.766 min Scan# 538
Delta R.T. -0.000 min
Lab File: BN035291.D
Acq: 25 Nov 2024 19:20

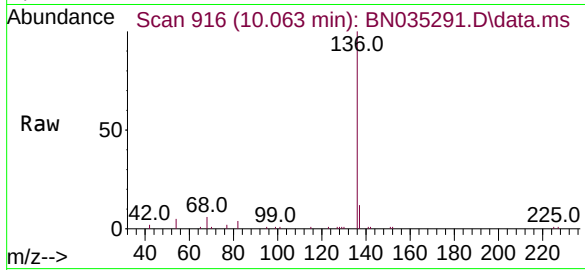
Tgt Ion: 93 Resp: 3708
Ion Ratio Lower Upper
93 100
63 62.8 52.3 78.5
95 31.8 25.5 38.3





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.063 min Scan# 916
Delta R.T. -0.000 min
Lab File: BN035291.D
Acq: 25 Nov 2024 19:20

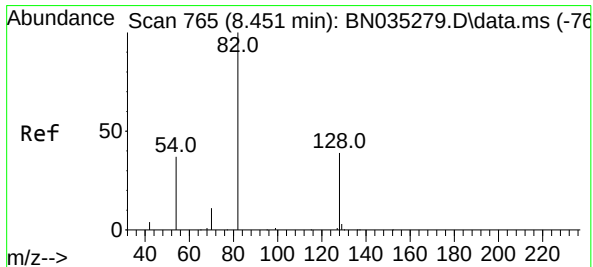
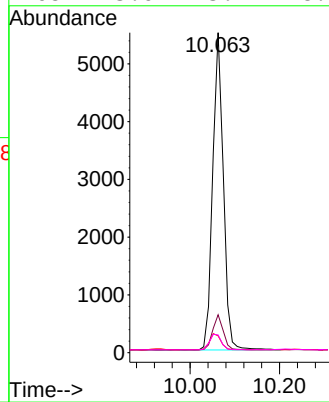
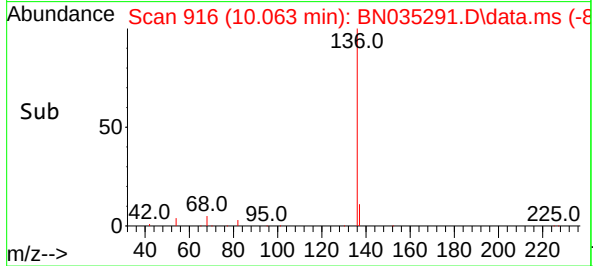
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion: 136 Resp: 905
Ion Ratio Lower Upper
136 100
137 11.8 9.7 14.5
54 5.3 5.3 7.9
68 5.6 5.9 8.9#

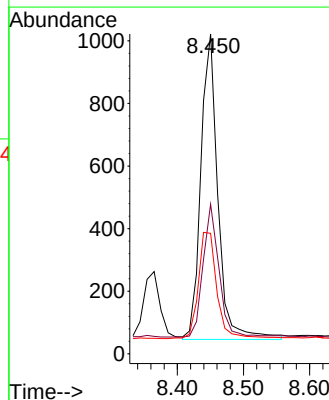
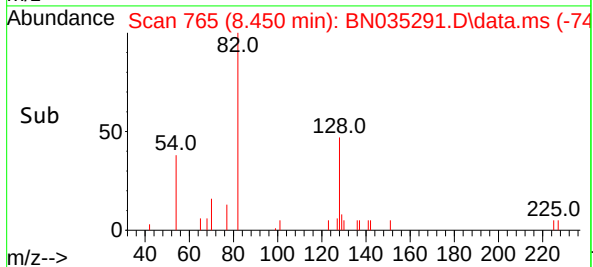
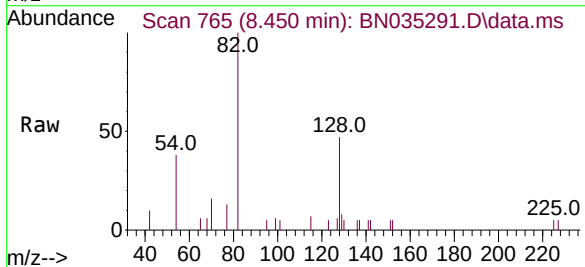
Manual Integrations
APPROVED

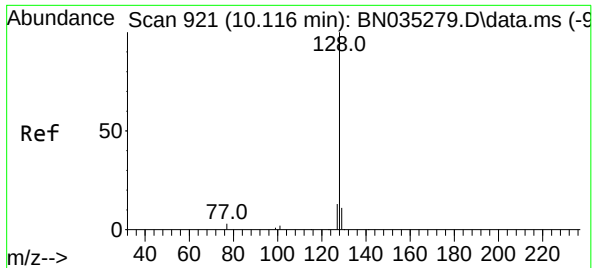
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#8
Nitrobenzene-d5
Concen: 0.239 ng m
RT: 8.450 min Scan# 765
Delta R.T. -0.000 min
Lab File: BN035291.D
Acq: 25 Nov 2024 19:20

Tgt Ion: 82 Resp: 1755
Ion Ratio Lower Upper
82 100
128 46.8 33.0 49.4
54 37.7 33.3 49.9





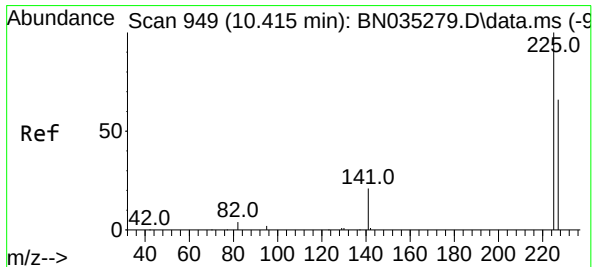
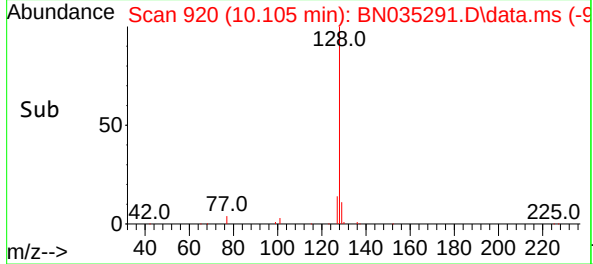
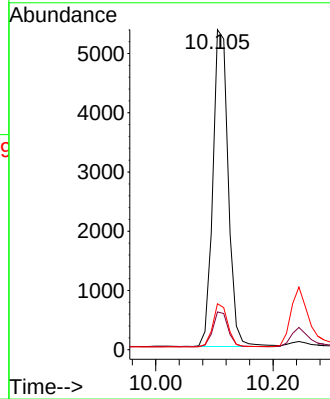
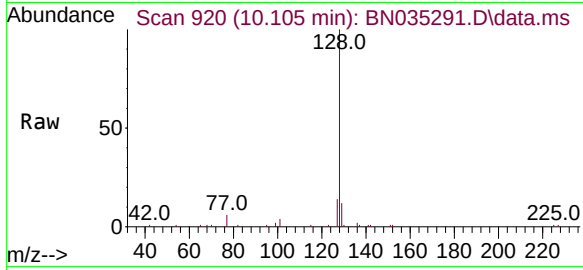
#9
Naphthalene
Concen: 0.387 ng
RT: 10.105 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035291.D
Acq: 25 Nov 2024 19:20

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:128 Resp: 9734
Ion Ratio Lower Upper
128 100
129 11.8 9.6 14.4
127 14.4 11.3 16.9

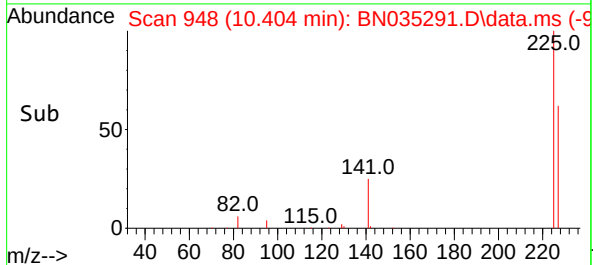
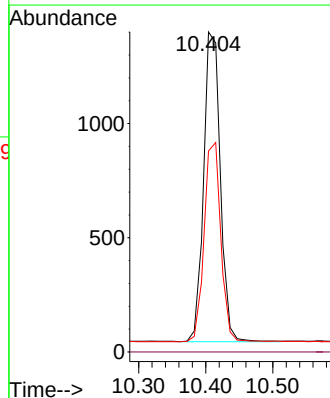
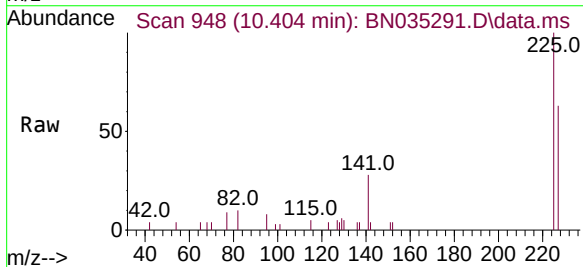
Manual Integrations
APPROVED

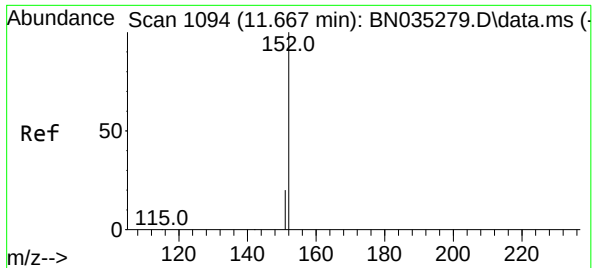
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#10
Hexachlorobutadiene
Concen: 0.333 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.011 min
Lab File: BN035291.D
Acq: 25 Nov 2024 19:20

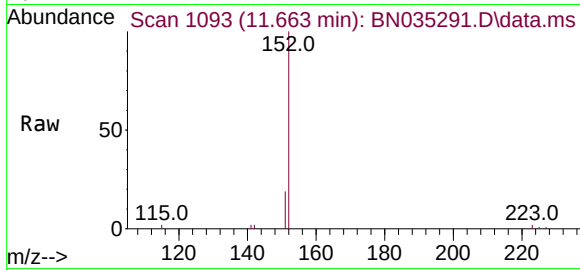
Tgt Ion:225 Resp: 2352
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.2 51.3 76.9





#11
2-Methylnaphthalene-d10
Concen: 0.410 ng
RT: 11.663 min Scan# 1094
Delta R.T. -0.004 min
Lab File: BN035291.D
Acq: 25 Nov 2024 19:20

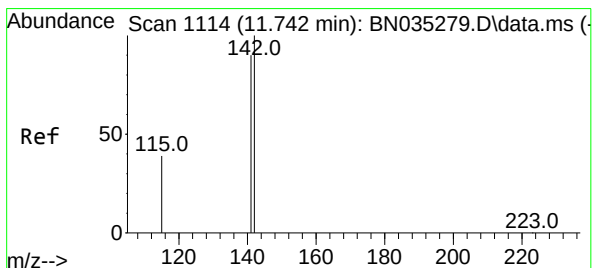
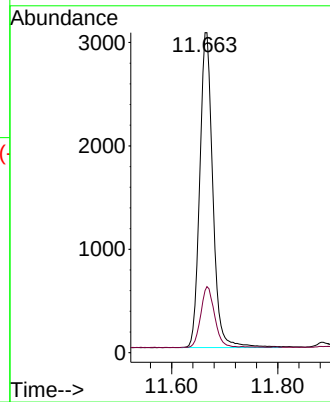
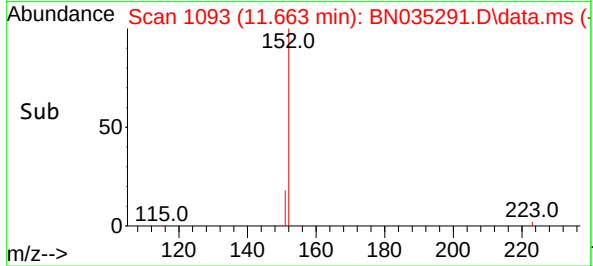
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:152 Resp: 5192
Ion Ratio Lower Upper
152 100
151 20.7 17.2 25.8

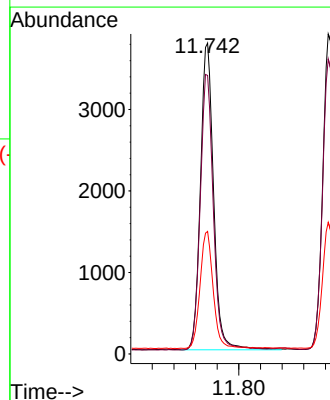
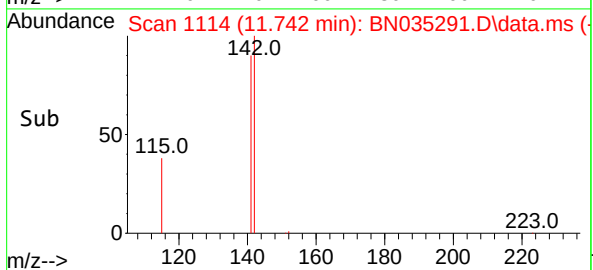
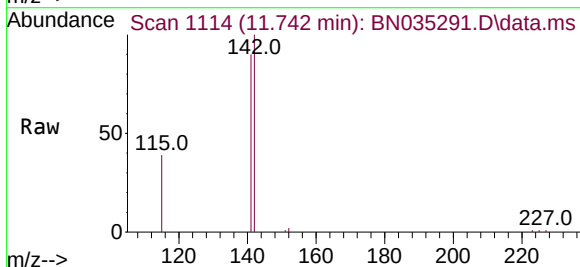
Manual Integrations
APPROVED

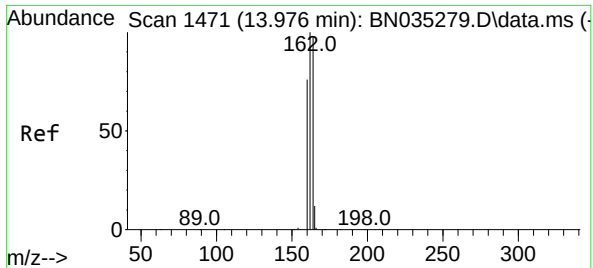
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#12
2-Methylnaphthalene
Concen: 0.388 ng
RT: 11.742 min Scan# 1114
Delta R.T. 0.000 min
Lab File: BN035291.D
Acq: 25 Nov 2024 19:20

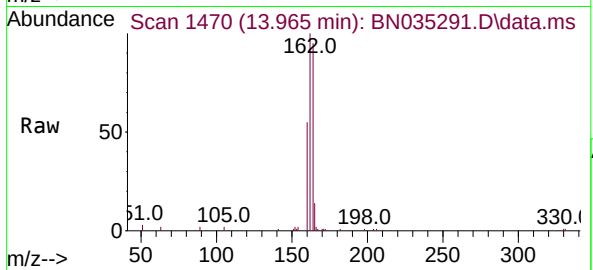
Tgt Ion:142 Resp: 6373
Ion Ratio Lower Upper
142 100
141 89.6 71.8 107.8
115 39.4 32.6 49.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.965 min Scan# 1471
Delta R.T. -0.011 min
Lab File: BN035291.D
Acq: 25 Nov 2024 19:20

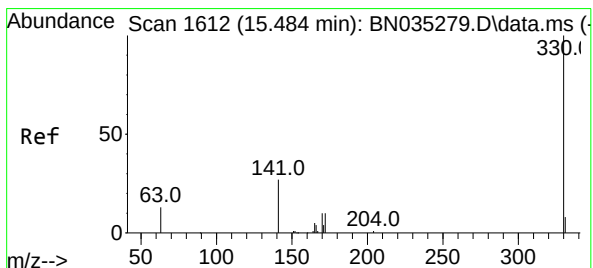
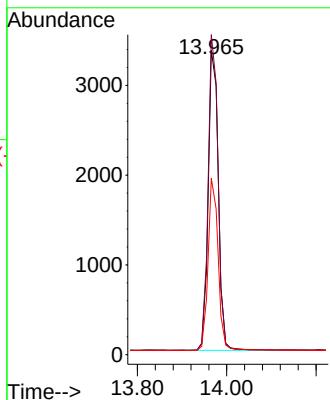
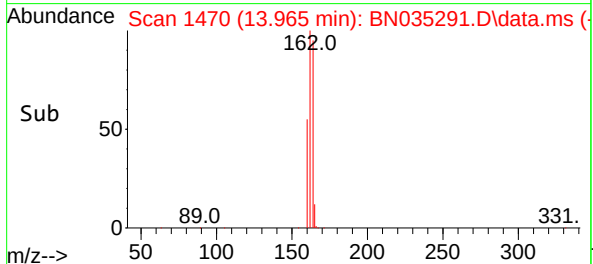
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:164 Resp: 5224
Ion Ratio Lower Upper
164 100
162 105.1 82.0 123.0
160 57.9 63.0 94.4

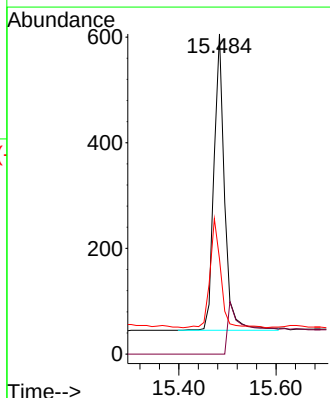
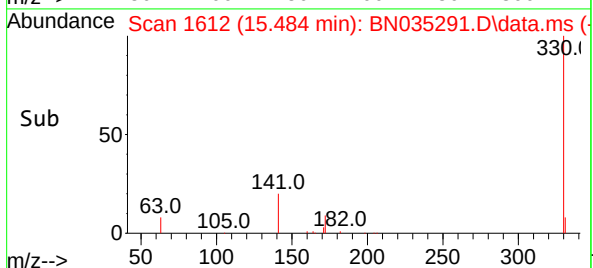
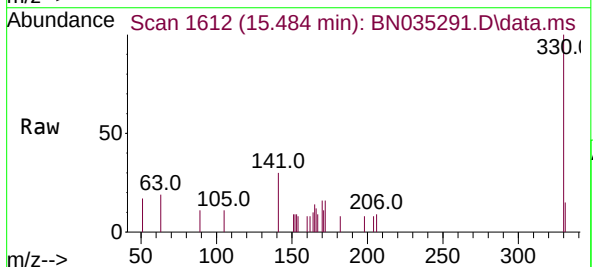
Manual Integrations
APPROVED

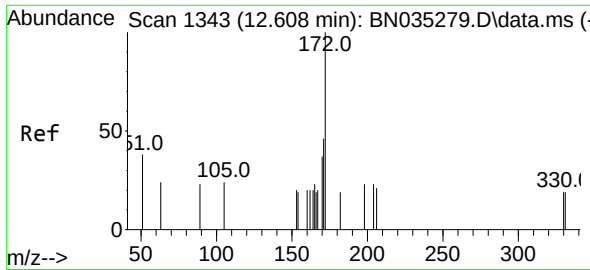
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#14
2,4,6-Tribromophenol
Concen: 0.338 ng
RT: 15.484 min Scan# 1612
Delta R.T. -0.000 min
Lab File: BN035291.D
Acq: 25 Nov 2024 19:20

Tgt Ion:330 Resp: 900
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 37.0 32.4 48.6





#15
2-Fluorobiphenyl
Concen: 0.260 ng
RT: 12.608 min Scan# 1343
Delta R.T. -0.000 min
Lab File: BN035291.D
Acq: 25 Nov 2024 19:20

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

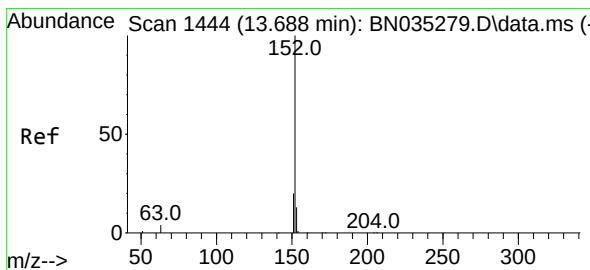
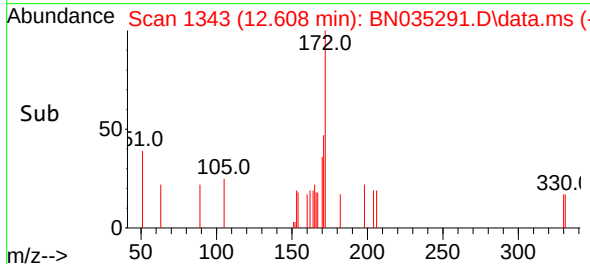
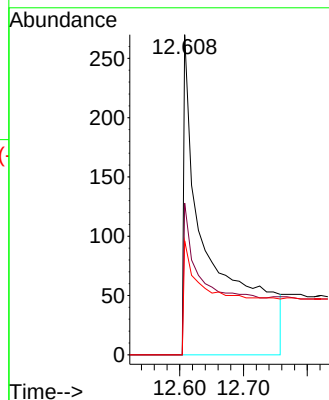
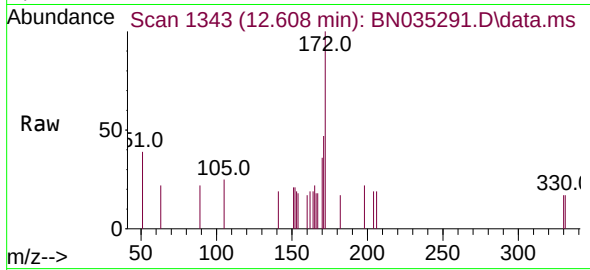
Tgt Ion	Ratio	Lower	Upper
172	100		
171	47.4	36.6	55.0
170	35.6	29.7	44.5

Manual Integrations

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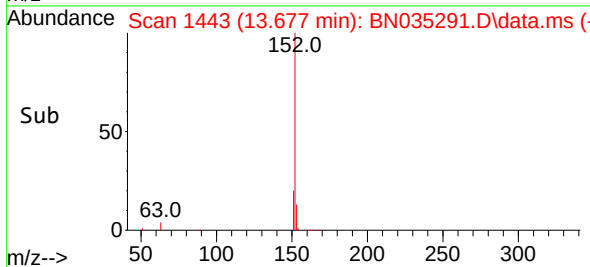
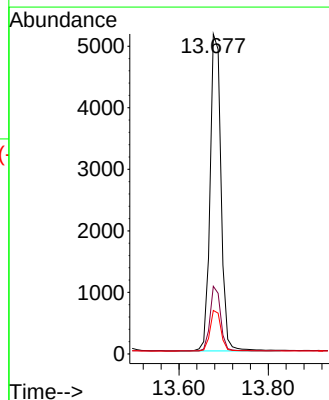
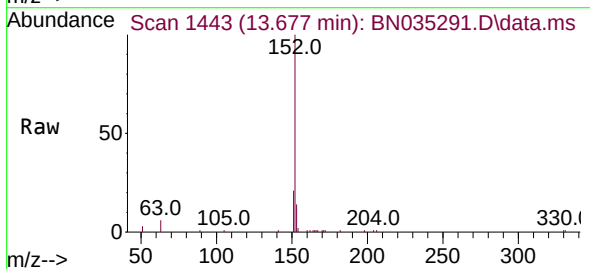
Reviewed By :Yogesh Patel 11/27/2024

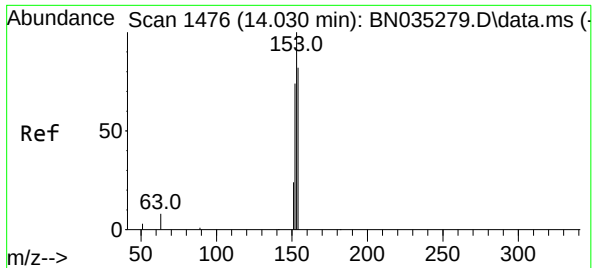
Supervised By :mohammad ahmed 11/27/2024



#16
Acenaphthylene
Concen: 0.332 ng
RT: 13.677 min Scan# 1443
Delta R.T. -0.011 min
Lab File: BN035291.D
Acq: 25 Nov 2024 19:20

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.8	15.9	23.9
153	12.8	10.2	15.4





#17
Acenaphthene
Concen: 0.354 ng
RT: 14.030 min Scan# 1476
Delta R.T. -0.000 min
Lab File: BN035291.D
Acq: 25 Nov 2024 19:20

Instrument :

BNA_N

ClientSampleId :

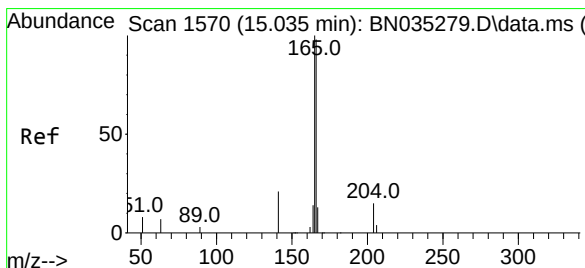
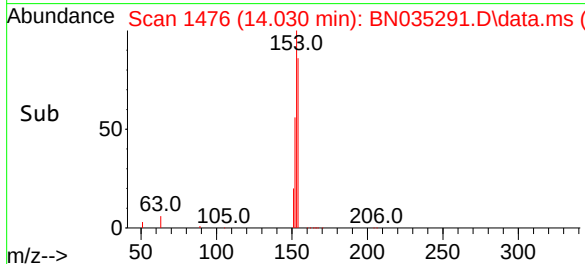
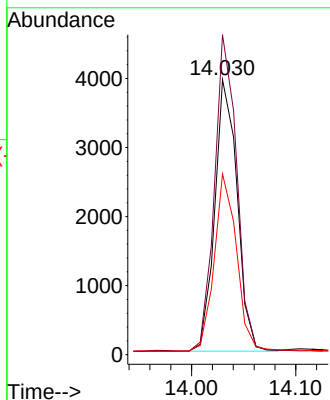
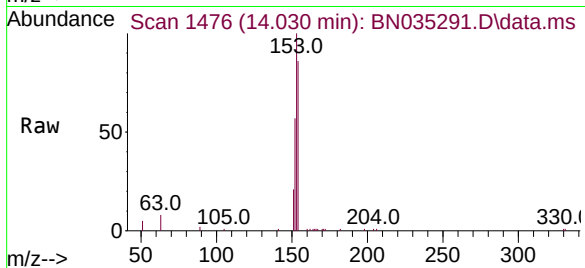
SSTDCCC0.4EC

Tgt Ion	Ratio	Lower	Upper
154	100		
153	116.4	96.1	144.1
152	65.4	72.2	108.2

Manual Integrations

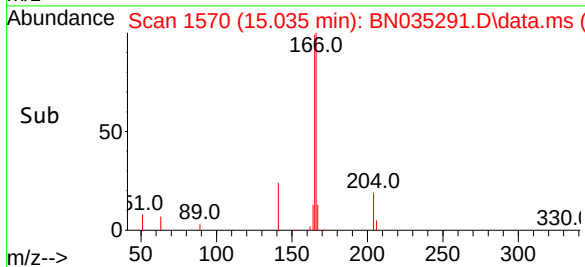
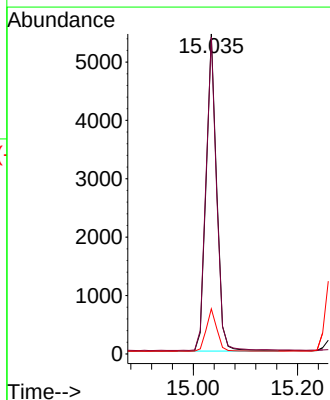
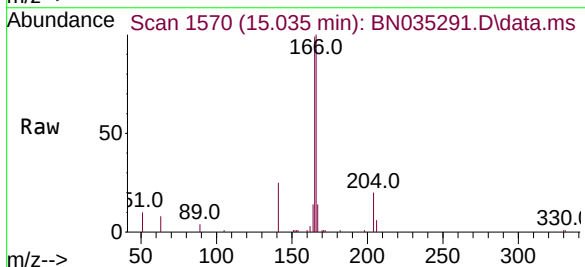
APPROVED

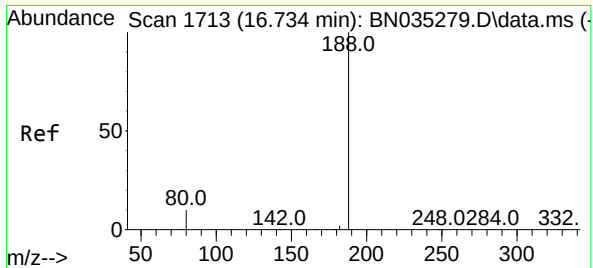
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#18
Fluorene
Concen: 0.328 ng
RT: 15.035 min Scan# 1570
Delta R.T. -0.000 min
Lab File: BN035291.D
Acq: 25 Nov 2024 19:20

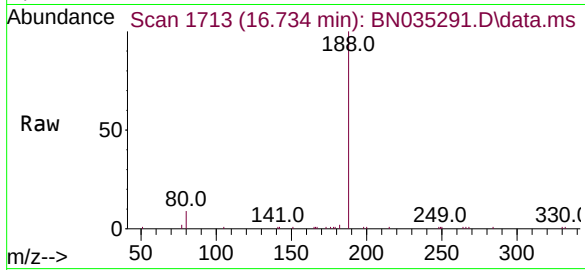
Tgt Ion	Ratio	Lower	Upper
166	100		
165	98.9	81.2	121.8
167	13.4	10.5	15.7





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.734 min Scan# 1713
Delta R.T. -0.000 min
Lab File: BN035291.D
Acq: 25 Nov 2024 19:20

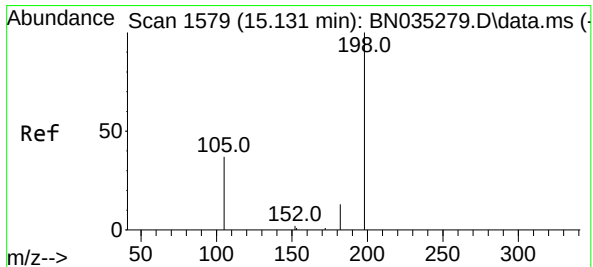
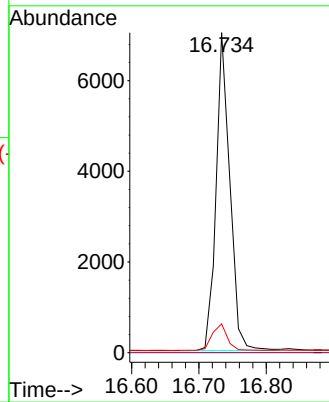
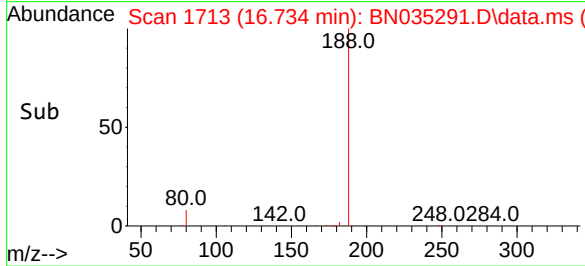
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:188 Resp: 994
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 9.0 8.9 13.3

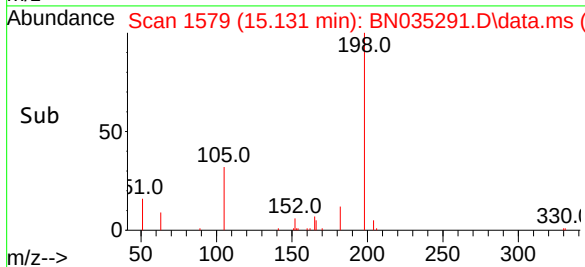
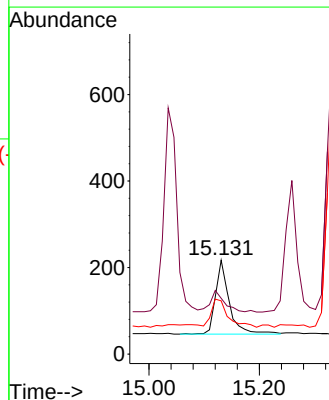
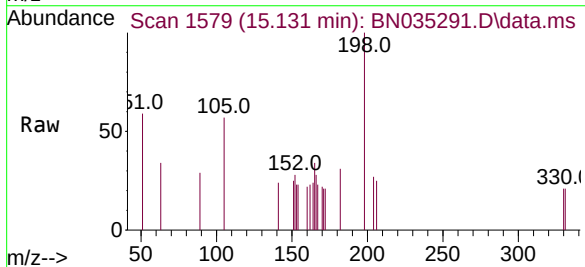
Manual Integrations
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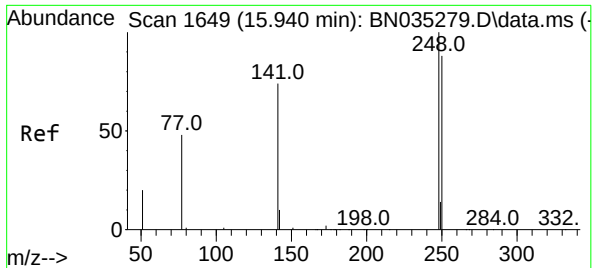
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#20
4,6-Dinitro-2-methylphenol
Concen: 0.395 ng
RT: 15.131 min Scan# 1579
Delta R.T. -0.000 min
Lab File: BN035291.D
Acq: 25 Nov 2024 19:20

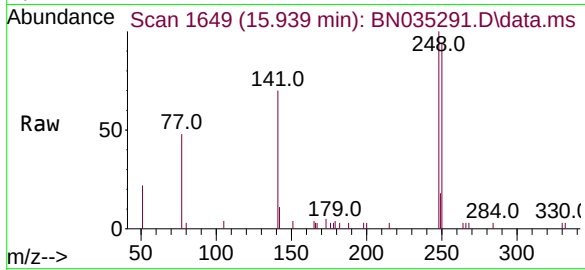
Tgt Ion:198 Resp: 296
Ion Ratio Lower Upper
198 100
51 59.4 53.6 80.4
105 56.7 47.4 71.2





#21
4-Bromophenyl-phenylether
Concen: 0.409 ng
RT: 15.939 min Scan# 1649
Delta R.T. -0.001 min
Lab File: BN035291.D
Acq: 25 Nov 2024 19:20

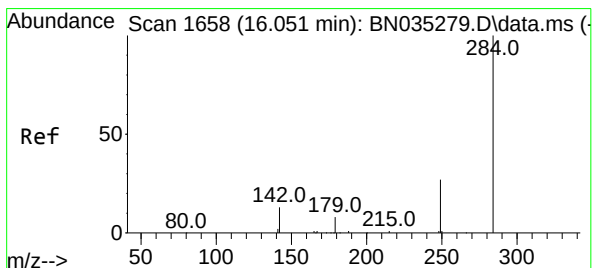
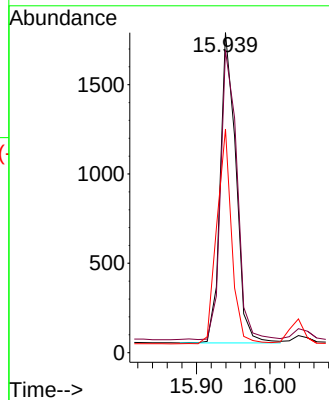
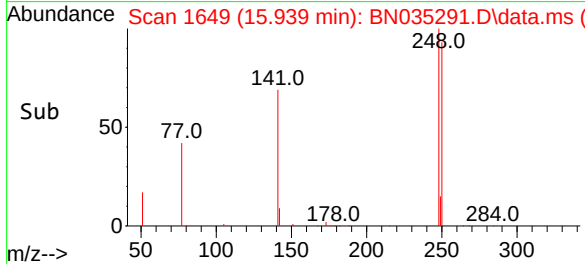
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:248 Resp: 2578
Ion Ratio Lower Upper
248 100
250 94.5 74.8 112.2
141 69.9 59.0 88.4

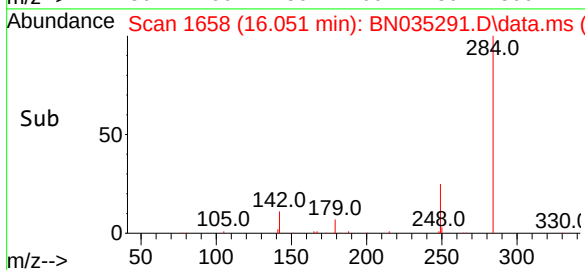
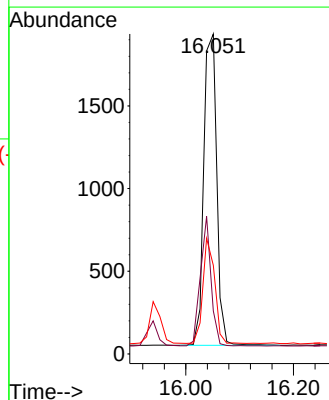
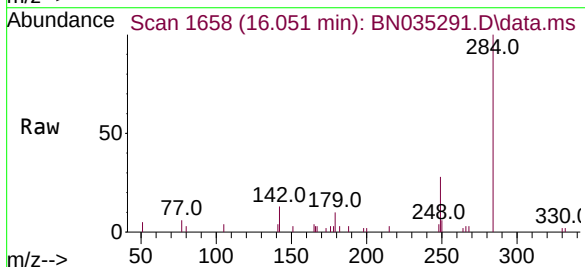
Manual Integrations
APPROVED

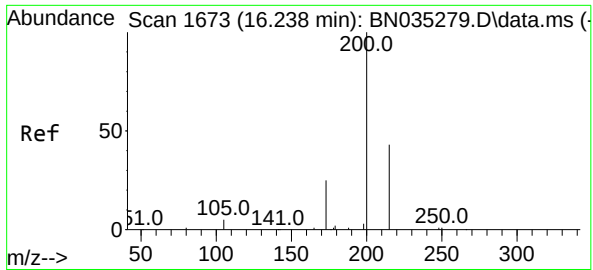
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#22
Hexachlorobenzene
Concen: 0.349 ng
RT: 16.051 min Scan# 1658
Delta R.T. -0.000 min
Lab File: BN035291.D
Acq: 25 Nov 2024 19:20

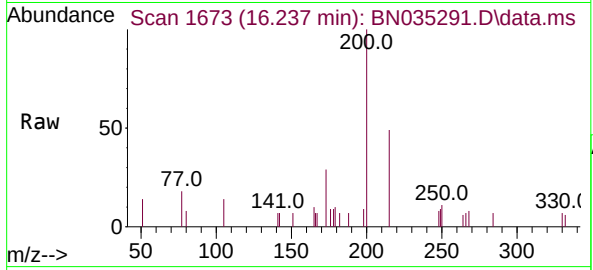
Tgt Ion:284 Resp: 3153
Ion Ratio Lower Upper
284 100
142 34.5 28.7 43.1
249 30.7 25.4 38.0





#23
Atrazine
Concen: 0.390 ng
RT: 16.237 min Scan# 1673
Delta R.T. -0.000 min
Lab File: BN035291.D
Acq: 25 Nov 2024 19:20

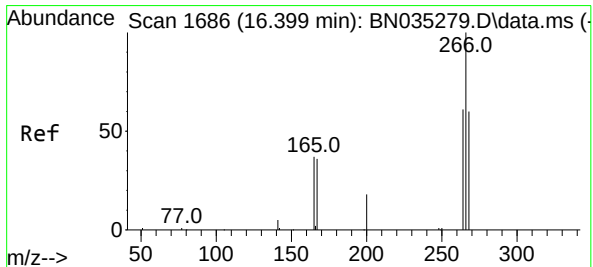
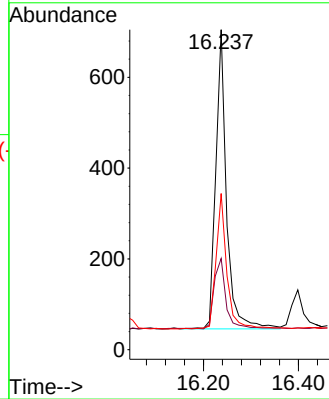
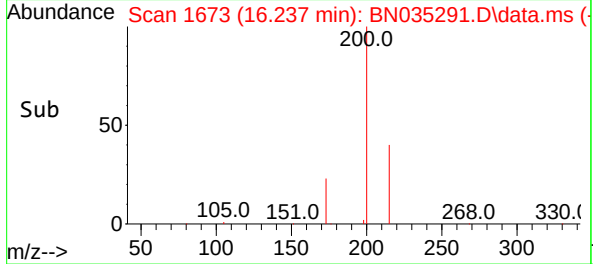
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:200 Resp: 1035
Ion Ratio Lower Upper
200 100
173 28.5 25.8 38.8
215 48.8 38.6 58.0

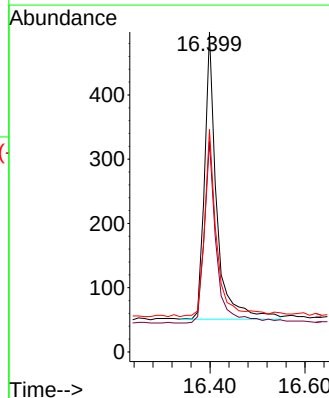
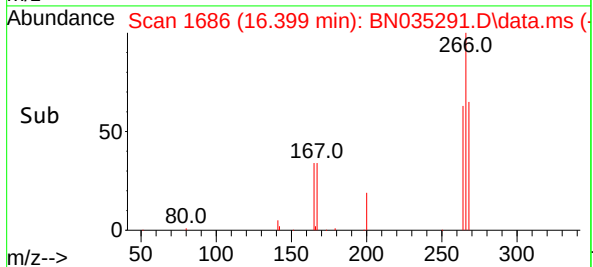
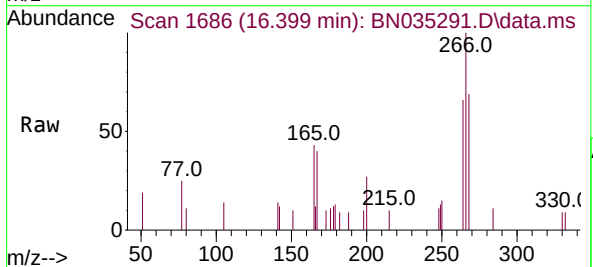
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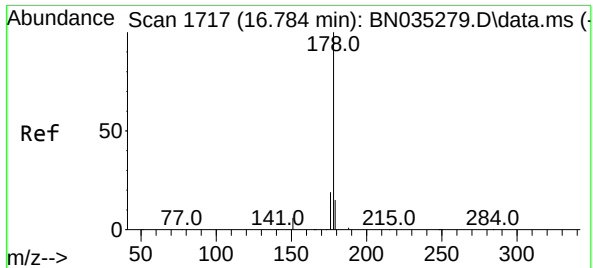
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#24
Pentachlorophenol
Concen: 0.366 ng
RT: 16.399 min Scan# 1686
Delta R.T. -0.000 min
Lab File: BN035291.D
Acq: 25 Nov 2024 19:20

Tgt Ion:266 Resp: 792
Ion Ratio Lower Upper
266 100
264 63.5 49.3 73.9
268 65.0 48.6 73.0





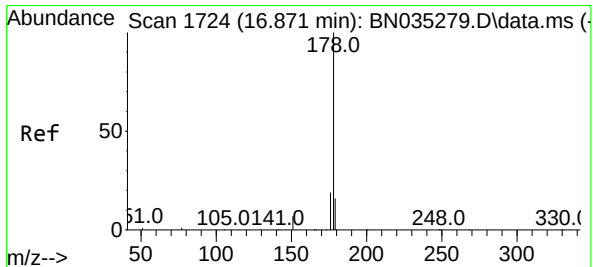
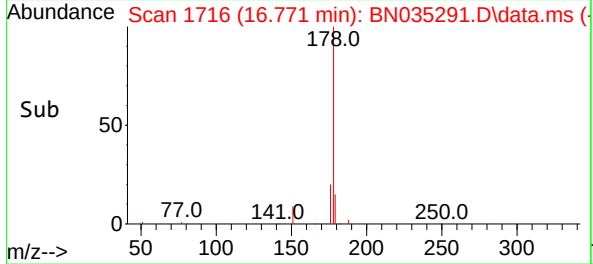
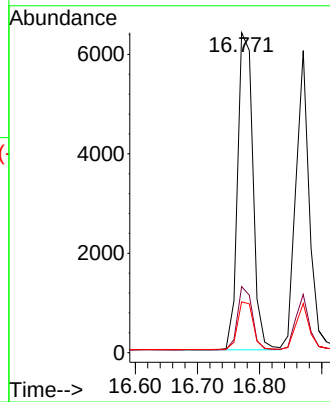
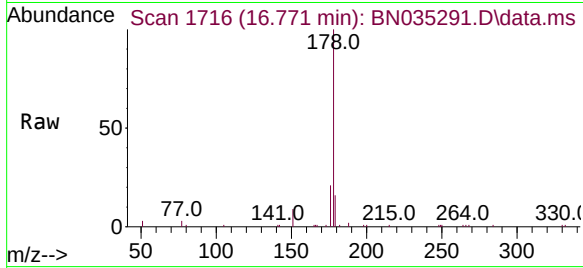
#25
Phenanthrene
Concen: 0.358 ng
RT: 16.771 min Scan# 1716
Delta R.T. -0.013 min
Lab File: BN035291.D
Acq: 25 Nov 2024 19:20

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:178 Resp: 1094
Ion Ratio Lower Upper
178 100
176 19.2 15.4 23.0
179 15.3 12.6 18.8

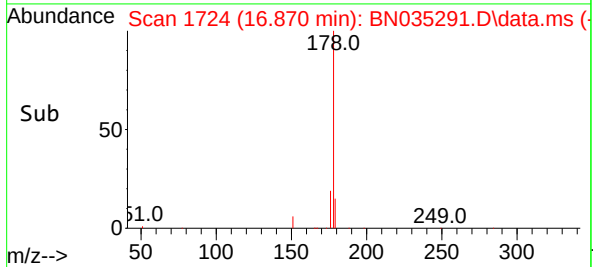
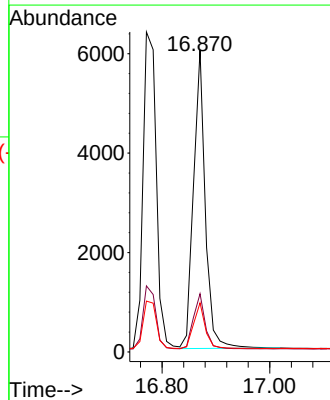
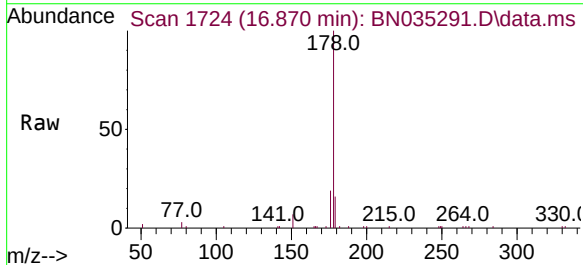
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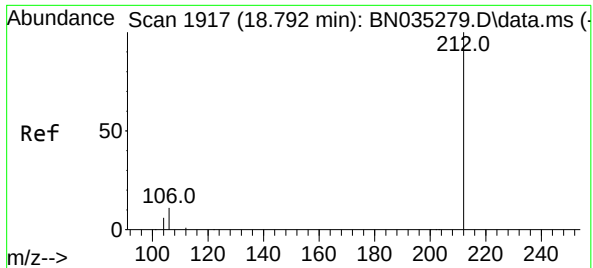
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#26
Anthracene
Concen: 0.349 ng
RT: 16.870 min Scan# 1724
Delta R.T. -0.000 min
Lab File: BN035291.D
Acq: 25 Nov 2024 19:20

Tgt Ion:178 Resp: 9149
Ion Ratio Lower Upper
178 100
176 18.7 15.0 22.4
179 15.3 12.4 18.6





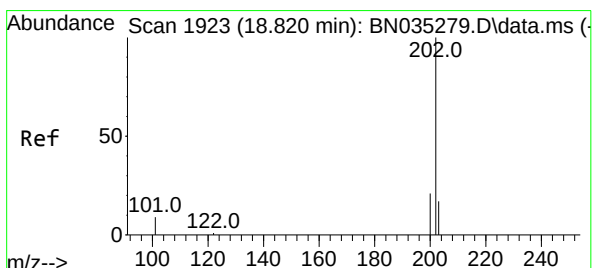
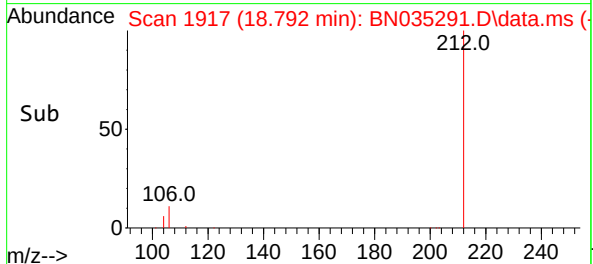
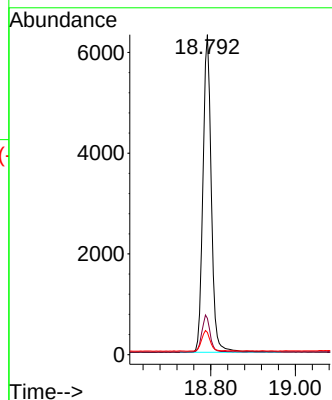
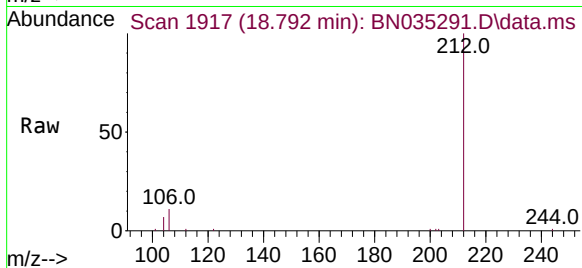
#27
Fluoranthene-d10
Concen: 0.325 ng
RT: 18.792 min Scan# 1917
Delta R.T. -0.000 min
Lab File: BN035291.D
Acq: 25 Nov 2024 19:20

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:212 Resp: 864
Ion Ratio Lower Upper
212 100
106 11.5 9.8 14.8
104 6.6 5.6 8.4

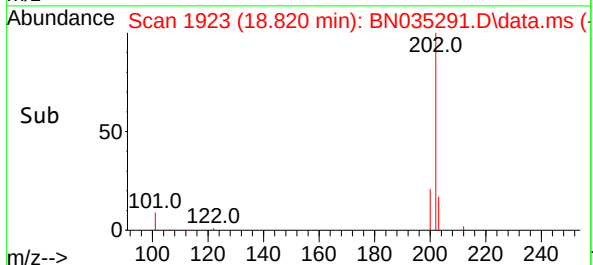
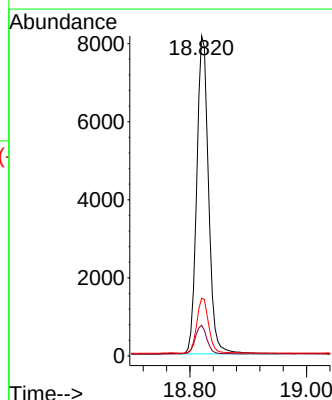
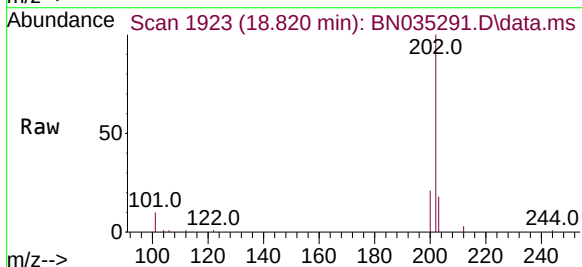
Manual Integrations
APPROVED

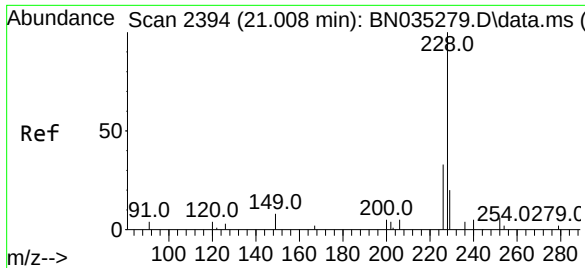
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#28
Fluoranthene
Concen: 0.296 ng
RT: 18.820 min Scan# 1923
Delta R.T. 0.000 min
Lab File: BN035291.D
Acq: 25 Nov 2024 19:20

Tgt Ion:202 Resp: 11418
Ion Ratio Lower Upper
202 100
101 9.0 7.6 11.4
203 17.2 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.008 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035291.D

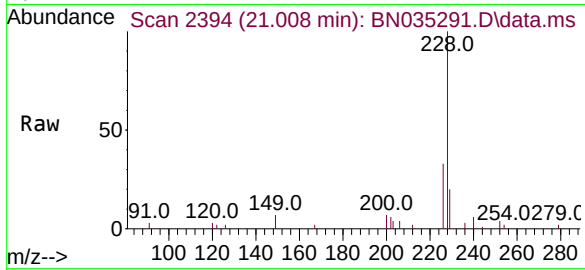
Acq: 25 Nov 2024 19:20

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



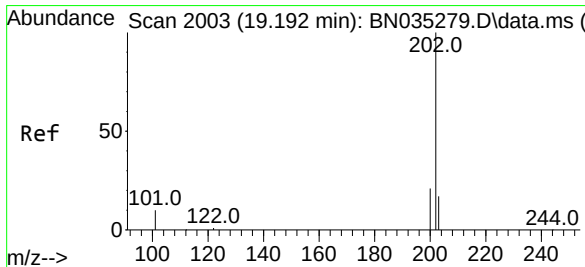
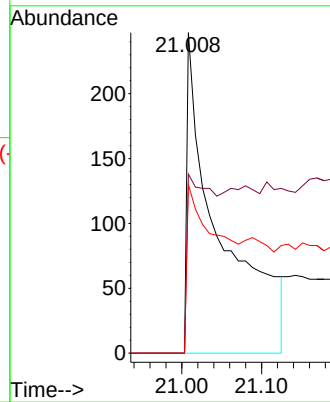
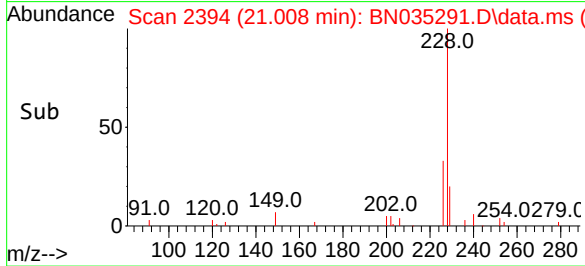
Tgt Ion:	240	Resp:	67
Ion Ratio	Lower	Upper	
240	100		
120	55.9	54.9	82.3
236	52.6	54.0	81.0

Manual Integrations

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Reviewed By :Yogesh Patel 11/27/2024

Supervised By :mohammad ahmed 11/27/2024



#30

Pyrene

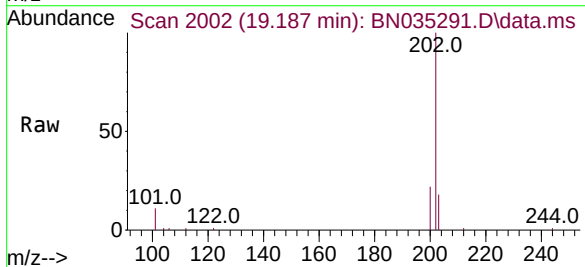
Concen: 0.449 ng

RT: 19.187 min Scan# 2002

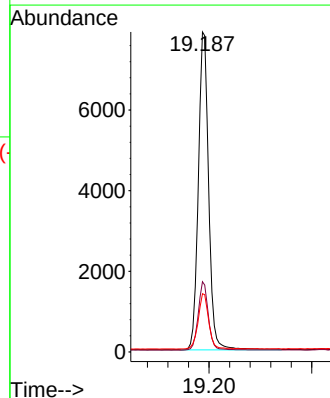
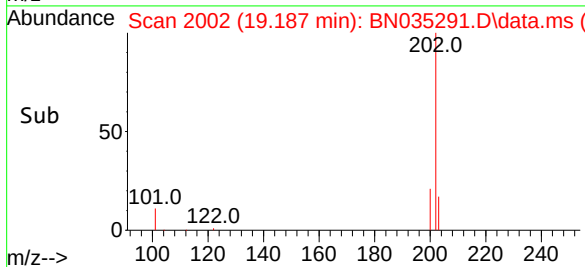
Delta R.T. -0.005 min

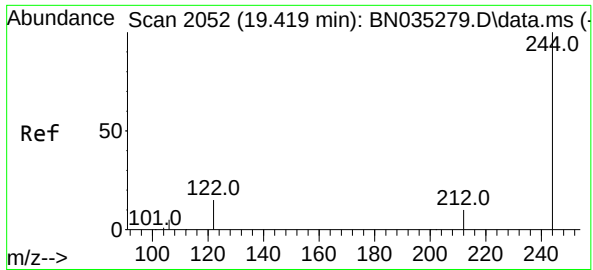
Lab File: BN035291.D

Acq: 25 Nov 2024 19:20



Tgt Ion:	202	Resp:	11057
Ion Ratio	Lower	Upper	
202	100		
200	21.0	16.8	25.2
203	17.9	14.4	21.6





#31
Terphenyl-d14
Concen: 0.456 ng
RT: 19.419 min Scan# 2052
Delta R.T. 0.000 min
Lab File: BN035291.D
Acq: 25 Nov 2024 19:20

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

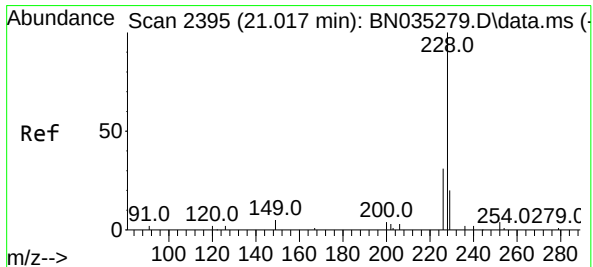
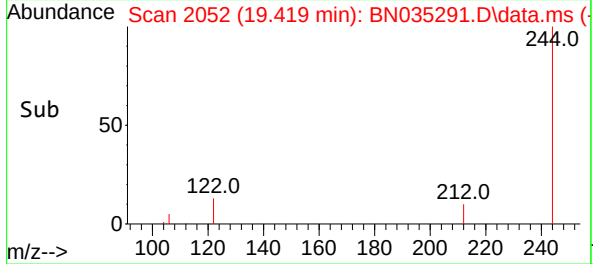
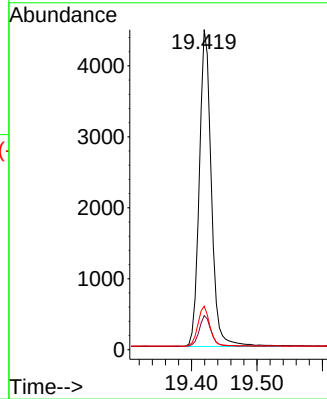
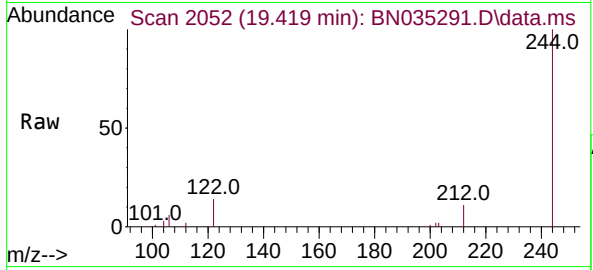
Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.6	9.4	14.0
122	13.6	13.0	19.4

Manual Integrations

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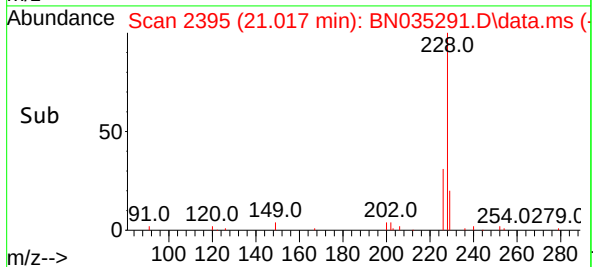
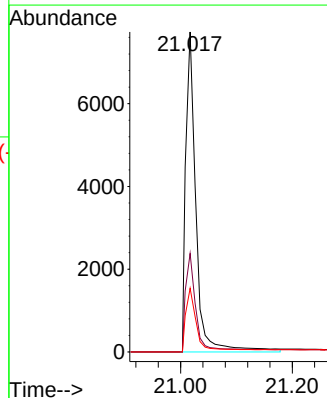
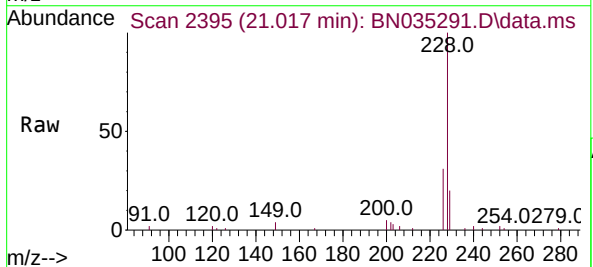
Reviewed By :Yogesh Patel 11/27/2024

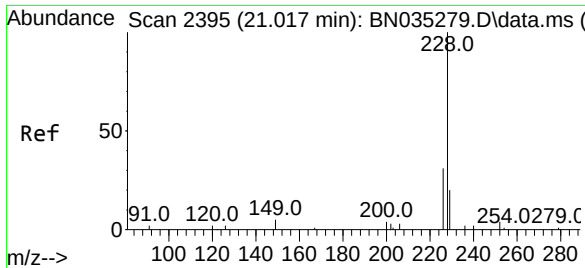
Supervised By :mohammad ahmed 11/27/2024



#32
Benzo(a)anthracene
Concen: 0.422 ng
RT: 21.017 min Scan# 2395
Delta R.T. 0.000 min
Lab File: BN035291.D
Acq: 25 Nov 2024 19:20

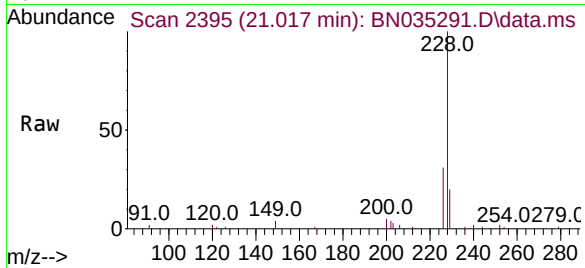
Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.8	24.7	37.1
229	19.9	16.2	24.2





#33
Chrysene
Concen: 0.422 ng
RT: 21.017 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN035291.D
Acq: 25 Nov 2024 19:20

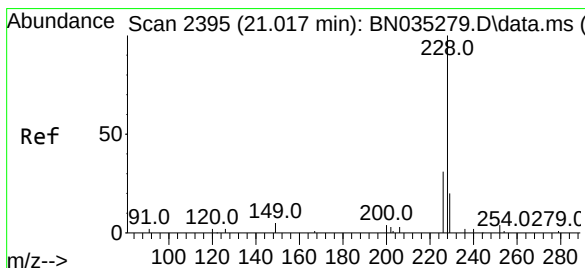
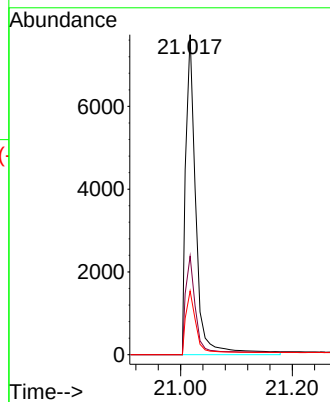
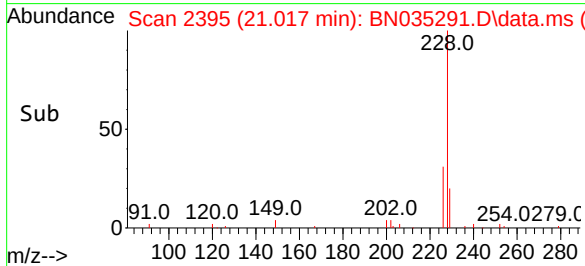
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:228 Resp: 993
Ion Ratio Lower Upper
228 100
226 30.8 24.7 37.1
229 19.9 16.2 24.2

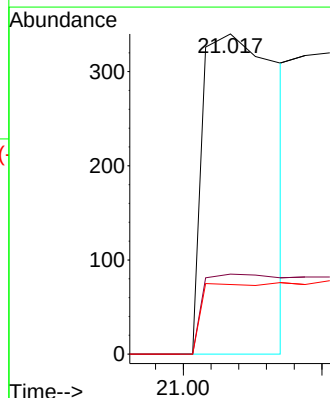
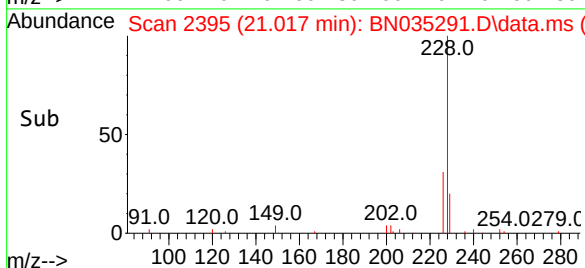
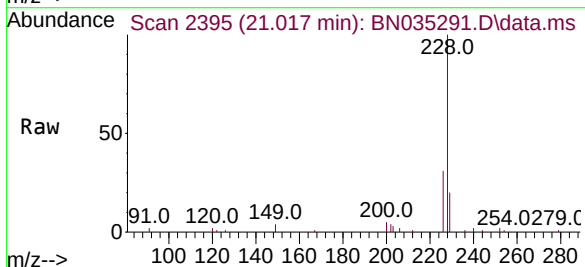
Manual Integrations
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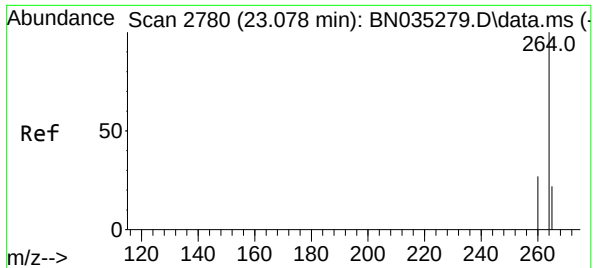
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.432 ng
RT: 21.017 min Scan# 2395
Delta R.T. 0.000 min
Lab File: BN035291.D
Acq: 25 Nov 2024 19:20

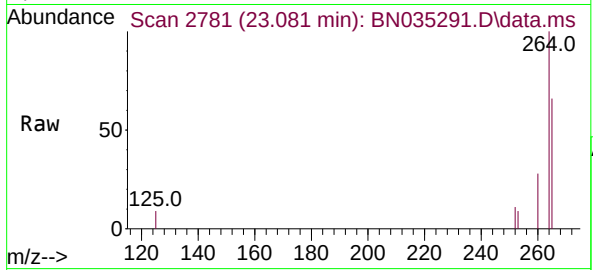
Tgt Ion:149 Resp: 560
Ion Ratio Lower Upper
149 100
167 25.7 0.0 0.0#
279 16.3 13.0 19.6





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.081 min Scan# 21
Delta R.T. 0.003 min
Lab File: BN035291.D
Acq: 25 Nov 2024 19:20

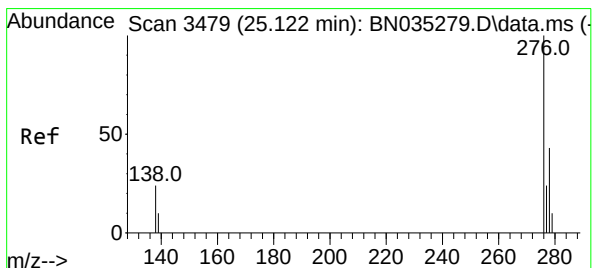
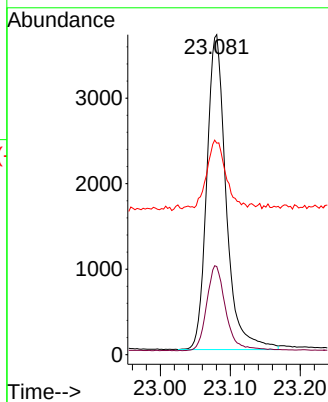
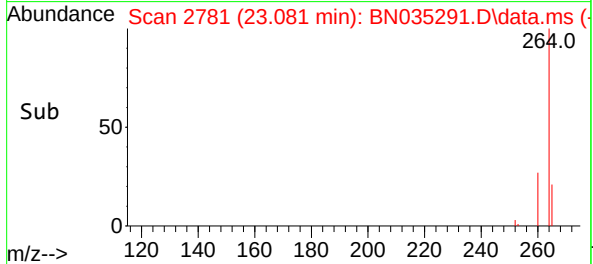
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:264 Resp: 7069
Ion Ratio Lower Upper
264 100
260 27.6 22.3 33.5
265 66.1 68.6 103.0

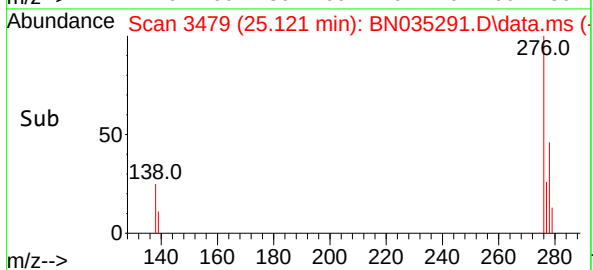
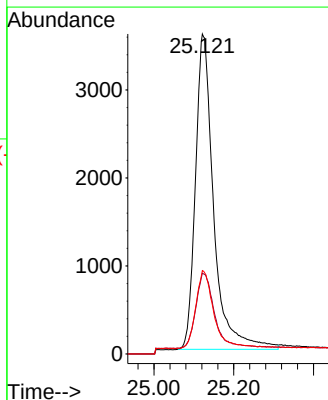
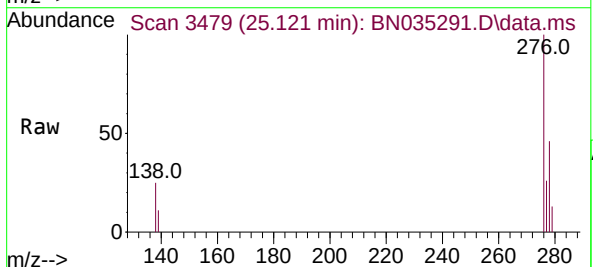
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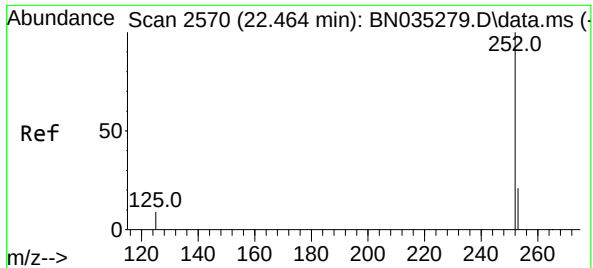
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.394 ng
RT: 25.121 min Scan# 3479
Delta R.T. -0.000 min
Lab File: BN035291.D
Acq: 25 Nov 2024 19:20

Tgt Ion:276 Resp: 11395
Ion Ratio Lower Upper
276 100
138 23.3 18.8 28.2
277 24.2 18.2 27.4





#37

Benzo(b)fluoranthene

Concen: 0.313 ng

RT: 22.464 min Scan# 2570

Delta R.T. -0.000 min

Lab File: BN035291.D

Acq: 25 Nov 2024 19:20

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion:252 Resp: 961

Ion Ratio Lower Upper

252 100

253 24.8 20.2 30.2

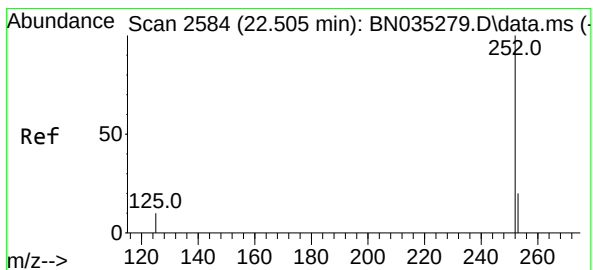
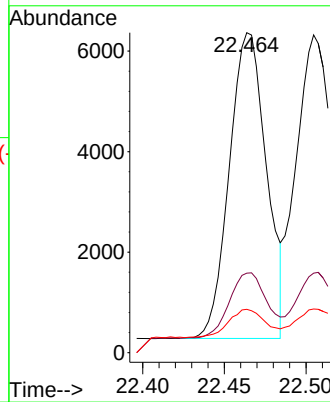
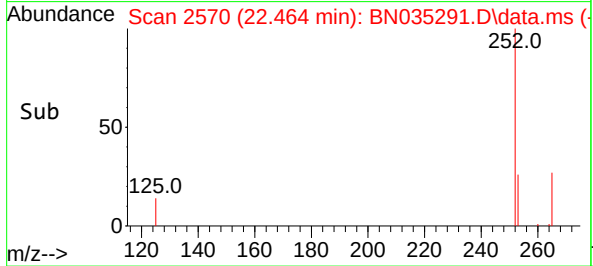
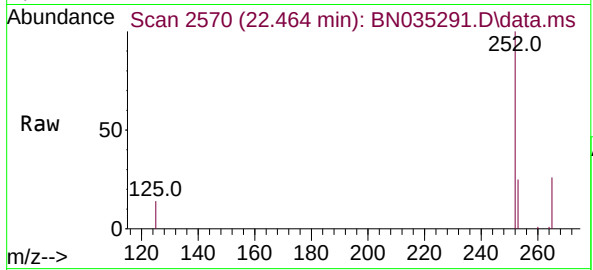
125 13.6 12.0 18.0

Manual Integrations

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Reviewed By :Yogesh Patel 11/27/2024

Supervised By :mohammad ahmed 11/27/2024



#38

Benzo(k)fluoranthene

Concen: 0.328 ng

RT: 22.505 min Scan# 2584

Delta R.T. -0.000 min

Lab File: BN035291.D

Acq: 25 Nov 2024 19:20

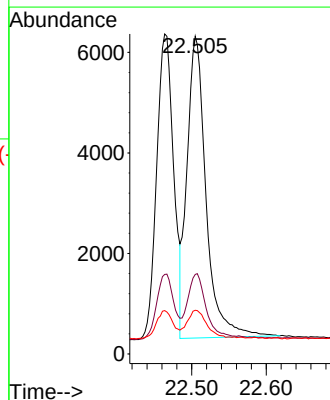
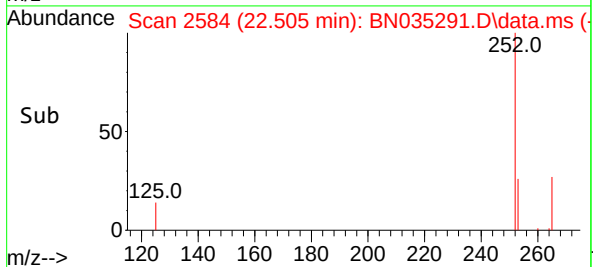
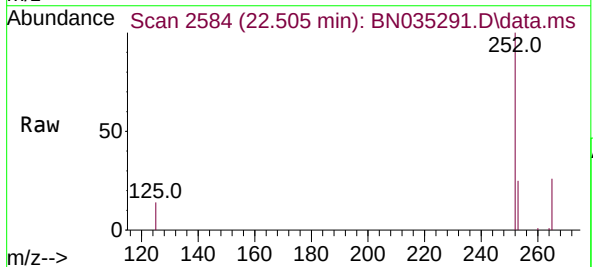
Tgt Ion:252 Resp: 10650

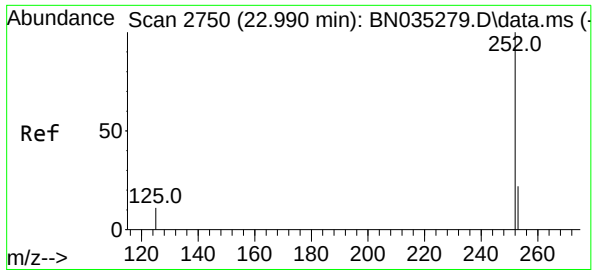
Ion Ratio Lower Upper

252 100

253 25.0 20.1 30.1

125 13.7 12.7 19.1





#39

Benzo(a)pyrene

Concen: 0.350 ng

RT: 22.987 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN035291.D

Acq: 25 Nov 2024 19:20

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

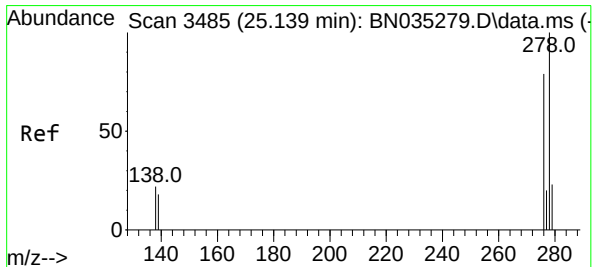
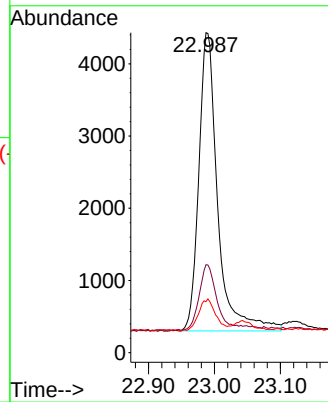
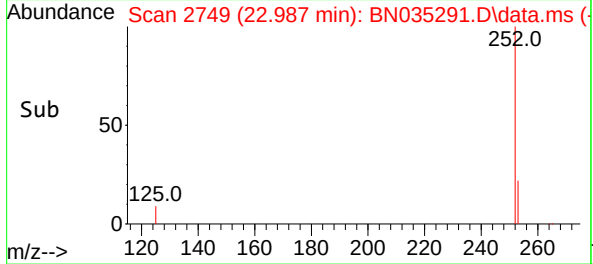
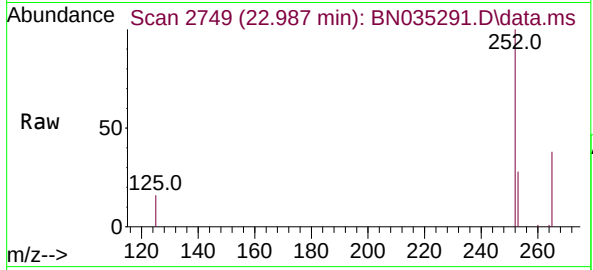
Tgt Ion:	252	Resp:	8220
Ion Ratio	Lower	Upper	
252	100		
253	27.5	22.3	33.5
125	16.0	15.3	22.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/27/2024

Supervised By :mohammad ahmed 11/27/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.399 ng

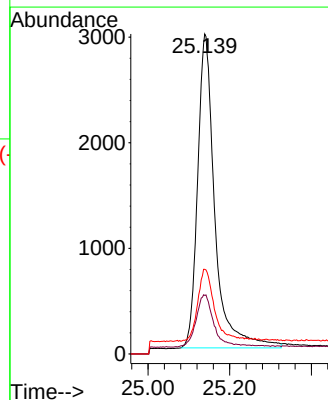
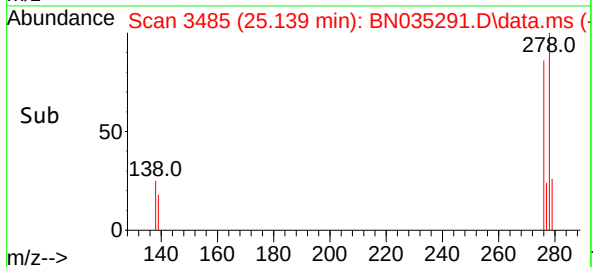
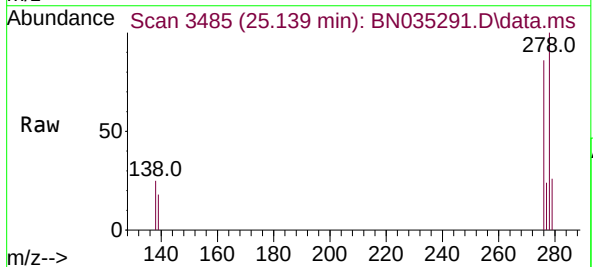
RT: 25.139 min Scan# 3485

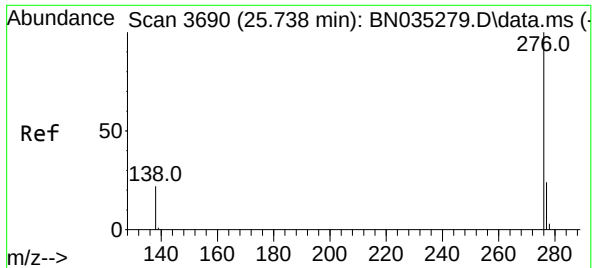
Delta R.T. -0.000 min

Lab File: BN035291.D

Acq: 25 Nov 2024 19:20

Tgt Ion:	278	Resp:	8732
Ion Ratio	Lower	Upper	
278	100		
139	18.3	17.0	25.6
279	26.4	23.0	34.4





#41

Benzo(g,h,i)perylene

Concen: 0.392 ng

RT: 25.741 min Scan# 30

Delta R.T. 0.003 min

Lab File: BN035291.D

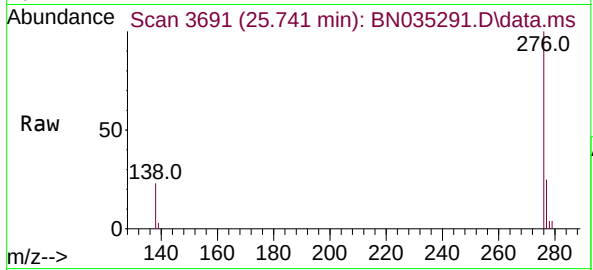
Acq: 25 Nov 2024 19:20

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



Tgt Ion:276 Resp: 9930

Ion Ratio Lower Upper

276 100

277 25.3 21.1 31.7

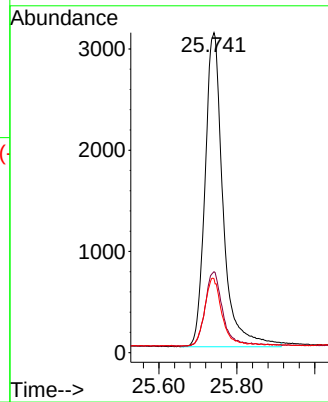
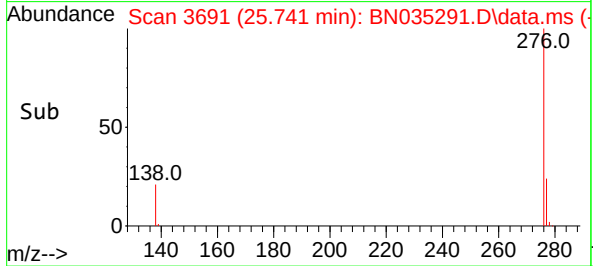
138 23.1 19.8 29.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/27/2024

Supervised By :mohammad ahmed 11/27/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
 Data File : BN035291.D
 Acq On : 25 Nov 2024 19:20
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 67 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Nov 26 03:32:31 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 26 02:36:08 2024
 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	173#	0.00
2	1,4-Dioxane	0.288	0.380	-31.9#	229#	0.00
3	n-Nitrosodimethylamine	0.298	0.268	10.1	163#	0.00
4 S	2-Fluorophenol	0.756	0.966	-27.8#	212#	0.00
5 S	Phenol-d6	1.056	1.244	-17.8	195#	0.00
6	bis(2-Chloroethyl)ether	0.889	0.975	-9.7	188#	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	170#	0.00
8 S	Nitrobenzene-d5	0.324	0.194	40.1#	95	0.00
9	Naphthalene	1.110	1.075	3.2	168#	-0.01
10	Hexachlorobutadiene	0.312	0.260	16.7	141	-0.01
11 SURR	2-Methylnaphthalene-d10	0.560	0.573	-2.3	181#	0.00
12	2-Methylnaphthalene	0.726	0.704	3.0	176#	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	177#	-0.01
14 S	2,4,6-Tribromophenol	0.204	0.172	15.7	169#	0.00
15 S	2-Fluorobiphenyl	0.221	0.144	34.8#	104	0.00
16	Acenaphthylene	2.013	1.671	17.0	157#	-0.01
17	Acenaphthene	1.267	1.122	11.4	169#	0.00
18	Fluorene	1.777	1.459	17.9	158#	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	144	0.00
20	4,6-Dinitro-2-methylphenol	0.041	0.030	26.8#	127	0.00
21	4-Bromophenyl-phenylether	0.254	0.259	-2.0	159#	0.00
22	Hexachlorobenzene	0.363	0.317	12.7	130	0.00
23	Atrazine	0.107	0.104	2.8	150#	0.00
24	Pentachlorophenol	0.087	0.080	8.0	146	0.00
25	Phenanthrene	1.229	1.101	10.4	140	-0.01
26	Anthracene	1.055	0.920	12.8	146	0.00
27 SURR	Fluoranthene-d10	1.070	0.869	18.8	130	0.00
28	Fluoranthene	1.550	1.149	25.9#	124	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	116	0.00
30	Pyrene	14.551	16.332	-12.2	123	0.00
31 S	Terphenyl-d14	7.392	8.425	-14.0	134	0.00
32	Benzo(a)anthracene	13.920	14.675	-5.4	123	0.00
33	Chrysene	13.920	14.675	-5.4	123	0.00
34	Bis(2-ethylhexyl)phthalate	0.765	0.827	-8.1	105	0.00
35 I	Perylene-d12	1.000	1.000	0.0	151#	0.00
36	Indeno(1,2,3-cd)pyrene	1.638	1.612	1.6	159#	0.00
37	Benzo(b)fluoranthene	1.738	1.360	21.7	141	0.00
38	Benzo(k)fluoranthene	1.839	1.507	18.1	139	0.00
39 C	Benzo(a)pyrene	1.329	1.163	12.5	153#	0.00
40	Dibenzo(a,h)anthracene	1.238	1.235	0.2	168#	0.00
41	Benzo(g,h,i)perylene	1.432	1.405	1.9	171#	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
 Data File : BN035291.D
 Acq On : 25 Nov 2024 19:20
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 67 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Nov 26 03:32:31 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 26 02:36:08 2024
 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	173	0.00
2	1,4-Dioxane	0.400	0.529	-32.3#	229	0.00
3	n-Nitrosodimethylamine	0.400	0.360	10.0	163	0.00
4 S	2-Fluorophenol	0.400	0.511	-27.7#	212	0.00
5 S	Phenol-d6	0.400	0.471	-17.7	195	0.00
6	bis(2-Chloroethyl)ether	0.400	0.439	-9.7	188	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	170	0.00
8 S	Nitrobenzene-d5	0.400	0.239	40.3#	95	0.00
9	Naphthalene	0.400	0.387	3.3	168	-0.01
10	Hexachlorobutadiene	0.400	0.333	16.8	141	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.410	-2.5	181	0.00
12	2-Methylnaphthalene	0.400	0.388	3.0	176	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	177	-0.01
14 S	2,4,6-Tribromophenol	0.400	0.338	15.5	169	0.00
15 S	2-Fluorobiphenyl	0.400	0.260	35.0#	104	0.00
16	Acenaphthylene	0.400	0.332	17.0	157	-0.01
17	Acenaphthene	0.400	0.354	11.5	169	0.00
18	Fluorene	0.400	0.328	18.0	158	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	144	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.395	1.3	127	0.00
21	4-Bromophenyl-phenylether	0.400	0.409	-2.2	159	0.00
22	Hexachlorobenzene	0.400	0.349	12.8	130	0.00
23	Atrazine	0.400	0.390	2.5	150	0.00
24	Pentachlorophenol	0.400	0.366	8.5	146	0.00
25	Phenanthrene	0.400	0.358	10.5	140	-0.01
26	Anthracene	0.400	0.349	12.8	146	0.00
27 SURR	Fluoranthene-d10	0.400	0.325	18.8	130	0.00
28	Fluoranthene	0.400	0.296	26.0#	124	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	116	0.00
30	Pyrene	0.400	0.449	-12.2	123	0.00
31 S	Terphenyl-d14	0.400	0.456	-14.0	134	0.00
32	Benzo(a)anthracene	0.400	0.422	-5.5	123	0.00
33	Chrysene	0.400	0.422	-5.5	123	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.432	-8.0	105	0.00
35 I	Perylene-d12	0.400	0.400	0.0	151	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.394	1.5	159	0.00
37	Benzo(b)fluoranthene	0.400	0.313	21.8	141	0.00
38	Benzo(k)fluoranthene	0.400	0.328	18.0	139	0.00
39 C	Benzo(a)pyrene	0.400	0.350	12.5	153	0.00
40	Dibenzo(a,h)anthracene	0.400	0.399	0.3	168	0.00
41	Benzo(g,h,i)perylene	0.400	0.392	2.0	171	0.00

(#) = Out of Range

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



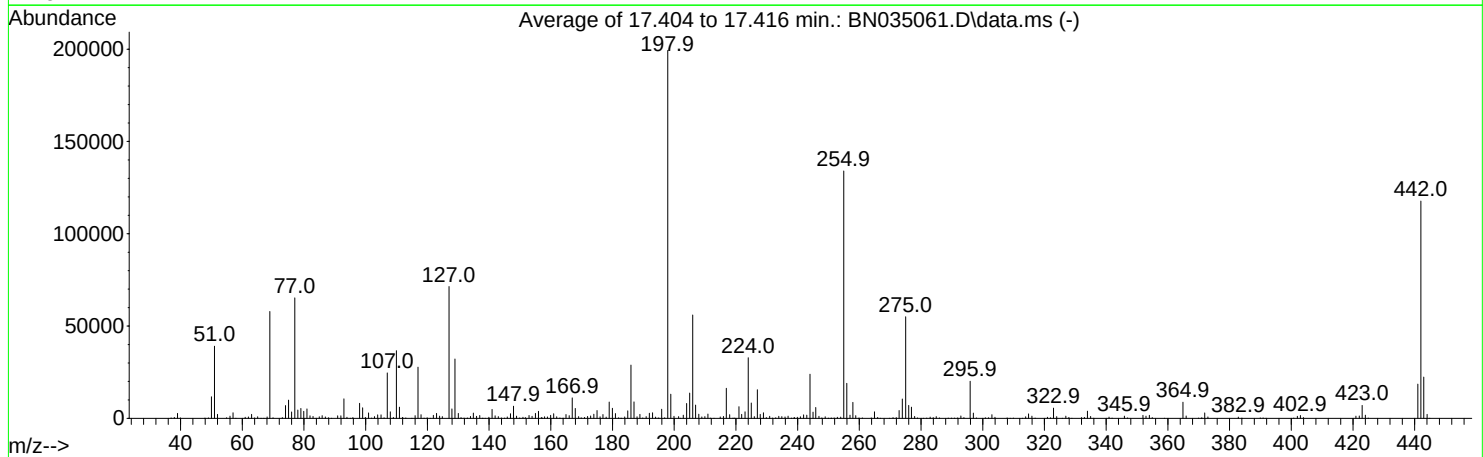
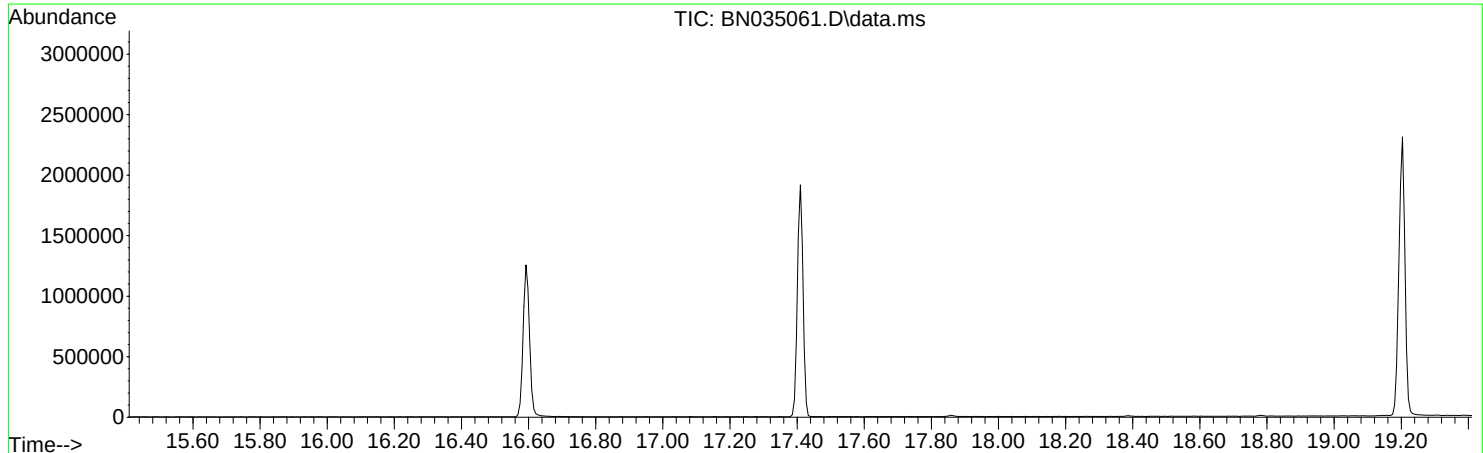
QC SAMPLE DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
Data File : BN035061.D
Acq On : 13 Nov 2024 12:01
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-BN111324.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Nov 13 17:18:14 2024



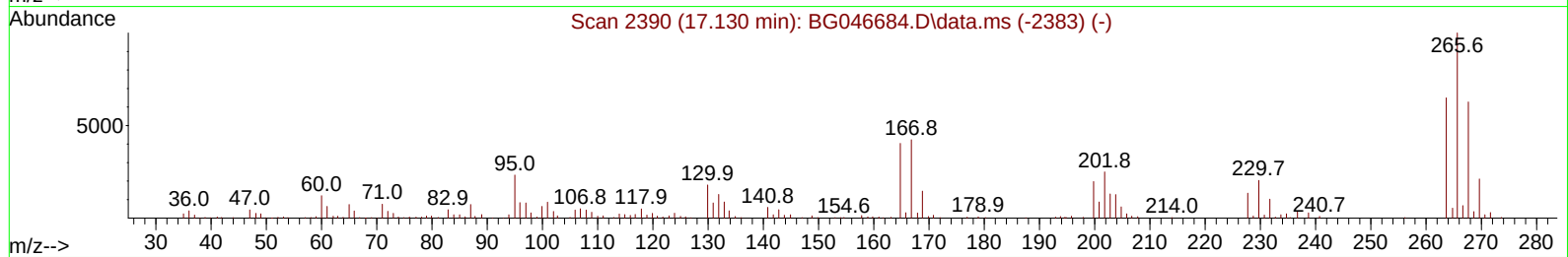
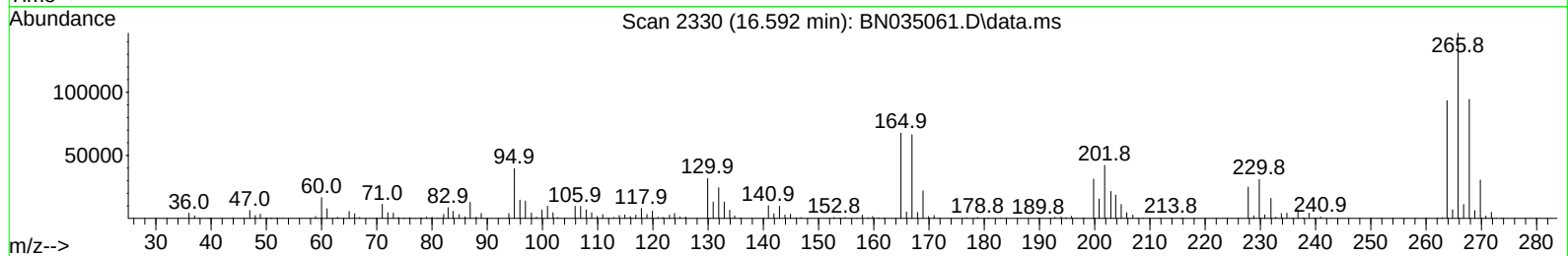
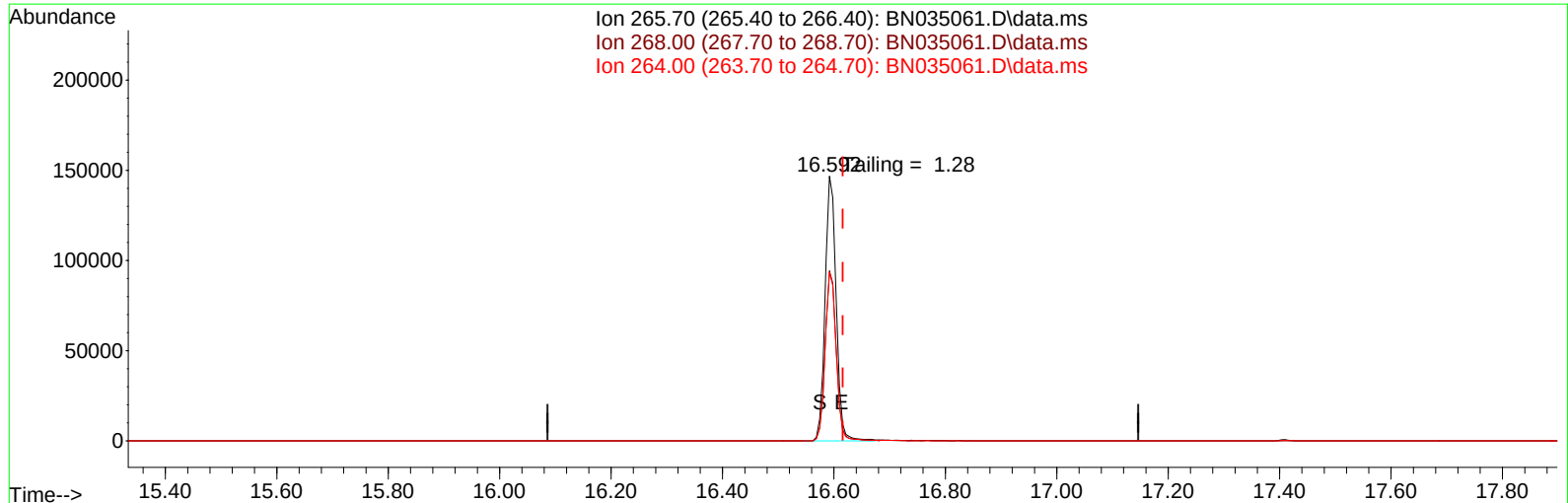
AutoFind: Scans 2468, 2469, 2470; Background Corrected with Scan 2461

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	19.6	39078	PASS
68	69	0.00	2	1.4	807	PASS
69	198	0.00	100	29.1	57928	PASS
70	69	0.00	2	0.7	382	PASS
127	198	10	80	35.9	71451	PASS
197	198	0.00	2	0.2	365	PASS
198	198	100	100	100.0	199275	PASS
199	198	5	9	6.6	13094	PASS
275	198	10	60	27.6	55048	PASS
365	198	1	100	4.4	8801	PASS
441	198	0.01	100	9.3	18540	PASS
442	442	50	100	100.0	117725	PASS
443	442	15	24	19.0	22395	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
Data File : BN035061.D
Acq On : 13 Nov 2024 12:01
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Nov 14 15:14:42 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Nov 09 04:05:27 2024
Response via : Initial Calibration



TIC: BN035061.D\data.ms

(70) Pentachlorophenol (C)

16.592min (-0.024) 20966.65 ng

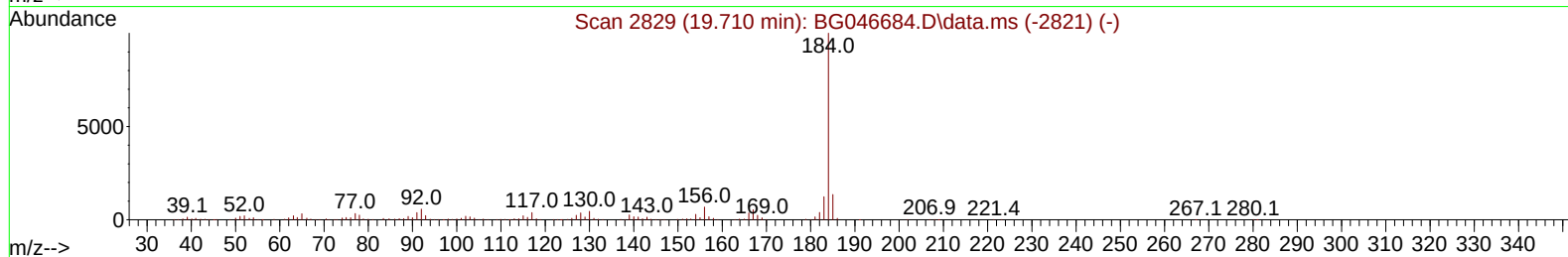
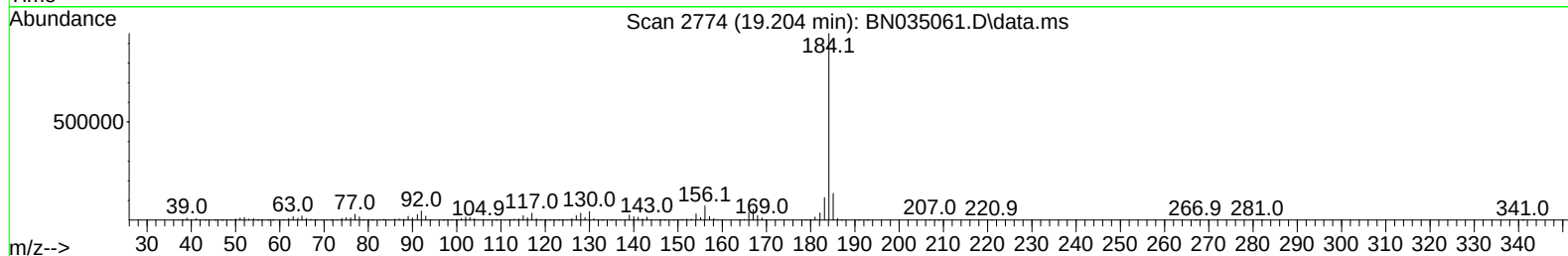
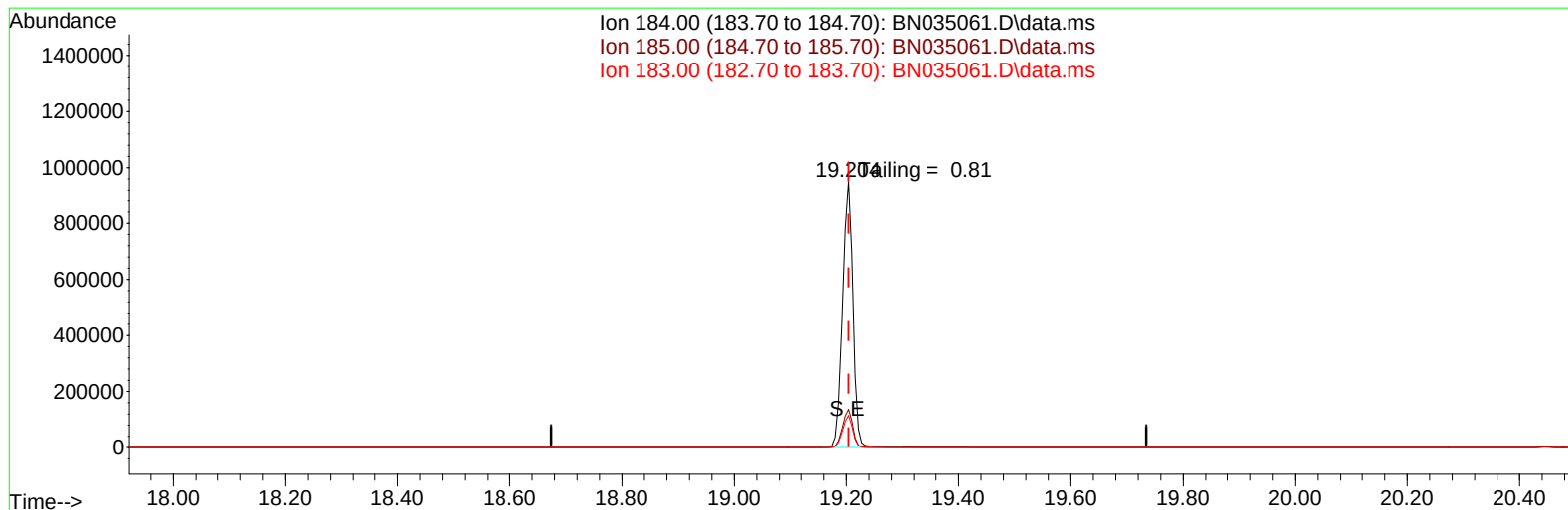
response 202879

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	64.29
264.00	61.60	63.61
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
Data File : BN035061.D
Acq On : 13 Nov 2024 12:01
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Nov 14 15:14:42 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Nov 09 04:05:27 2024
Response via : Initial Calibration



TIC: BN035061.D\data.ms

(77) Benzidine

19.204min (-0.000) 0.00 ng

response 1216684

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.30
183.00	13.20	12.08
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

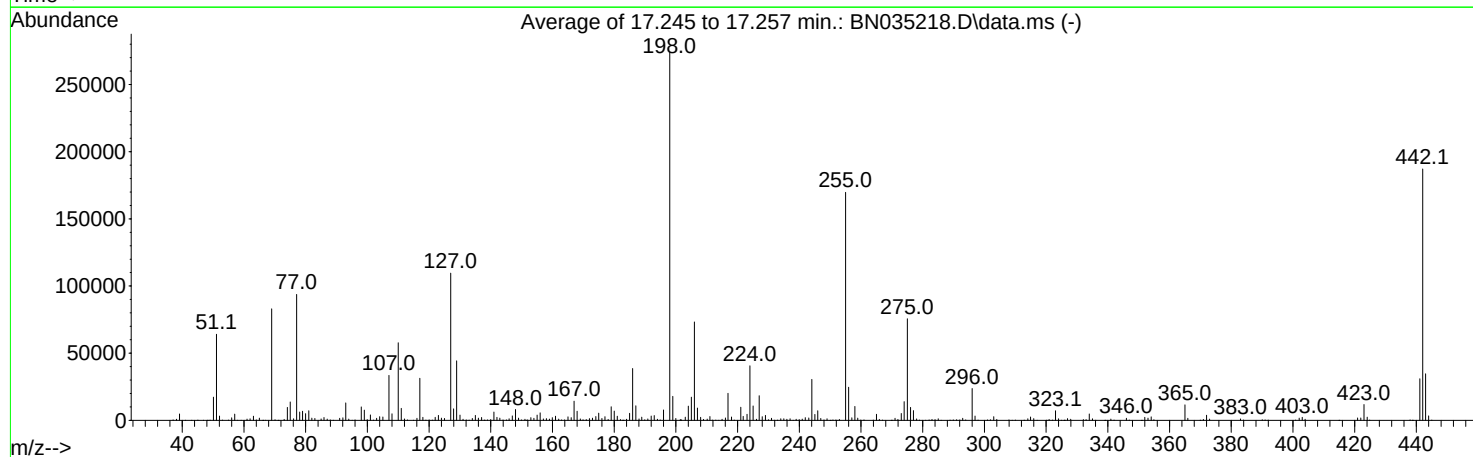
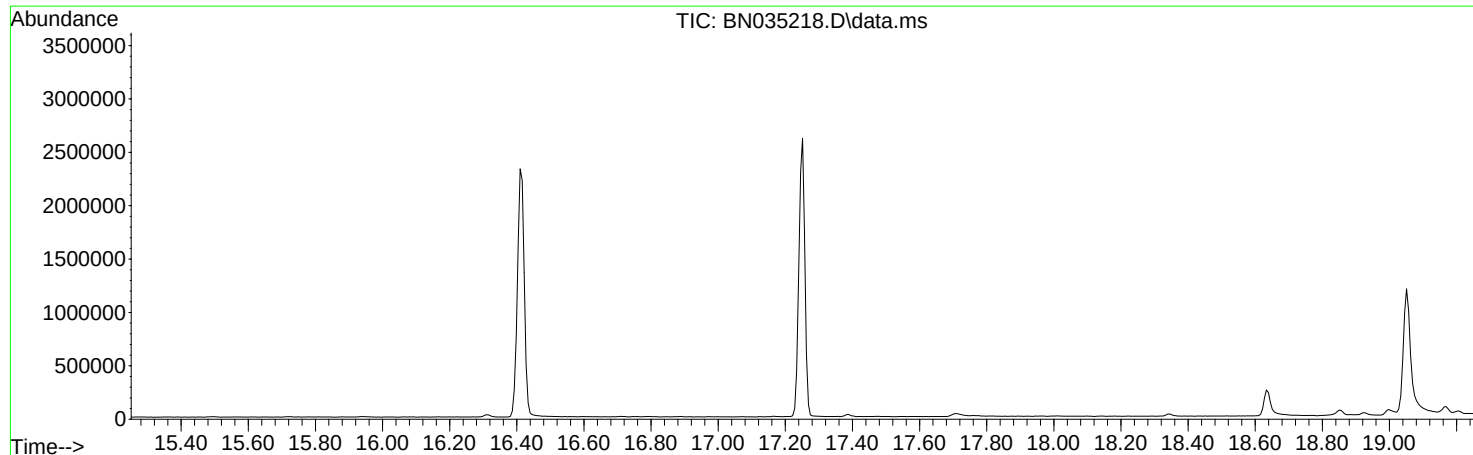
Date	Instrument Name	DFTPP Data File
11/13/2024	BNA_N	<u>BN035561.D</u>
Compound Name	Response	Retention Time
DDT	699321	20.445
DDD	6440	20.057
DDE	0	19.527
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
6440	705761	0.91

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112124\
Data File : BN035218.D
Acq On : 21 Nov 2024 12:43
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-BN111324.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Nov 21 14:00:03 2024



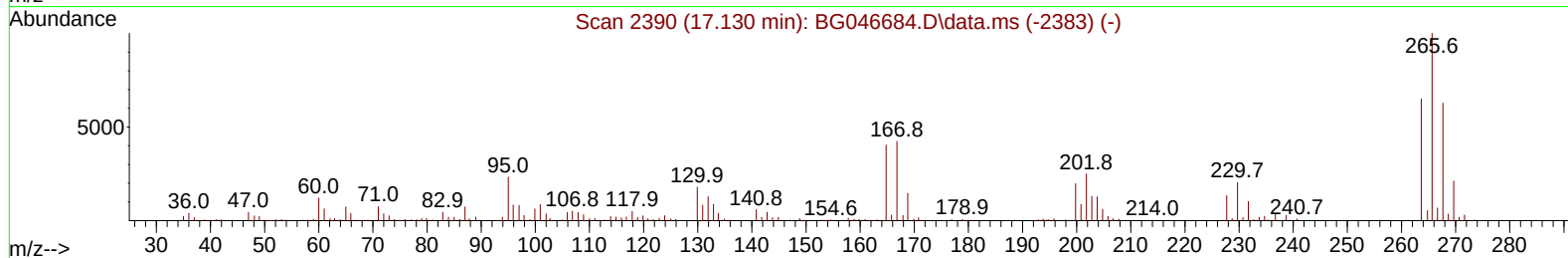
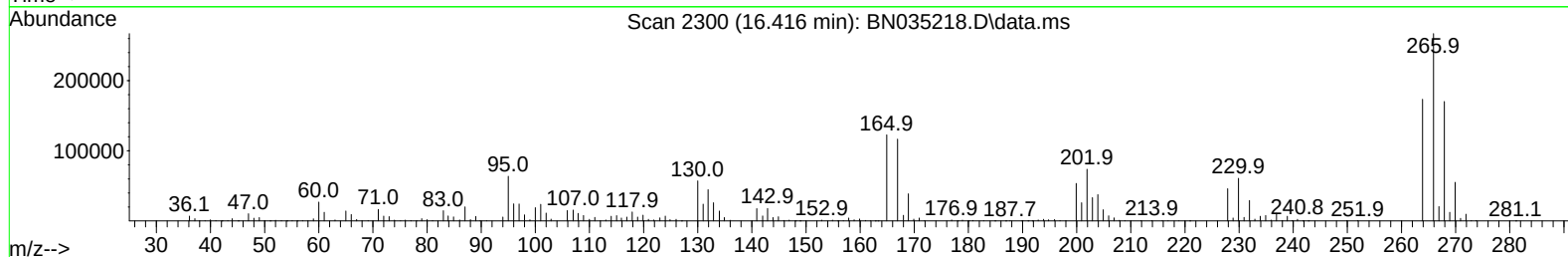
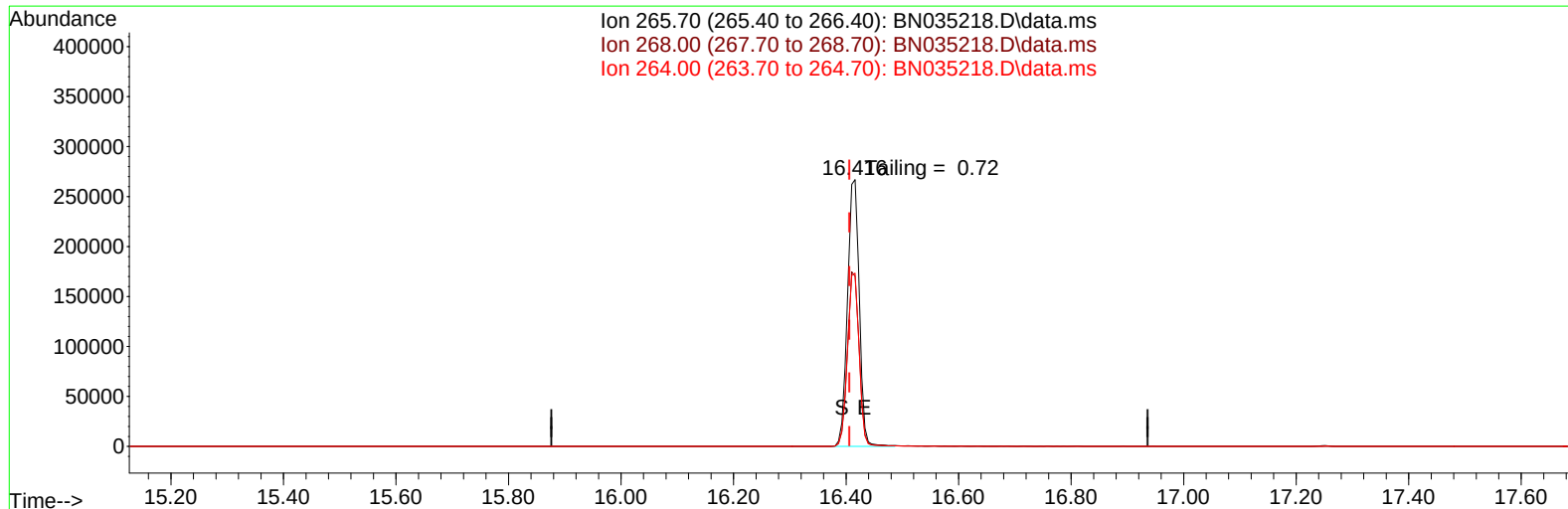
AutoFind: Scans 2441, 2442, 2443; Background Corrected with Scan 2434

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
51	198	10	80	23.4	64069	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	30.3	82985	PASS
70	69	0.00	2	0.5	452	PASS
127	198	10	80	40.0	109557	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	273835	PASS
199	198	5	9	6.5	17904	PASS
275	198	10	60	27.6	75661	PASS
365	198	1	100	4.2	11505	PASS
441	198	0.01	100	11.3	30941	PASS
442	442	50	100	100.0	187179	PASS
443	442	15	24	18.5	34664	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112124\
Data File : BN035218.D
Acq On : 21 Nov 2024 12:43
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Nov 21 15:34:38 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 03:21:56 2024
Response via : Initial Calibration



TIC: BN035218.D\data.ms

(70) Pentachlorophenol (C)

16.416min (+ 0.010) 32791.32 ng m

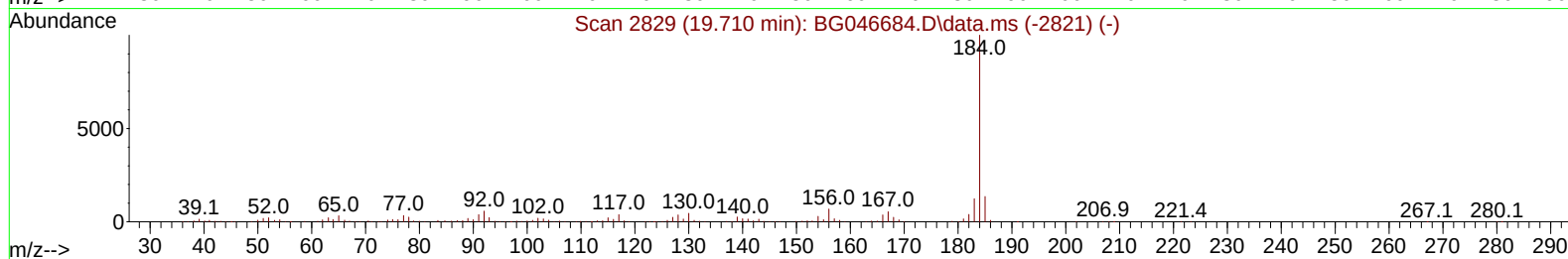
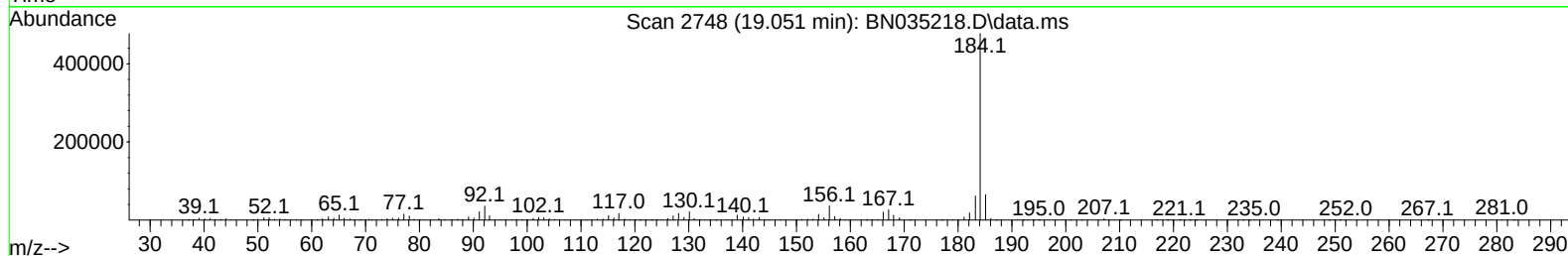
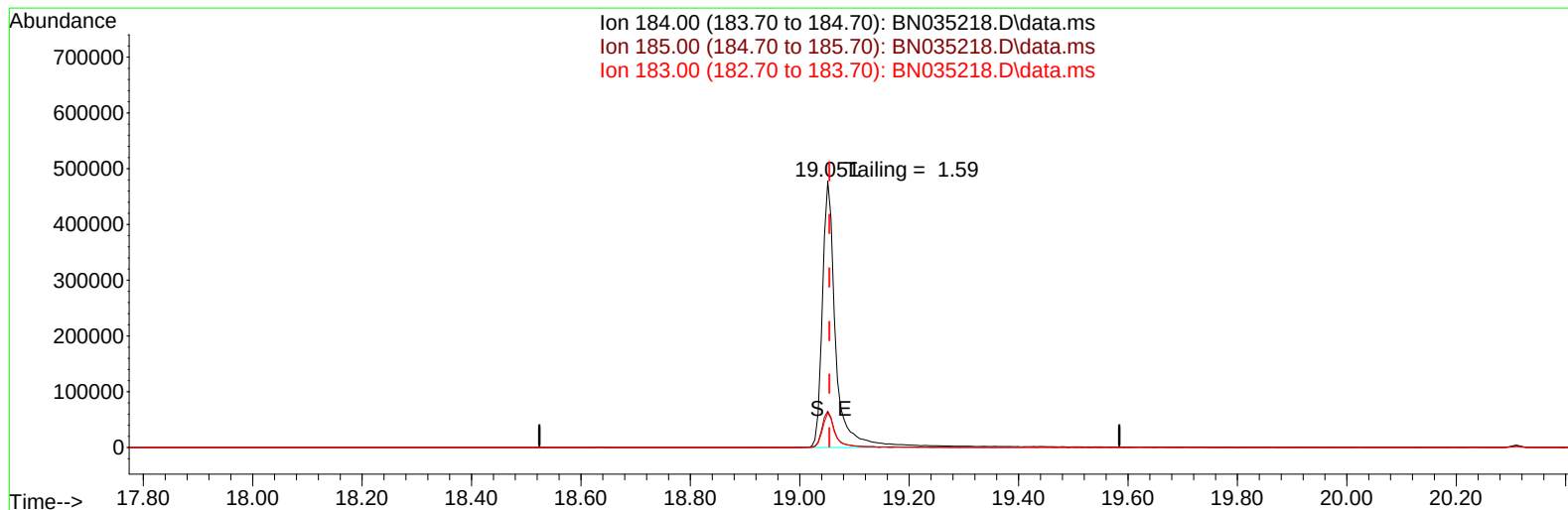
response 386007

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	63.76
264.00	61.60	64.93
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112124\
Data File : BN035218.D
Acq On : 21 Nov 2024 12:43
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Nov 21 15:39:01 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 03:21:56 2024
Response via : Initial Calibration



TIC: BN035218.D\data.ms

(77) Benzidine

19.051min (-0.003) 13099.41 ng m

response 829797

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.69
183.00	13.20	13.01
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

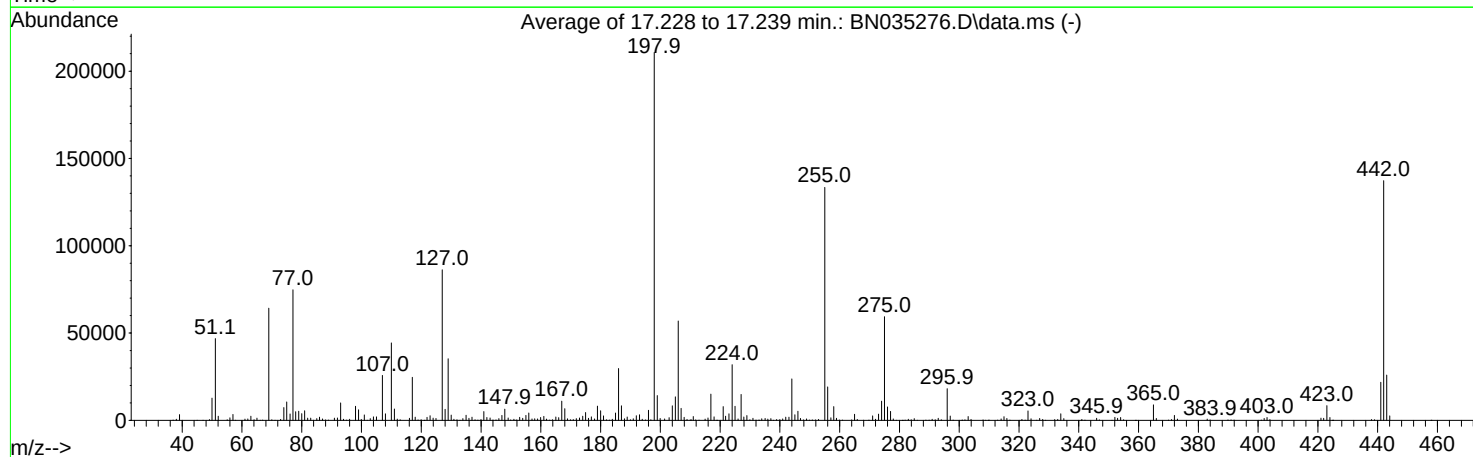
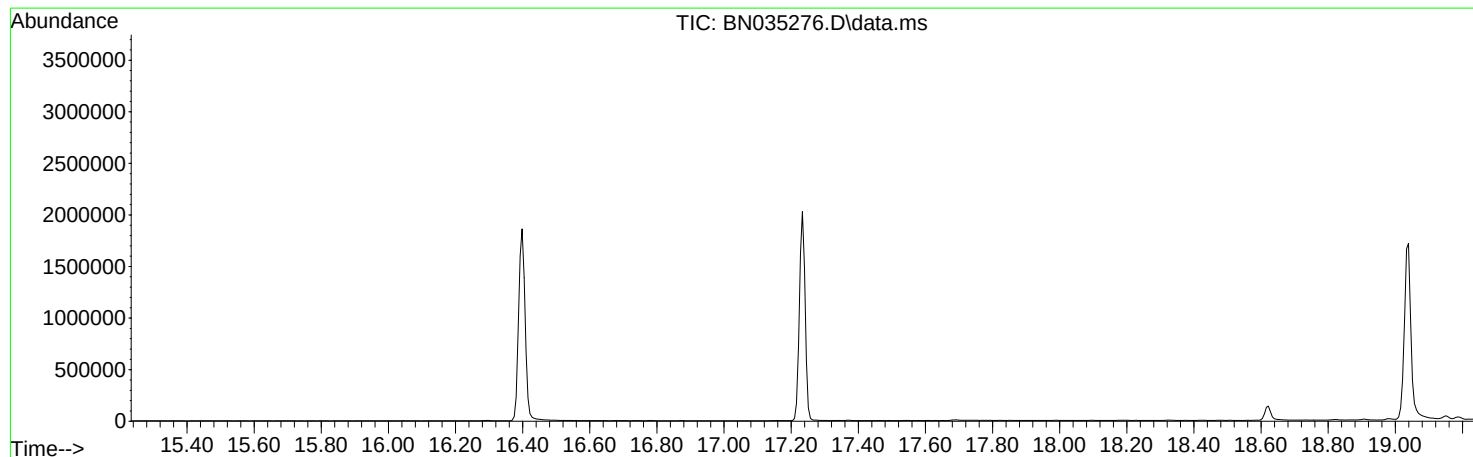
Date	Instrument Name	DFTPP Data File
11/21/2024	BNA_N	<u>BN035218.D</u>
Compound Name	Response	Retention Time
DDT	699093	20.31
DDD	18584	19.863
DDE	951	19.351
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
19535	718628	2.72

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
Data File : BN035276.D
Acq On : 25 Nov 2024 09:37
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 51 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Nov 26 02:36:08 2024



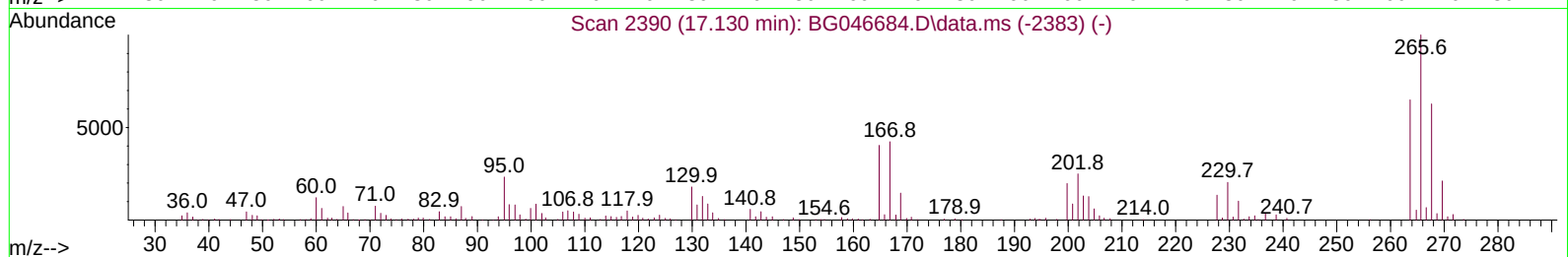
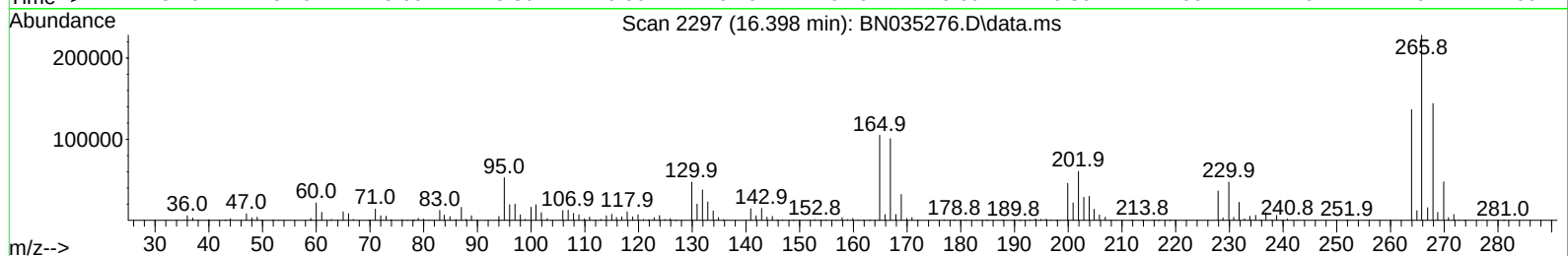
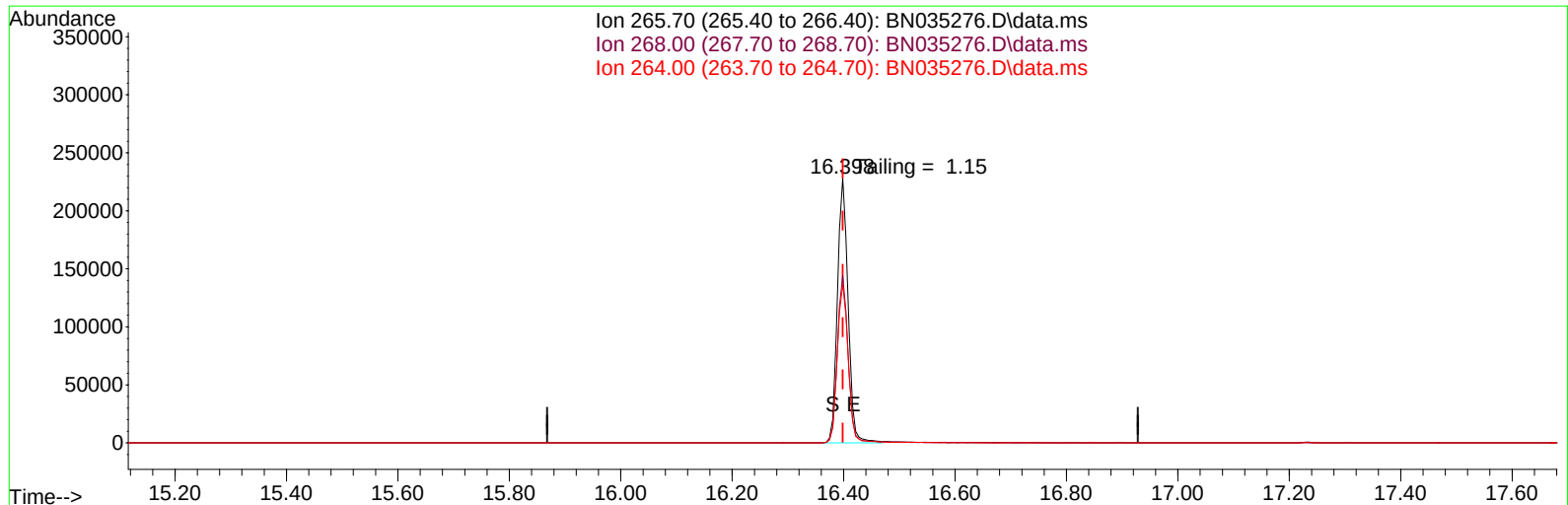
AutoFind: Scans 2438, 2439, 2440; Background Corrected with Scan 2431

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	22.2	46795	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	30.5	64280	PASS
70	69	0.00	2	0.5	352	PASS
127	198	10	80	40.9	86240	PASS
197	198	0.00	2	0.2	340	PASS
198	198	100	100	100.0	210688	PASS
199	198	5	9	6.7	14182	PASS
275	198	10	60	28.2	59405	PASS
365	198	1	100	4.2	8892	PASS
441	198	0.01	100	10.4	21850	PASS
442	442	50	100	100.0	137299	PASS
443	442	15	24	18.9	25952	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
Data File : BN035276.D
Acq On : 25 Nov 2024 09:37
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 51 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Nov 26 05:17:59 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 26 05:17:50 2024
Response via : Initial Calibration



TIC: BN035276.D\data.ms

(70) Pentachlorophenol (C)

16.398min (0.000) 33730.33 ng

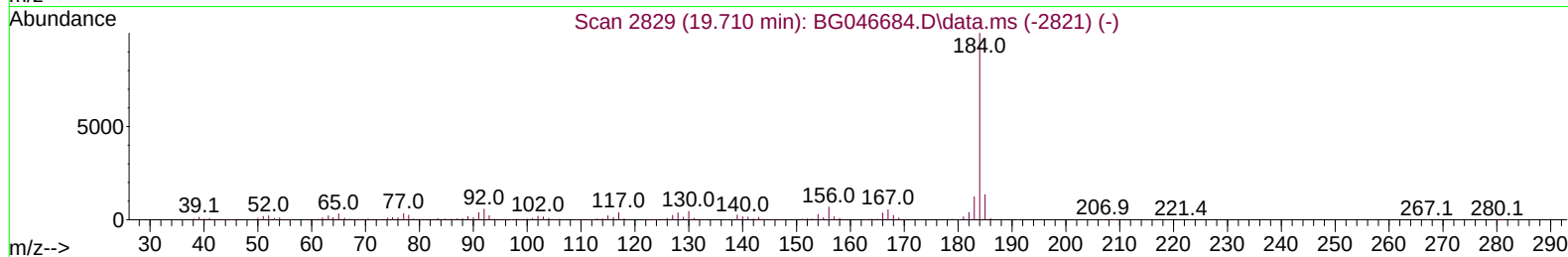
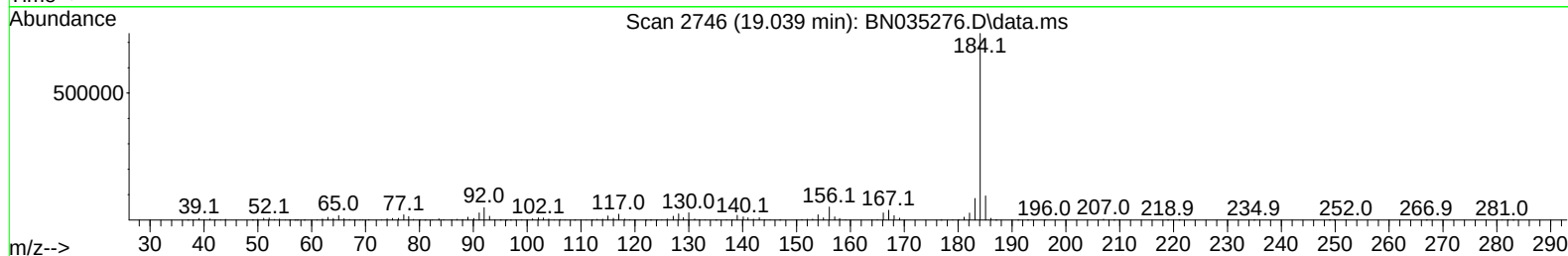
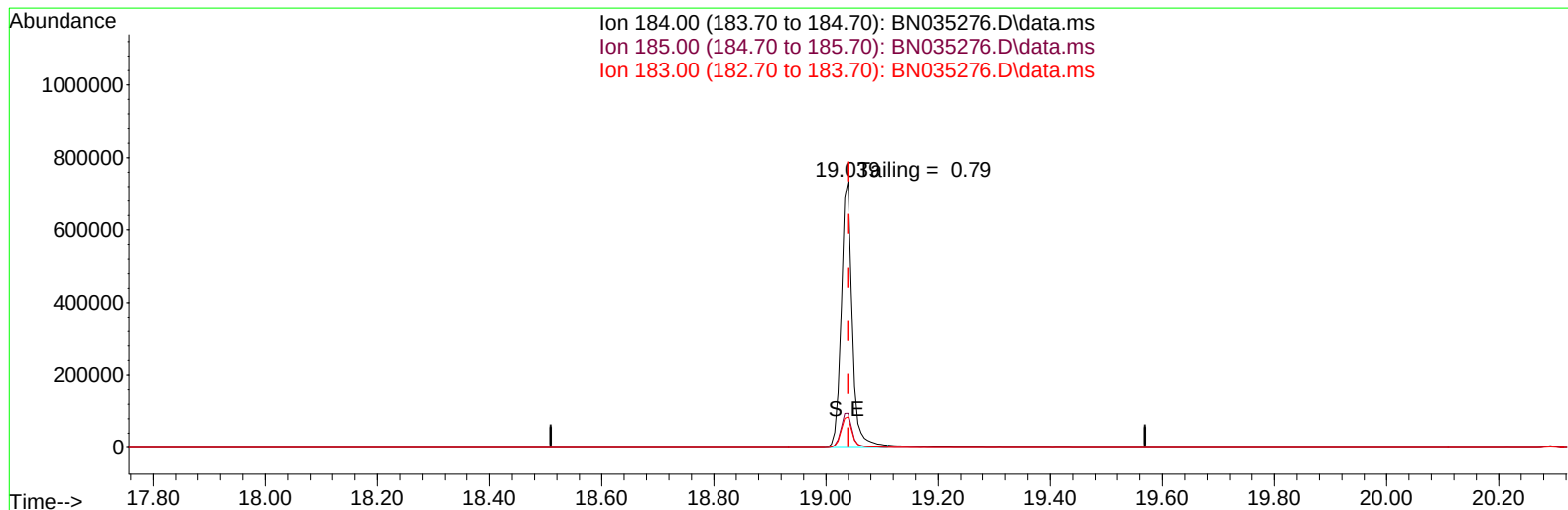
response 307325

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	63.17
264.00	61.60	59.86
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
Data File : BN035276.D
Acq On : 25 Nov 2024 09:37
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 51 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Nov 26 05:17:59 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 26 05:17:50 2024
Response via : Initial Calibration



TIC: BN035276.D\data.ms

(77) Benzidine

19.039min (0.000) 0.00 ng

response 1018750

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	12.97
183.00	13.20	11.60
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
11/25/2024	BNA_N	<u>BN035276.D</u>
Compound Name	Response	Retention Time
DDT	703573	20.292
DDD	32612	19.845
DDE	1098	19.333
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
33710	737283	4.57

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	PB165150BL	SDG No.:	P4934
Lab Sample ID:	PB165150BL	Matrix:	Water
Analytical Method:	SW8270SIM	% 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 :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035285.D	1	11/21/24 08:27	11/25/24 15:44	PB165150

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.38		30 - 150		94%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.33		30 - 150		81%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.20	*	55 - 111		50%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.73	*	53 - 106		183%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.32		58 - 132		79%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3590	7.315				
1146-65-2	Naphthalene-d8	7820	10.063				
15067-26-2	Acenaphthene-d10	3950	13.976				
1517-22-2	Phenanthrene-d10	8150	16.734				
1719-03-5	Chrysene-d12	804	21.008				
1520-96-3	Perylene-d12	4510	23.081				

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\BN112524\
 Data File : BN035285.D
 Acq On : 25 Nov 2024 15:44
 Operator : RC/JU
 Sample : PB165150BL
 Misc :
 ALS Vial : 61 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB165150BL

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/27/2024
 Supervised By :mohammad ahmed 11/27/2024

Quant Time: Nov 26 01:59:18 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Nov 25 14:32:52 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.315	152	3592	0.400	ng	0.00
7) Naphthalene-d8	10.063	136	7815	0.400	ng	0.00
13) Acenaphthene-d10	13.976	164	3951	0.400	ng	0.00
19) Phenanthrene-d10	16.734	188	8151	0.400	ng	0.00
29) Chrysene-d12	21.008	240	804	0.400	ng	# 0.00
35) Perylene-d12	23.081	264	4507	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.975	112	2542	0.375	ng	0.00
5) Phenol-d6	6.520	99	3467	0.366	ng	0.00
8) Nitrobenzene-d5	8.450	82	1253m	0.198	ng	0.00
11) 2-Methylnaphthalene-d10	11.667	152	4135	0.378	ng	0.00
14) 2,4,6-Tribromophenol	15.494	330	137	0.068	ng	0.01
15) 2-Fluorobiphenyl	12.608	172	1594	0.730	ng	0.00
27) Fluoranthene-d10	18.792	212	7109	0.326	ng	0.00
31) Terphenyl-d14	19.419	244	4697	0.316	ng	0.00

Target Compounds Qvalue

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

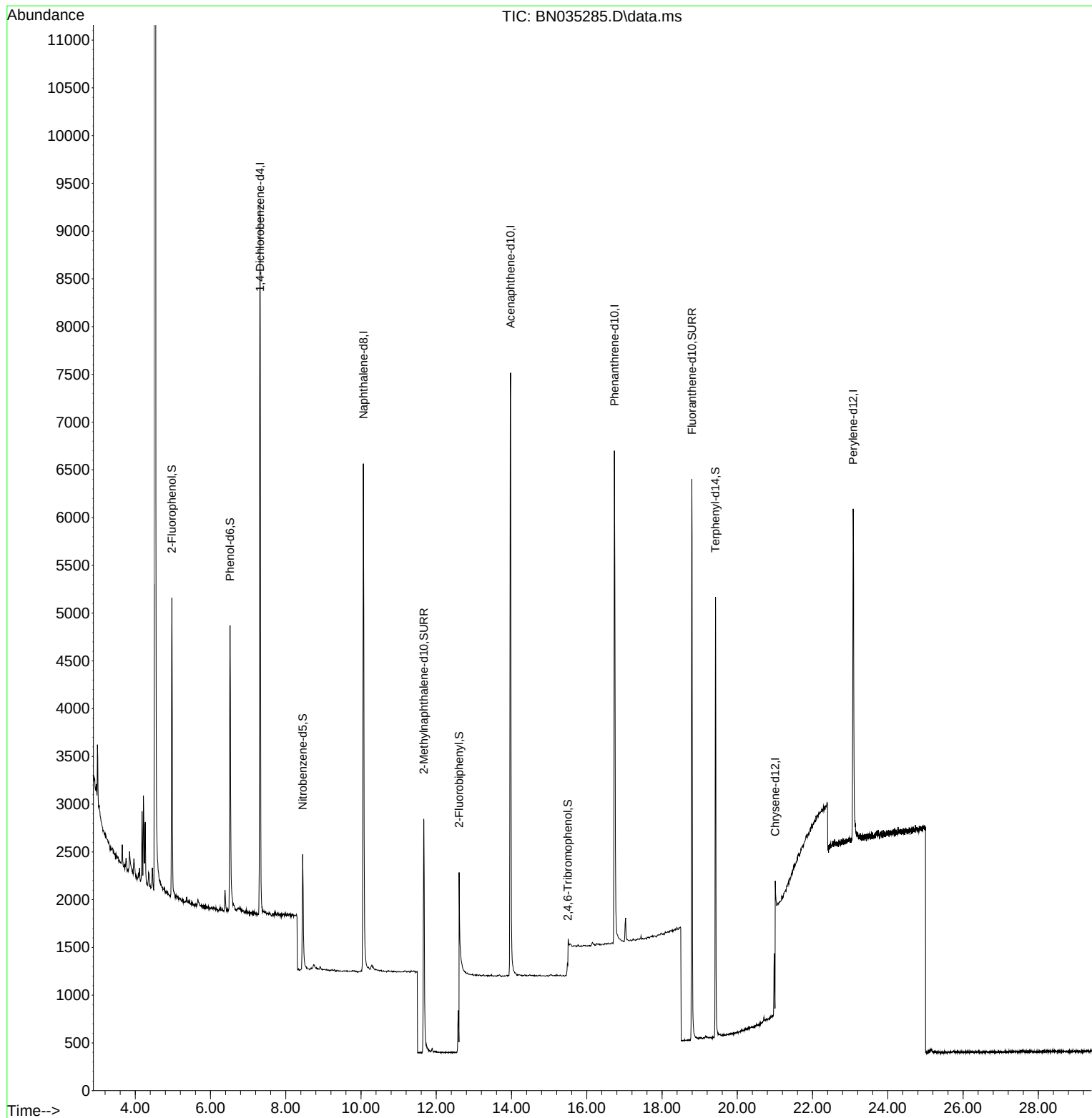
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Acq On : 25 Nov 2024 15:44
Operator : RC/JU
Sample : PB165150BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

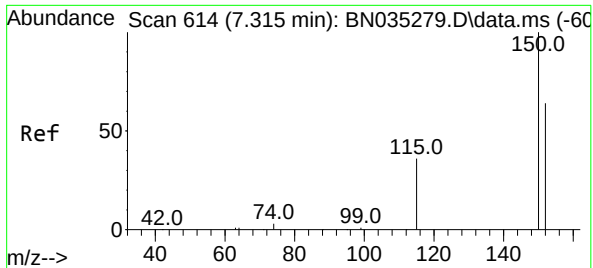
Instrument :
BNA_N
ClientSampleId :
PB165150BL

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024

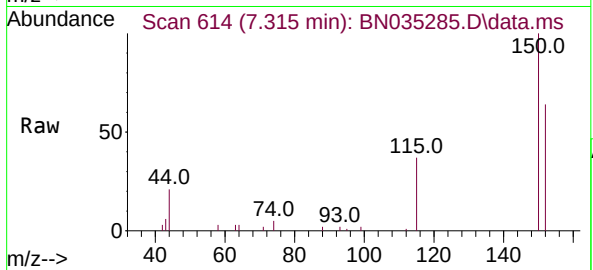
Quant Time: Nov 26 01:59:18 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 25 14:32:52 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.315 min Scan# 614
Delta R.T. -0.000 min
Lab File: BN035285.D
Acq: 25 Nov 2024 15:44

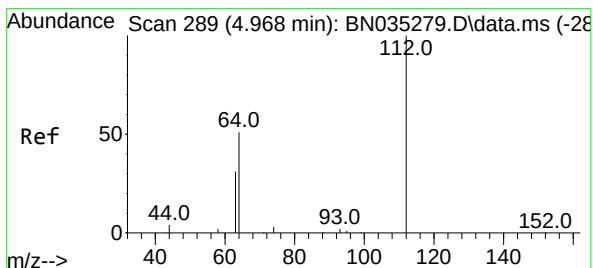
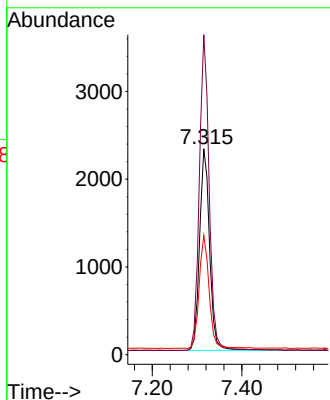
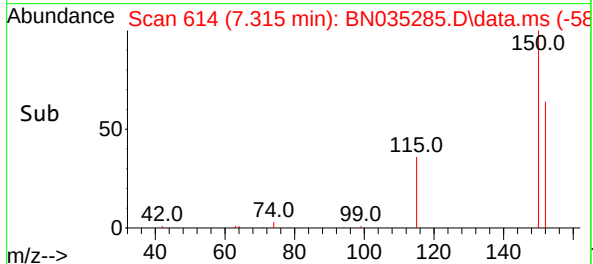
Instrument :
BNA_N
ClientSampleId :
PB165150BL



Tgt Ion:152 Resp: 3592
Ion Ratio Lower Upper
152 100
150 155.4 124.5 186.7
115 57.9 47.8 71.8

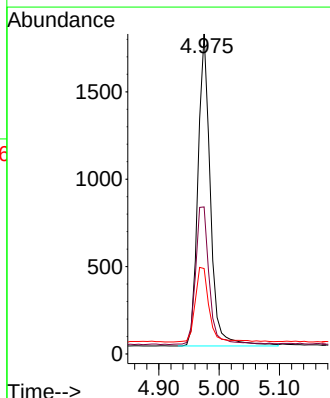
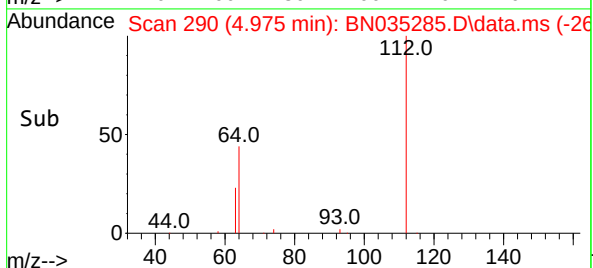
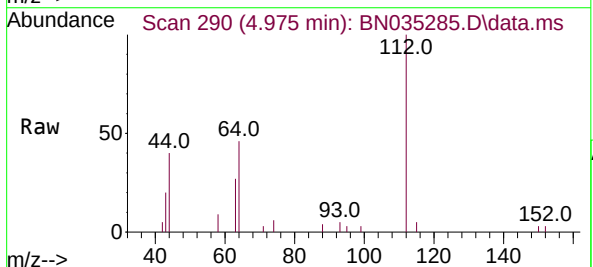
Manual Integrations
APPROVED

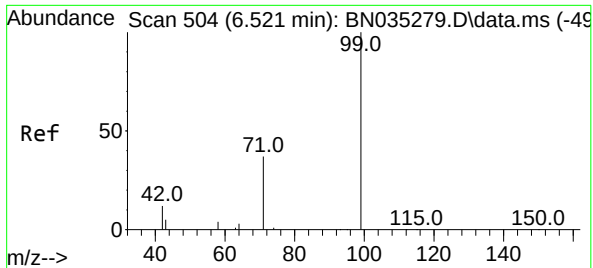
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#4
2-Fluorophenol
Concen: 0.375 ng
RT: 4.975 min Scan# 290
Delta R.T. 0.007 min
Lab File: BN035285.D
Acq: 25 Nov 2024 15:44

Tgt Ion:112 Resp: 2542
Ion Ratio Lower Upper
112 100
64 48.7 40.4 60.6
63 26.7 23.8 35.8





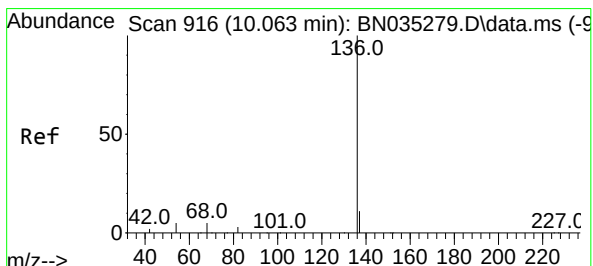
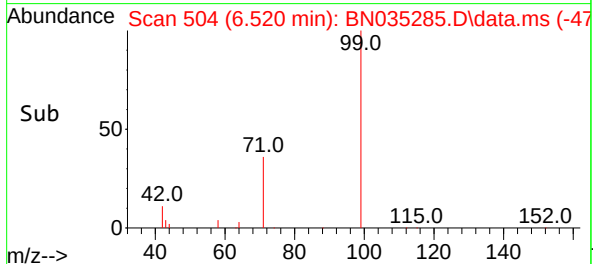
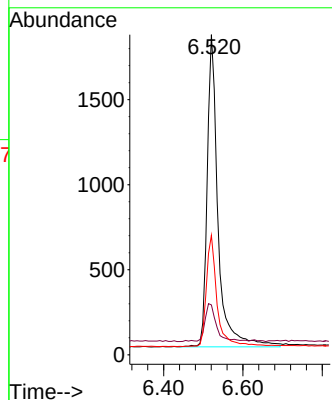
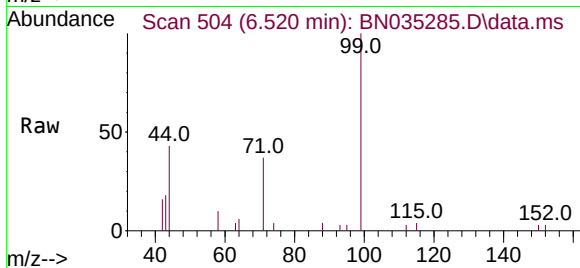
#5
Phenol-d6
Concen: 0.366 ng
RT: 6.520 min Scan# 504
Delta R.T. -0.000 min
Lab File: BN035285.D
Acq: 25 Nov 2024 15:44

Instrument :
BNA_N
ClientSampleId :
PB165150BL

Tgt Ion: 99 Resp: 346
Ion Ratio Lower Upper
99 100
42 12.2 12.8 19.2
71 35.5 31.4 47.2

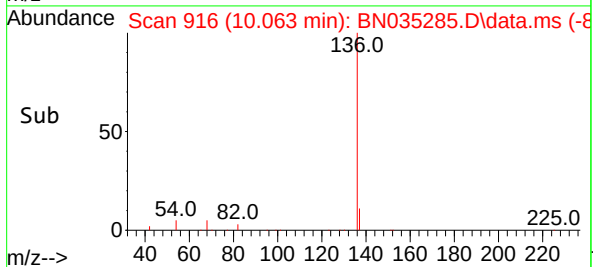
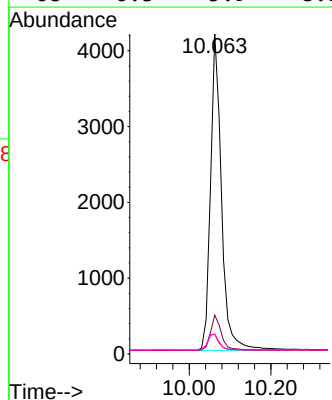
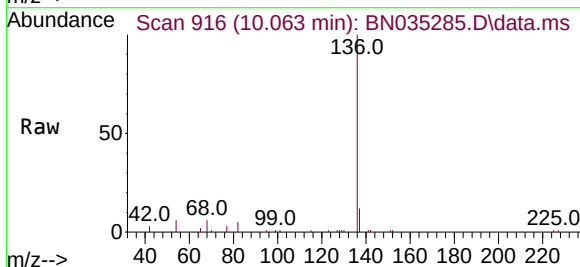
Manual Integrations
APPROVED

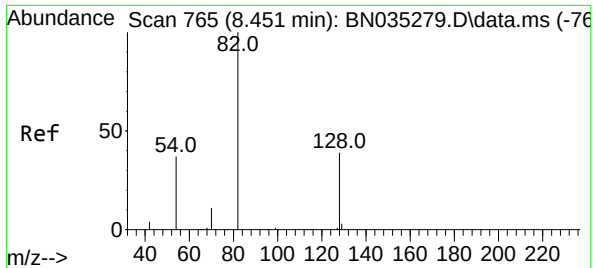
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.063 min Scan# 916
Delta R.T. -0.000 min
Lab File: BN035285.D
Acq: 25 Nov 2024 15:44

Tgt Ion:136 Resp: 7815
Ion Ratio Lower Upper
136 100
137 12.2 9.7 14.5
54 6.1 5.3 7.9
68 6.3 5.9 8.9





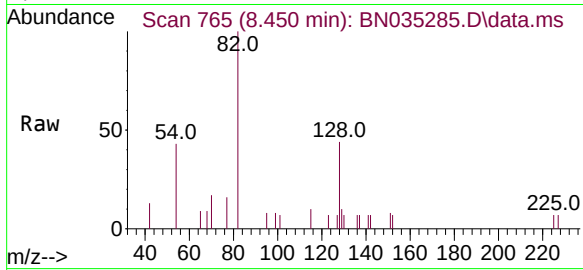
#8
Nitrobenzene-d5
Concen: 0.198 ng m
RT: 8.450 min Scan# 765
Delta R.T. -0.000 min
Lab File: BN035285.D
Acq: 25 Nov 2024 15:44

Instrument :

BNA_N

ClientSampleId :

PB165150BL



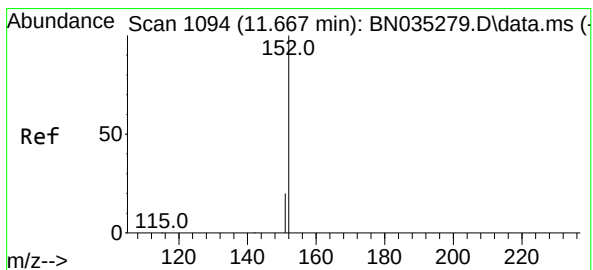
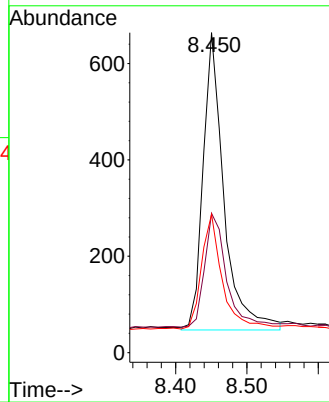
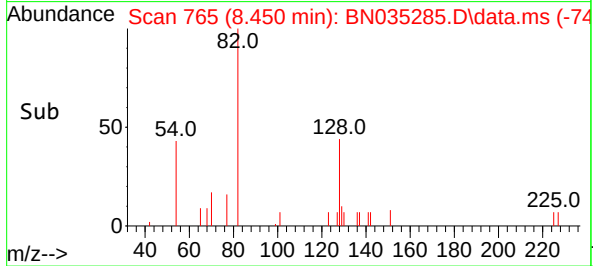
Tgt Ion	Ratio	Lower	Upper
82	100		
128	43.5	33.0	49.4
54	43.2	33.3	49.9

Manual Integrations

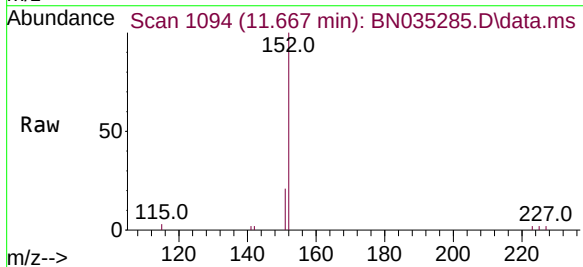
APPROVED

Reviewed By :Yogesh Patel 11/27/2024

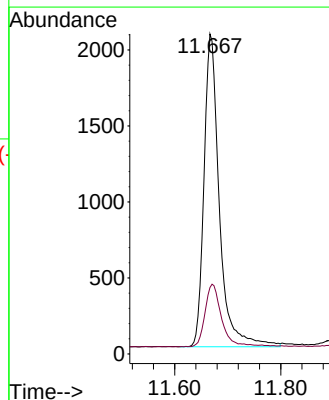
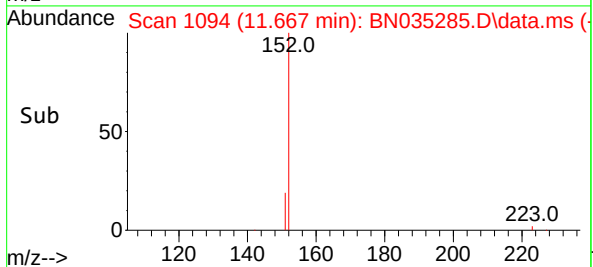
Supervised By :mohammad ahmed 11/27/2024

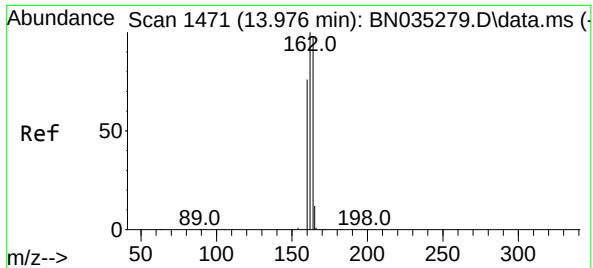


#11
2-Methylnaphthalene-d10
Concen: 0.378 ng
RT: 11.667 min Scan# 1094
Delta R.T. -0.000 min
Lab File: BN035285.D
Acq: 25 Nov 2024 15:44



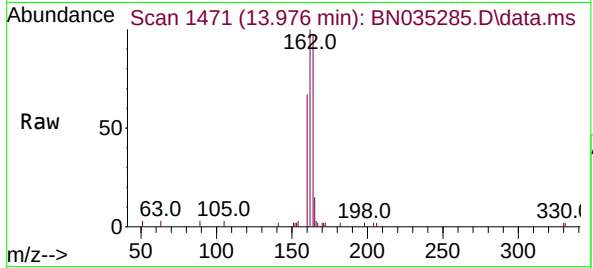
Tgt Ion	Ratio	Lower	Upper
152	100		
151	21.4	17.2	25.8





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.976 min Scan# 1471
Delta R.T. -0.000 min
Lab File: BN035285.D
Acq: 25 Nov 2024 15:44

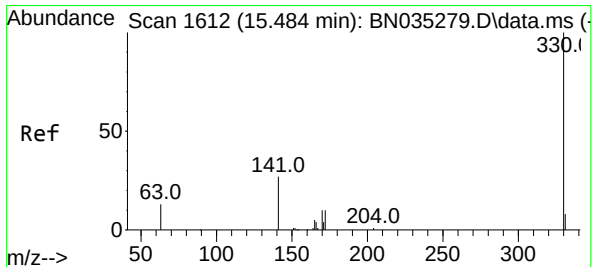
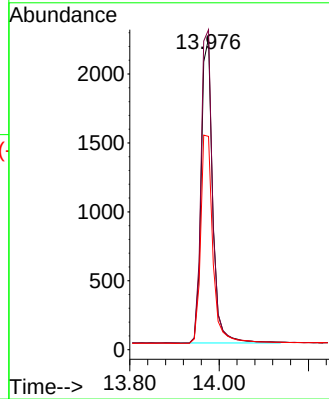
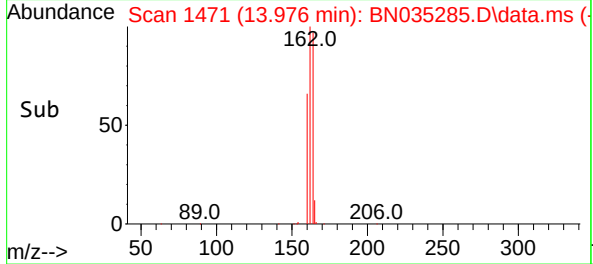
Instrument :
BNA_N
ClientSampleId :
PB165150BL



Tgt Ion:164 Resp: 395
Ion Ratio Lower Upper
164 100
162 102.8 82.0 123.0
160 68.5 63.0 94.4

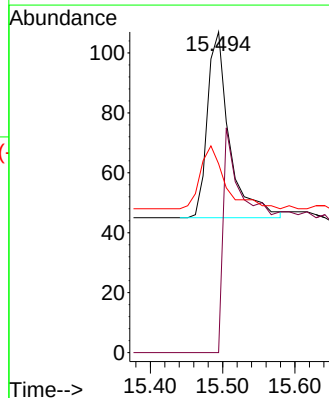
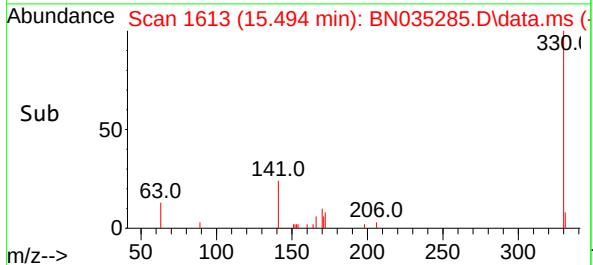
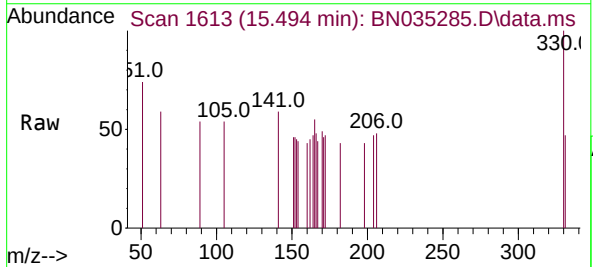
Manual Integrations
APPROVED

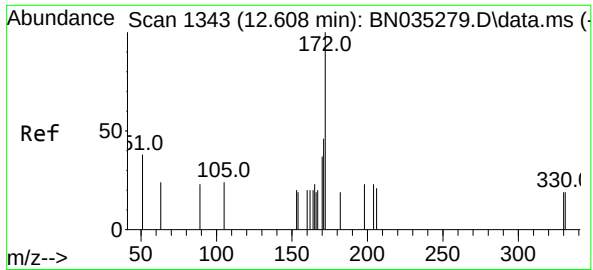
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#14
2,4,6-Tribromophenol
Concen: 0.068 ng
RT: 15.494 min Scan# 1613
Delta R.T. 0.010 min
Lab File: BN035285.D
Acq: 25 Nov 2024 15:44

Tgt Ion:330 Resp: 137
Ion Ratio Lower Upper
330 100
332 197.1 0.0 0.0#
141 0.0 32.4 48.6#





#15
2-Fluorobiphenyl
Concen: 0.730 ng
RT: 12.608 min Scan# 1343
Delta R.T. -0.000 min
Lab File: BN035285.D
Acq: 25 Nov 2024 15:44

Instrument :

BNA_N

ClientSampleId :

PB165150BL

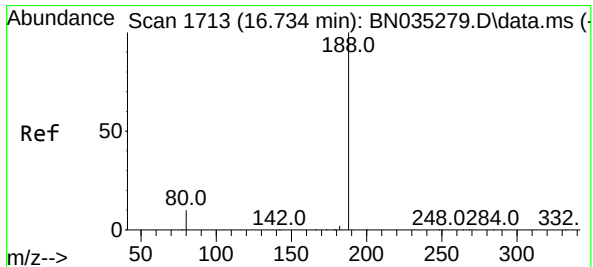
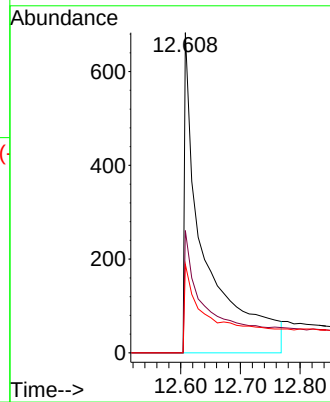
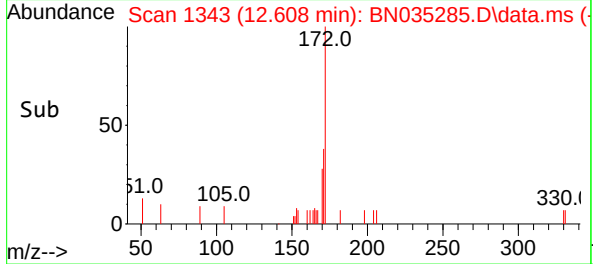
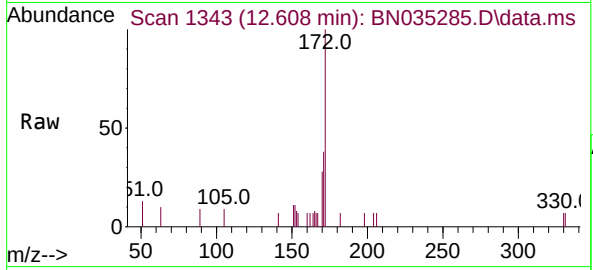
Tgt Ion	Ratio	Lower	Upper
172	100		
171	38.2	36.6	55.0
170	27.7	29.7	44.5

Manual Integrations

APPROVED

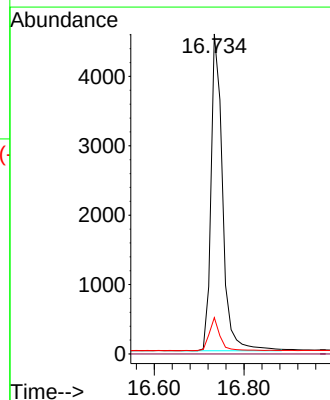
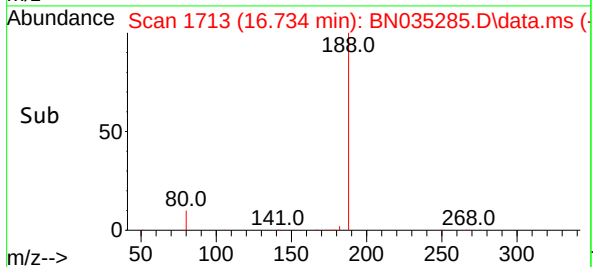
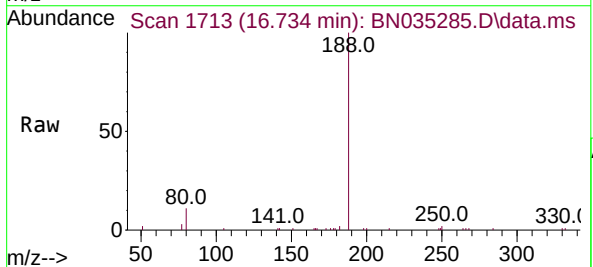
Reviewed By :Yogesh Patel 11/27/2024

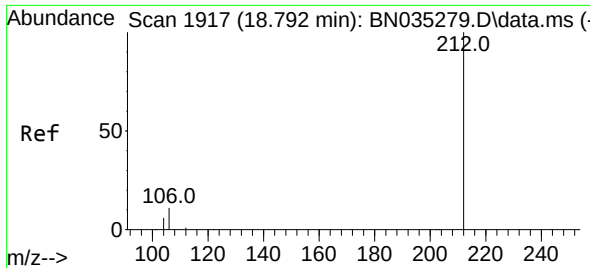
Supervised By :mohammad ahmed 11/27/2024



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.734 min Scan# 1713
Delta R.T. -0.000 min
Lab File: BN035285.D
Acq: 25 Nov 2024 15:44

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.3	8.9	13.3





#27

Fluoranthene-d10

Concen: 0.326 ng

RT: 18.792 min Scan# 1917

Delta R.T. -0.000 min

Lab File: BN035285.D

Acq: 25 Nov 2024 15:44

Instrument :

BNA_N

ClientSampleId :

PB165150BL

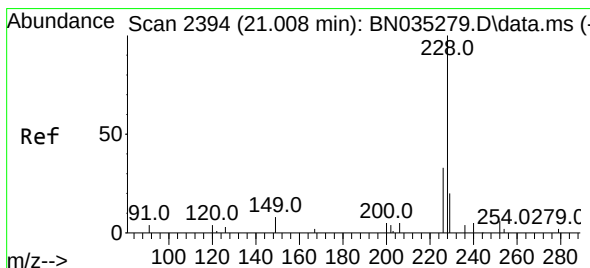
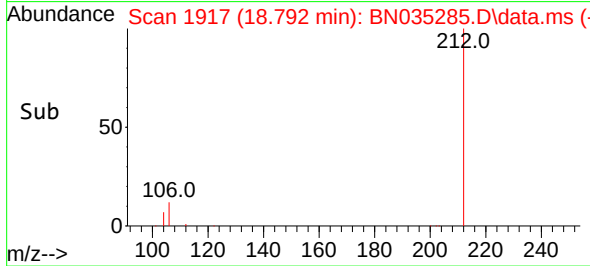
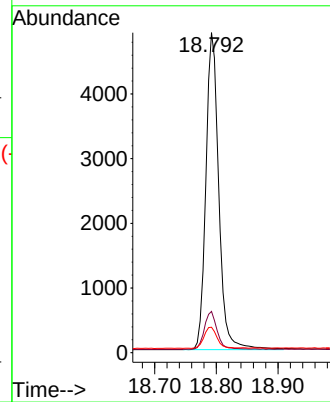
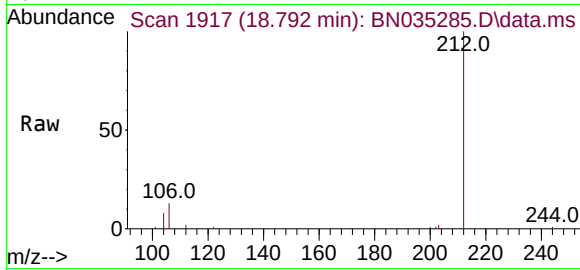
Tgt Ion:	212	Resp:	7109
Ion Ratio	Lower	Upper	
212	100		
106	12.0	9.8	14.8
104	6.7	5.6	8.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/27/2024

Supervised By :mohammad ahmed 11/27/2024



#29

Chrysene-d12

Concen: 0.400 ng

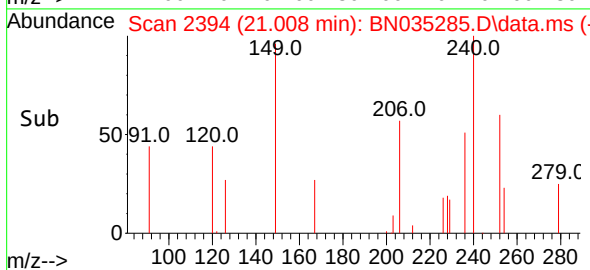
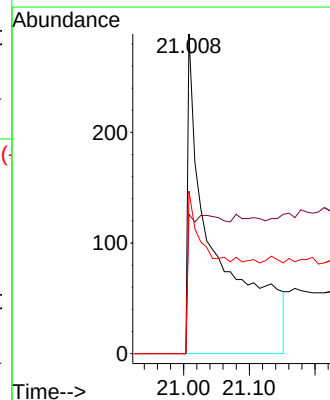
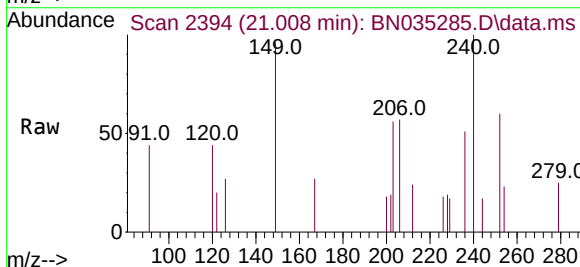
RT: 21.008 min Scan# 2394

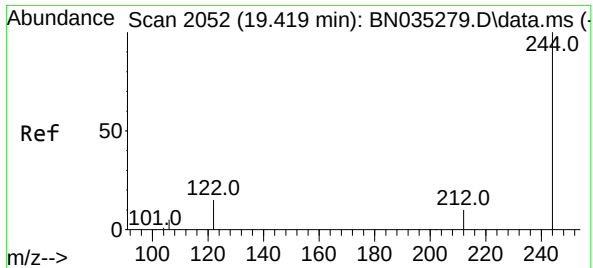
Delta R.T. -0.000 min

Lab File: BN035285.D

Acq: 25 Nov 2024 15:44

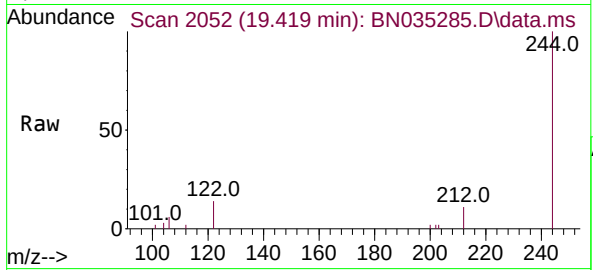
Tgt Ion:	240	Resp:	804
Ion Ratio	Lower	Upper	
240	100		
120	43.6	54.9	82.3#
236	50.9	54.0	81.0#





#31
Terphenyl-d14
Concen: 0.316 ng
RT: 19.419 min Scan# 2052
Delta R.T. 0.000 min
Lab File: BN035285.D
Acq: 25 Nov 2024 15:44

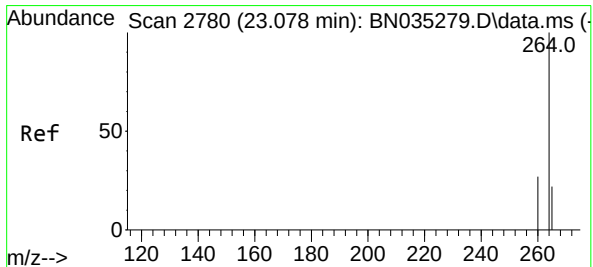
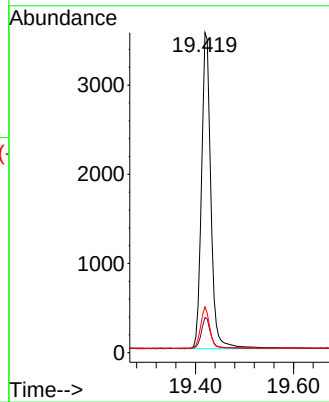
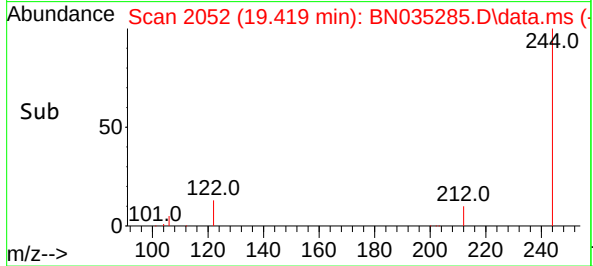
Instrument :
BNA_N
ClientSampleId :
PB165150BL



Tgt Ion:244 Resp: 469
Ion Ratio Lower Upper
244 100
212 11.0 9.4 14.0
122 14.3 13.0 19.4

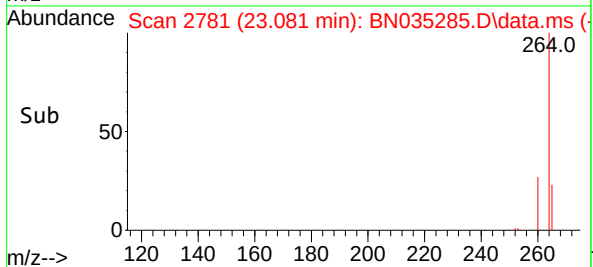
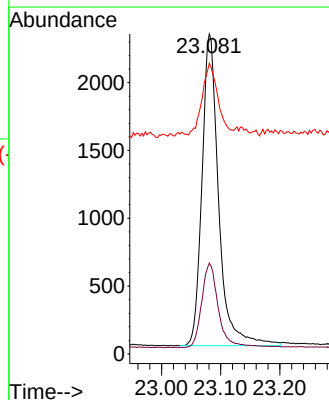
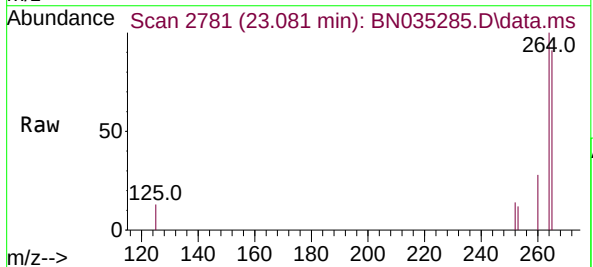
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.081 min Scan# 2781
Delta R.T. 0.003 min
Lab File: BN035285.D
Acq: 25 Nov 2024 15:44

Tgt Ion:264 Resp: 4507
Ion Ratio Lower Upper
264 100
260 28.4 22.3 33.5
265 90.8 68.6 103.0



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	PB165150BS	SDG No.:	P4934
Lab Sample ID:	PB165150BS	Matrix:	Water
Analytical Method:	SW8270SIM	% 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 :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035290.D	1	11/21/24 08:27	11/25/24 18:44	PB165150

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.45		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.48		30 - 150		121%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.35		30 - 150		87%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.23		55 - 111		57%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.27		53 - 106		68%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.46		58 - 132		115%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3630	7.315				
1146-65-2	Naphthalene-d8	8520	10.063				
15067-26-2	Acenaphthene-d10	4790	13.966				
1517-22-2	Phenanthrene-d10	9610	16.734				
1719-03-5	Chrysene-d12	730	21.008				
1520-96-3	Perylene-d12	5490	23.081				

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\BN112524\
 Data File : BN035290.D
 Acq On : 25 Nov 2024 18:44
 Operator : RC/JU
 Sample : PB165150BS
 Misc :
 ALS Vial : 66 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

PB165150BS

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/27/2024

Supervised By :mohammad ahmed 11/27/2024

Quant Time: Nov 26 03:32:01 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Tue Nov 26 02:36:08 2024

Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.315	152	3630	0.400	ng	0.00
7) Naphthalene-d8	10.063	136	8519	0.400	ng	# 0.00
13) Acenaphthene-d10	13.966	164	4791	0.400	ng	#-0.01
19) Phenanthrene-d10	16.734	188	9614	0.400	ng	0.00
29) Chrysene-d12	21.008	240	730	0.400	ng	0.00
35) Perylene-d12	23.081	264	5488	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.975	112	2994	0.437	ng	0.00
5) Phenol-d6	6.520	99	3620	0.378	ng	0.00
8) Nitrobenzene-d5	8.450	82	1584m	0.229	ng	0.00
11) 2-Methylnaphthalene-d10	11.663	152	5762	0.483	ng	0.00
14) 2,4,6-Tribromophenol	15.484	330	538	0.220	ng	0.00
15) 2-Fluorobiphenyl	12.608	172	722	0.273	ng	0.00
27) Fluoranthene-d10	18.792	212	8963	0.348	ng	0.00
31) Terphenyl-d14	19.419	244	6215	0.461	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.003	88	1166	0.447	ng	# 87
3) n-Nitrosodimethylamine	3.292	42	1003	0.371	ng	# 74
6) bis(2-Chloroethyl)ether	6.766	93	3531	0.438	ng	94
9) Naphthalene	10.105	128	8426	0.356	ng	99
10) Hexachlorobutadiene	10.415	225	1969	0.296	ng	# 100
12) 2-Methylnaphthalene	11.742	142	5618	0.363	ng	99
16) Acenaphthylene	13.688	152	8047	0.334	ng	100
17) Acenaphthene	14.030	154	5138	0.338	ng	# 87
18) Fluorene	15.035	166	6631	0.312	ng	98
20) 4,6-Dinitro-2-methylph...	15.131	198	262	0.378	ng	95
21) 4-Bromophenyl-phenylether	15.939	248	2264	0.371	ng	97
22) Hexachlorobenzene	16.051	284	2814	0.322	ng	98
23) Atrazine	16.237	200	929	0.362	ng	97
24) Pentachlorophenol	16.399	266	706	0.337	ng	97
25) Phenanthrene	16.771	178	10143	0.343	ng	100
26) Anthracene	16.870	178	8875	0.350	ng	99
28) Fluoranthene	18.820	202	10421	0.280	ng	99
30) Pyrene	19.187	202	9974	0.376	ng	99
32) Benzo(a)anthracene	21.017	228	8490	0.334	ng	99
33) Chrysene	21.017	228	8490	0.334	ng	99
34) Bis(2-ethylhexyl)phtha...	21.008	149	560	0.401	ng	# 62
36) Indeno(1,2,3-cd)pyrene	25.124	276	8459	0.376	ng	99
37) Benzo(b)fluoranthene	22.464	252	7319	0.307	ng	98
38) Benzo(k)fluoranthene	22.505	252	8291	0.329	ng	98
39) Benzo(a)pyrene	22.990	252	6610	0.363	ng	98
40) Dibenzo(a,h)anthracene	25.142	278	6393	0.376	ng	97
41) Benzo(g,h,i)perylene	25.741	276	7117	0.362	ng	98

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

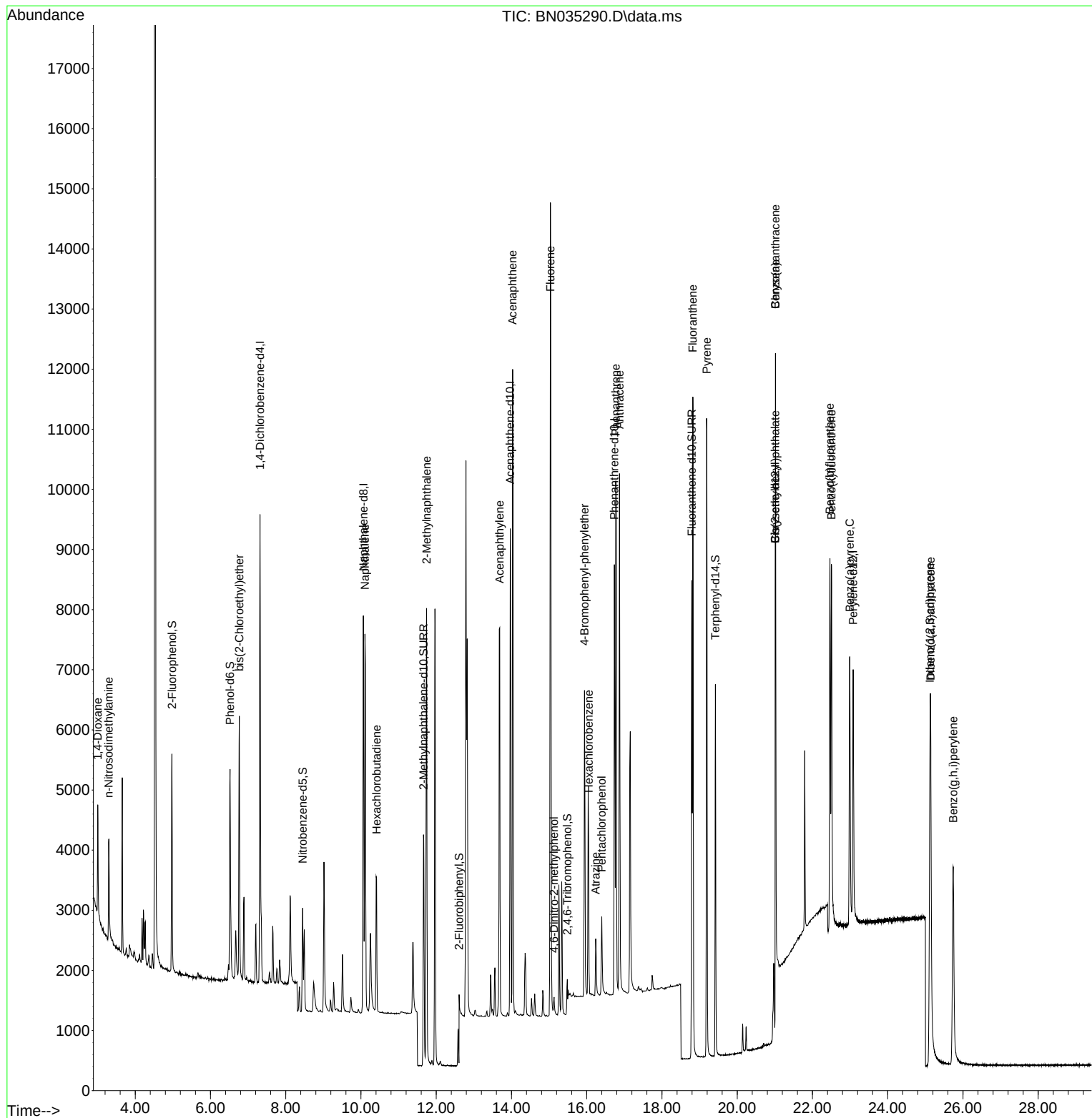
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
Data File : BN035290.D
Acq On : 25 Nov 2024 18:44
Operator : RC/JU
Sample : PB165150BS
Misc :
ALS Vial : 66 Sample Multiplier: 1

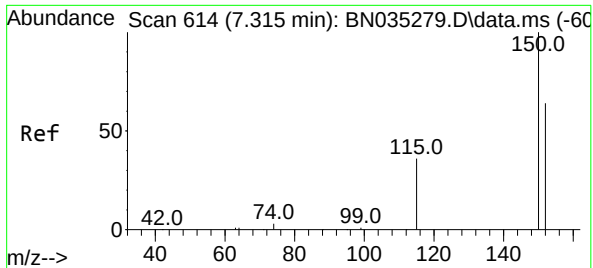
Instrument :
BNA_N
ClientSampleId :
PB165150BS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024

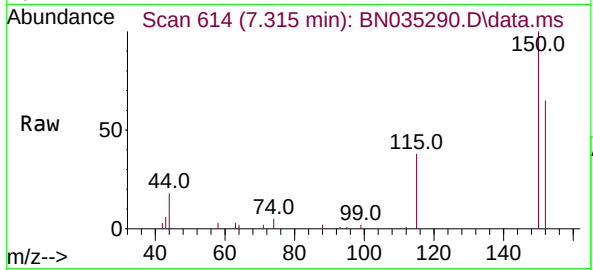
Quant Time: Nov 26 03:32:01 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 26 02:36:08 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.315 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035290.D
Acq: 25 Nov 2024 18:44

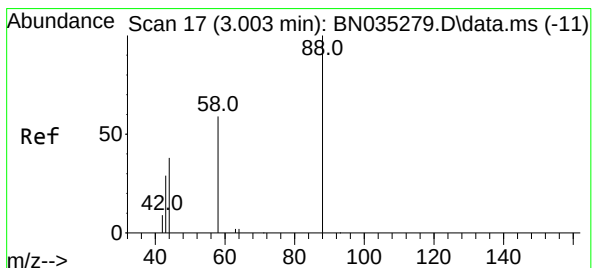
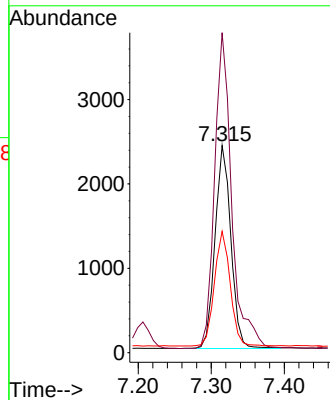
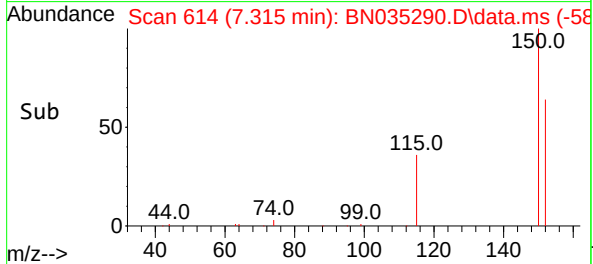
Instrument :
BNA_N
ClientSampleId :
PB165150BS



Tgt Ion:152 Resp: 3630
Ion Ratio Lower Upper
152 100
150 154.4 124.5 186.7
115 58.5 47.8 71.8

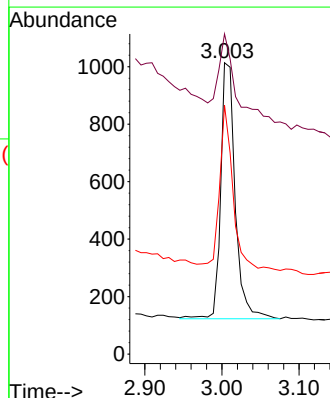
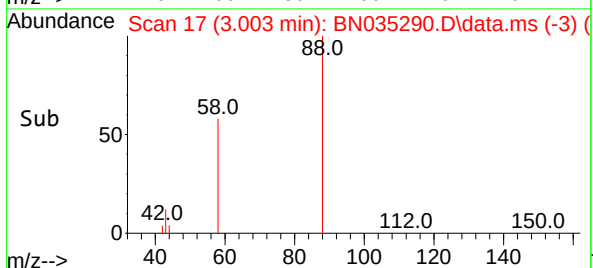
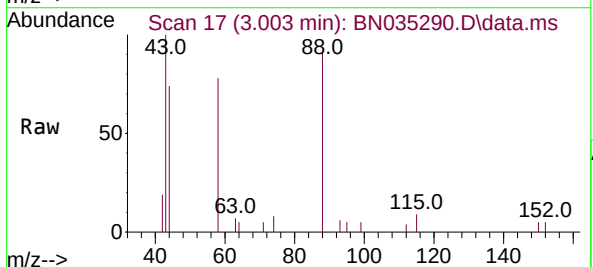
Manual Integrations
APPROVED

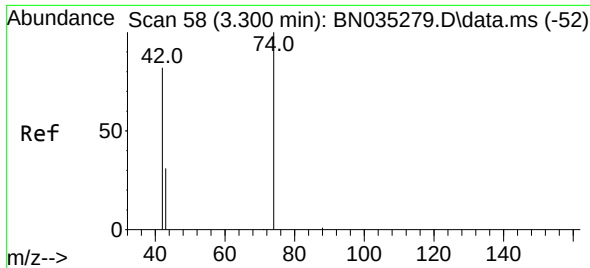
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#2
1,4-Dioxane
Concen: 0.447 ng
RT: 3.003 min Scan# 17
Delta R.T. 0.000 min
Lab File: BN035290.D
Acq: 25 Nov 2024 18:44

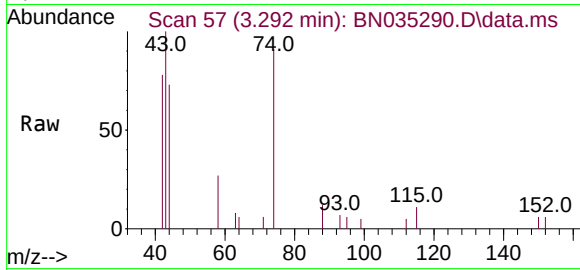
Tgt Ion: 88 Resp: 1166
Ion Ratio Lower Upper
88 100
43 41.9 48.1 72.1#
58 59.9 46.9 70.3





#3
n-Nitrosodimethylamine
Concen: 0.371 ng
RT: 3.292 min Scan# 51
Delta R.T. -0.008 min
Lab File: BN035290.D
Acq: 25 Nov 2024 18:44

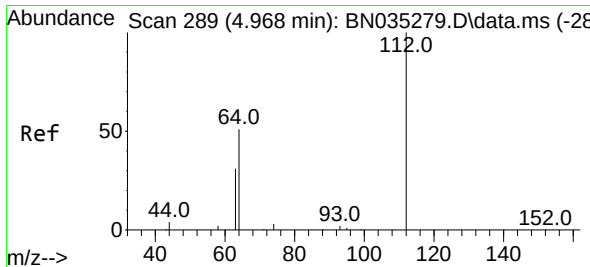
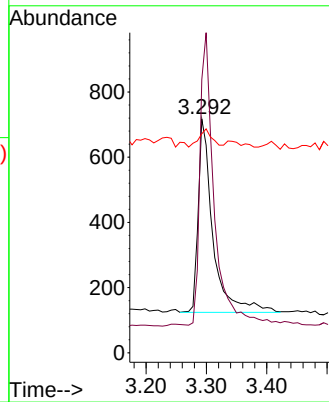
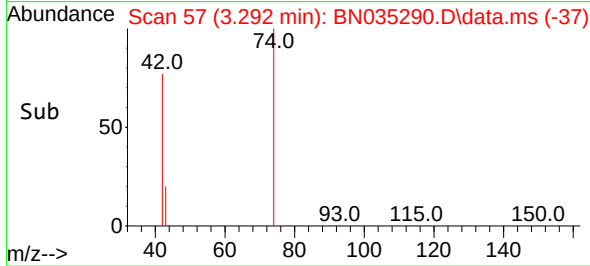
Instrument :
BNA_N
ClientSampleId :
PB165150BS



Tgt Ion: 42 Resp: 100
Ion Ratio Lower Upper
42 100
74 147.2 102.7 154.1
44 8.2 34.1 51.1

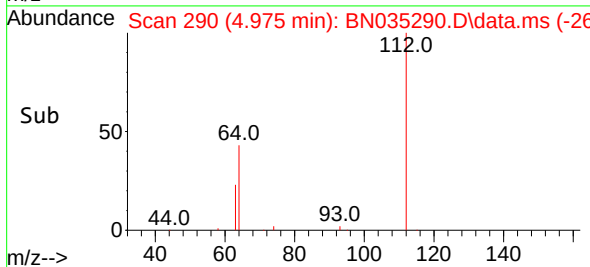
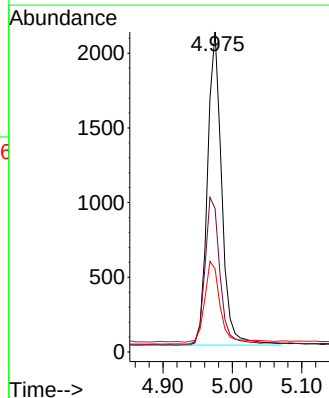
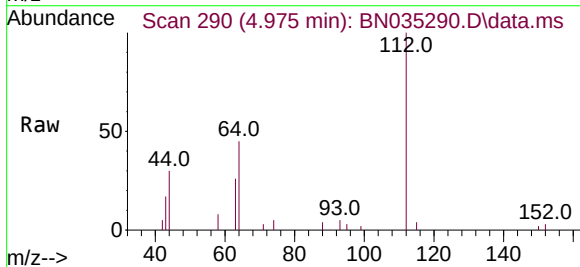
Manual Integrations
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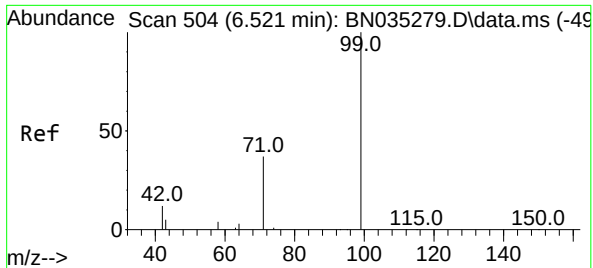
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#4
2-Fluorophenol
Concen: 0.437 ng
RT: 4.975 min Scan# 290
Delta R.T. 0.007 min
Lab File: BN035290.D
Acq: 25 Nov 2024 18:44

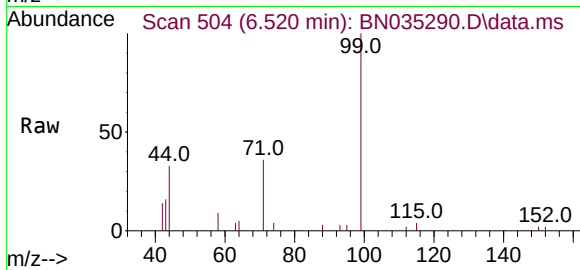
Tgt Ion:112 Resp: 2994
Ion Ratio Lower Upper
112 100
64 48.5 40.4 60.6
63 27.5 23.8 35.8





#5
Phenol-d6
Concen: 0.378 ng
RT: 6.520 min Scan# 504
Delta R.T. -0.000 min
Lab File: BN035290.D
Acq: 25 Nov 2024 18:44

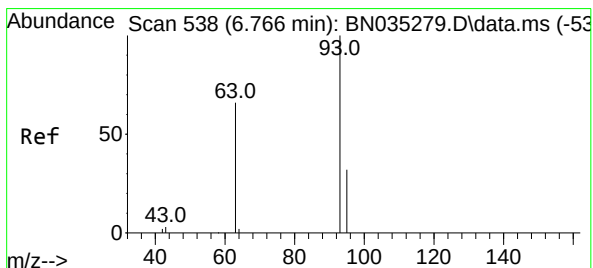
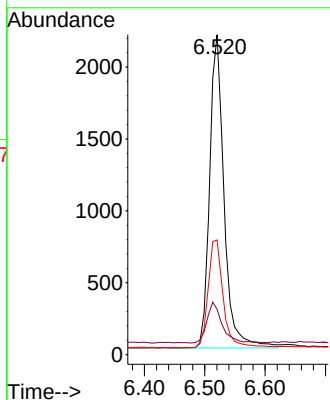
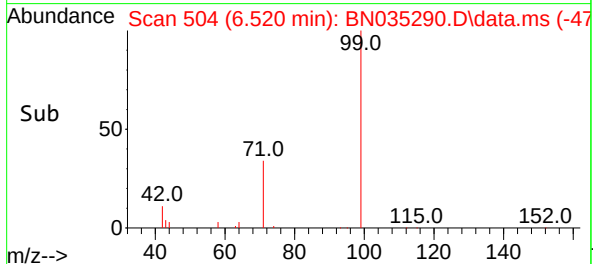
Instrument :
BNA_N
ClientSampleId :
PB165150BS



Tgt Ion: 99 Resp: 3620
Ion Ratio Lower Upper
99 100
42 13.8 12.8 19.2
71 35.9 31.4 47.2

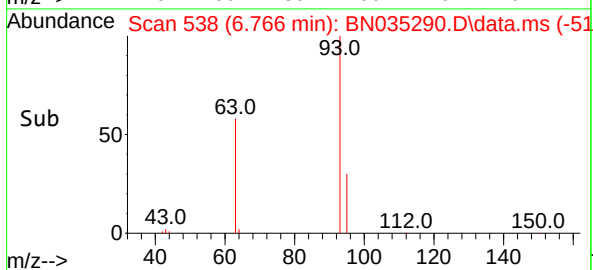
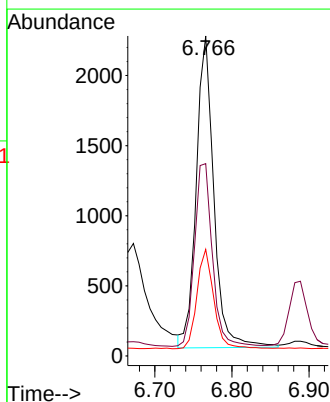
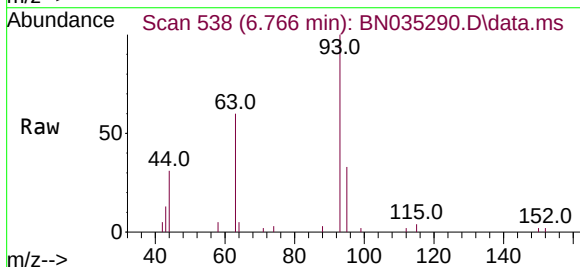
Manual Integrations
APPROVED

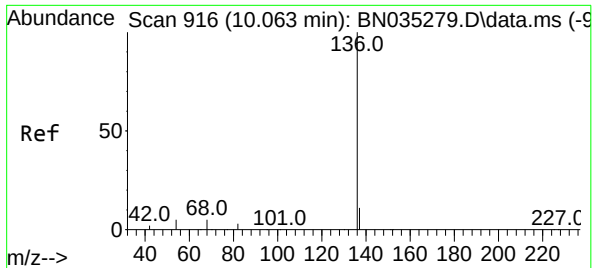
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.438 ng
RT: 6.766 min Scan# 538
Delta R.T. -0.000 min
Lab File: BN035290.D
Acq: 25 Nov 2024 18:44

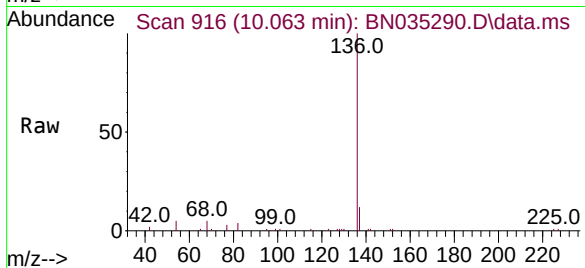
Tgt Ion: 93 Resp: 3531
Ion Ratio Lower Upper
93 100
63 59.4 52.3 78.5
95 30.4 25.5 38.3





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.063 min Scan# 916
Delta R.T. -0.000 min
Lab File: BN035290.D
Acq: 25 Nov 2024 18:44

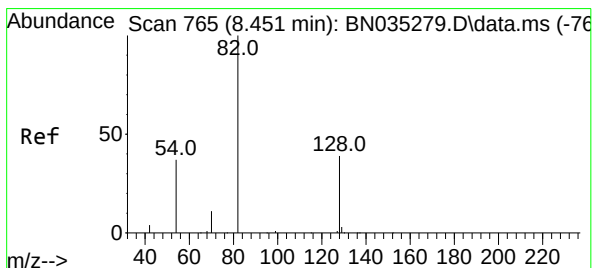
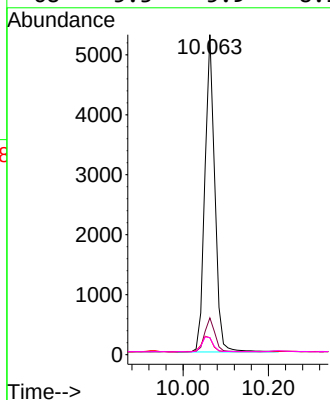
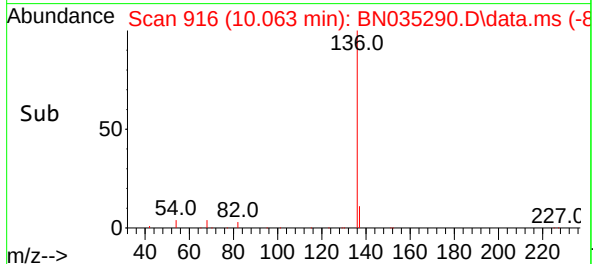
Instrument :
BNA_N
ClientSampleId :
PB165150BS



Tgt Ion: 136 Resp: 8519
Ion Ratio Lower Upper
136 100
137 11.5 9.7 14.5
54 5.3 5.3 7.9
68 5.3 5.9 8.9#

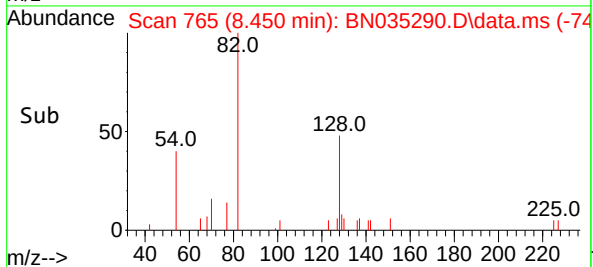
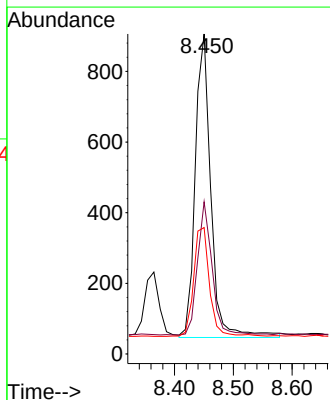
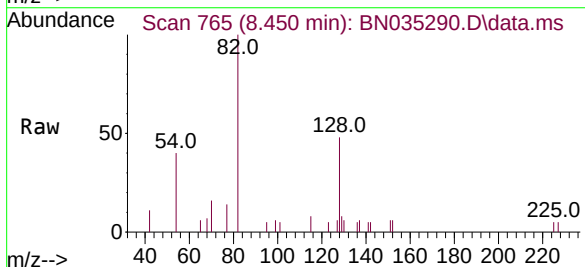
Manual Integrations
APPROVED

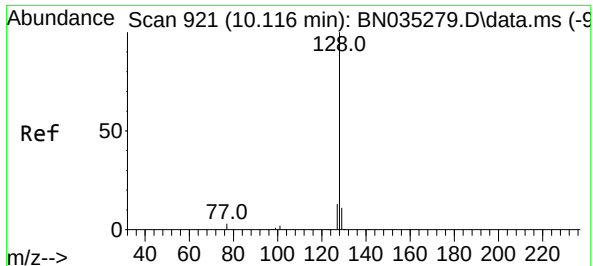
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#8
Nitrobenzene-d5
Concen: 0.229 ng m
RT: 8.450 min Scan# 765
Delta R.T. -0.000 min
Lab File: BN035290.D
Acq: 25 Nov 2024 18:44

Tgt Ion: 82 Resp: 1584
Ion Ratio Lower Upper
82 100
128 47.6 33.0 49.4
54 39.5 33.3 49.9





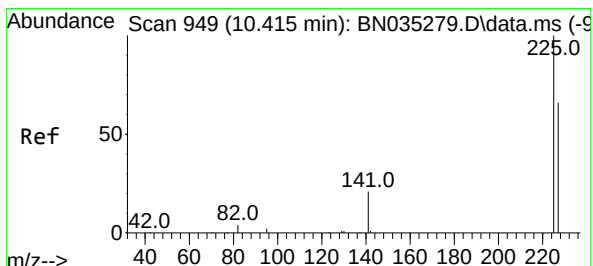
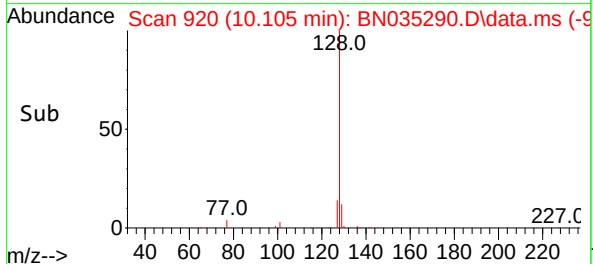
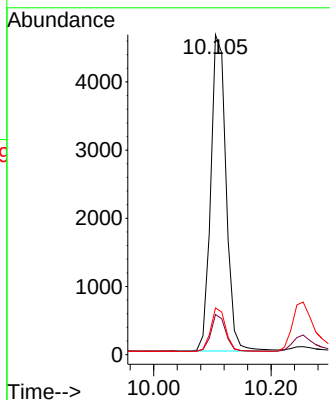
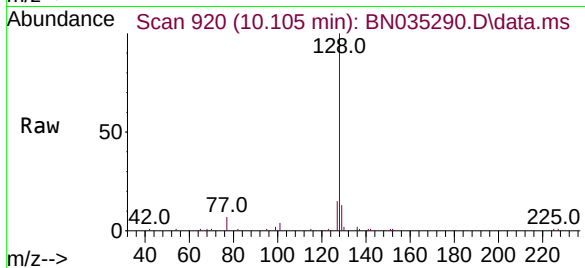
#9
Naphthalene
Concen: 0.356 ng
RT: 10.105 min Scan# 910
Delta R.T. -0.011 min
Lab File: BN035290.D
Acq: 25 Nov 2024 18:44

Instrument :
BNA_N
ClientSampleId :
PB165150BS

Tgt Ion:128 Resp: 8420
Ion Ratio Lower Upper
128 100
129 12.6 9.6 14.4
127 14.6 11.3 16.9

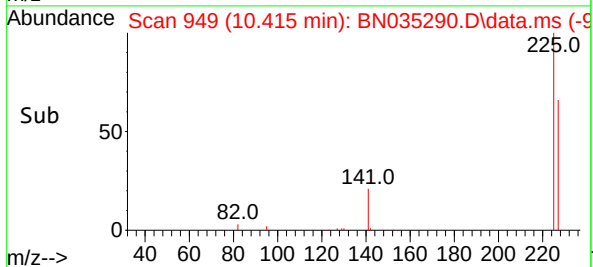
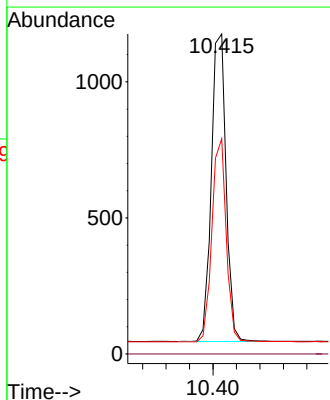
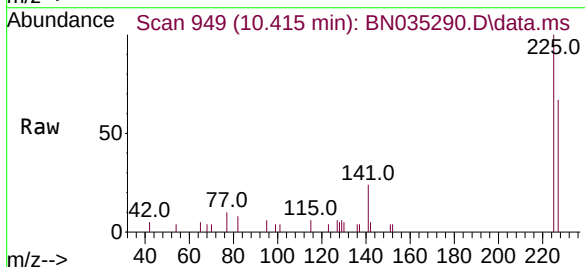
Manual Integrations
APPROVED

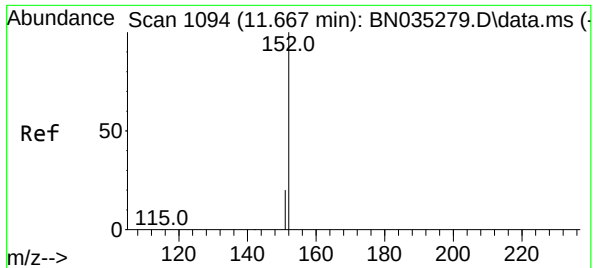
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#10
Hexachlorobutadiene
Concen: 0.296 ng
RT: 10.415 min Scan# 949
Delta R.T. -0.000 min
Lab File: BN035290.D
Acq: 25 Nov 2024 18:44

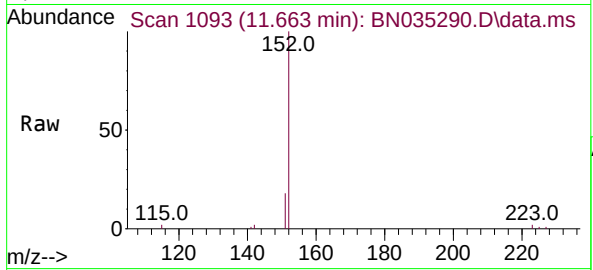
Tgt Ion:225 Resp: 1969
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.9 51.3 76.9





#11
2-Methylnaphthalene-d10
Concen: 0.483 ng
RT: 11.663 min Scan# 1094
Delta R.T. -0.004 min
Lab File: BN035290.D
Acq: 25 Nov 2024 18:44

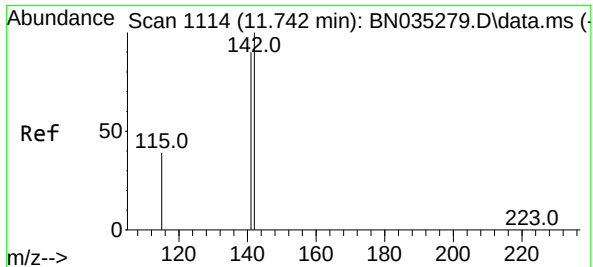
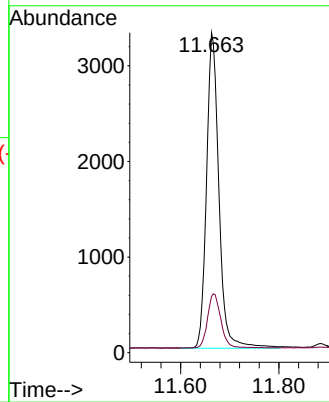
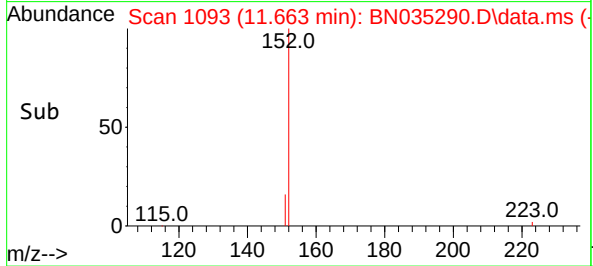
Instrument :
BNA_N
ClientSampleId :
PB165150BS



Tgt Ion:152 Resp: 5762
Ion Ratio Lower Upper
152 100
151 18.4 17.2 25.8

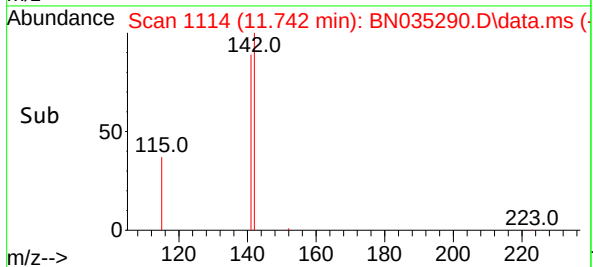
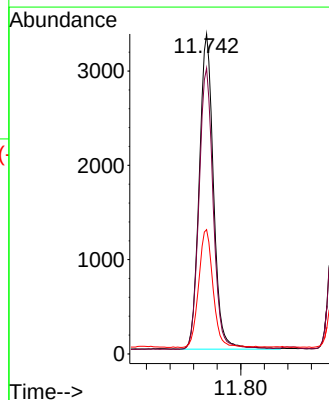
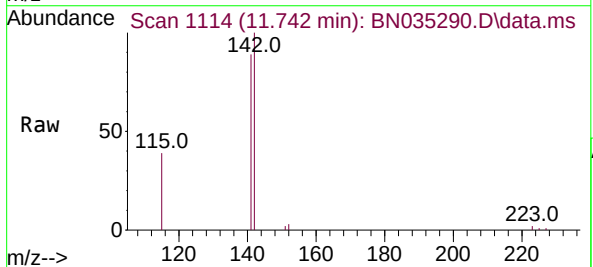
Manual Integrations
APPROVED

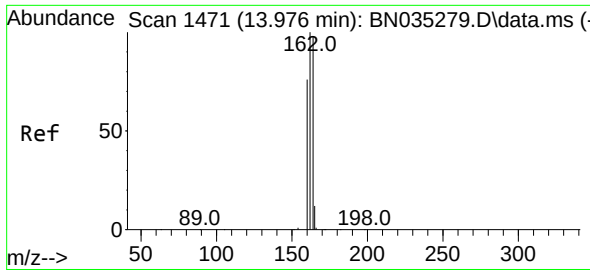
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#12
2-Methylnaphthalene
Concen: 0.363 ng
RT: 11.742 min Scan# 1114
Delta R.T. 0.000 min
Lab File: BN035290.D
Acq: 25 Nov 2024 18:44

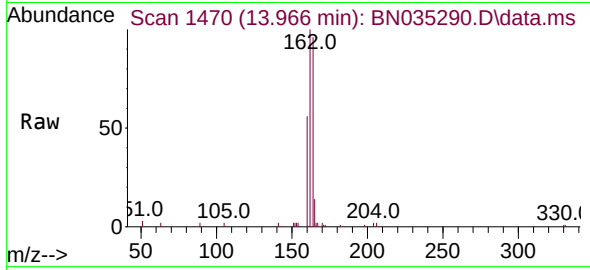
Tgt Ion:142 Resp: 5618
Ion Ratio Lower Upper
142 100
141 89.3 71.8 107.8
115 38.8 32.6 49.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.966 min Scan# 1471
Delta R.T. -0.011 min
Lab File: BN035290.D
Acq: 25 Nov 2024 18:44

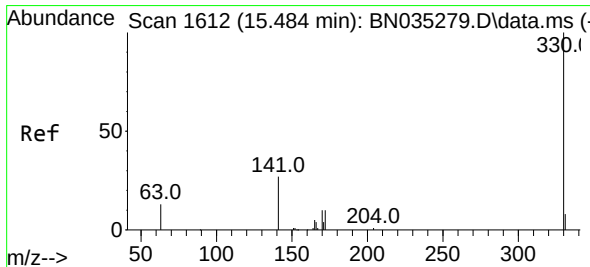
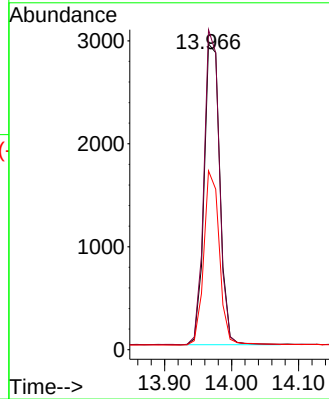
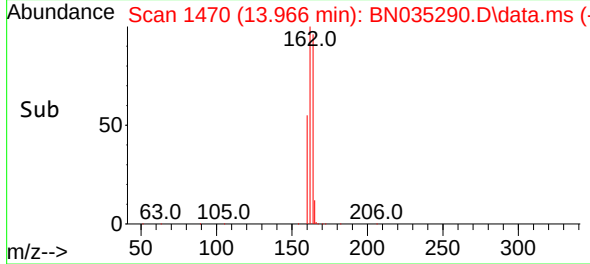
Instrument :
BNA_N
ClientSampleId :
PB165150BS



Tgt Ion:164 Resp: 479
Ion Ratio Lower Upper
164 100
162 104.6 82.0 123.0
160 58.5 63.0 94.4

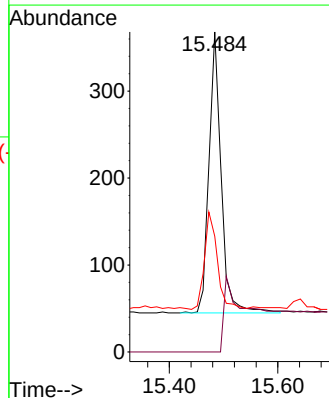
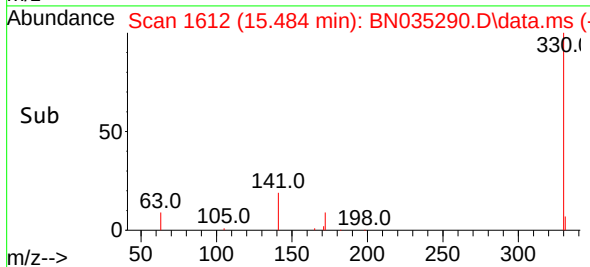
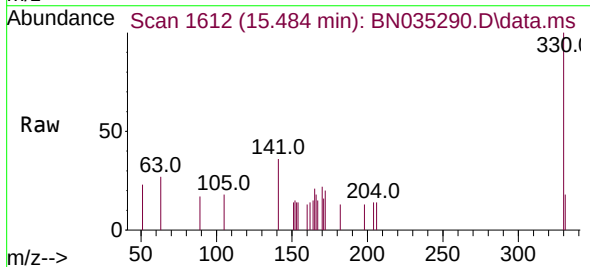
Manual Integrations
APPROVED

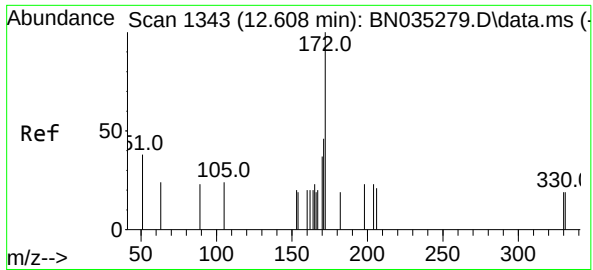
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#14
2,4,6-Tribromophenol
Concen: 0.220 ng
RT: 15.484 min Scan# 1612
Delta R.T. -0.000 min
Lab File: BN035290.D
Acq: 25 Nov 2024 18:44

Tgt Ion:330 Resp: 538
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 35.7 32.4 48.6





#15
2-Fluorobiphenyl
Concen: 0.273 ng
RT: 12.608 min Scan# 1343
Delta R.T. -0.000 min
Lab File: BN035290.D
Acq: 25 Nov 2024 18:44

Instrument :

BNA_N

ClientSampleId :

PB165150BS

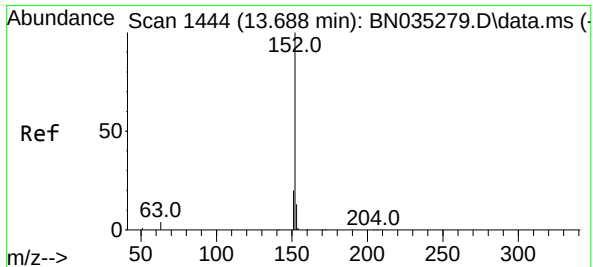
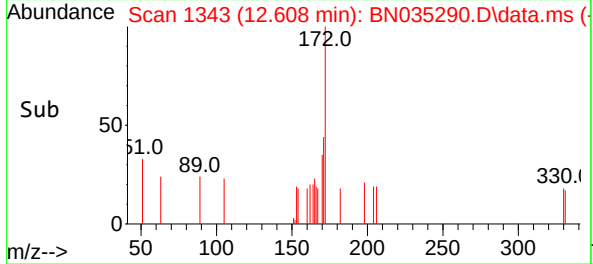
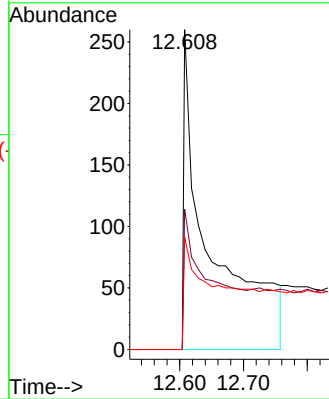
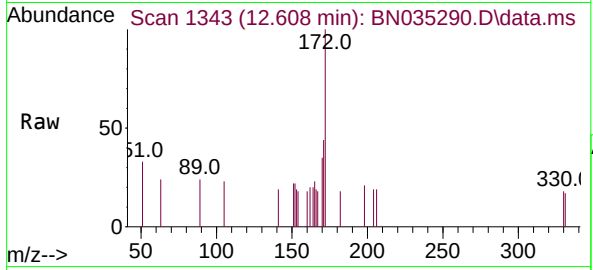
Tgt Ion	Ratio	Lower	Upper
172	100		
171	43.8	36.6	55.0
170	35.0	29.7	44.5

Manual Integrations

APPROVED

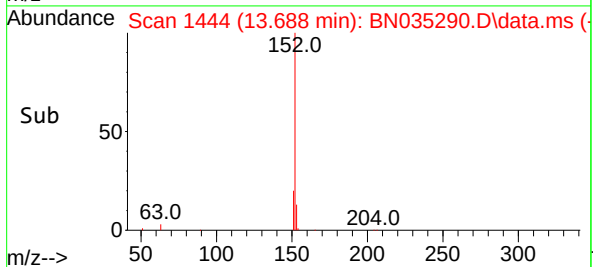
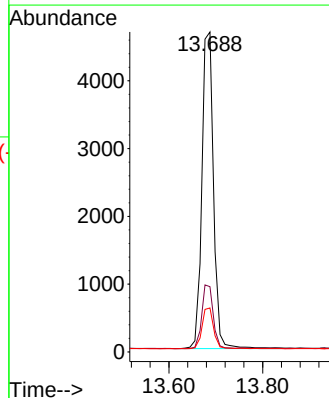
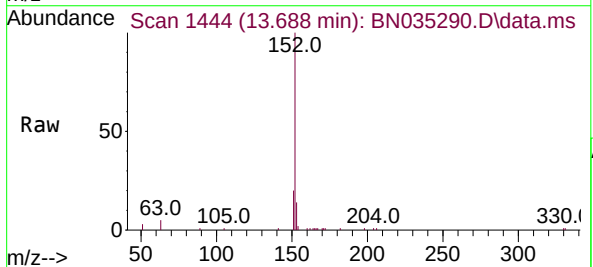
Reviewed By :Yogesh Patel 11/27/2024

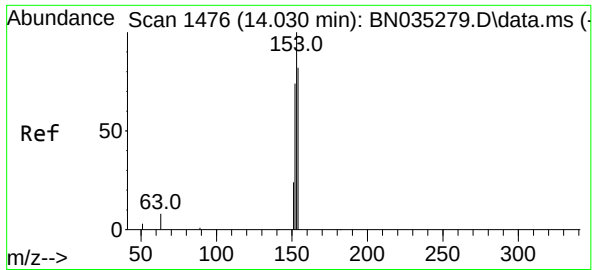
Supervised By :mohammad ahmed 11/27/2024



#16
Acenaphthylene
Concen: 0.334 ng
RT: 13.688 min Scan# 1444
Delta R.T. -0.000 min
Lab File: BN035290.D
Acq: 25 Nov 2024 18:44

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.0	15.9	23.9
153	12.8	10.2	15.4





#17
Acenaphthene
Concen: 0.338 ng
RT: 14.030 min Scan# 1476
Delta R.T. -0.000 min
Lab File: BN035290.D
Acq: 25 Nov 2024 18:44

Instrument :

BNA_N

ClientSampleId :

PB165150BS

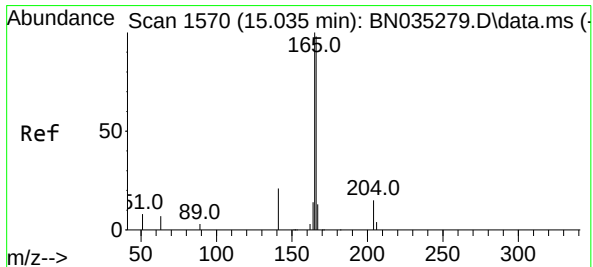
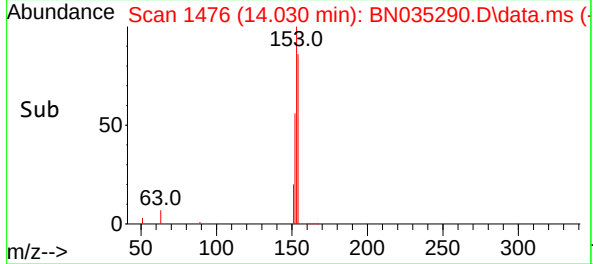
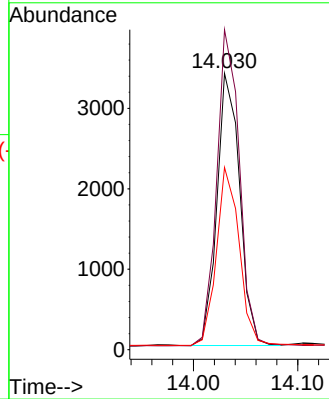
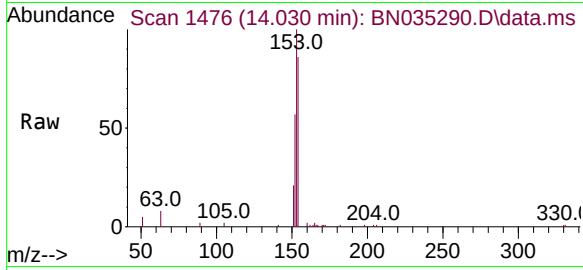
Tgt Ion:154 Resp: 5138
Ion Ratio Lower Upper
154 100
153 116.2 96.1 144.1
152 66.0 72.2 108.2

Manual Integrations

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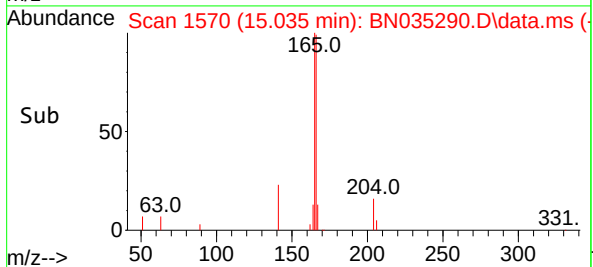
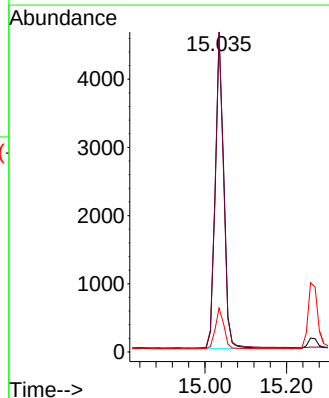
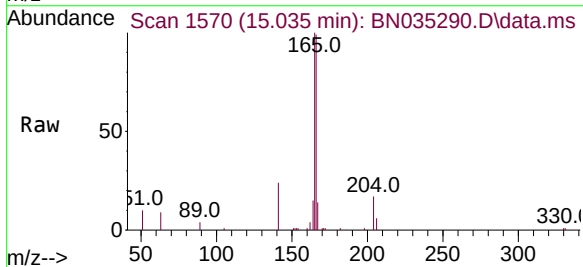
Reviewed By :Yogesh Patel 11/27/2024

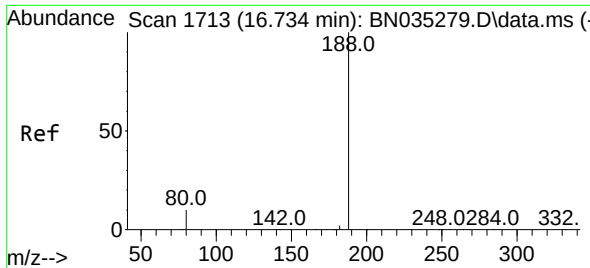
Supervised By :mohammad ahmed 11/27/2024



#18
Fluorene
Concen: 0.312 ng
RT: 15.035 min Scan# 1570
Delta R.T. -0.000 min
Lab File: BN035290.D
Acq: 25 Nov 2024 18:44

Tgt Ion:166 Resp: 6631
Ion Ratio Lower Upper
166 100
165 99.7 81.2 121.8
167 13.4 10.5 15.7





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.734 min Scan# 1713

Delta R.T. -0.000 min

Lab File: BN035290.D

Acq: 25 Nov 2024 18:44

Instrument :

BNA_N

ClientSampleId :

PB165150BS

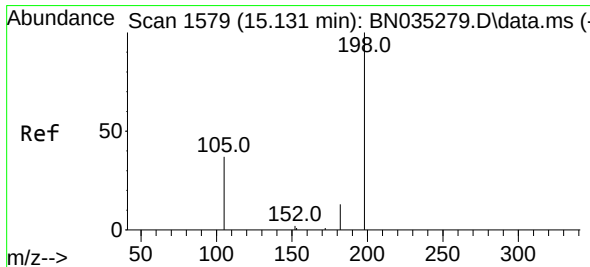
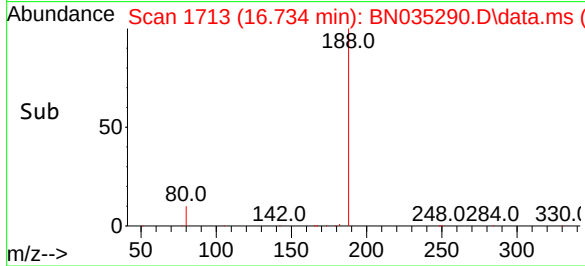
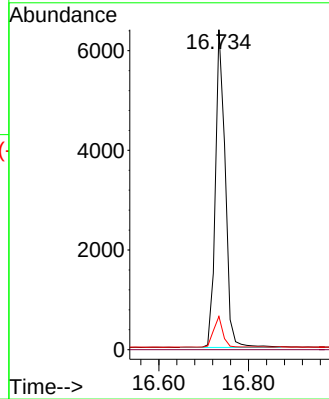
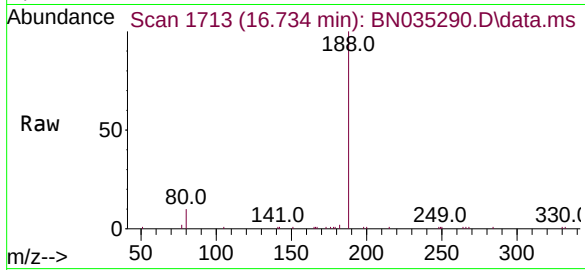
Tgt Ion:188	Resp:	9614
Ion Ratio	Lower	Upper
188	100	
94	0.0	0.0
80	10.4	13.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/27/2024

Supervised By :mohammad ahmed 11/27/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.378 ng

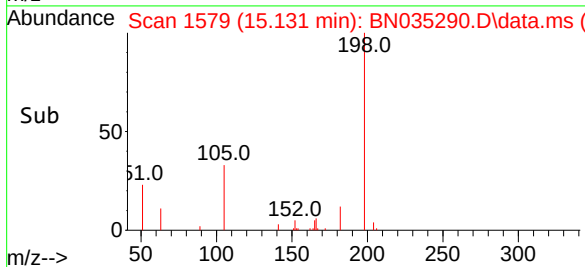
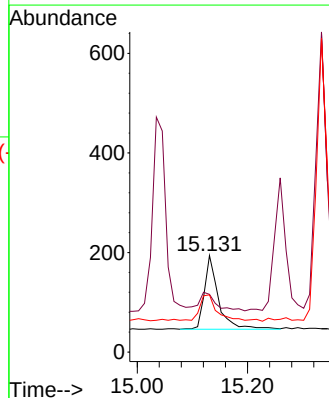
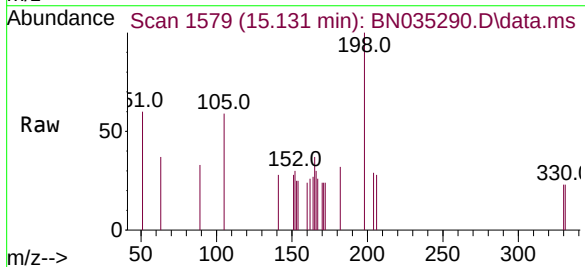
RT: 15.131 min Scan# 1579

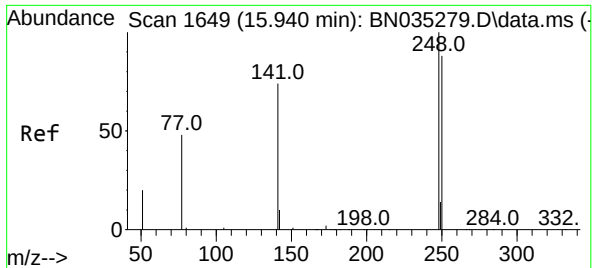
Delta R.T. -0.000 min

Lab File: BN035290.D

Acq: 25 Nov 2024 18:44

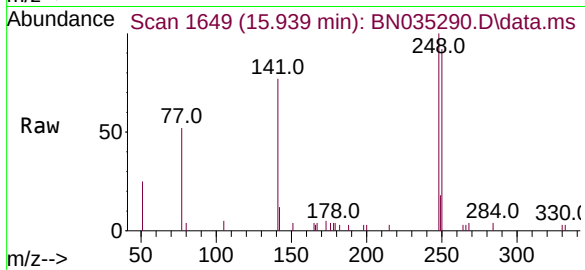
Tgt Ion:198	Resp:	262
Ion Ratio	Lower	Upper
198	100	
51	59.8	80.4
105	59.3	71.2





#21
4-Bromophenyl-phenylether
Concen: 0.371 ng
RT: 15.939 min Scan# 1649
Delta R.T. -0.001 min
Lab File: BN035290.D
Acq: 25 Nov 2024 18:44

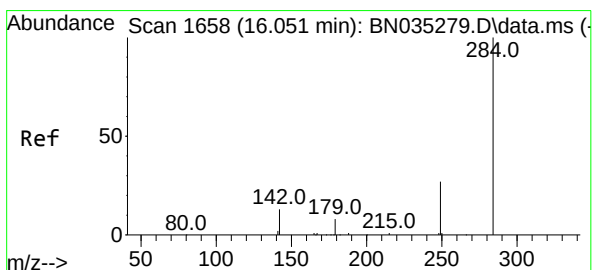
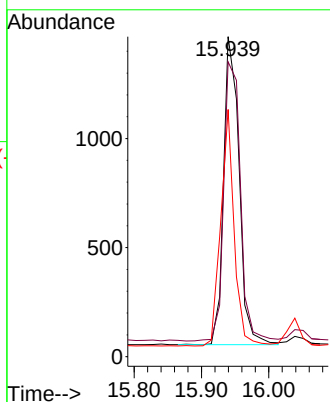
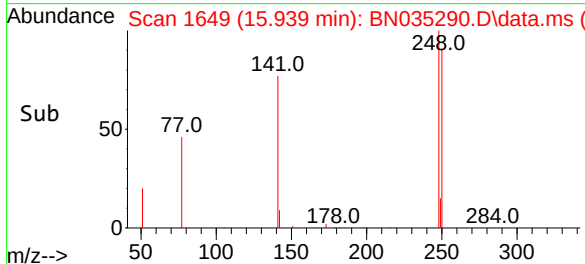
Instrument :
BNA_N
ClientSampleId :
PB165150BS



Tgt Ion:248 Resp: 2264
Ion Ratio Lower Upper
248 100
250 92.2 74.8 112.2
141 77.2 59.0 88.4

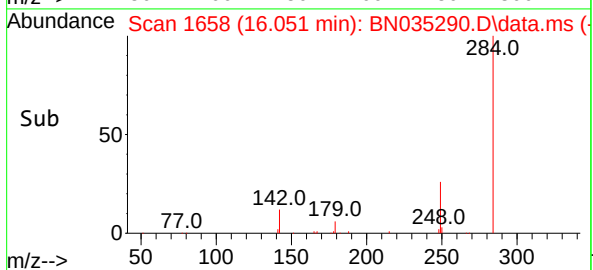
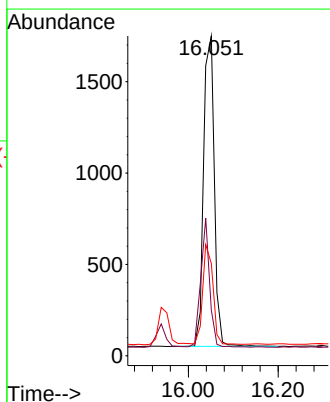
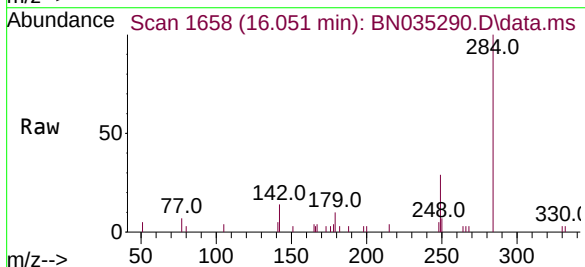
Manual Integrations
APPROVED

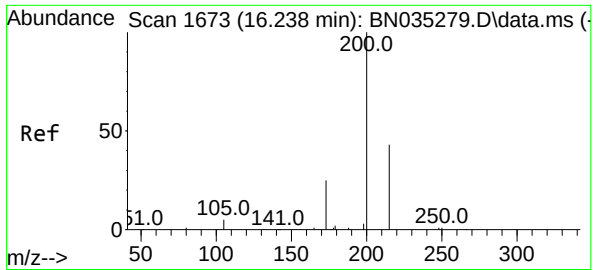
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#22
Hexachlorobenzene
Concen: 0.322 ng
RT: 16.051 min Scan# 1658
Delta R.T. -0.000 min
Lab File: BN035290.D
Acq: 25 Nov 2024 18:44

Tgt Ion:284 Resp: 2814
Ion Ratio Lower Upper
284 100
142 34.5 28.7 43.1
249 30.6 25.4 38.0





#23

Atrazine

Concen: 0.362 ng

RT: 16.237 min Scan# 1673

Delta R.T. -0.000 min

Lab File: BN035290.D

Acq: 25 Nov 2024 18:44

Instrument :

BNA_N

ClientSampleId :

PB165150BS

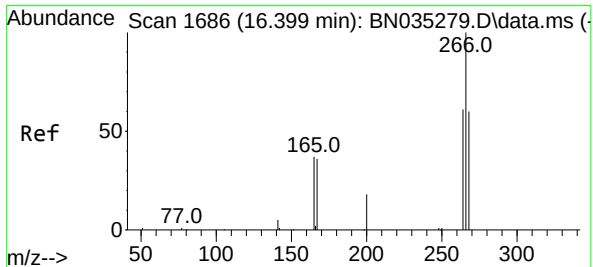
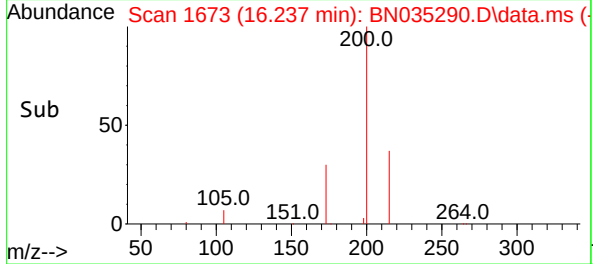
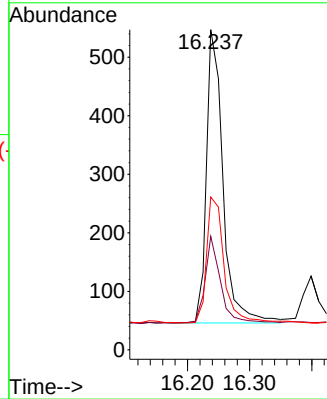
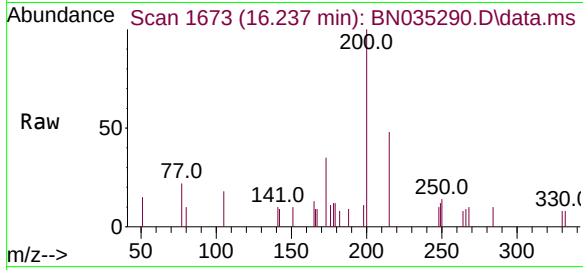
Tgt Ion:	200	Resp:	929
Ion Ratio	Lower	Upper	
200	100		
173	35.5	25.8	38.8
215	47.7	38.6	58.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/27/2024

Supervised By :mohammad ahmed 11/27/2024



#24

Pentachlorophenol

Concen: 0.337 ng

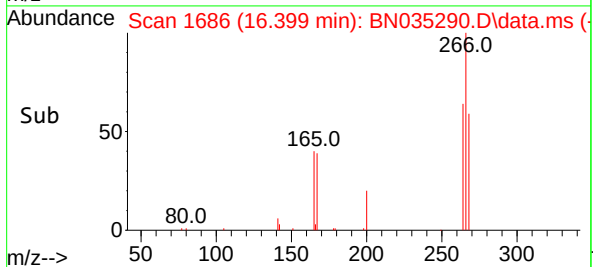
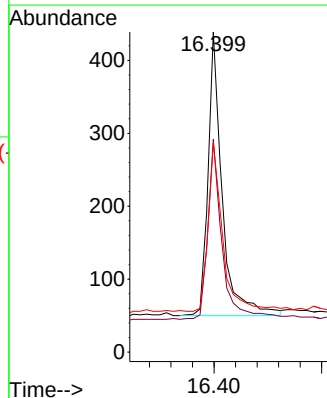
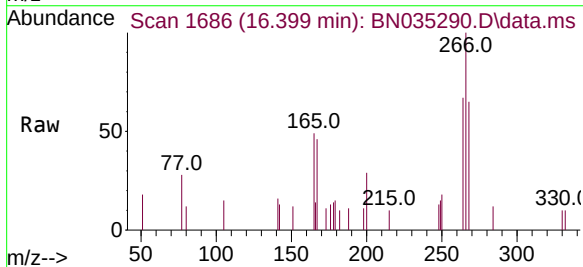
RT: 16.399 min Scan# 1686

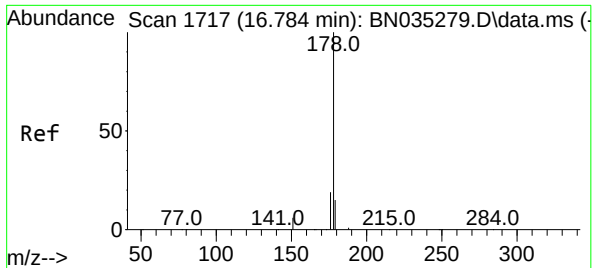
Delta R.T. -0.000 min

Lab File: BN035290.D

Acq: 25 Nov 2024 18:44

Tgt Ion:	266	Resp:	706
Ion Ratio	Lower	Upper	
266	100		
264	64.3	49.3	73.9
268	62.0	48.6	73.0





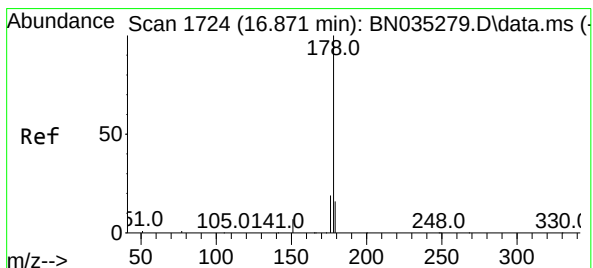
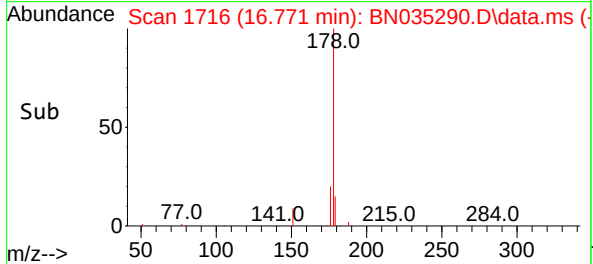
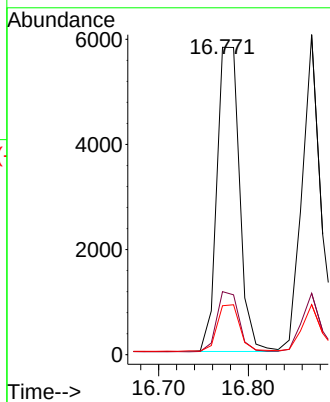
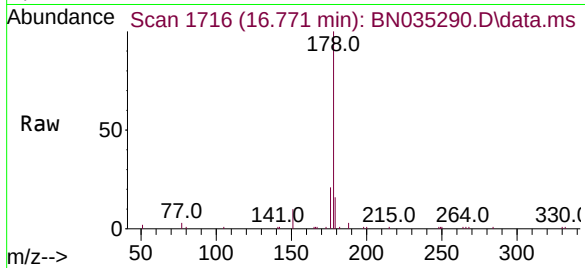
#25
Phenanthrene
Concen: 0.343 ng
RT: 16.771 min Scan# 1716
Delta R.T. -0.013 min
Lab File: BN035290.D
Acq: 25 Nov 2024 18:44

Instrument :
BNA_N
ClientSampleId :
PB165150BS

Tgt Ion:178 Resp: 1014
Ion Ratio Lower Upper
178 100
176 19.4 15.4 23.0
179 15.5 12.6 18.8

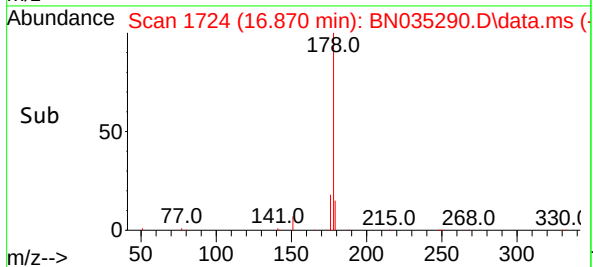
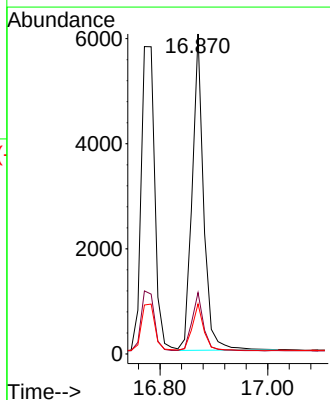
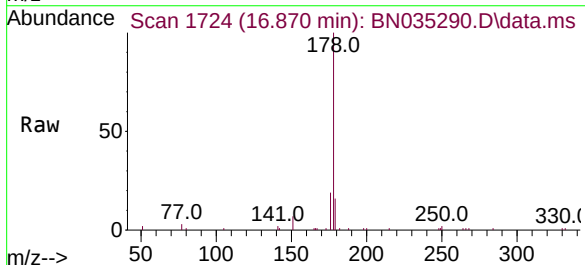
Manual Integrations
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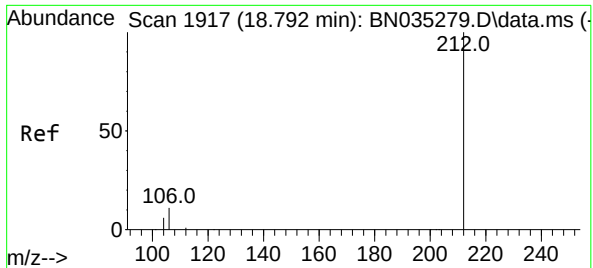
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#26
Anthracene
Concen: 0.350 ng
RT: 16.870 min Scan# 1724
Delta R.T. -0.000 min
Lab File: BN035290.D
Acq: 25 Nov 2024 18:44

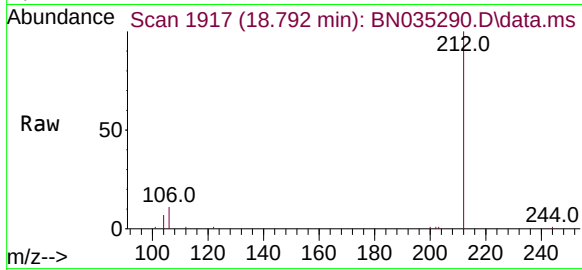
Tgt Ion:178 Resp: 8875
Ion Ratio Lower Upper
178 100
176 18.8 15.0 22.4
179 14.8 12.4 18.6





#27
Fluoranthene-d10
Concen: 0.348 ng
RT: 18.792 min Scan# 1917
Delta R.T. -0.000 min
Lab File: BN035290.D
Acq: 25 Nov 2024 18:44

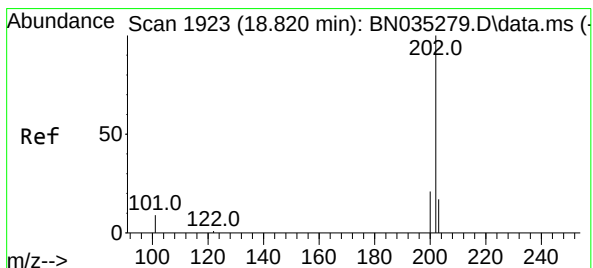
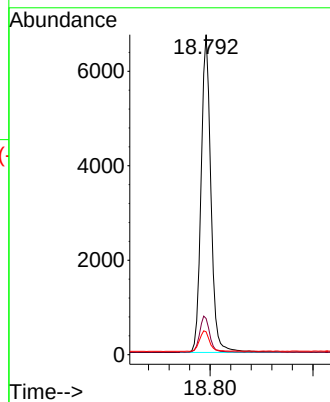
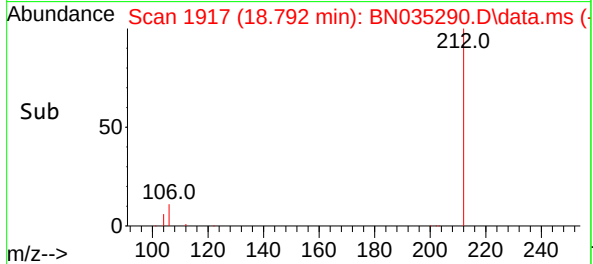
Instrument :
BNA_N
ClientSampleId :
PB165150BS



Tgt Ion:212 Resp: 896
Ion Ratio Lower Upper
212 100
106 11.6 9.8 14.8
104 6.7 5.6 8.4

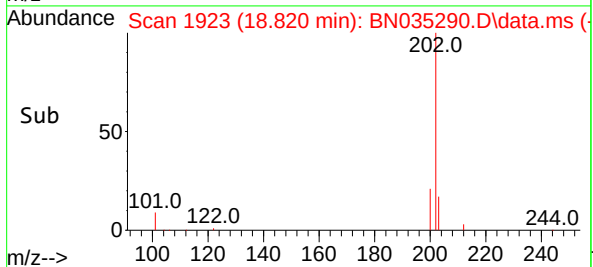
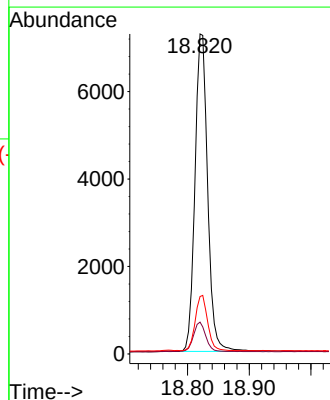
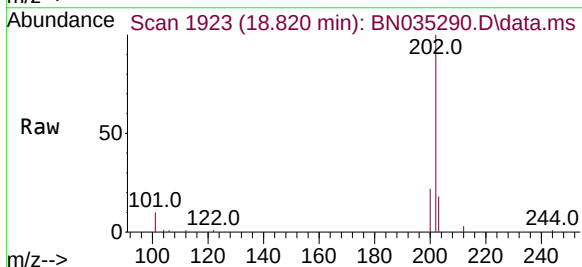
Manual Integrations
APPROVED

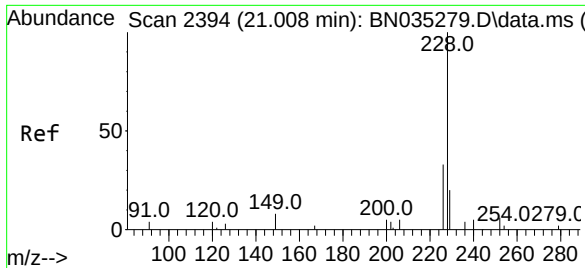
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#28
Fluoranthene
Concen: 0.280 ng
RT: 18.820 min Scan# 1923
Delta R.T. 0.000 min
Lab File: BN035290.D
Acq: 25 Nov 2024 18:44

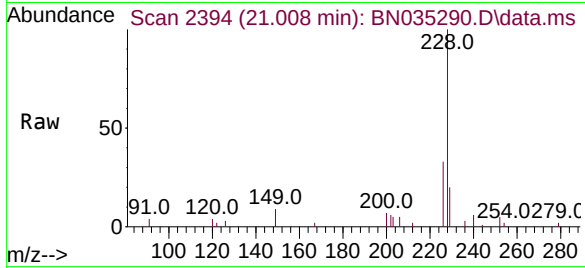
Tgt Ion:202 Resp: 10421
Ion Ratio Lower Upper
202 100
101 9.1 7.6 11.4
203 16.9 13.8 20.8





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.008 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN035290.D
Acq: 25 Nov 2024 18:44

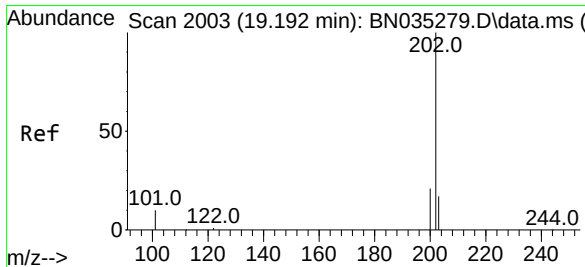
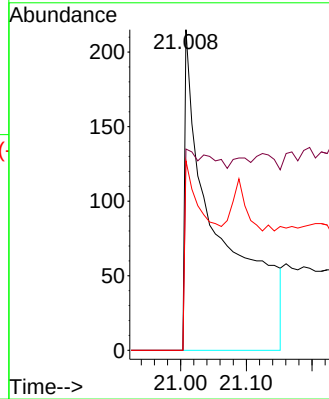
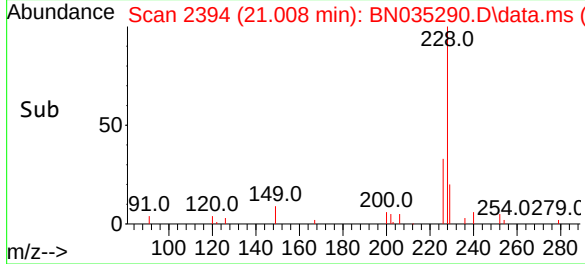
Instrument :
BNA_N
ClientSampleId :
PB165150BS



Tgt Ion:240 Resp: 730
Ion Ratio Lower Upper
240 100
120 62.8 54.9 82.3
236 59.1 54.0 81.0

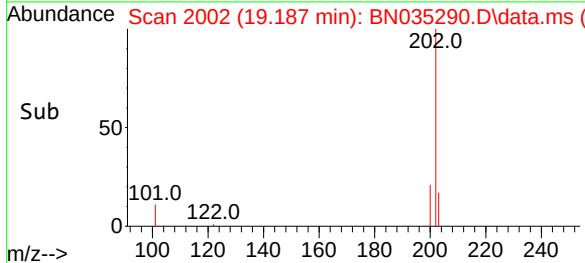
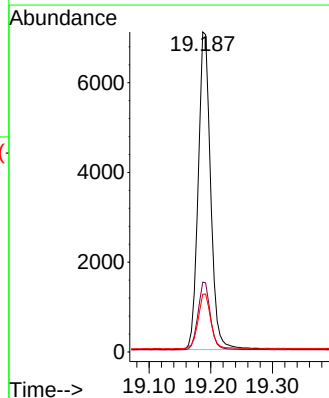
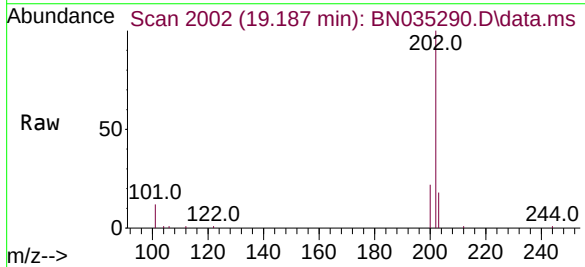
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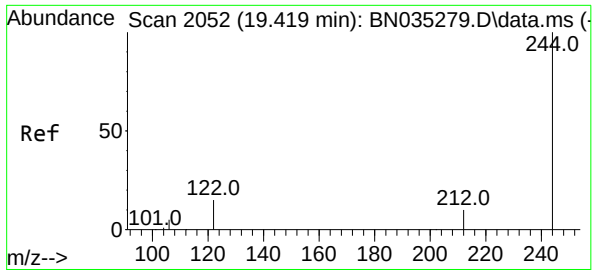
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#30
Pyrene
Concen: 0.376 ng
RT: 19.187 min Scan# 2002
Delta R.T. -0.005 min
Lab File: BN035290.D
Acq: 25 Nov 2024 18:44

Tgt Ion:202 Resp: 9974
Ion Ratio Lower Upper
202 100
200 21.2 16.8 25.2
203 17.6 14.4 21.6





#31
Terphenyl-d14
Concen: 0.461 ng
RT: 19.419 min Scan# 2052
Delta R.T. 0.000 min
Lab File: BN035290.D
Acq: 25 Nov 2024 18:44

Instrument :

BNA_N

ClientSampleId :

PB165150BS

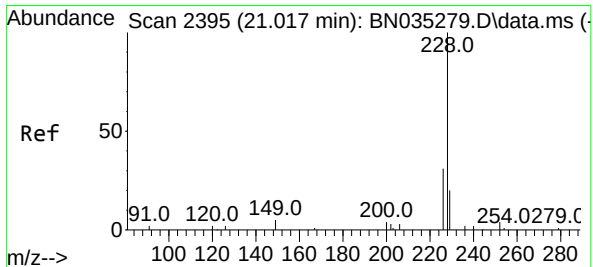
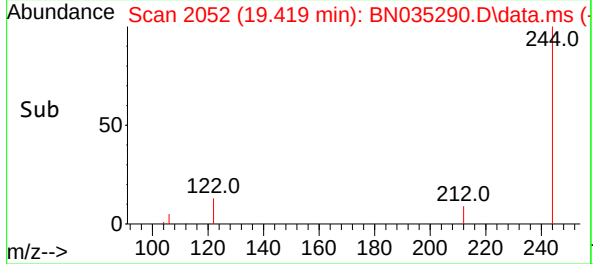
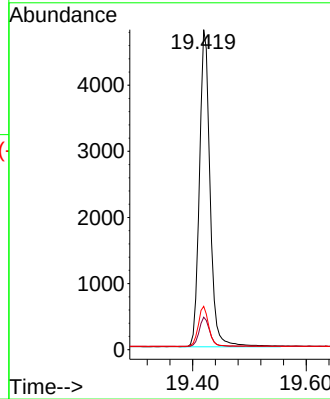
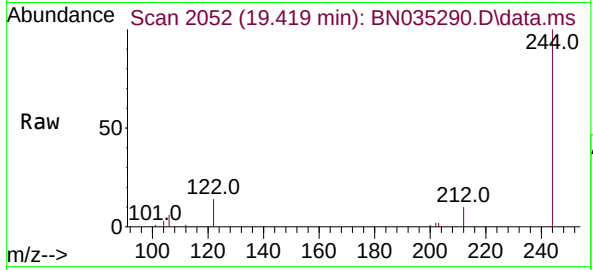
Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.2	9.4	14.0
122	13.6	13.0	19.4

Manual Integrations

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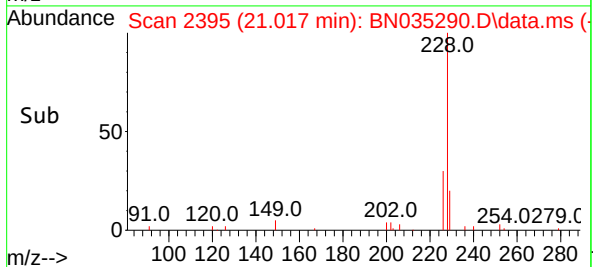
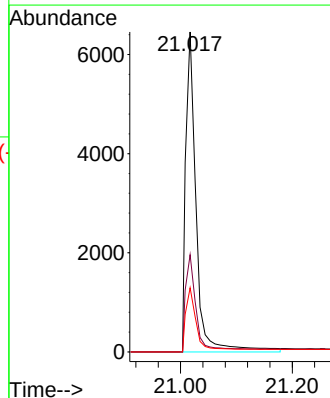
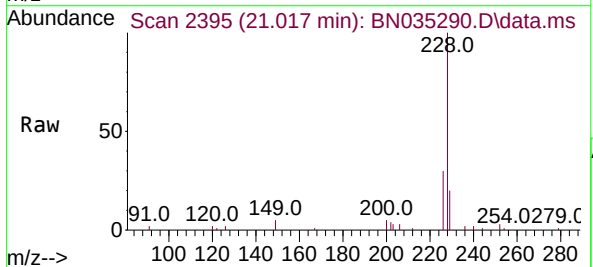
Reviewed By :Yogesh Patel 11/27/2024

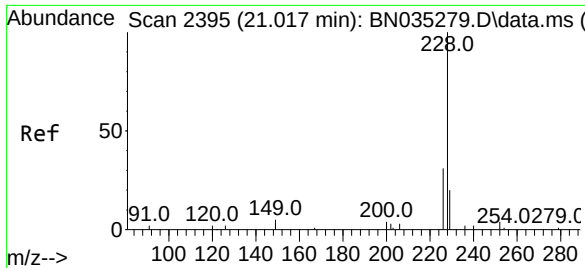
Supervised By :mohammad ahmed 11/27/2024



#32
Benzo(a)anthracene
Concen: 0.334 ng
RT: 21.017 min Scan# 2395
Delta R.T. 0.000 min
Lab File: BN035290.D
Acq: 25 Nov 2024 18:44

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.4	24.7	37.1
229	20.1	16.2	24.2





#33

Chrysene

Concen: 0.334 ng

RT: 21.017 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035290.D

Acq: 25 Nov 2024 18:44

Instrument :

BNA_N

ClientSampleId :

PB165150BS

Tgt Ion:228 Resp: 8490

Ion Ratio Lower Upper

228 100

226 30.4 24.7 37.1

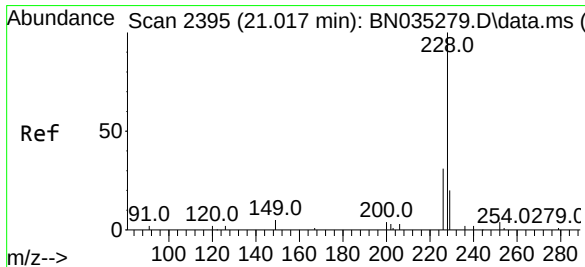
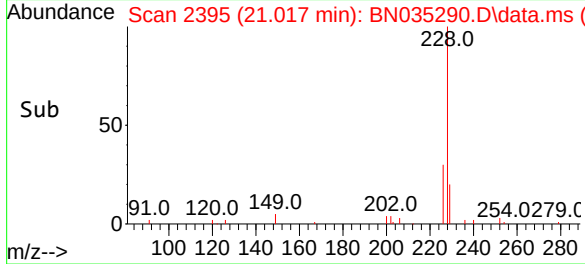
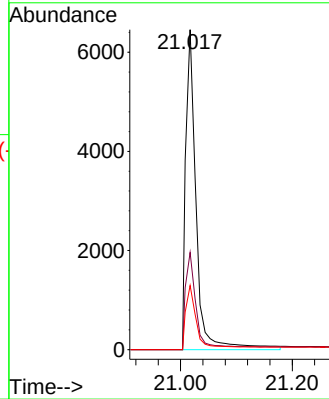
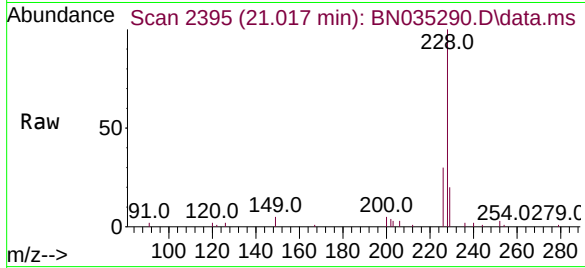
229 20.1 16.2 24.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/27/2024

Supervised By :mohammad ahmed 11/27/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.401 ng

RT: 21.008 min Scan# 2394

Delta R.T. -0.009 min

Lab File: BN035290.D

Acq: 25 Nov 2024 18:44

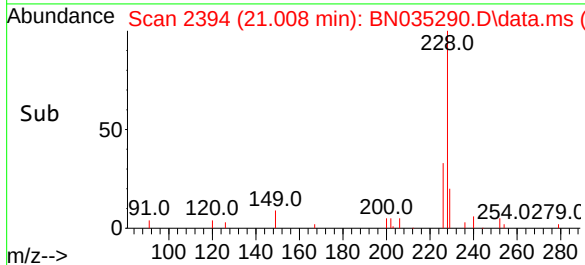
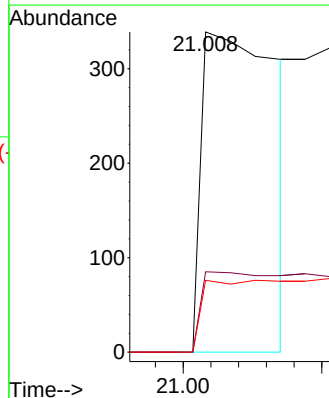
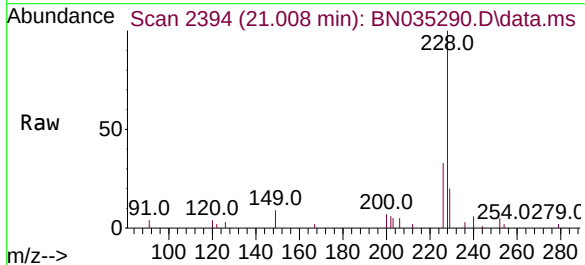
Tgt Ion:149 Resp: 560

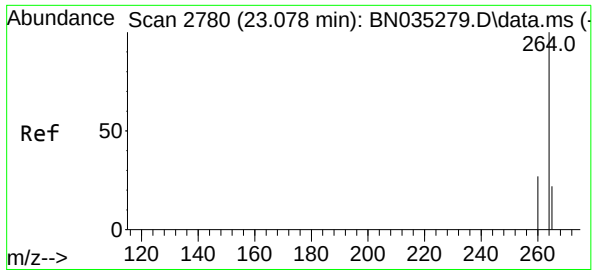
Ion Ratio Lower Upper

149 100

167 25.7 0.0 0.0#

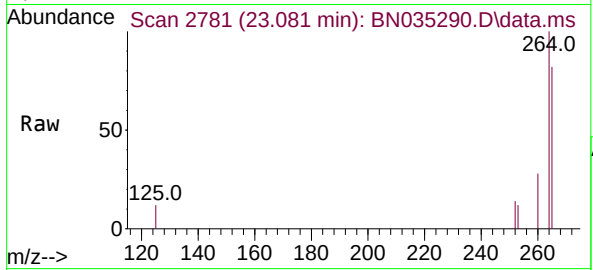
279 0.0 13.0 19.6#





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.081 min Scan# 21
Delta R.T. 0.003 min
Lab File: BN035290.D
Acq: 25 Nov 2024 18:44

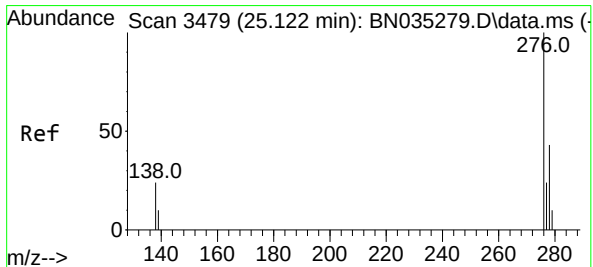
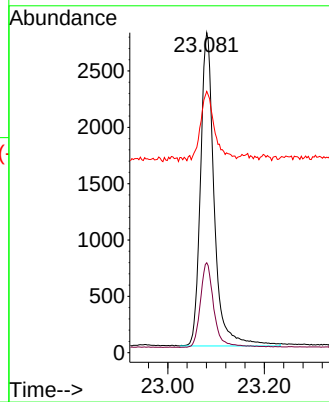
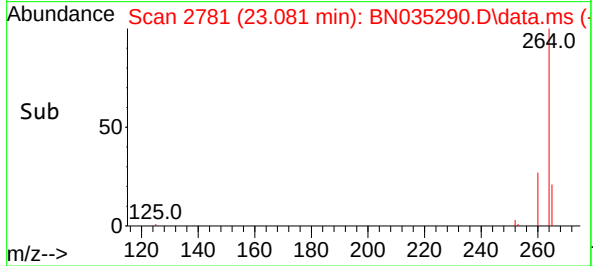
Instrument :
BNA_N
ClientSampleId :
PB165150BS



Tgt Ion:264 Resp: 5488
Ion Ratio Lower Upper
264 100
260 28.1 22.3 33.5
265 81.7 68.6 103.0

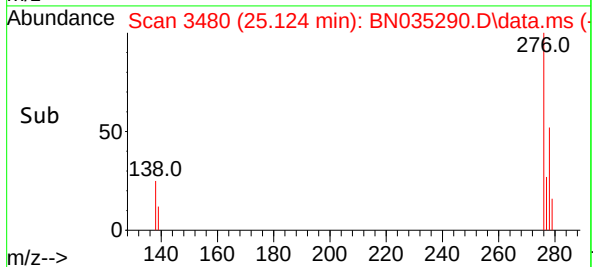
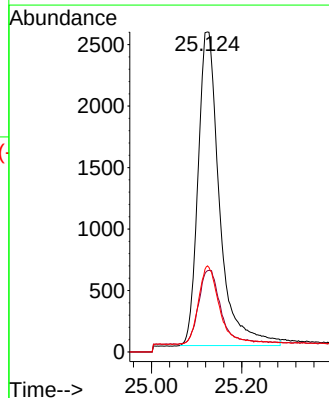
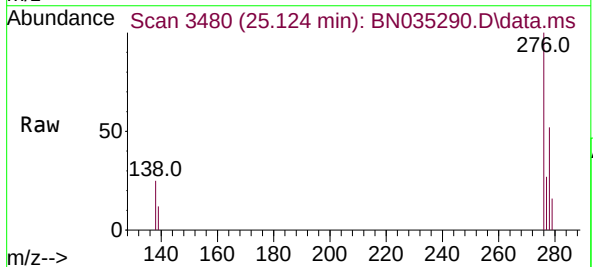
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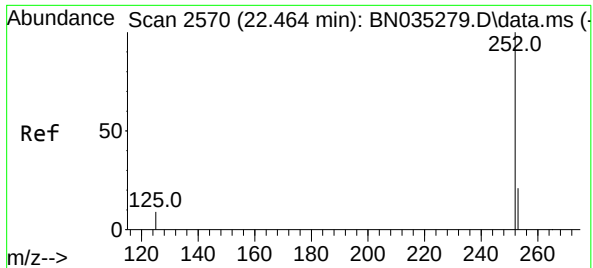
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.376 ng
RT: 25.124 min Scan# 3480
Delta R.T. 0.003 min
Lab File: BN035290.D
Acq: 25 Nov 2024 18:44

Tgt Ion:276 Resp: 8459
Ion Ratio Lower Upper
276 100
138 22.7 18.8 28.2
277 23.4 18.2 27.4





#37

Benzo(b)fluoranthene

Concen: 0.307 ng

RT: 22.464 min Scan# 2570

Delta R.T. -0.000 min

Lab File: BN035290.D

Acq: 25 Nov 2024 18:44

Instrument :

BNA_N

ClientSampleId :

PB165150BS

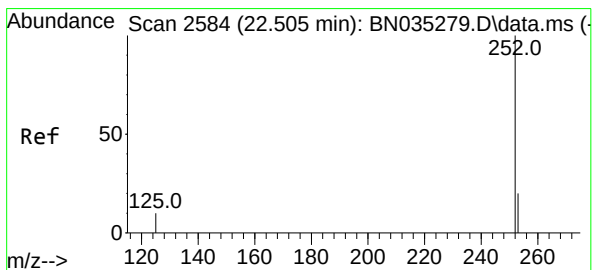
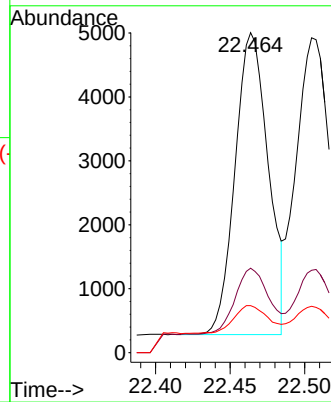
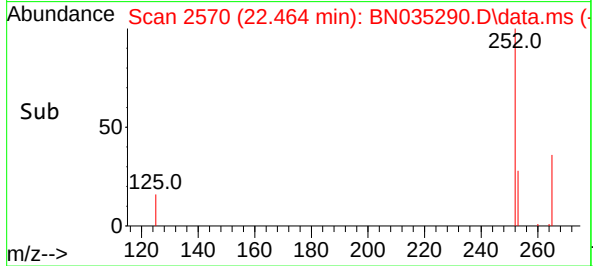
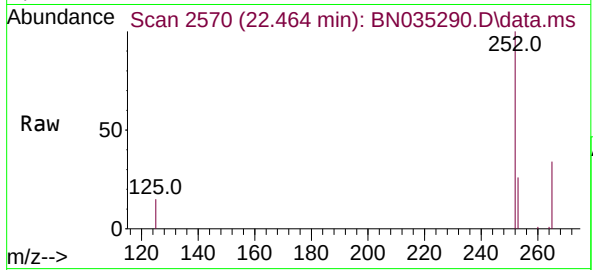
Tgt Ion:252	Resp:	7319
Ion Ratio	Lower	Upper
252	100	
253	26.4	20.2 30.2
125	14.7	12.0 18.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/27/2024

Supervised By :mohammad ahmed 11/27/2024



#38

Benzo(k)fluoranthene

Concen: 0.329 ng

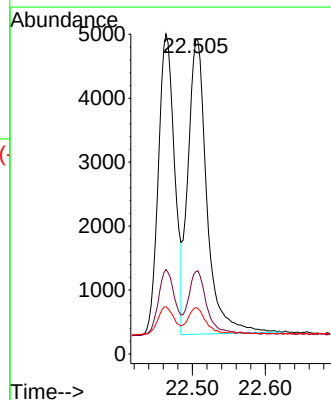
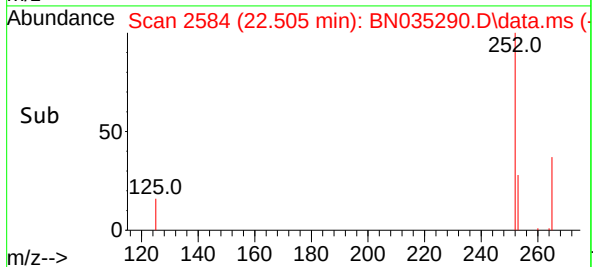
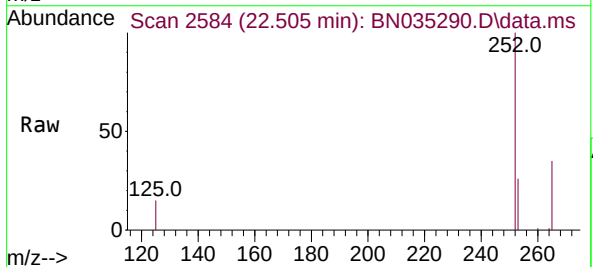
RT: 22.505 min Scan# 2584

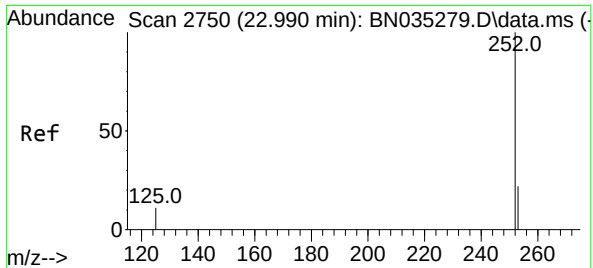
Delta R.T. -0.000 min

Lab File: BN035290.D

Acq: 25 Nov 2024 18:44

Tgt Ion:252	Resp:	8291
Ion Ratio	Lower	Upper
252	100	
253	26.2	20.1 30.1
125	14.8	12.7 19.1





#39

Benzo(a)pyrene

Concen: 0.363 ng

RT: 22.990 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035290.D

Acq: 25 Nov 2024 18:44

Instrument :

BNA_N

ClientSampleId :

PB165150BS

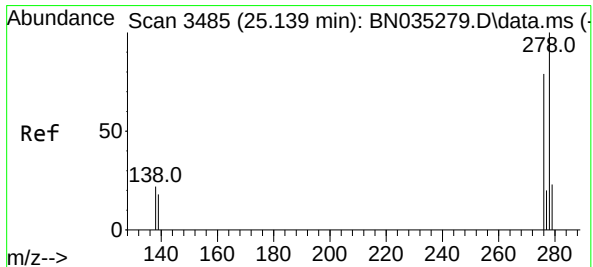
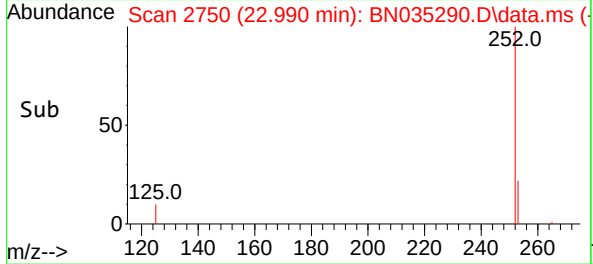
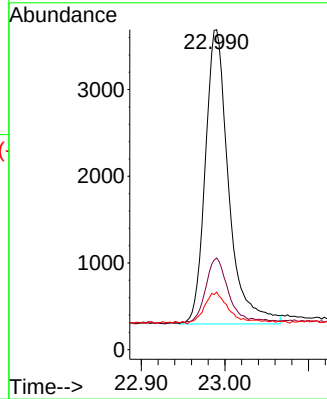
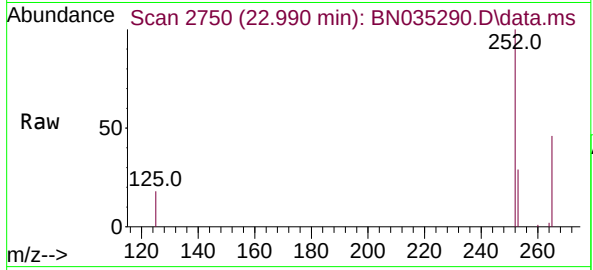
Tgt Ion:	252	Resp:	6610
Ion Ratio	Lower	Upper	
252	100		
253	28.7	22.3	33.5
125	18.0	15.3	22.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/27/2024

Supervised By :mohammad ahmed 11/27/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.376 ng

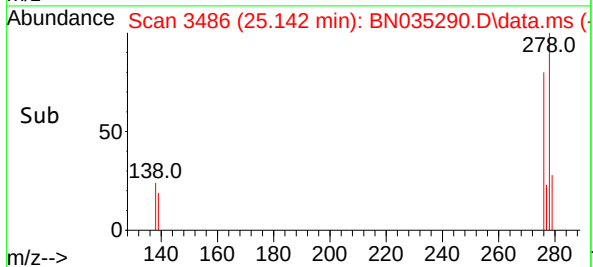
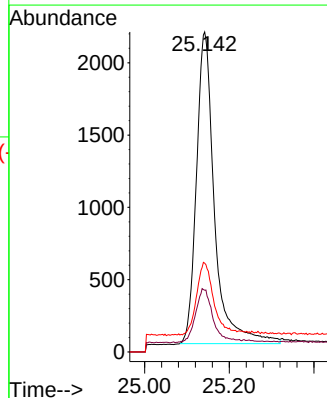
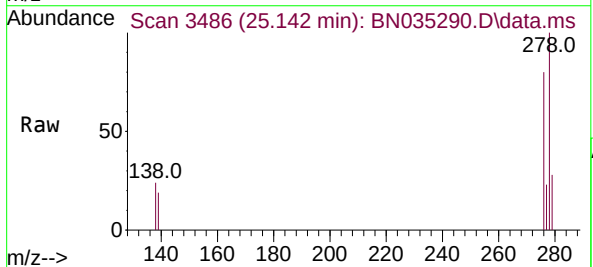
RT: 25.142 min Scan# 3486

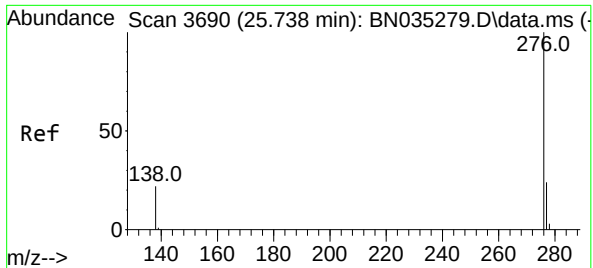
Delta R.T. 0.003 min

Lab File: BN035290.D

Acq: 25 Nov 2024 18:44

Tgt Ion:	278	Resp:	6393
Ion Ratio	Lower	Upper	
278	100		
139	19.3	17.0	25.6
279	27.7	23.0	34.4





#41

Benzo(g,h,i)perylene

Concen: 0.362 ng

RT: 25.741 min Scan# 30

Delta R.T. 0.003 min

Lab File: BN035290.D

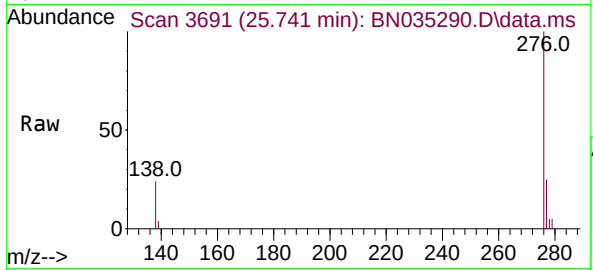
Acq: 25 Nov 2024 18:44

Instrument :

BNA_N

ClientSampleId :

PB165150BS



Tgt Ion:276 Resp: 711

Ion Ratio Lower Upper

276 100

277 25.1 21.1 31.7

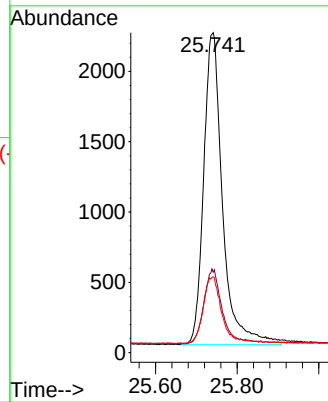
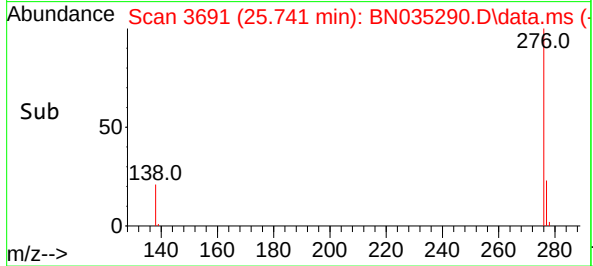
138 23.7 19.8 29.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/27/2024

Supervised By :mohammad ahmed 11/27/2024



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	11/19/24
Project:	CTO WE13	Date Received:	11/20/24
Client Sample ID:	BPOW6-10-20241119MS	SDG No.:	P4934
Lab Sample ID:	P4934-06MS	Matrix:	Water
Analytical Method:	SW8270SIM	% 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 :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035288.D	1	11/21/24 08:27	11/25/24 17:32	PB165150

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.39		30 - 150		97%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.38		30 - 150		95%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.20	*	55 - 111		50%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.15	*	53 - 106		36%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.77	*	58 - 132		192%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3630	7.315				
1146-65-2	Naphthalene-d8	8730	10.063				
15067-26-2	Acenaphthene-d10	5210	13.966				
1517-22-2	Phenanthrene-d10	11400	16.734				
1719-03-5	Chrysene-d12	743	21.008				
1520-96-3	Perylene-d12	5610	23.078				

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\BN112524\
 Data File : BN035288.D
 Acq On : 25 Nov 2024 17:32
 Operator : RC/JU
 Sample : P4934-06MS
 Misc :
 ALS Vial : 64 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 BPOW6-10-20241119MS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/27/2024
 Supervised By :mohammad ahmed 11/27/2024

Quant Time: Nov 26 03:31:15 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 26 02:36:08 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.315	152	3628	0.400	ng	0.00
7) Naphthalene-d8	10.063	136	8728	0.400	ng	# 0.00
13) Acenaphthene-d10	13.966	164	5209	0.400	ng	#-0.01
19) Phenanthrene-d10	16.734	188	11399	0.400	ng	0.00
29) Chrysene-d12	21.008	240	743	0.400	ng	0.00
35) Perylene-d12	23.078	264	5613	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.975	112	1549	0.226	ng	0.00
5) Phenol-d6	6.521	99	1362	0.142	ng	0.00
8) Nitrobenzene-d5	8.450	82	1423m	0.201	ng	0.00
11) 2-Methylnaphthalene-d10	11.663	152	4722	0.386	ng	0.00
14) 2,4,6-Tribromophenol	15.484	330	658	0.247	ng	0.00
15) 2-Fluorobiphenyl	12.608	172	421	0.146	ng	0.00
27) Fluoranthene-d10	18.792	212	11634	0.381	ng	0.00
31) Terphenyl-d14	19.419	244	10548	0.768	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.003	88	511	0.196	ng	# 90
3) n-Nitrosodimethylamine	3.299	42	354	0.131	ng	# 72
6) bis(2-Chloroethyl)ether	6.766	93	2973	0.369	ng	99
9) Naphthalene	10.105	128	7856	0.324	ng	99
10) Hexachlorobutadiene	10.404	225	1619	0.238	ng	# 100
12) 2-Methylnaphthalene	11.742	142	5352	0.338	ng	99
16) Acenaphthylene	13.677	152	8167	0.312	ng	99
17) Acenaphthene	14.030	154	5230	0.317	ng	# 88
18) Fluorene	15.035	166	7099	0.307	ng	98
20) 4,6-Dinitro-2-methylph...	15.131	198	305	0.374	ng	89
21) 4-Bromophenyl-phenylether	15.939	248	2574	0.356	ng	98
22) Hexachlorobenzene	16.051	284	3029	0.292	ng	99
23) Atrazine	16.237	200	1155	0.379	ng	96
24) Pentachlorophenol	16.399	266	774	0.312	ng	98
25) Phenanthrene	16.771	178	12309	0.352	ng	99
26) Anthracene	16.870	178	10530	0.350	ng	100
28) Fluoranthene	18.820	202	13774	0.312	ng	99
30) Pyrene	19.187	202	13805	0.511	ng	100
32) Benzo(a)anthracene	21.017	228	10096	0.390	ng	99
33) Chrysene	21.017	228	10096	0.390	ng	99
34) Bis(2-ethylhexyl)phtha...	21.017	149	578	0.407	ng	# 62
36) Indeno(1,2,3-cd)pyrene	25.124	276	9354	0.407	ng	99
37) Benzo(b)fluoranthene	22.464	252	8402	0.344	ng	98
38) Benzo(k)fluoranthene	22.505	252	9589	0.372	ng	98
39) Benzo(a)pyrene	22.990	252	7534	0.404	ng	97
40) Dibenzo(a,h)anthracene	25.139	278	7128	0.410	ng	96
41) Benzo(g,h,i)perylene	25.738	276	7780	0.387	ng	99

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

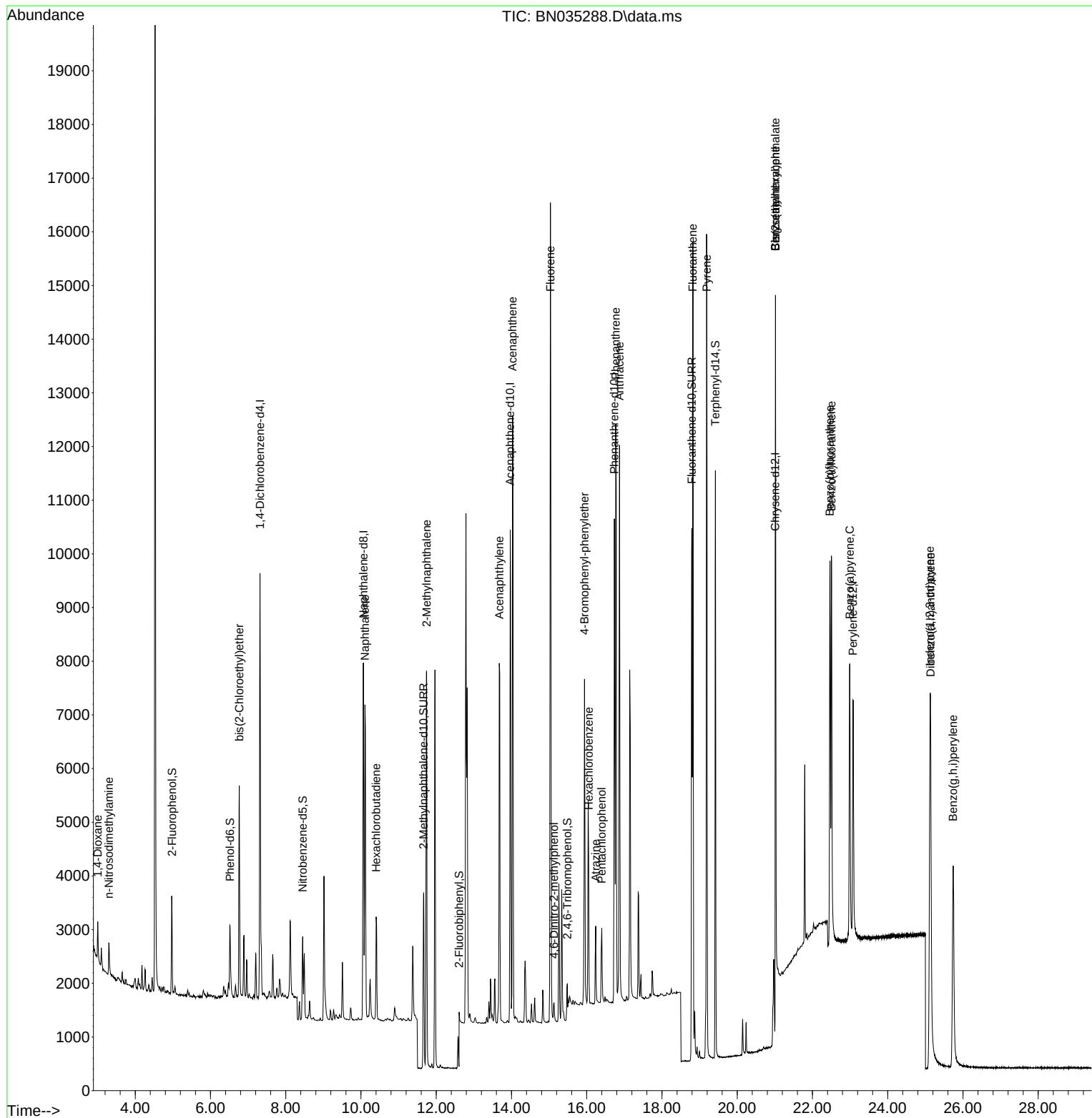
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 Acq On : 25 Nov 2024 17:32
 Operator : RC/JU
 Sample : P4934-06MS
 Misc :
 ALS Vial : 64 Sample Multiplier: 1

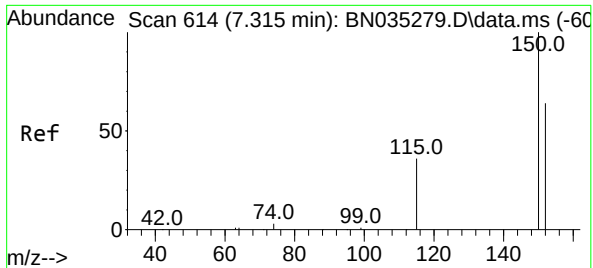
Instrument :
 BNA_N
 ClientSampleId :
 BPOW6-10-20241119MS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/27/2024
 Supervised By :mohammad ahmed 11/27/2024

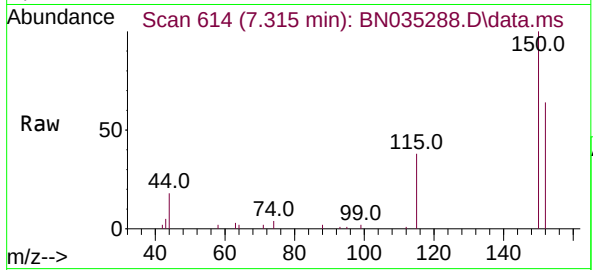
Quant Time: Nov 26 03:31:15 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 26 02:36:08 2024
 Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.315 min Scan# 614
Delta R.T. -0.000 min
Lab File: BN035288.D
Acq: 25 Nov 2024 17:32

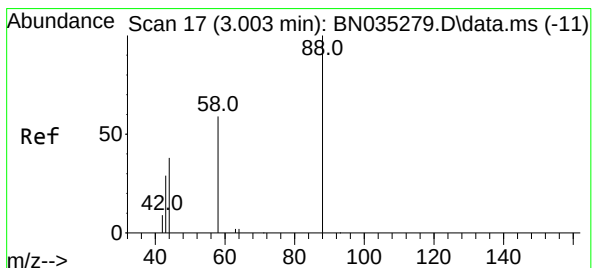
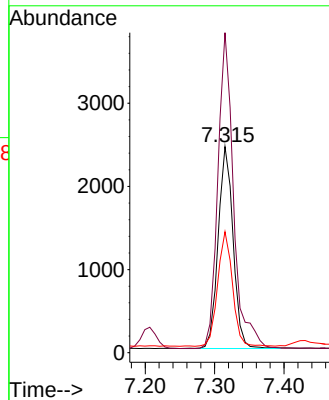
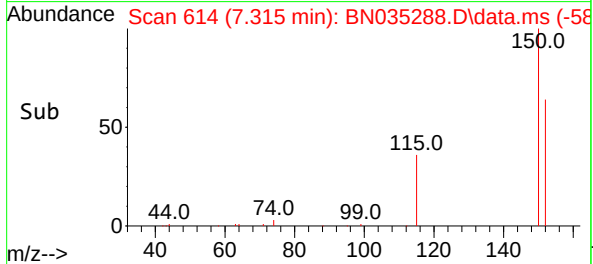
Instrument :
BNA_N
ClientSampleId :
BPOW6-10-20241119MS



Tgt Ion: 152 Resp: 3628
Ion Ratio Lower Upper
152 100
150 155.3 124.5 186.7
115 58.7 47.8 71.8

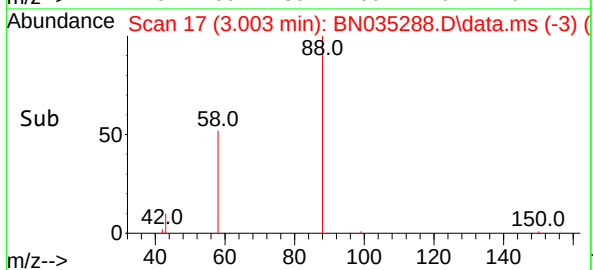
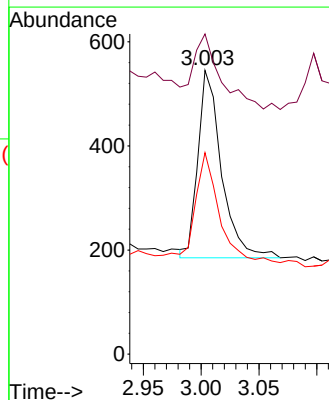
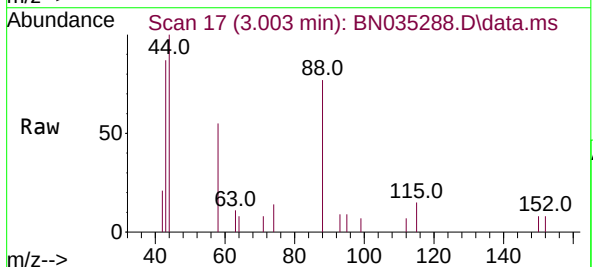
Manual Integrations
APPROVED

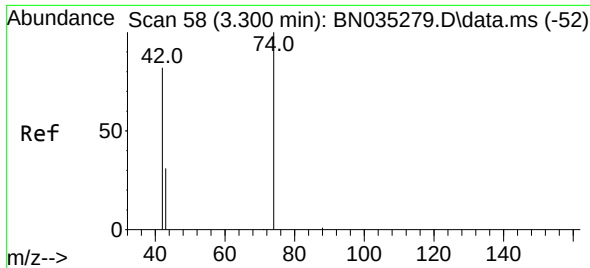
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#2
1,4-Dioxane
Concen: 0.196 ng
RT: 3.003 min Scan# 17
Delta R.T. 0.000 min
Lab File: BN035288.D
Acq: 25 Nov 2024 17:32

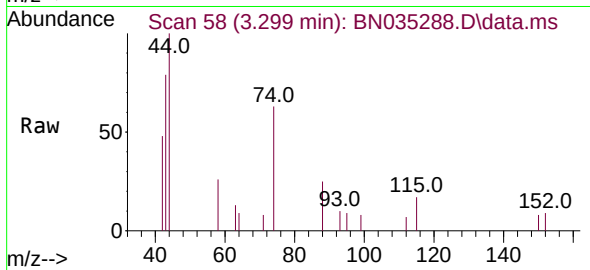
Tgt Ion: 88 Resp: 511
Ion Ratio Lower Upper
88 100
43 46.4 48.1 72.1#
58 60.3 46.9 70.3





#3
n-Nitrosodimethylamine
Concen: 0.131 ng
RT: 3.299 min Scan# 58
Delta R.T. -0.001 min
Lab File: BN035288.D
Acq: 25 Nov 2024 17:32

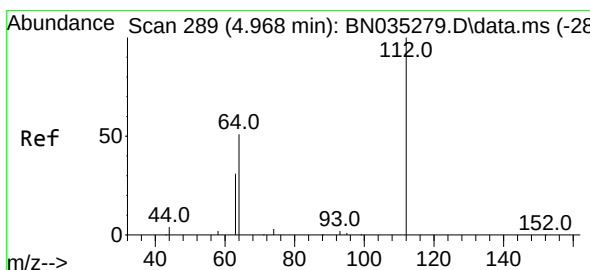
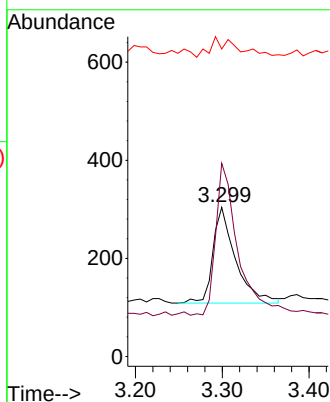
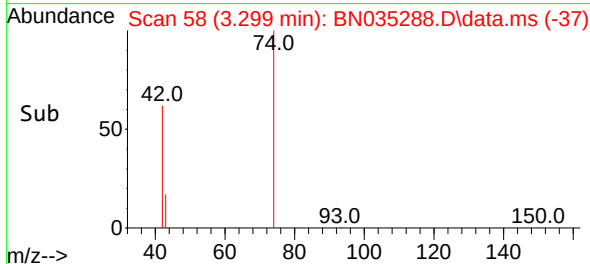
Instrument :
BNA_N
ClientSampleId :
BPOW6-10-20241119MS



Tgt Ion: 42 Resp: 354
Ion Ratio Lower Upper
42 100
74 161.6 102.7 154.1
44 26.6 34.1 51.1

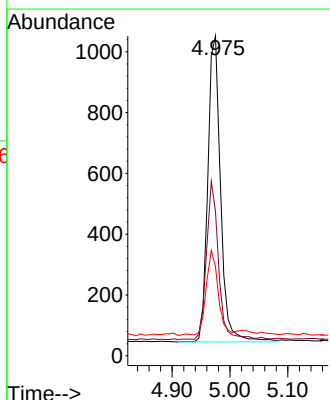
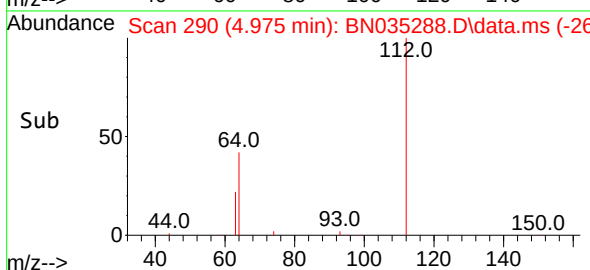
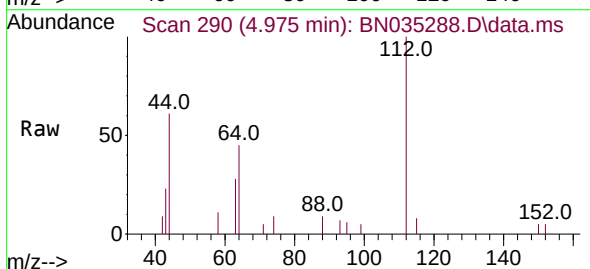
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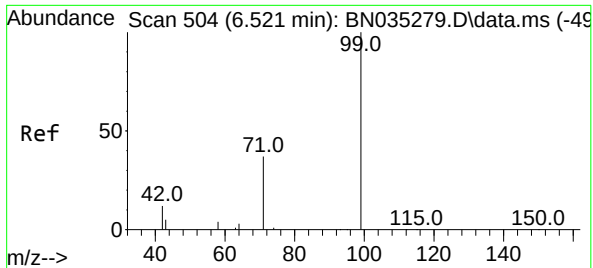
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#4
2-Fluorophenol
Concen: 0.226 ng
RT: 4.975 min Scan# 290
Delta R.T. 0.007 min
Lab File: BN035288.D
Acq: 25 Nov 2024 17:32

Tgt Ion:112 Resp: 1549
Ion Ratio Lower Upper
112 100
64 47.9 40.4 60.6
63 25.6 23.8 35.8





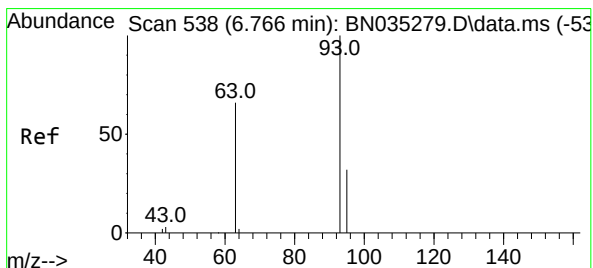
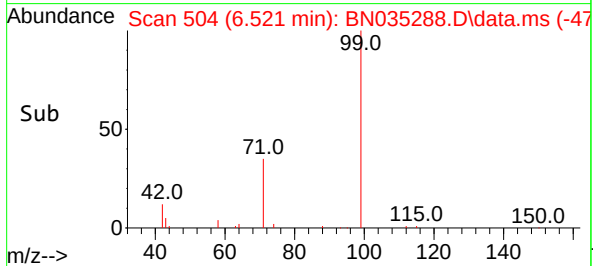
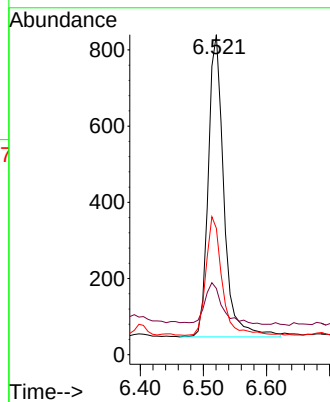
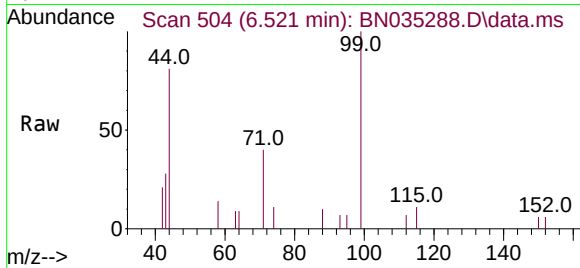
#5
Phenol-d6
Concen: 0.142 ng
RT: 6.521 min Scan# 504
Delta R.T. -0.000 min
Lab File: BN035288.D
Acq: 25 Nov 2024 17:32

Instrument :
BNA_N
ClientSampleId :
BPOW6-10-20241119MS

Tgt Ion: 99 Resp: 1362
Ion Ratio Lower Upper
99 100
42 15.4 12.8 19.2
71 40.7 31.4 47.2

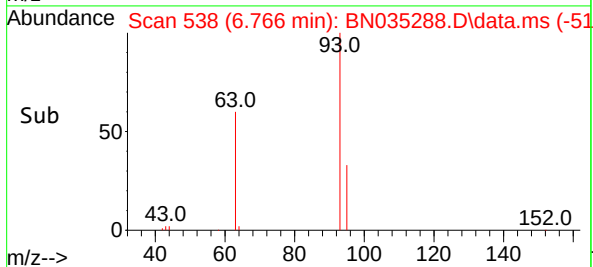
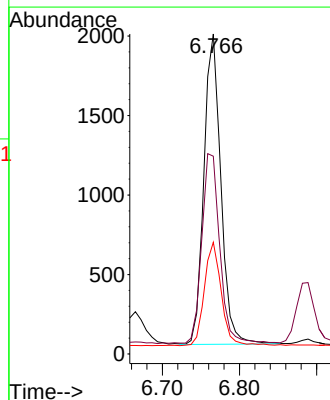
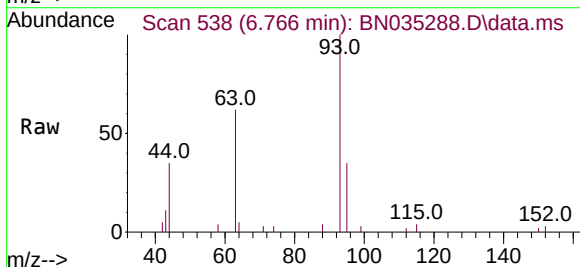
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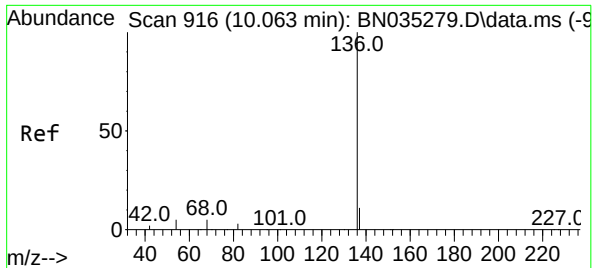
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.369 ng
RT: 6.766 min Scan# 538
Delta R.T. -0.000 min
Lab File: BN035288.D
Acq: 25 Nov 2024 17:32

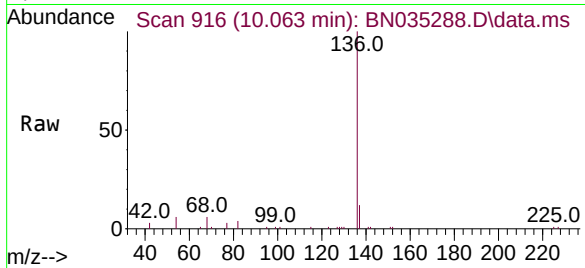
Tgt Ion: 93 Resp: 2973
Ion Ratio Lower Upper
93 100
63 65.3 52.3 78.5
95 33.3 25.5 38.3





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.063 min Scan# 916
Delta R.T. -0.000 min
Lab File: BN035288.D
Acq: 25 Nov 2024 17:32

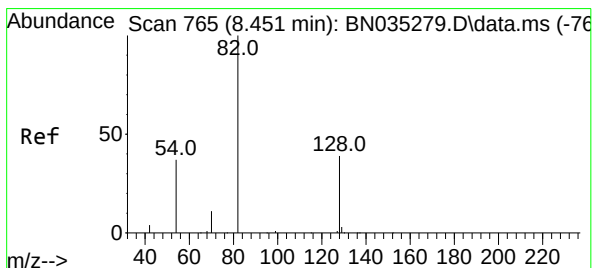
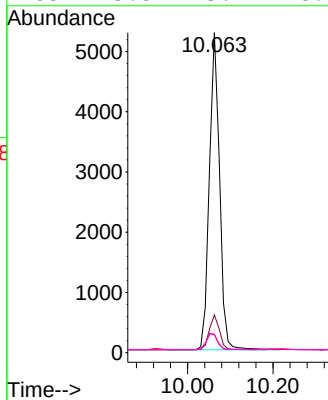
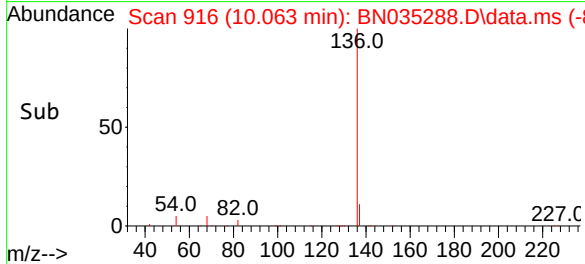
Instrument :
BNA_N
ClientSampleId :
BPOW6-10-20241119MS



Tgt Ion: 136 Resp: 8728
Ion Ratio Lower Upper
136 100
137 11.8 9.7 14.5
54 5.6 5.3 7.9
68 5.8 5.9 8.9#

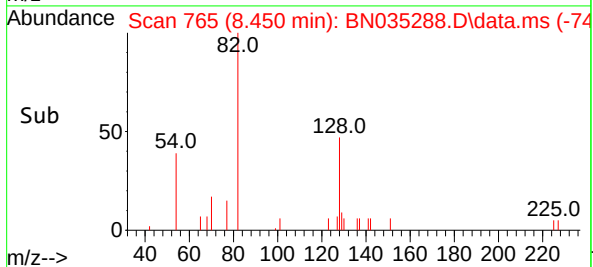
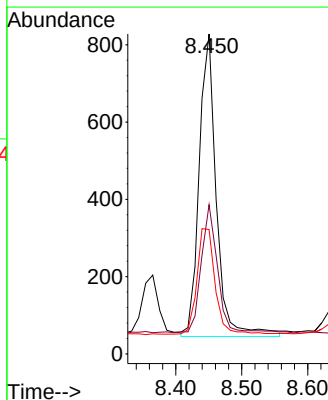
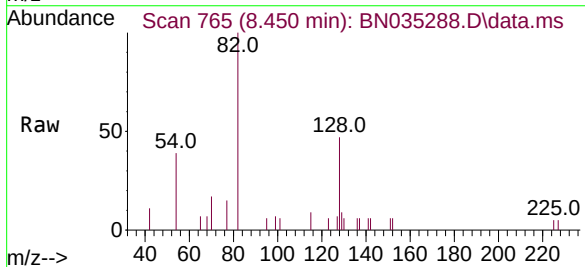
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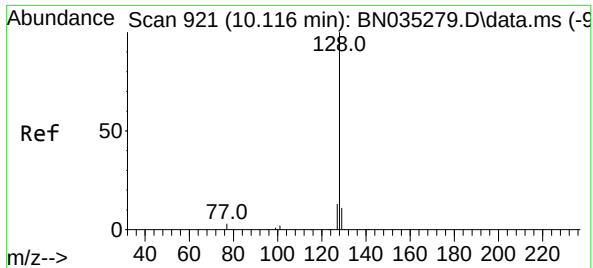
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#8
Nitrobenzene-d5
Concen: 0.201 ng m
RT: 8.450 min Scan# 765
Delta R.T. -0.000 min
Lab File: BN035288.D
Acq: 25 Nov 2024 17:32

Tgt Ion: 82 Resp: 1423
Ion Ratio Lower Upper
82 100
128 46.6 33.0 49.4
54 38.9 33.3 49.9





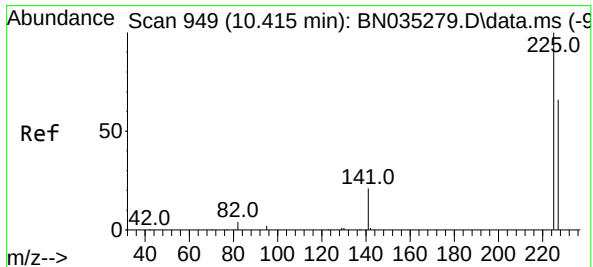
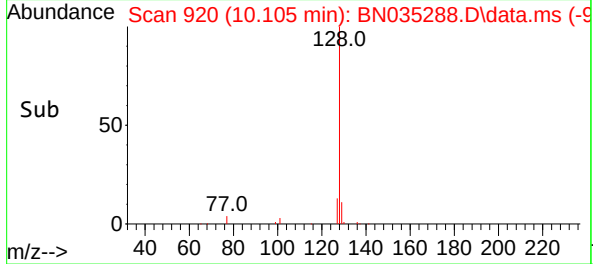
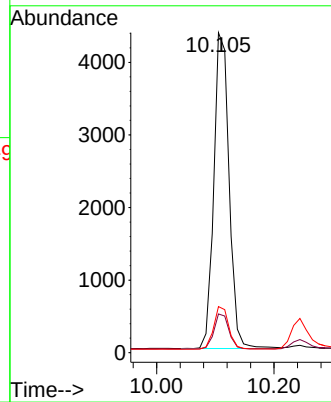
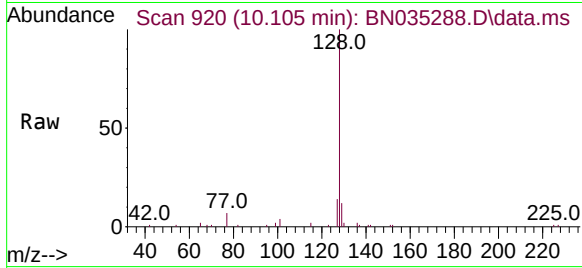
#9
Naphthalene
Concen: 0.324 ng
RT: 10.105 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN035288.D
Acq: 25 Nov 2024 17:32

Instrument :
BNA_N
ClientSampleId :
BPOW6-10-20241119MS

Tgt Ion:128 Resp: 7850
Ion Ratio Lower Upper
128 100
129 12.1 9.6 14.4
127 14.4 11.3 16.9

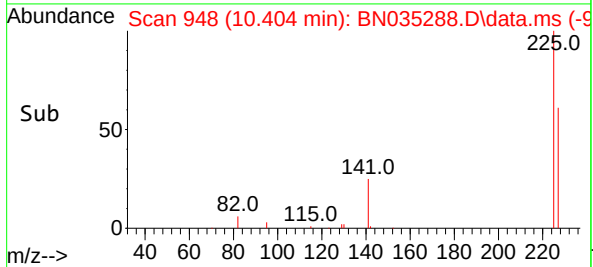
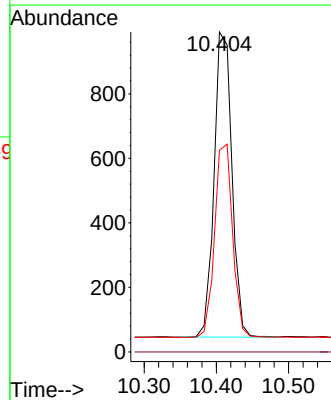
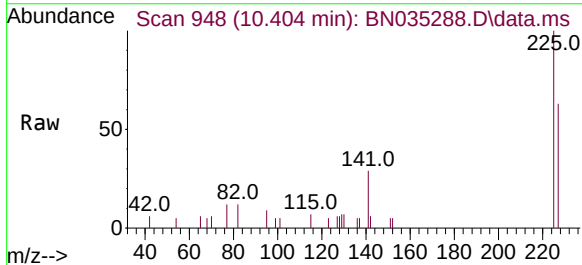
Manual Integrations
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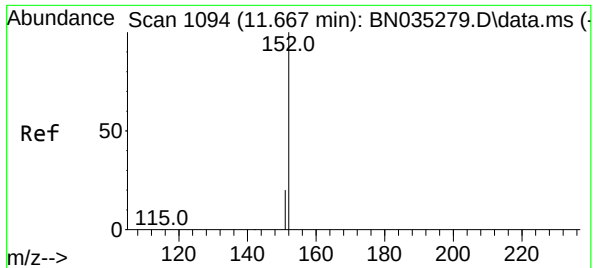
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#10
Hexachlorobutadiene
Concen: 0.238 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.011 min
Lab File: BN035288.D
Acq: 25 Nov 2024 17:32

Tgt Ion:225 Resp: 1619
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.0 51.3 76.9





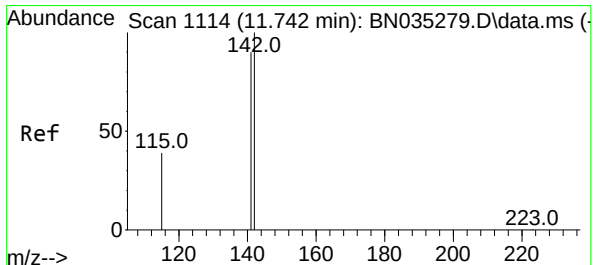
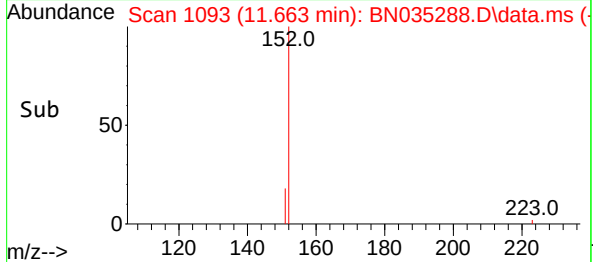
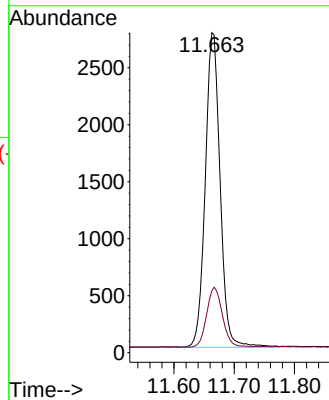
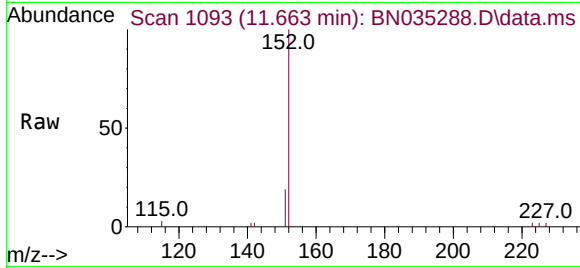
#11
2-Methylnaphthalene-d10
Concen: 0.386 ng
RT: 11.663 min Scan# 1094
Delta R.T. -0.004 min
Lab File: BN035288.D
Acq: 25 Nov 2024 17:32

Instrument :
BNA_N
ClientSampleId :
BPOW6-10-20241119MS

Tgt Ion:152 Resp: 472
Ion Ratio Lower Upper
152 100
151 20.0 17.2 25.8

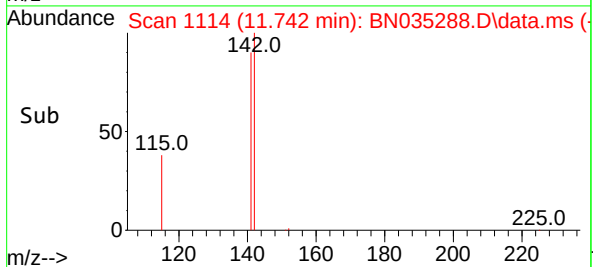
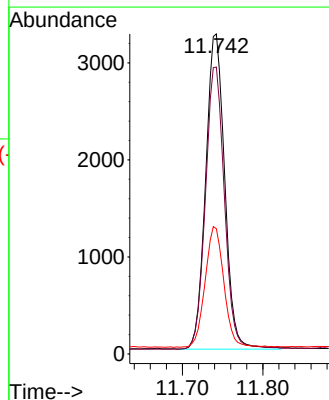
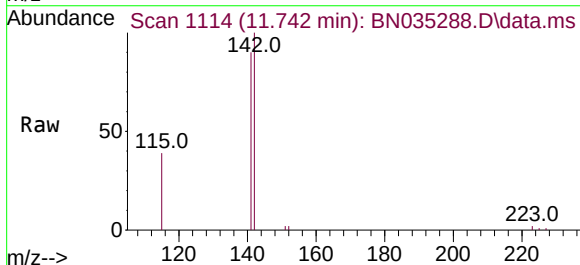
Manual Integrations
APPROVED

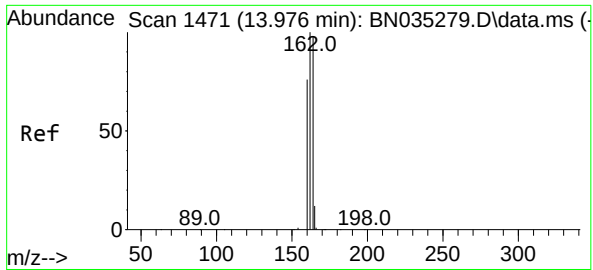
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#12
2-Methylnaphthalene
Concen: 0.338 ng
RT: 11.742 min Scan# 1114
Delta R.T. 0.000 min
Lab File: BN035288.D
Acq: 25 Nov 2024 17:32

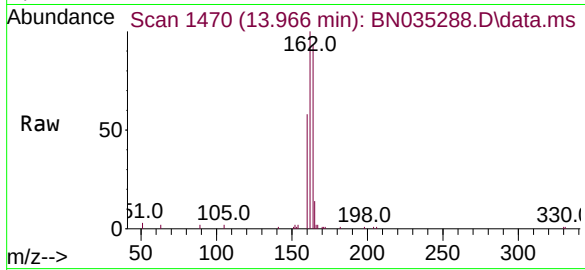
Tgt Ion:142 Resp: 5352
Ion Ratio Lower Upper
142 100
141 89.7 71.8 107.8
115 39.2 32.6 49.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.966 min Scan# 1471
Delta R.T. -0.011 min
Lab File: BN035288.D
Acq: 25 Nov 2024 17:32

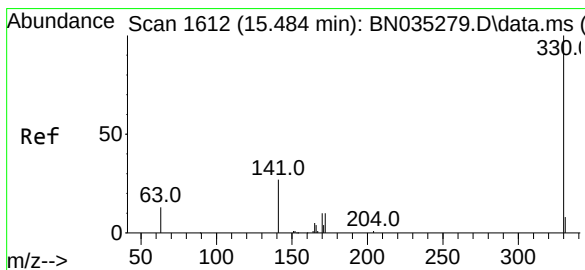
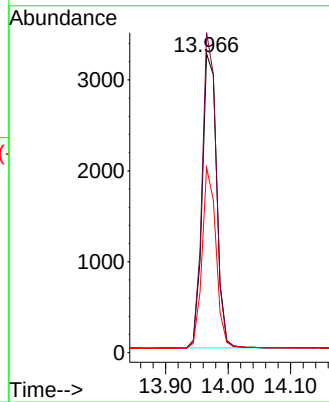
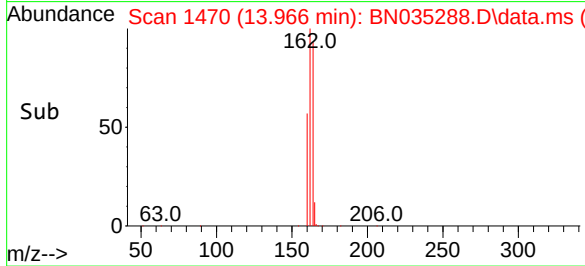
Instrument :
BNA_N
ClientSampleId :
BPOW6-10-20241119MS



Tgt Ion:164 Resp: 5209
Ion Ratio Lower Upper
164 100
162 107.1 82.0 123.0
160 61.9 63.0 94.4

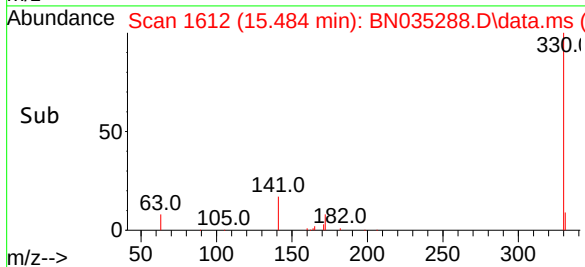
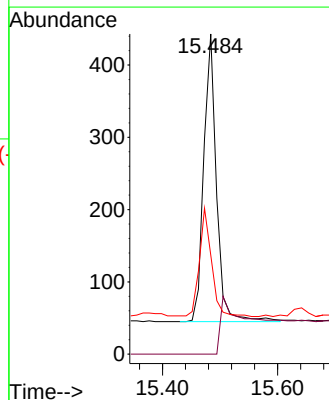
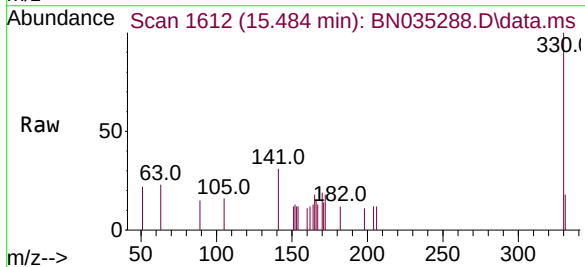
Manual Integrations
APPROVED

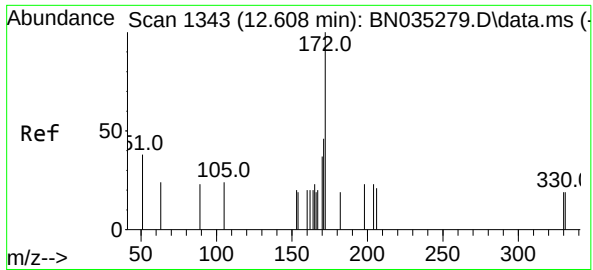
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#14
2,4,6-Tribromophenol
Concen: 0.247 ng
RT: 15.484 min Scan# 1612
Delta R.T. -0.000 min
Lab File: BN035288.D
Acq: 25 Nov 2024 17:32

Tgt Ion:330 Resp: 658
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 35.4 32.4 48.6





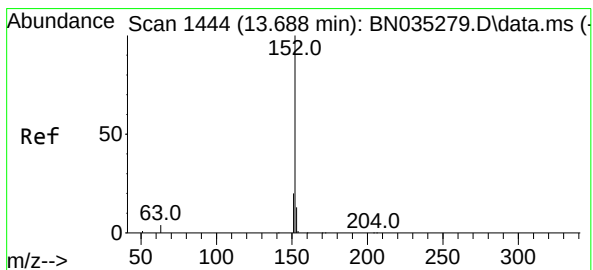
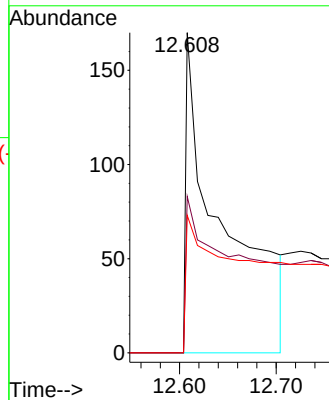
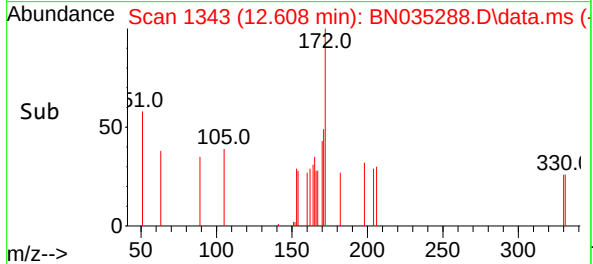
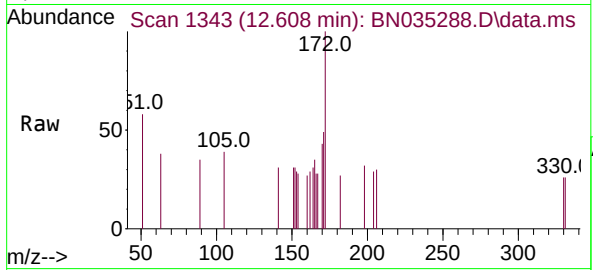
#15
2-Fluorobiphenyl
Concen: 0.146 ng
RT: 12.608 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN035288.D
Acq: 25 Nov 2024 17:32

Instrument :
BNA_N
ClientSampleId :
BPOW6-10-20241119MS

Tgt Ion:172 Resp: 42
Ion Ratio Lower Upper
172 100
171 48.8 36.6 55.0
170 42.9 29.7 44.5

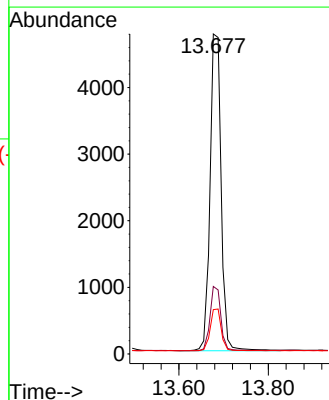
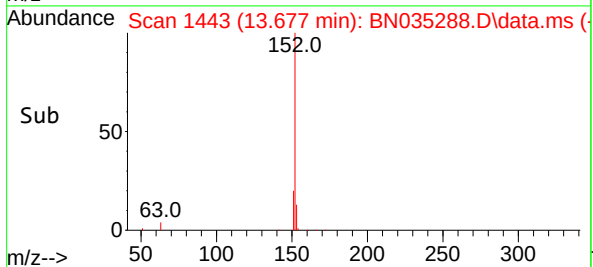
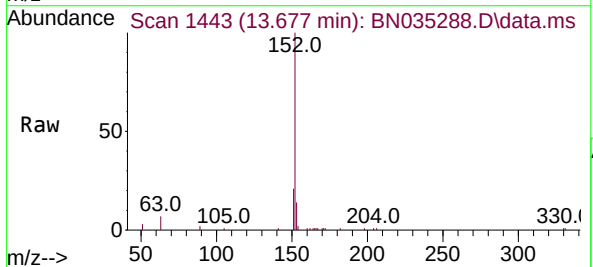
Manual Integrations
APPROVED

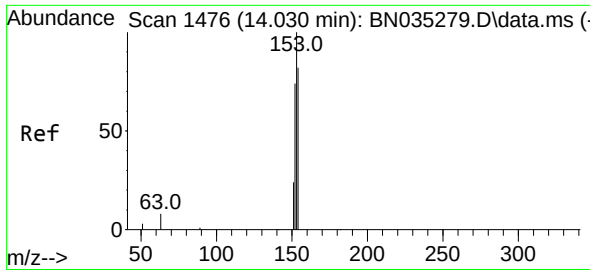
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#16
Acenaphthylene
Concen: 0.312 ng
RT: 13.677 min Scan# 1443
Delta R.T. -0.011 min
Lab File: BN035288.D
Acq: 25 Nov 2024 17:32

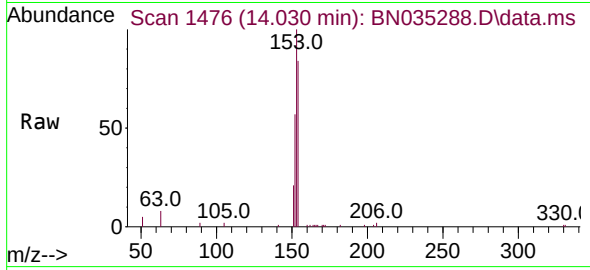
Tgt Ion:152 Resp: 8167
Ion Ratio Lower Upper
152 100
151 19.7 15.9 23.9
153 13.1 10.2 15.4





#17
Acenaphthene
Concen: 0.317 ng
RT: 14.030 min Scan# 1476
Delta R.T. -0.000 min
Lab File: BN035288.D
Acq: 25 Nov 2024 17:32

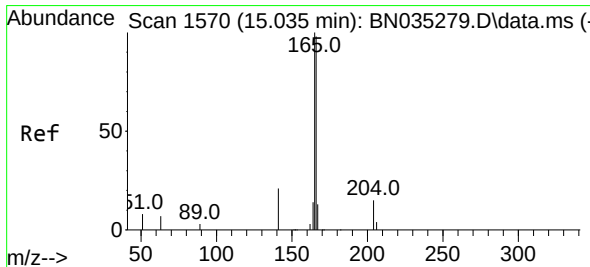
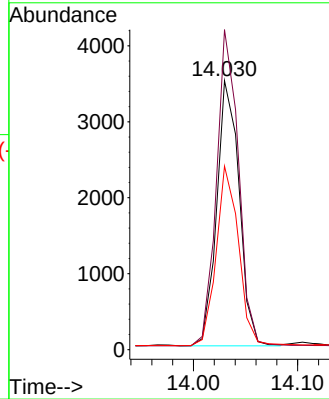
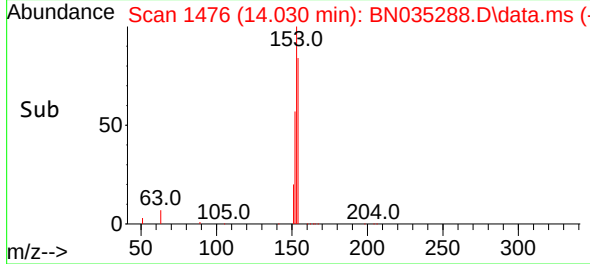
Instrument :
BNA_N
ClientSampleId :
BPOW6-10-20241119MS



Tgt Ion:154 Resp: 5230
Ion Ratio Lower Upper
154 100
153 117.7 96.1 144.1
152 67.5 72.2 108.2

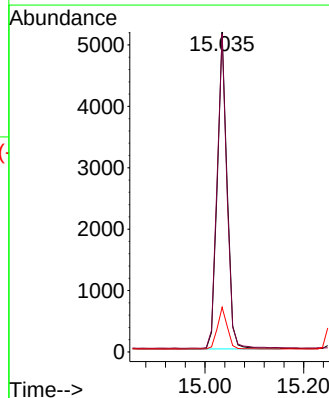
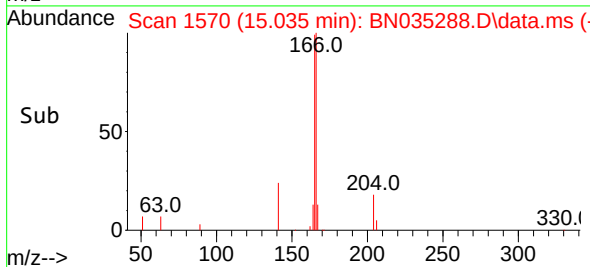
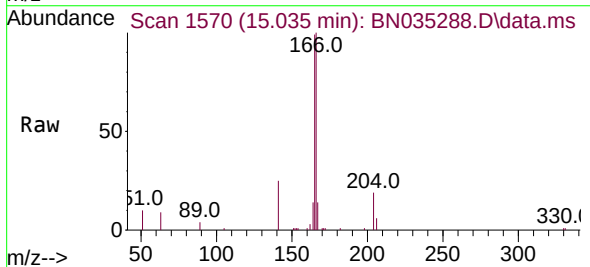
Manual Integrations
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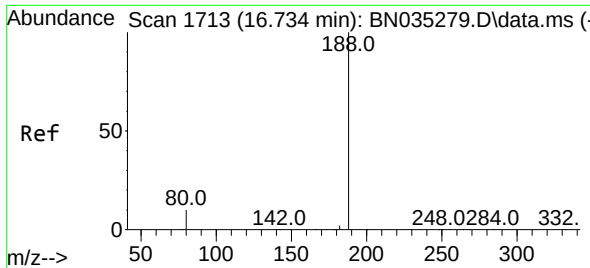
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#18
Fluorene
Concen: 0.307 ng
RT: 15.035 min Scan# 1570
Delta R.T. -0.000 min
Lab File: BN035288.D
Acq: 25 Nov 2024 17:32

Tgt Ion:166 Resp: 7099
Ion Ratio Lower Upper
166 100
165 99.7 81.2 121.8
167 13.4 10.5 15.7





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.734 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN035288.D

Acq: 25 Nov 2024 17:32

Instrument :

BNA_N

ClientSampleId :

BPOW6-10-20241119MS

Tgt Ion:188 Resp: 1139

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

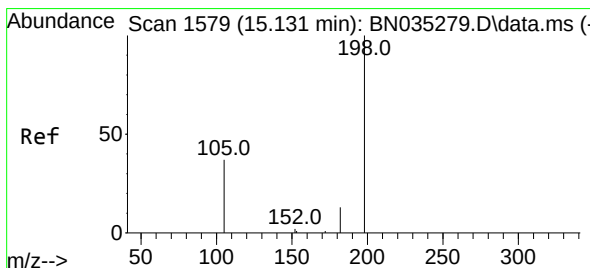
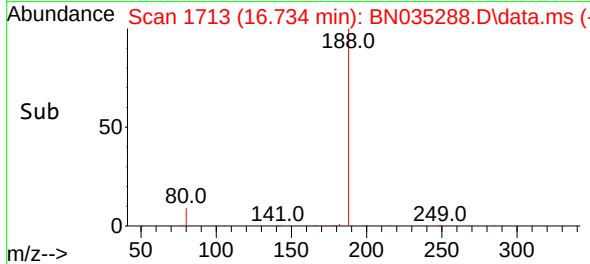
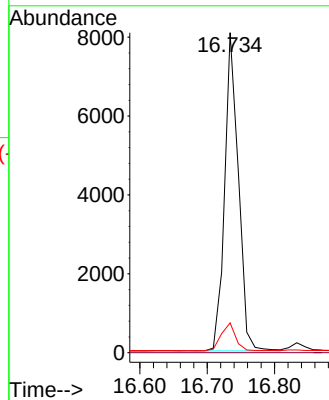
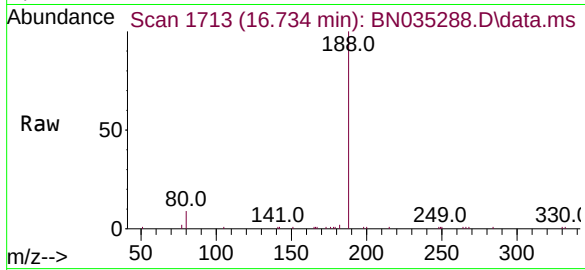
80 9.3 8.9 13.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/27/2024

Supervised By :mohammad ahmed 11/27/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.374 ng

RT: 15.131 min Scan# 1579

Delta R.T. -0.000 min

Lab File: BN035288.D

Acq: 25 Nov 2024 17:32

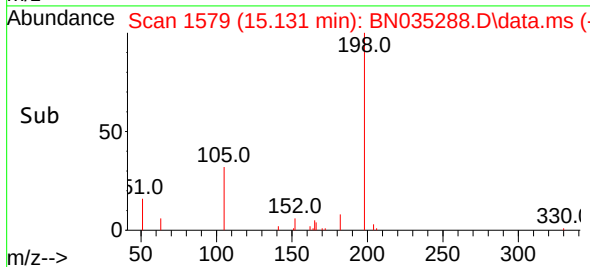
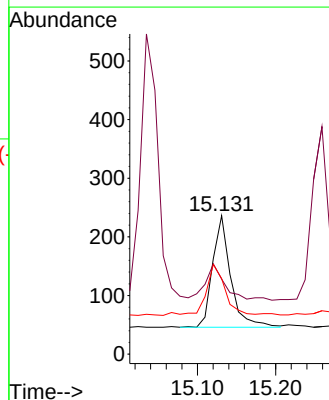
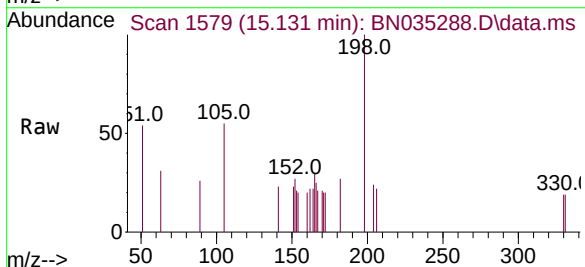
Tgt Ion:198 Resp: 305

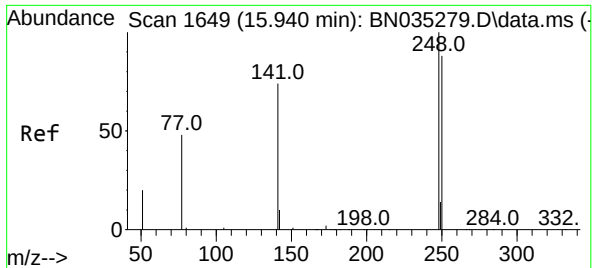
Ion Ratio Lower Upper

198 100

51 54.2 53.6 80.4

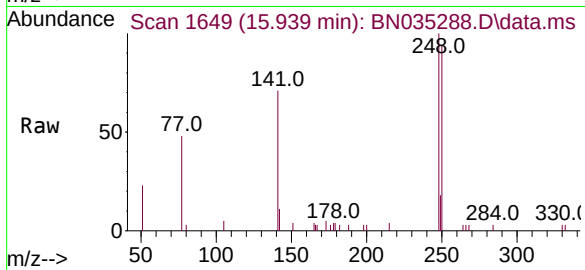
105 54.7 47.4 71.2





#21
4-Bromophenyl-phenylether
Concen: 0.356 ng
RT: 15.939 min Scan# 1649
Delta R.T. -0.001 min
Lab File: BN035288.D
Acq: 25 Nov 2024 17:32

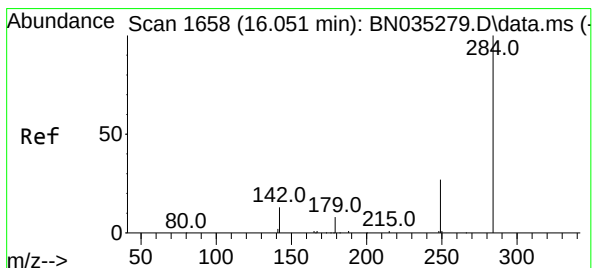
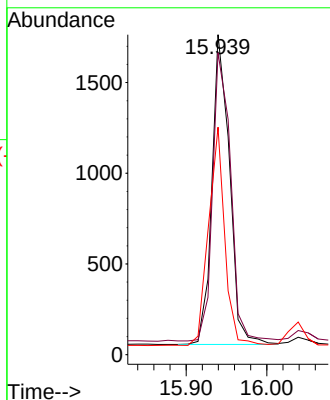
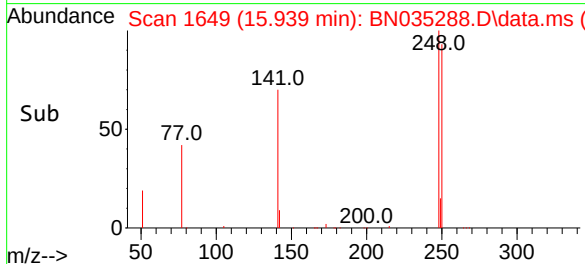
Instrument :
BNA_N
ClientSampleId :
BPOW6-10-20241119MS



Tgt Ion:248 Resp: 2574
Ion Ratio Lower Upper
248 100
250 94.3 74.8 112.2
141 71.1 59.0 88.4

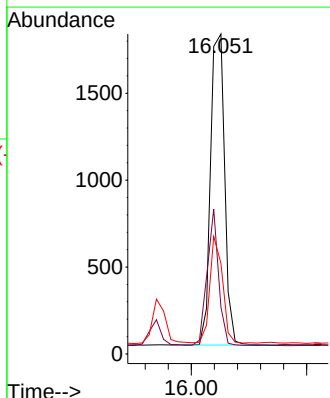
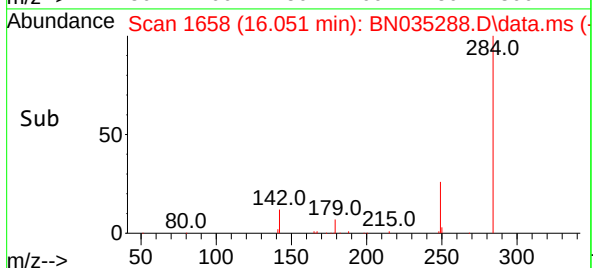
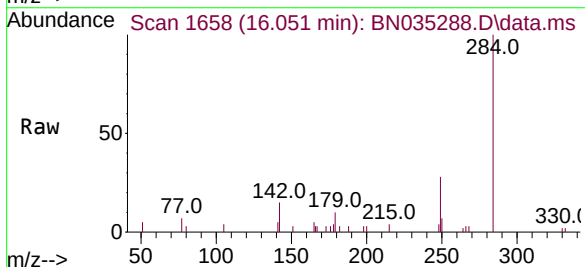
Manual Integrations
APPROVED

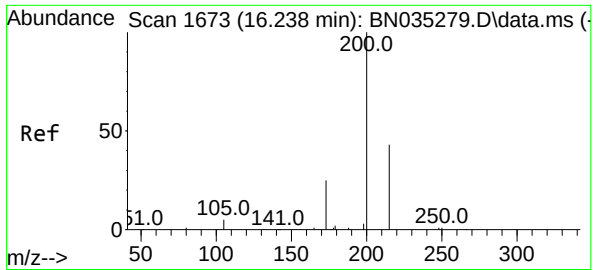
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#22
Hexachlorobenzene
Concen: 0.292 ng
RT: 16.051 min Scan# 1658
Delta R.T. -0.000 min
Lab File: BN035288.D
Acq: 25 Nov 2024 17:32

Tgt Ion:284 Resp: 3029
Ion Ratio Lower Upper
284 100
142 36.0 28.7 43.1
249 30.9 25.4 38.0





#23

Atrazine

Concen: 0.379 ng

RT: 16.237 min Scan# 1673

Delta R.T. -0.000 min

Lab File: BN035288.D

Acq: 25 Nov 2024 17:32

Instrument :

BNA_N

ClientSampleId :

BPOW6-10-20241119MS

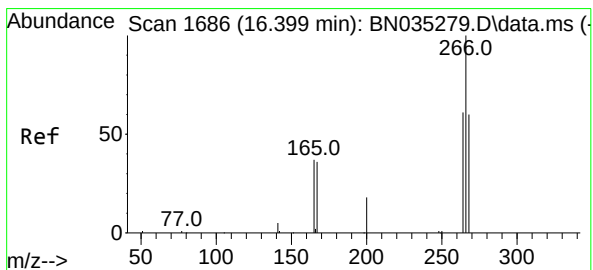
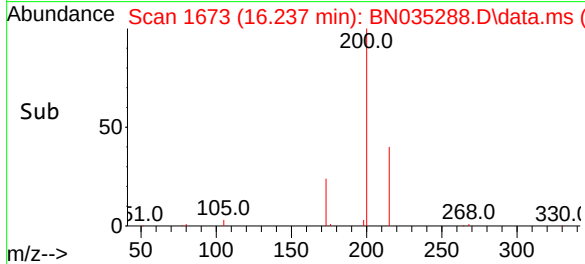
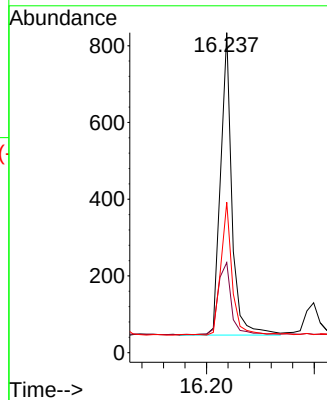
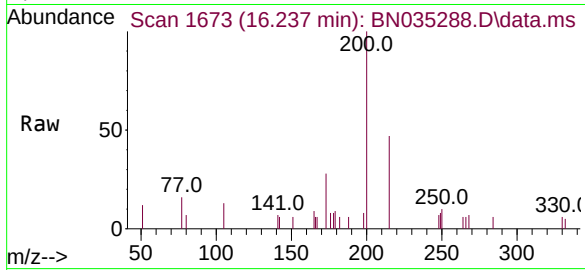
Tgt Ion:	200	Resp:	115
Ion Ratio	Lower	Upper	
200	100		
173	28.2	25.8	38.8
215	47.0	38.6	58.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/27/2024

Supervised By :mohammad ahmed 11/27/2024



#24

Pentachlorophenol

Concen: 0.312 ng

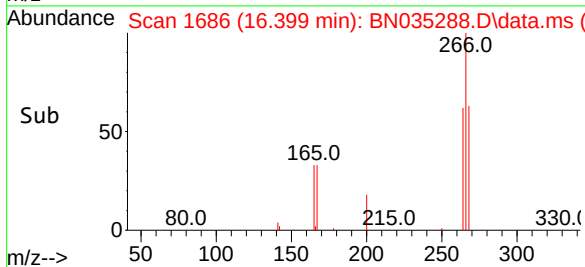
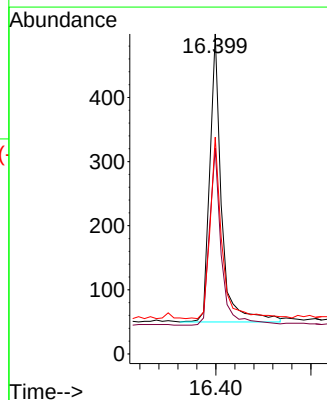
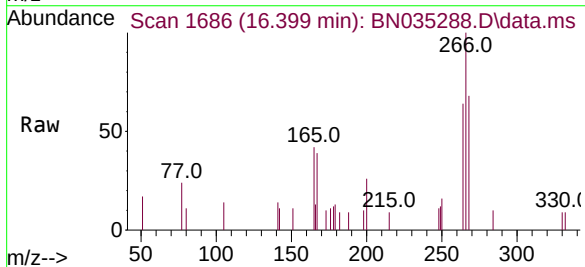
RT: 16.399 min Scan# 1686

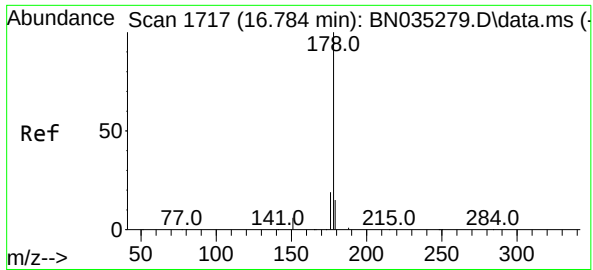
Delta R.T. -0.000 min

Lab File: BN035288.D

Acq: 25 Nov 2024 17:32

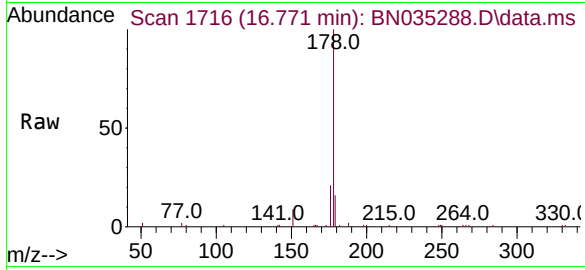
Tgt Ion:	266	Resp:	774
Ion Ratio	Lower	Upper	
266	100		
264	61.9	49.3	73.9
268	63.3	48.6	73.0





#25
Phenanthrene
Concen: 0.352 ng
RT: 16.771 min Scan# 1716
Delta R.T. -0.013 min
Lab File: BN035288.D
Acq: 25 Nov 2024 17:32

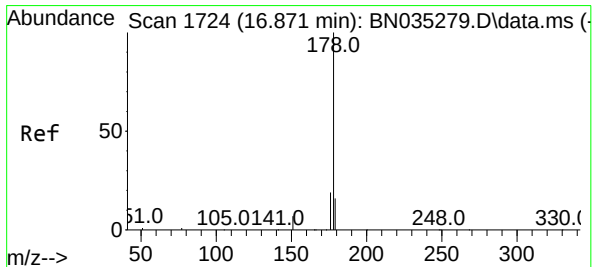
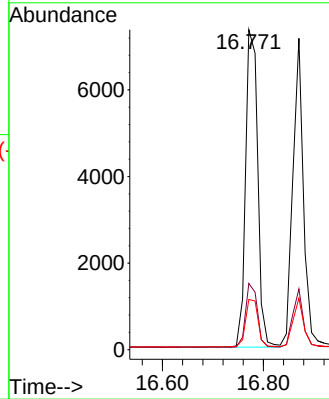
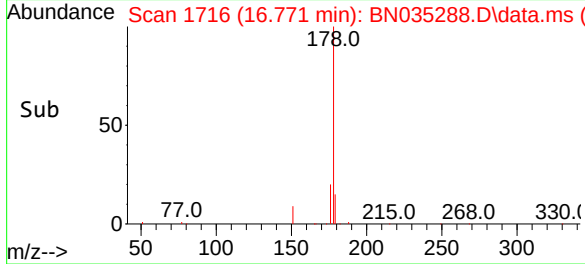
Instrument :
BNA_N
ClientSampleId :
BPOW6-10-20241119MS



Tgt Ion:178 Resp: 12309
Ion Ratio Lower Upper
178 100
176 19.4 15.4 23.0
179 15.3 12.6 18.8

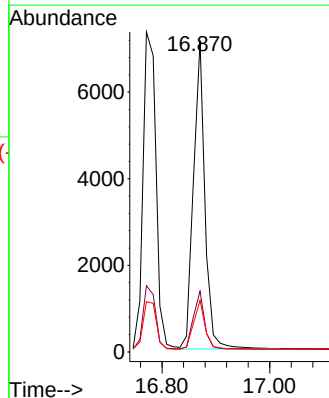
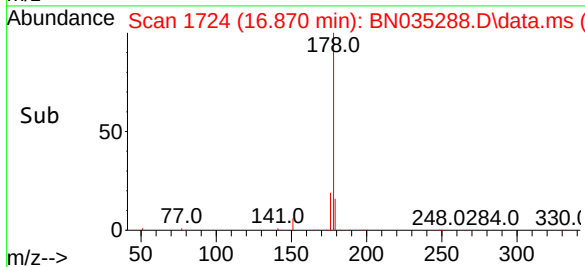
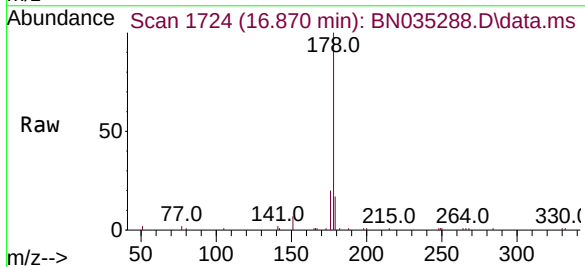
Manual Integrations
APPROVED

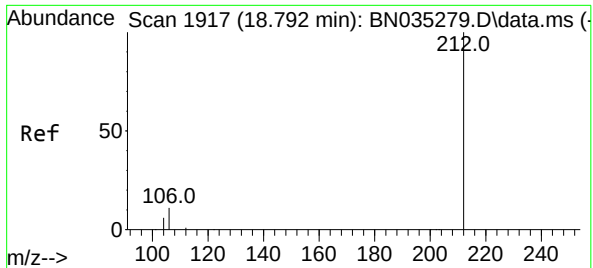
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#26
Anthracene
Concen: 0.350 ng
RT: 16.870 min Scan# 1724
Delta R.T. -0.000 min
Lab File: BN035288.D
Acq: 25 Nov 2024 17:32

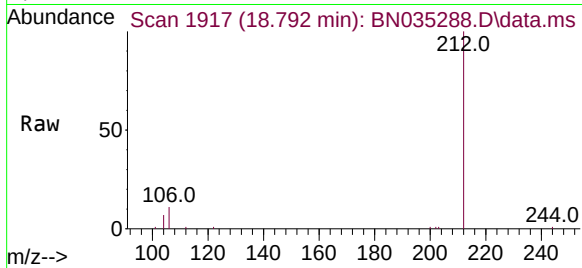
Tgt Ion:178 Resp: 10530
Ion Ratio Lower Upper
178 100
176 18.7 15.0 22.4
179 15.7 12.4 18.6





#27
Fluoranthene-d10
Concen: 0.381 ng
RT: 18.792 min Scan# 1917
Delta R.T. -0.000 min
Lab File: BN035288.D
Acq: 25 Nov 2024 17:32

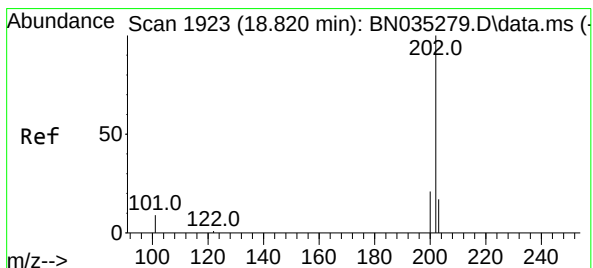
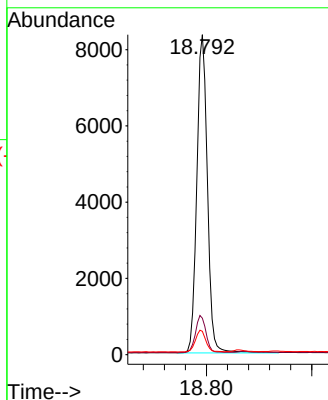
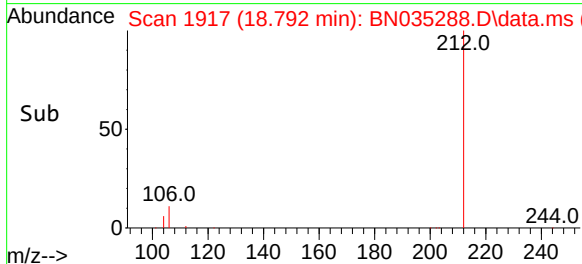
Instrument :
BNA_N
ClientSampleId :
BPOW6-10-20241119MS



Tgt Ion:212 Resp: 11634
Ion Ratio Lower Upper
212 100
106 11.5 9.8 14.8
104 6.7 5.6 8.4

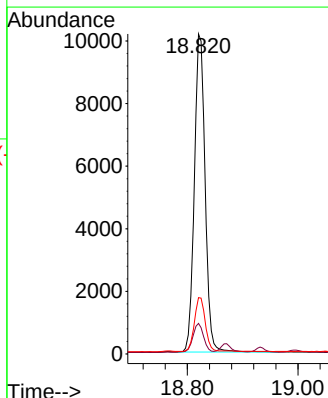
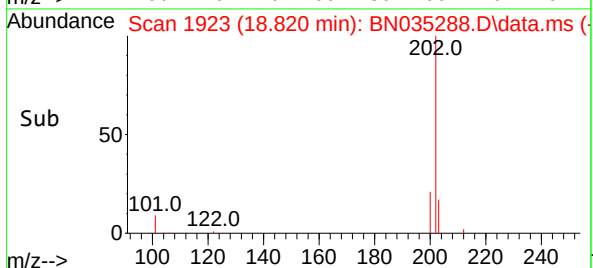
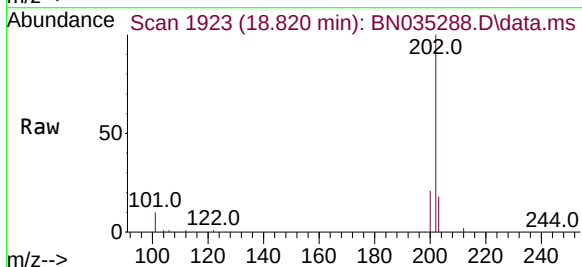
Manual Integrations
APPROVED

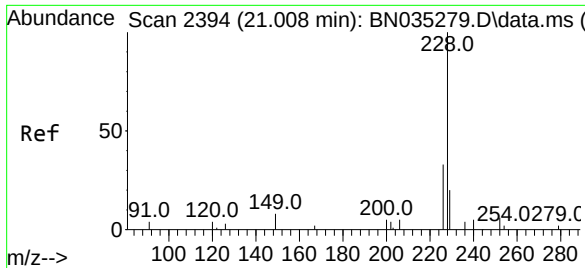
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#28
Fluoranthene
Concen: 0.312 ng
RT: 18.820 min Scan# 1923
Delta R.T. 0.000 min
Lab File: BN035288.D
Acq: 25 Nov 2024 17:32

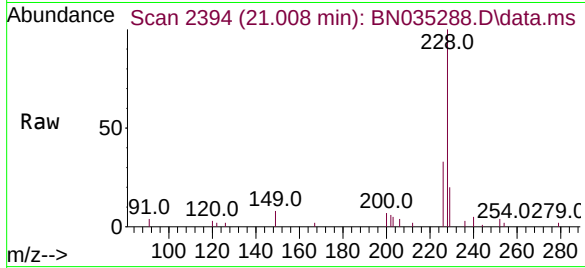
Tgt Ion:202 Resp: 13774
Ion Ratio Lower Upper
202 100
101 9.0 7.6 11.4
203 17.0 13.8 20.8





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.008 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN035288.D
Acq: 25 Nov 2024 17:32

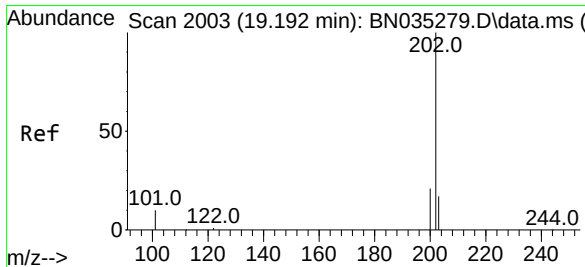
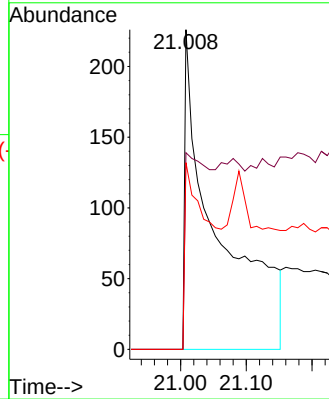
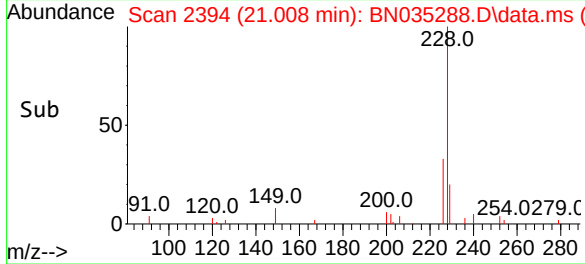
Instrument :
BNA_N
ClientSampleId :
BPOW6-10-20241119MS



Tgt Ion:240 Resp: 74
Ion Ratio Lower Upper
240 100
120 61.5 54.9 82.3
236 58.4 54.0 81.0

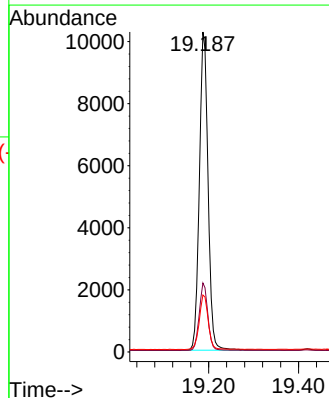
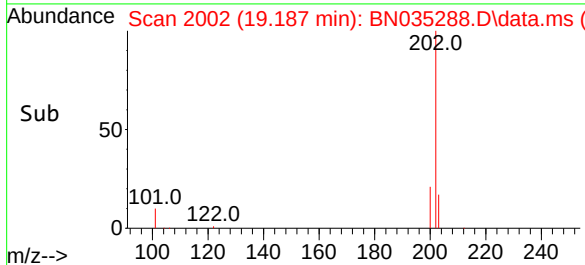
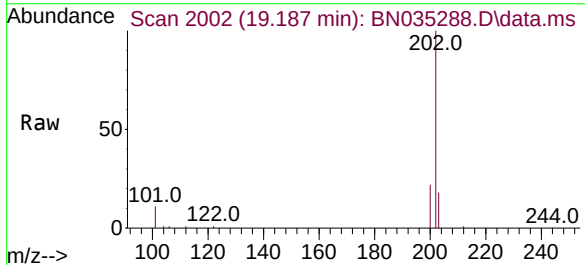
Manual Integrations
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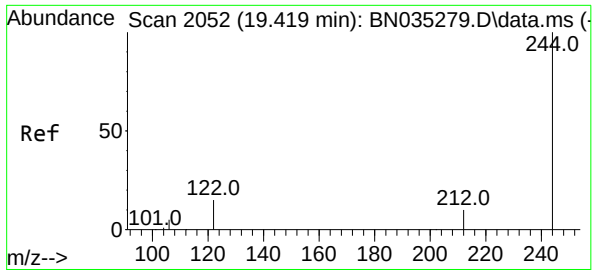
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#30
Pyrene
Concen: 0.511 ng
RT: 19.187 min Scan# 2002
Delta R.T. -0.005 min
Lab File: BN035288.D
Acq: 25 Nov 2024 17:32

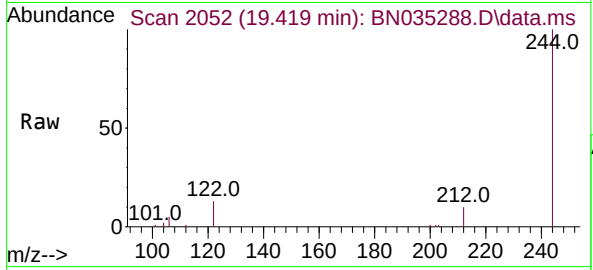
Tgt Ion:202 Resp: 13805
Ion Ratio Lower Upper
202 100
200 21.0 16.8 25.2
203 17.6 14.4 21.6





#31
Terphenyl-d14
Concen: 0.768 ng
RT: 19.419 min Scan# 2052
Delta R.T. 0.000 min
Lab File: BN035288.D
Acq: 25 Nov 2024 17:32

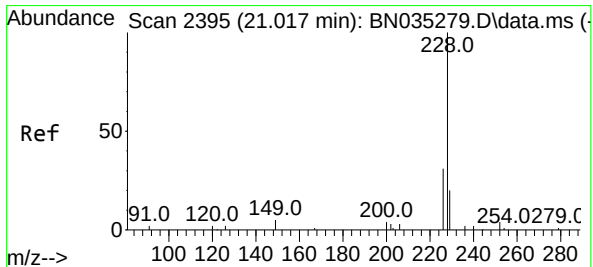
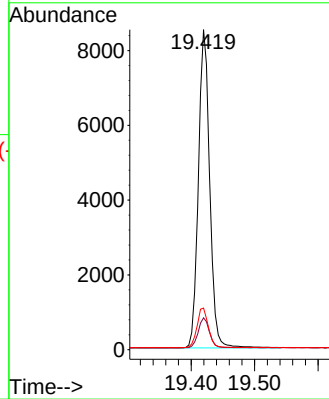
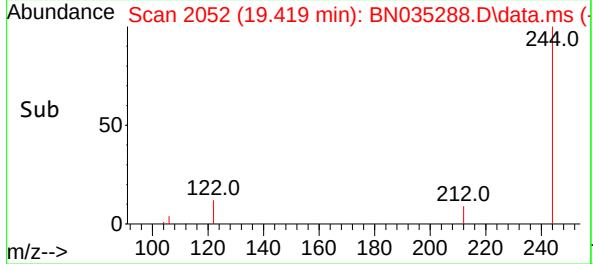
Instrument :
BNA_N
ClientSampleId :
BPOW6-10-20241119MS



Tgt Ion:244 Resp: 10548
Ion Ratio Lower Upper
244 100
212 10.0 9.4 14.0
122 13.0 13.0 19.4

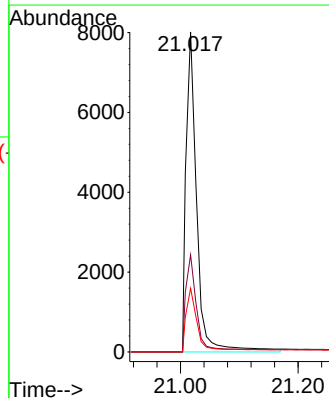
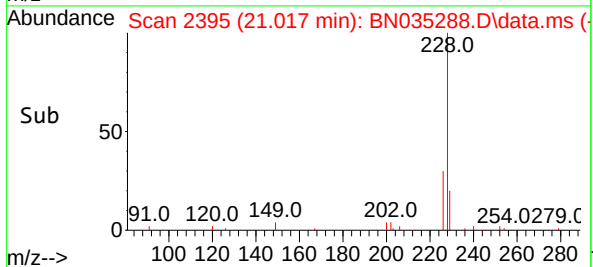
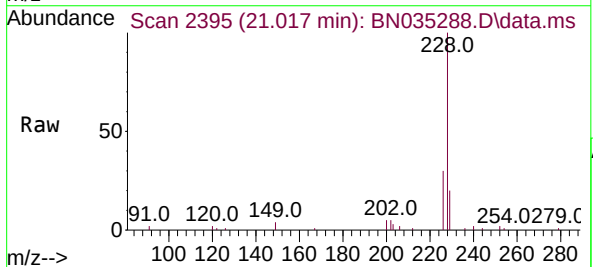
Manual Integrations
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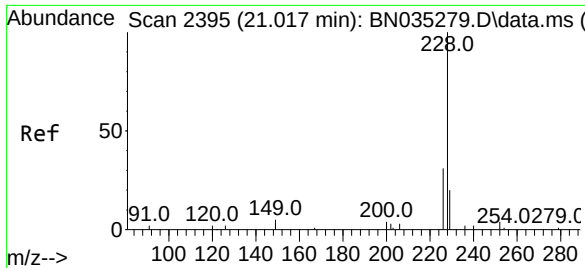
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#32
Benzo(a)anthracene
Concen: 0.390 ng
RT: 21.017 min Scan# 2395
Delta R.T. 0.000 min
Lab File: BN035288.D
Acq: 25 Nov 2024 17:32

Tgt Ion:228 Resp: 10096
Ion Ratio Lower Upper
228 100
226 30.4 24.7 37.1
229 19.9 16.2 24.2





#33

Chrysene

Concen: 0.390 ng

RT: 21.017 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035288.D

Acq: 25 Nov 2024 17:32

Instrument :

BNA_N

ClientSampleId :

BPOW6-10-20241119MS

Tgt Ion:228 Resp: 10090

Ion Ratio Lower Upper

228 100

226 30.4 24.7 37.1

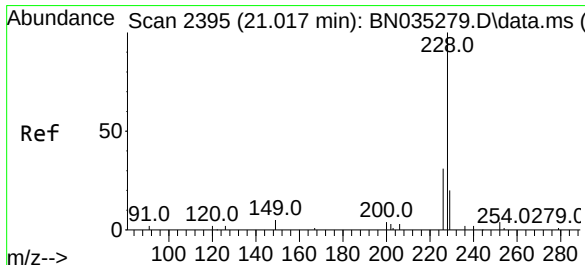
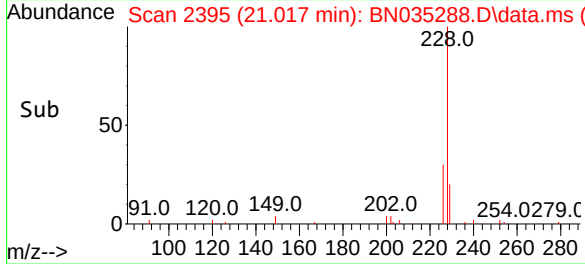
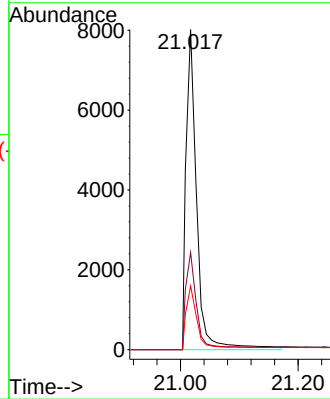
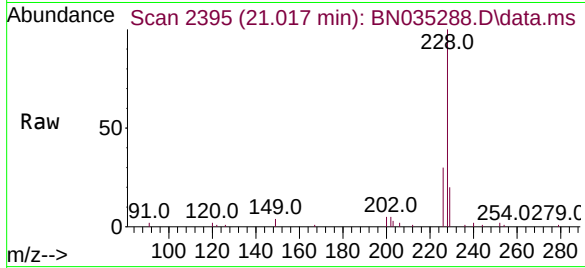
229 19.9 16.2 24.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/27/2024

Supervised By :mohammad ahmed 11/27/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.407 ng

RT: 21.017 min Scan# 2395

Delta R.T. 0.000 min

Lab File: BN035288.D

Acq: 25 Nov 2024 17:32

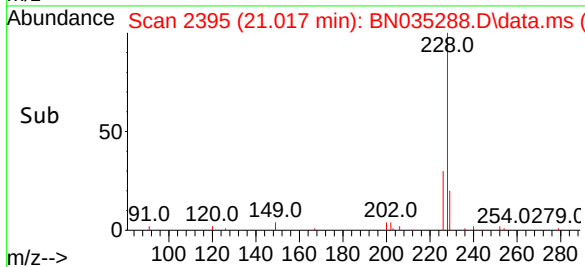
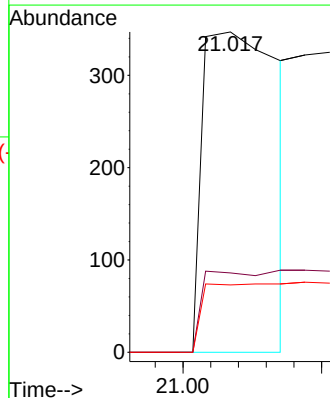
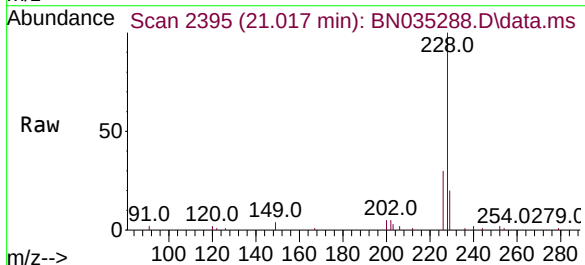
Tgt Ion:149 Resp: 578

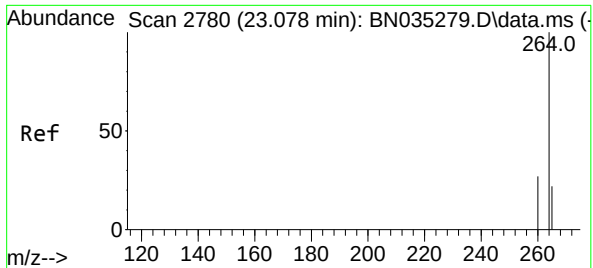
Ion Ratio Lower Upper

149 100

167 18.2 0.0 0.0#

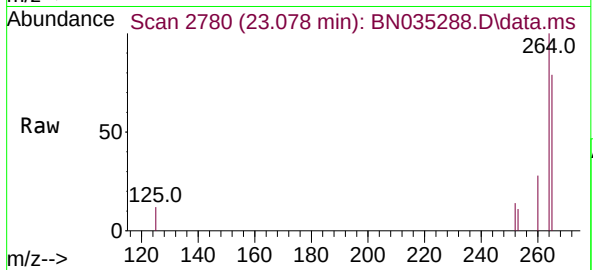
279 0.0 13.0 19.6#





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.078 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN035288.D
Acq: 25 Nov 2024 17:32

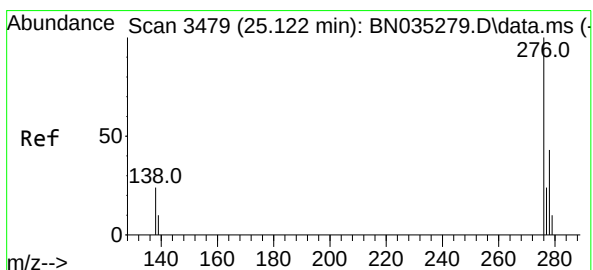
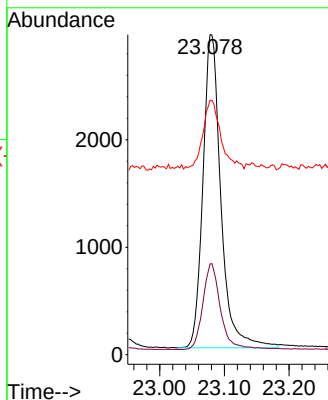
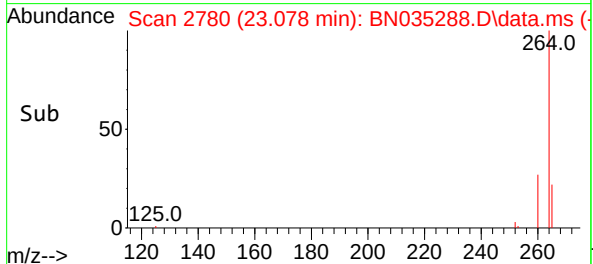
Instrument :
BNA_N
ClientSampleId :
BPOW6-10-20241119MS



Tgt Ion:264 Resp: 561
Ion Ratio Lower Upper
264 100
260 28.4 22.3 33.5
265 79.5 68.6 103.0

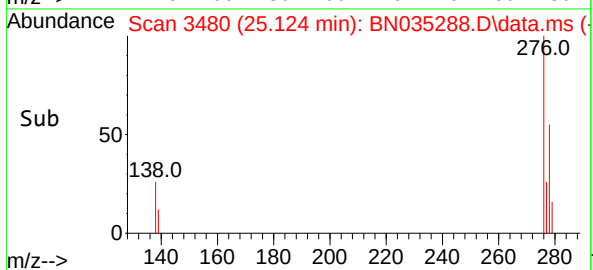
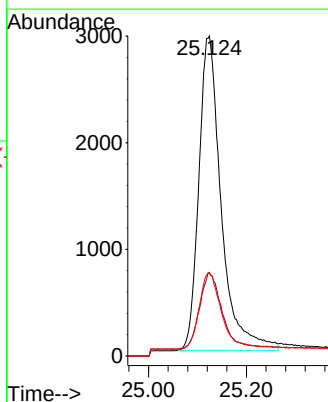
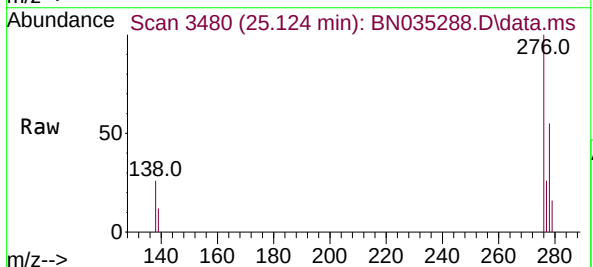
Manual Integrations
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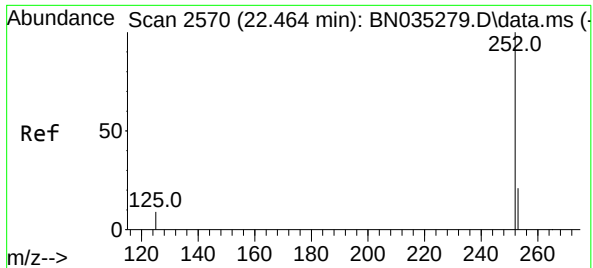
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.407 ng
RT: 25.124 min Scan# 3480
Delta R.T. 0.003 min
Lab File: BN035288.D
Acq: 25 Nov 2024 17:32

Tgt Ion:276 Resp: 9354
Ion Ratio Lower Upper
276 100
138 23.4 18.8 28.2
277 24.0 18.2 27.4





#37

Benzo(b)fluoranthene

Concen: 0.344 ng

RT: 22.464 min Scan# 2570

Delta R.T. -0.000 min

Lab File: BN035288.D

Acq: 25 Nov 2024 17:32

Instrument :

BNA_N

ClientSampleId :

BPOW6-10-20241119MS

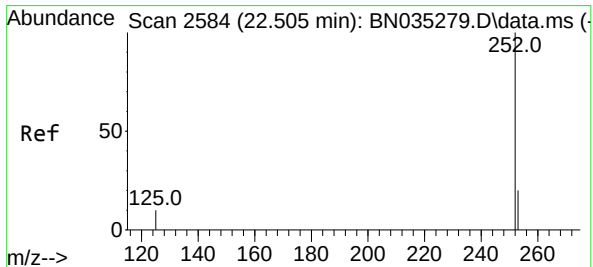
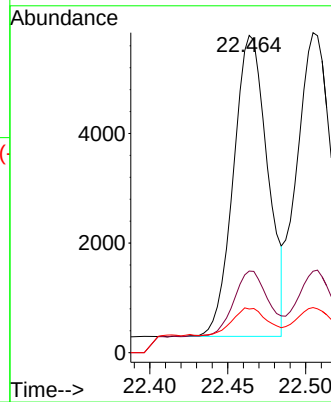
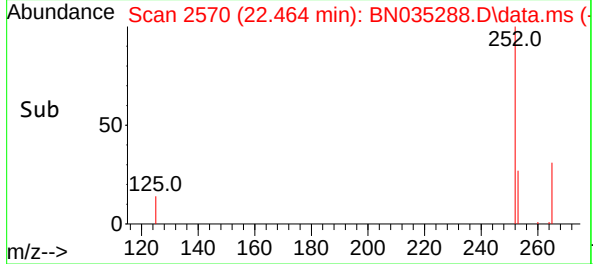
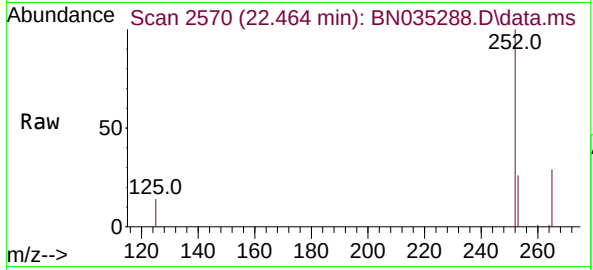
Tgt Ion:252	Resp:	840
Ion Ratio	Lower	Upper
252	100	
253	25.7	20.2 30.2
125	13.8	12.0 18.0

Manual Integrations

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Reviewed By :Yogesh Patel 11/27/2024

Supervised By :mohammad ahmed 11/27/2024



#38

Benzo(k)fluoranthene

Concen: 0.372 ng

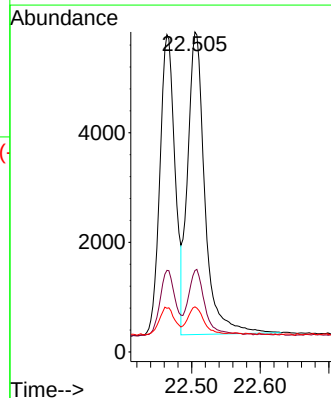
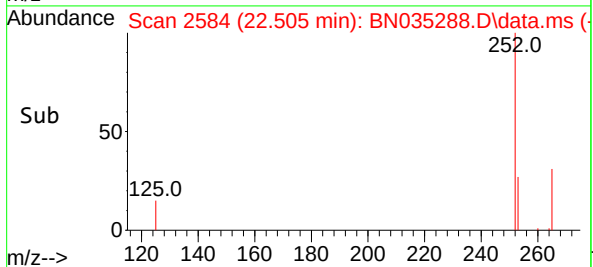
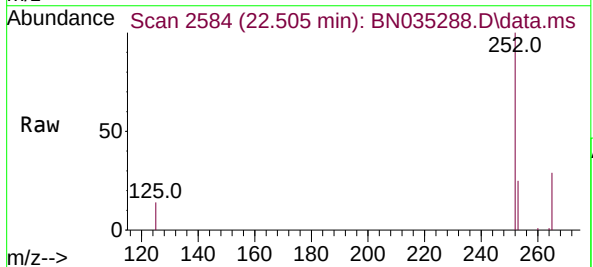
RT: 22.505 min Scan# 2584

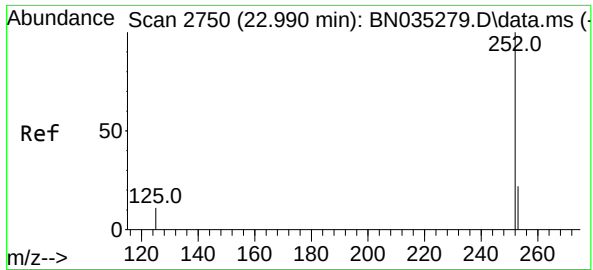
Delta R.T. -0.000 min

Lab File: BN035288.D

Acq: 25 Nov 2024 17:32

Tgt Ion:252	Resp:	9589
Ion Ratio	Lower	Upper
252	100	
253	25.5	20.1 30.1
125	14.1	12.7 19.1





#39

Benzo(a)pyrene

Concen: 0.404 ng

RT: 22.990 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035288.D

Acq: 25 Nov 2024 17:32

Instrument :

BNA_N

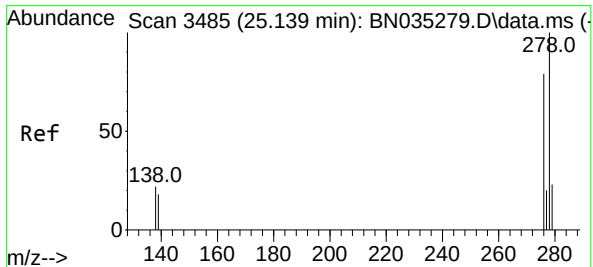
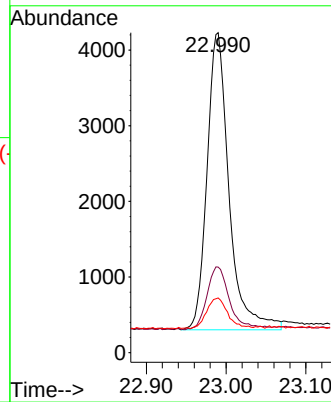
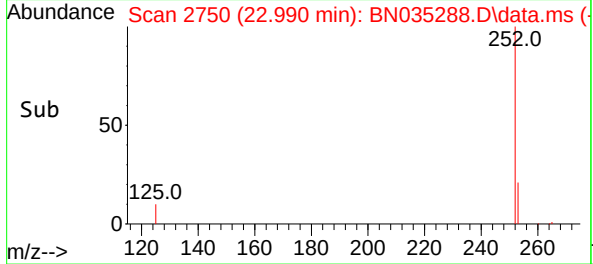
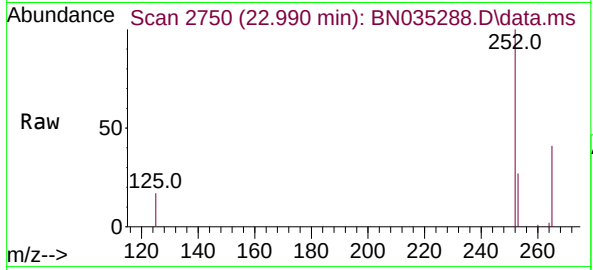
ClientSampleId :

BPOW6-10-20241119MS

Tgt Ion:	252	Resp:	7534
Ion Ratio	Lower	Upper	
252	100		
253	26.7	22.3	33.5
125	17.1	15.3	22.9

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.410 ng

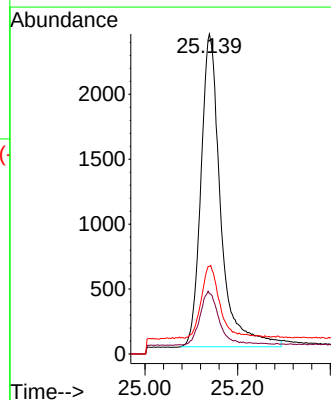
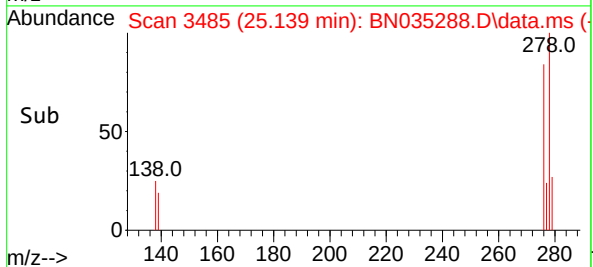
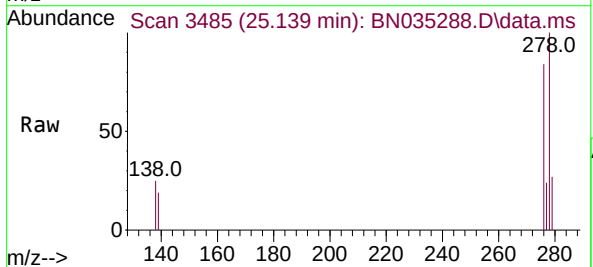
RT: 25.139 min Scan# 3485

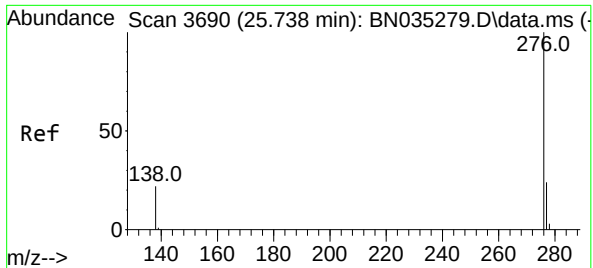
Delta R.T. -0.000 min

Lab File: BN035288.D

Acq: 25 Nov 2024 17:32

Tgt Ion:	278	Resp:	7128
Ion Ratio	Lower	Upper	
278	100		
139	18.9	17.0	25.6
279	27.4	23.0	34.4





#41

Benzo(g,h,i)perylene

Concen: 0.387 ng

RT: 25.738 min Scan# 30

Delta R.T. -0.000 min

Lab File: BN035288.D

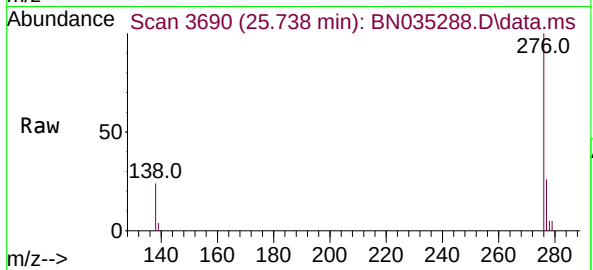
Acq: 25 Nov 2024 17:32

Instrument :

BNA_N

ClientSampleId :

BPOW6-10-20241119MS



Tgt Ion:276 Resp: 7780

Ion Ratio Lower Upper

276 100

277 25.6 21.1 31.7

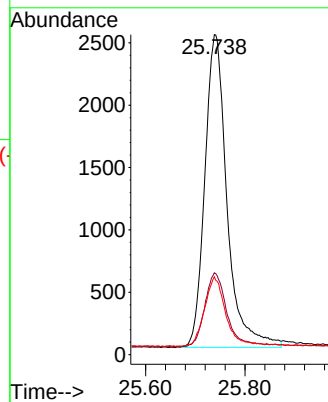
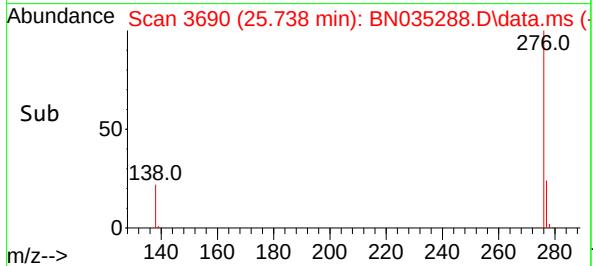
138 24.4 19.8 29.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/27/2024

Supervised By :mohammad ahmed 11/27/2024



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	11/19/24
Project:	CTO WE13	Date Received:	11/20/24
Client Sample ID:	BPOW6-10-20241119MSD	SDG No.:	P4934
Lab Sample ID:	P4934-07MSD	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	980 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035289.D	1	11/21/24 08:27	11/25/24 18:08	PB165150

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.22		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.41		30 - 150		101%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.43		30 - 150		106%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.21	*	55 - 111		51%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.26		53 - 106		65%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.87	*	58 - 132		216%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3340	7.315				
1146-65-2	Naphthalene-d8	8130	10.063				
15067-26-2	Acenaphthene-d10	4890	13.973				
1517-22-2	Phenanthrene-d10	10900	16.741				
1719-03-5	Chrysene-d12	706	21.006				
1520-96-3	Perylene-d12	5500	23.078				

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\BN112524\
 Data File : BN035289.D
 Acq On : 25 Nov 2024 18:08
 Operator : RC/JU
 Sample : P4934-07MSD
 Misc :
 ALS Vial : 65 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 BPOW6-10-20241119MSD

Manual Integrations
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Reviewed By :Yogesh Patel 11/27/2024
 Supervised By :mohammad ahmed 11/27/2024

Quant Time: Nov 26 03:31:38 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 26 02:36:08 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.315	152	3339	0.400	ng	0.00
7) Naphthalene-d8	10.063	136	8134	0.400	ng	# 0.00
13) Acenaphthene-d10	13.973	164	4891	0.400	ng	# 0.00
19) Phenanthrene-d10	16.741	188	10884	0.400	ng	# 0.00
29) Chrysene-d12	21.006	240	706	0.400	ng	# 0.00
35) Perylene-d12	23.078	264	5495	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.968	112	1508	0.239	ng	0.00
5) Phenol-d6	6.521	99	1353	0.154	ng	0.00
8) Nitrobenzene-d5	8.451	82	1352m	0.205	ng	0.00
11) 2-Methylnaphthalene-d10	11.663	152	4611	0.405	ng	0.00
14) 2,4,6-Tribromophenol	15.480	330	693	0.278	ng	0.00
15) 2-Fluorobiphenyl	12.604	172	705	0.261	ng	0.00
27) Fluoranthene-d10	18.790	212	12387	0.425	ng	0.00
31) Terphenyl-d14	19.422	244	11299	0.866	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.003	88	513	0.214	ng	98
3) n-Nitrosodimethylamine	3.300	42	342	0.137	ng	# 66
6) bis(2-Chloroethyl)ether	6.766	93	2896	0.390	ng	100
9) Naphthalene	10.105	128	7573	0.336	ng	99
10) Hexachlorobutadiene	10.404	225	1554	0.245	ng	# 100
12) 2-Methylnaphthalene	11.742	142	5217	0.353	ng	99
16) Acenaphthylene	13.684	152	8019	0.326	ng	99
17) Acenaphthene	14.037	154	5118	0.330	ng	# 88
18) Fluorene	15.031	166	7060	0.325	ng	98
20) 4,6-Dinitro-2-methylph...	15.127	198	326	0.396	ng	93
21) 4-Bromophenyl-phenylether	15.947	248	2609	0.378	ng	# 78
22) Hexachlorobenzene	16.046	284	2959	0.299	ng	100
23) Atrazine	16.232	200	1177	0.405	ng	100
24) Pentachlorophenol	16.393	266	881	0.371	ng	98
25) Phenanthrene	16.778	178	12541	0.375	ng	100
26) Anthracene	16.865	178	10829	0.377	ng	100
28) Fluoranthene	18.823	202	14601	0.346	ng	99
30) Pyrene	19.189	202	14755	0.575	ng	100
32) Benzo(a)anthracene	21.015	228	11175	0.455	ng	99
33) Chrysene	21.015	228	11175	0.455	ng	99
34) Bis(2-ethylhexyl)phtha...	21.006	149	746	0.552	ng	# 97
36) Indeno(1,2,3-cd)pyrene	25.122	276	9501	0.422	ng	99
37) Benzo(b)fluoranthene	22.464	252	8918	0.373	ng	99
38) Benzo(k)fluoranthene	22.505	252	9698	0.384	ng	97
39) Benzo(a)pyrene	22.988	252	7735	0.424	ng	97
40) Dibenzo(a,h)anthracene	25.140	278	7121	0.419	ng	97
41) Benzo(g,h,i)perylene	25.739	276	7906	0.402	ng	98

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

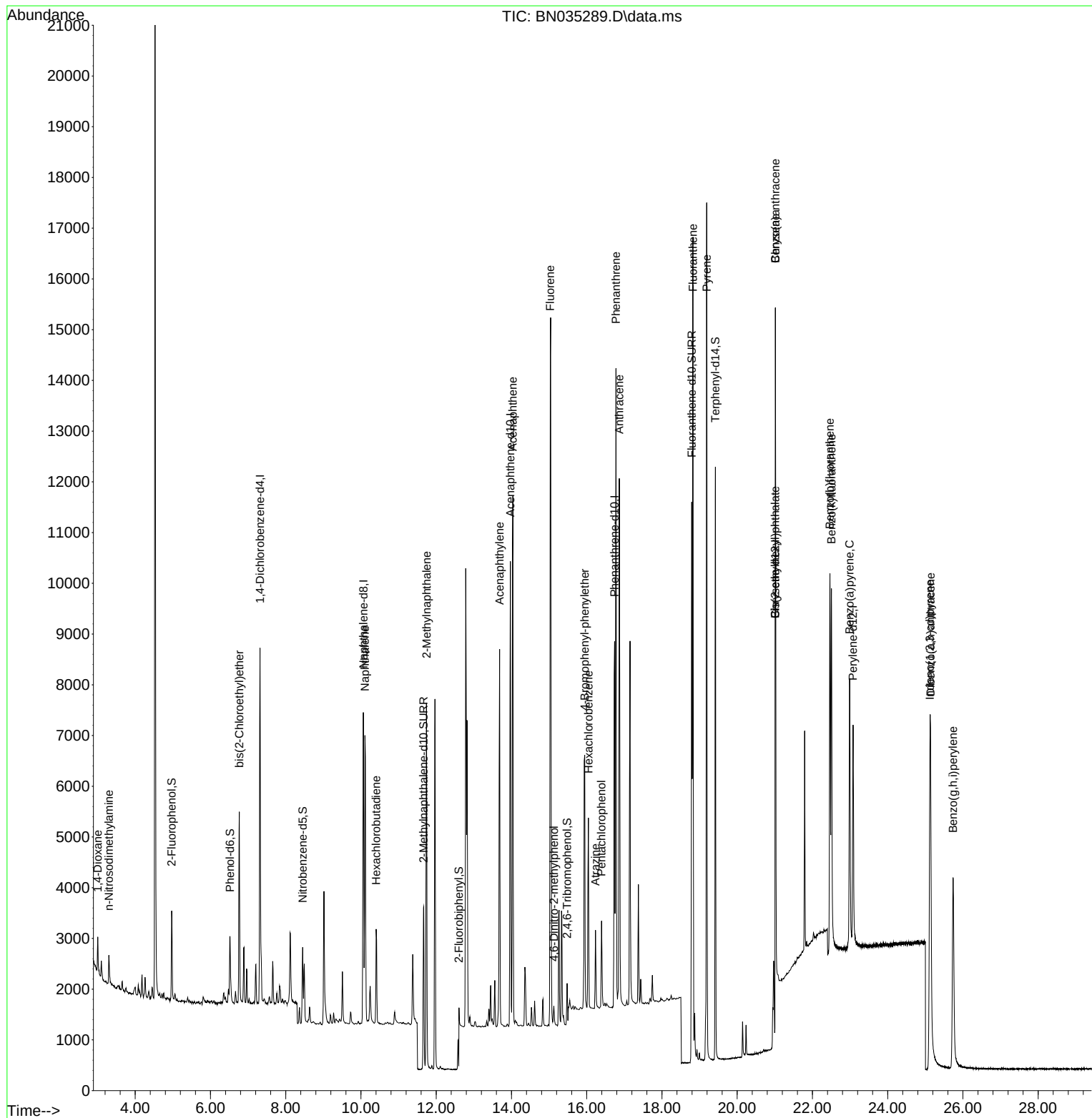
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Data File : BN035289.D
Acq On : 25 Nov 2024 18:08
Operator : RC/JU
Sample : P4934-07MSD
Misc :
ALS Vial : 65 Sample Multiplier: 1

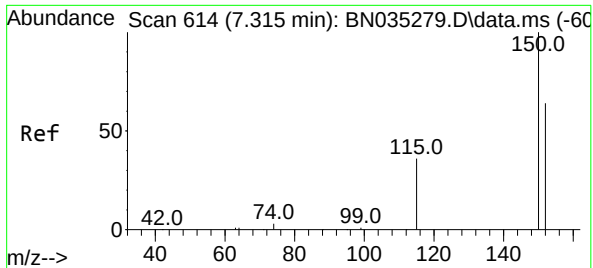
Instrument :
BNA_N
ClientSampleId :
BPOW6-10-20241119MSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024

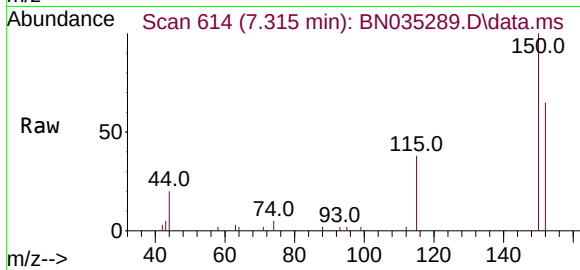
Quant Time: Nov 26 03:31:38 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 26 02:36:08 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.315 min Scan# 614
Delta R.T. 0.000 min
Lab File: BN035289.D
Acq: 25 Nov 2024 18:08

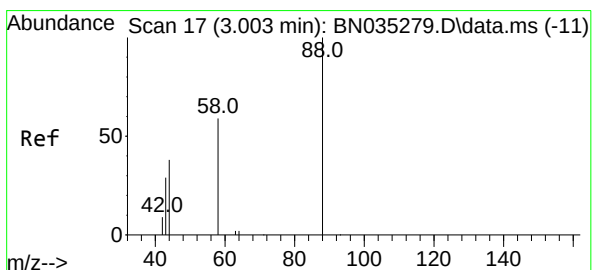
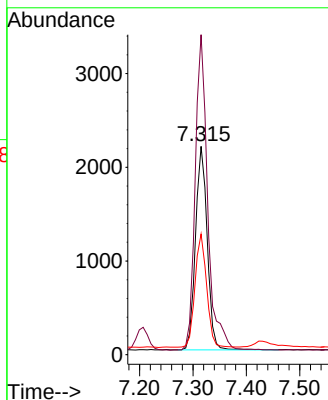
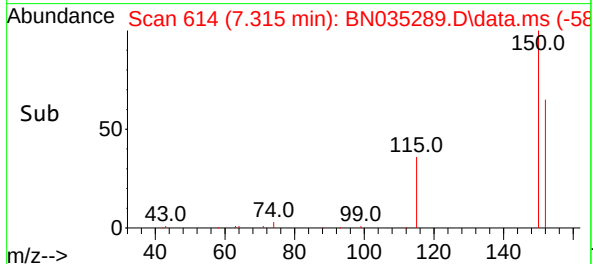
Instrument :
BNA_N
ClientSampleId :
BPOW6-10-20241119MSD



Tgt Ion: 152 Resp: 3339
Ion Ratio Lower Upper
152 100
150 153.6 124.5 186.7
115 57.9 47.8 71.8

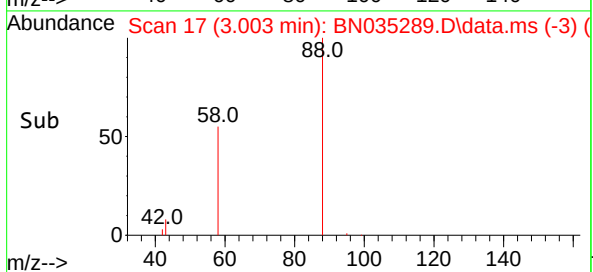
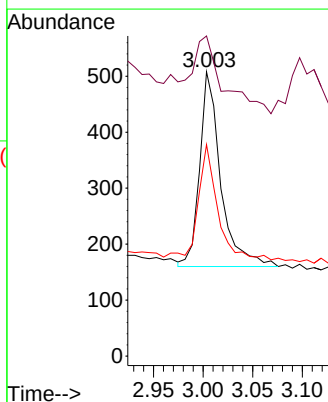
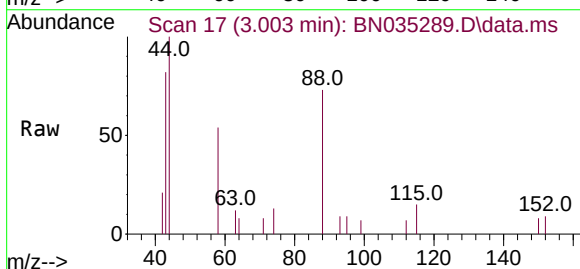
Manual Integrations
APPROVED

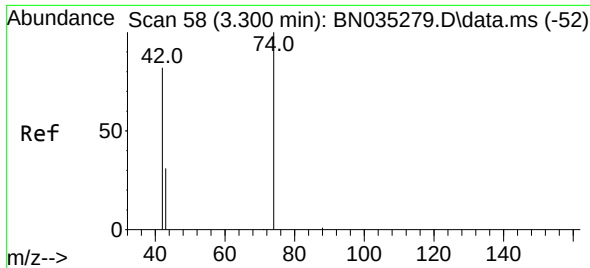
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#2
1,4-Dioxane
Concen: 0.214 ng
RT: 3.003 min Scan# 17
Delta R.T. 0.000 min
Lab File: BN035289.D
Acq: 25 Nov 2024 18:08

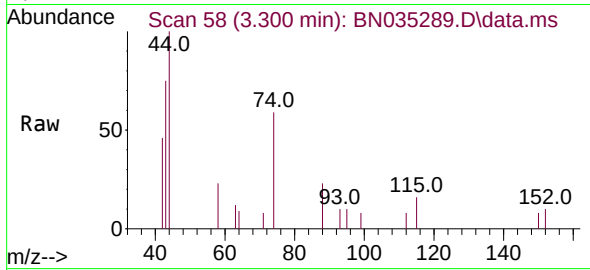
Tgt Ion: 88 Resp: 513
Ion Ratio Lower Upper
88 100
43 60.2 48.1 72.1
58 55.2 46.9 70.3





#3
n-Nitrosodimethylamine
Concen: 0.137 ng
RT: 3.300 min Scan# 58
Delta R.T. -0.000 min
Lab File: BN035289.D
Acq: 25 Nov 2024 18:08

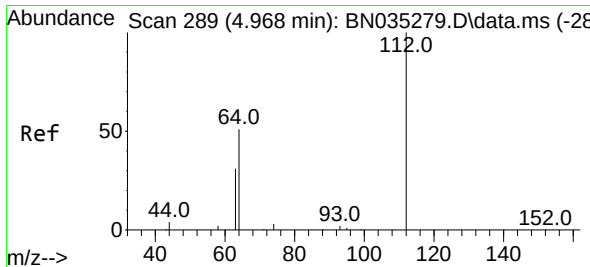
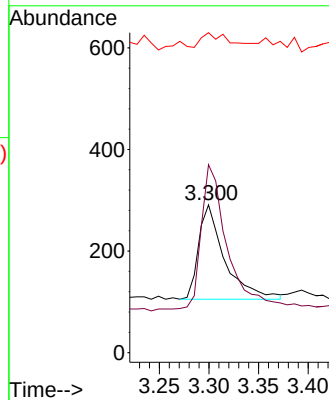
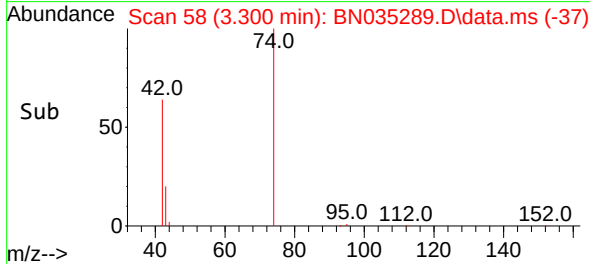
Instrument :
BNA_N
ClientSampleId :
BPOW6-10-20241119MSD



Tgt Ion: 42 Resp: 342
Ion Ratio Lower Upper
42 100
74 165.8 102.7 154.1
44 17.3 34.1 51.1

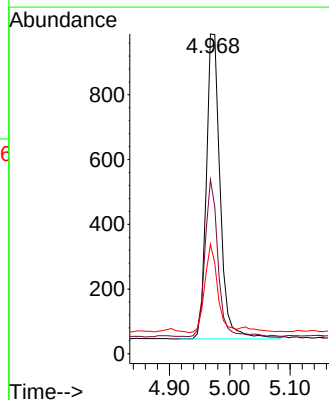
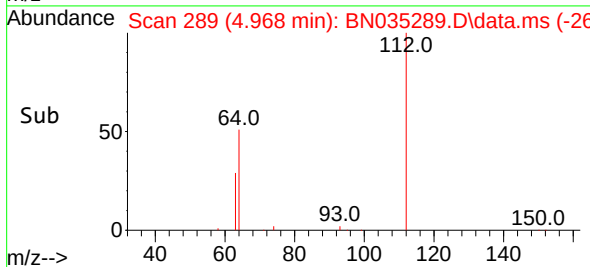
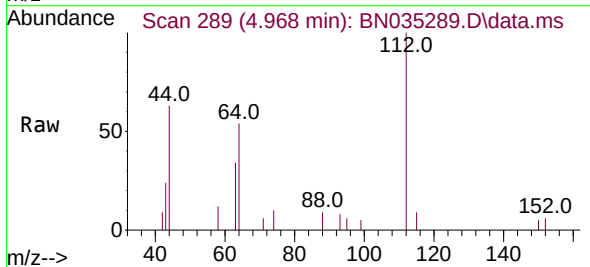
Manual Integrations
APPROVED

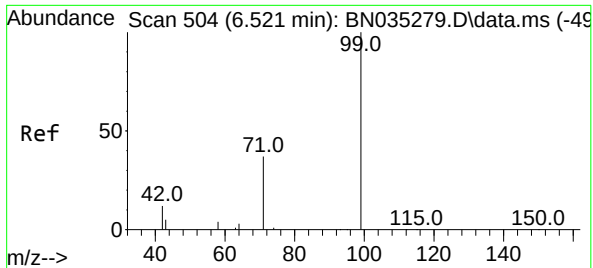
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#4
2-Fluorophenol
Concen: 0.239 ng
RT: 4.968 min Scan# 289
Delta R.T. 0.000 min
Lab File: BN035289.D
Acq: 25 Nov 2024 18:08

Tgt Ion:112 Resp: 1508
Ion Ratio Lower Upper
112 100
64 48.6 40.4 60.6
63 26.7 23.8 35.8





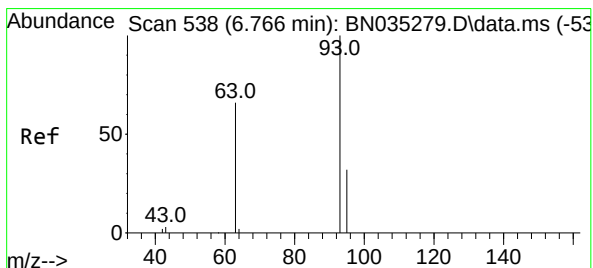
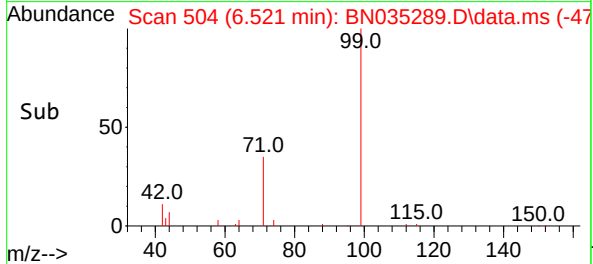
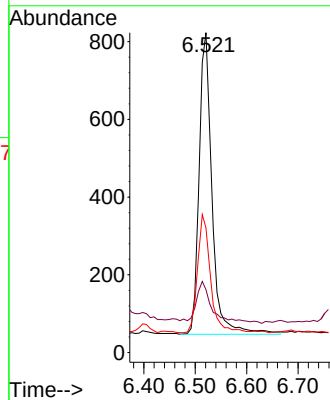
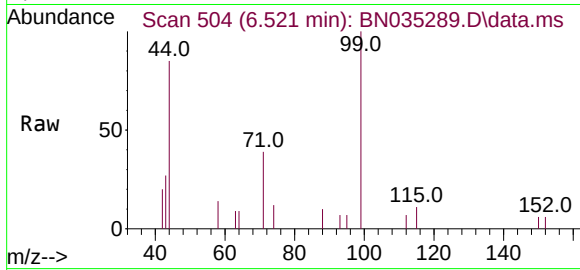
#5
Phenol-d6
Concen: 0.154 ng
RT: 6.521 min Scan# 504
Delta R.T. 0.000 min
Lab File: BN035289.D
Acq: 25 Nov 2024 18:08

Instrument :
BNA_N
ClientSampleId :
BPOW6-10-20241119MSD

Tgt Ion: 99 Resp: 135
Ion Ratio Lower Upper
99 100
42 16.9 12.8 19.2
71 39.3 31.4 47.2

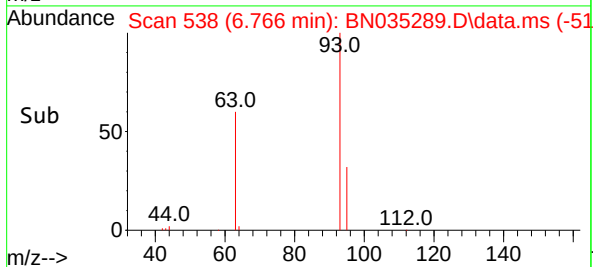
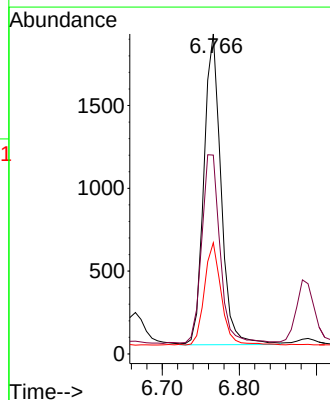
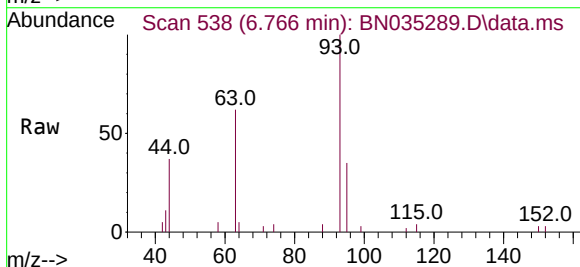
Manual Integrations
APPROVED

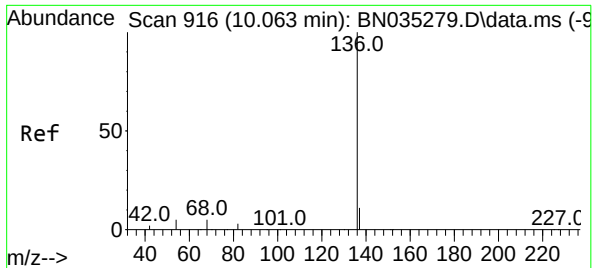
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.390 ng
RT: 6.766 min Scan# 538
Delta R.T. 0.000 min
Lab File: BN035289.D
Acq: 25 Nov 2024 18:08

Tgt Ion: 93 Resp: 2896
Ion Ratio Lower Upper
93 100
63 64.9 52.3 78.5
95 32.0 25.5 38.3





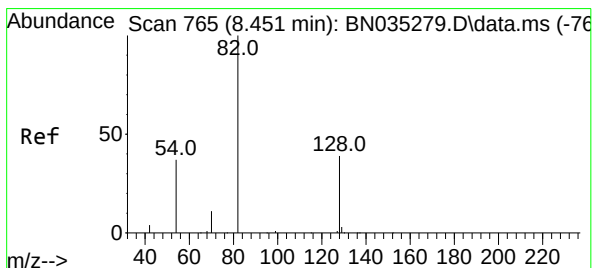
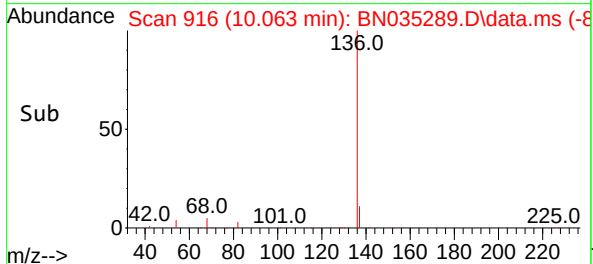
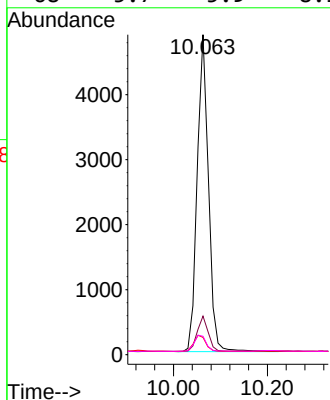
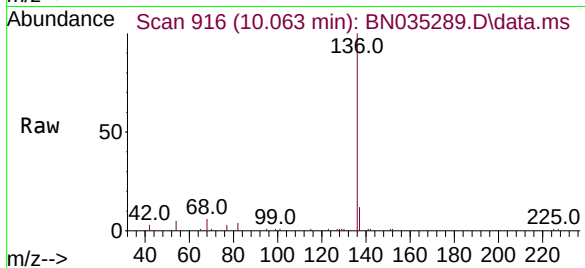
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.063 min Scan# 916
Delta R.T. 0.000 min
Lab File: BN035289.D
Acq: 25 Nov 2024 18:08

Instrument :
BNA_N
ClientSampleId :
BPOW6-10-20241119MSD

Tgt Ion:	136	Resp:	8134
Ion Ratio	Lower	Upper	
136	100		
137	12.0	9.7	14.5
54	5.4	5.3	7.9
68	5.7	5.9	8.9

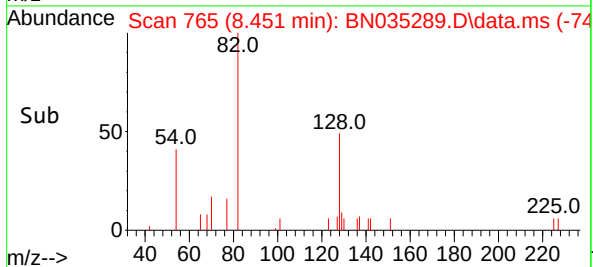
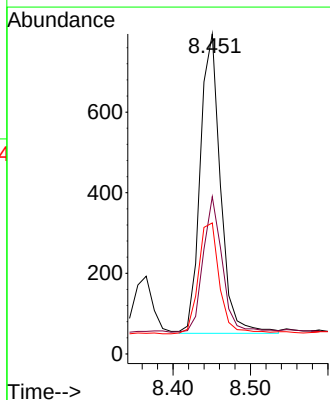
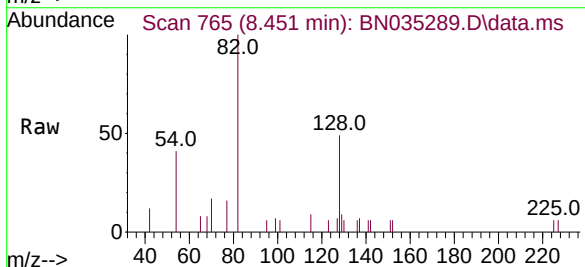
Manual Integrations
APPROVED

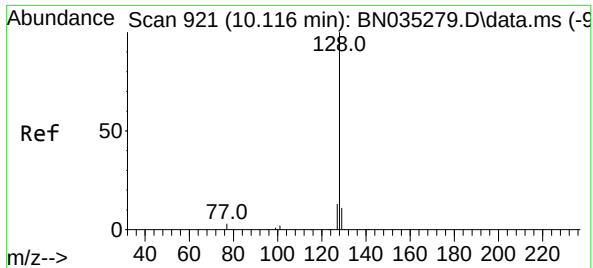
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#8
Nitrobenzene-d5
Concen: 0.205 ng m
RT: 8.451 min Scan# 765
Delta R.T. 0.000 min
Lab File: BN035289.D
Acq: 25 Nov 2024 18:08

Tgt Ion:	82	Resp:	1352
Ion Ratio	Lower	Upper	
82	100		
128	49.1	33.0	49.4
54	40.9	33.3	49.9





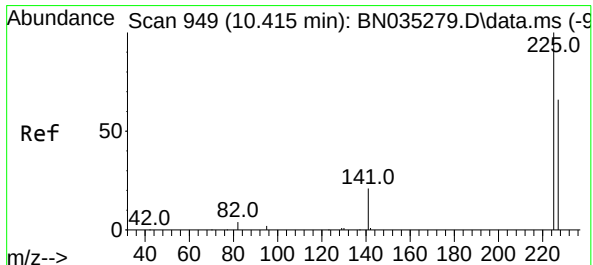
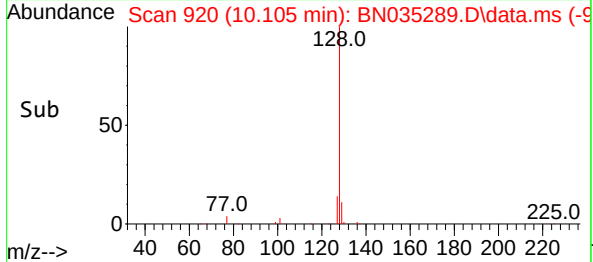
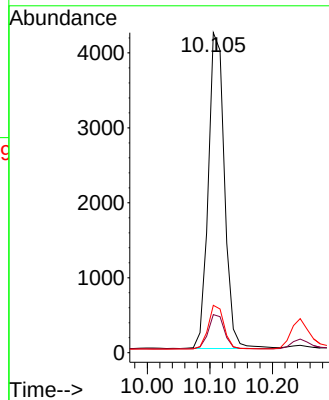
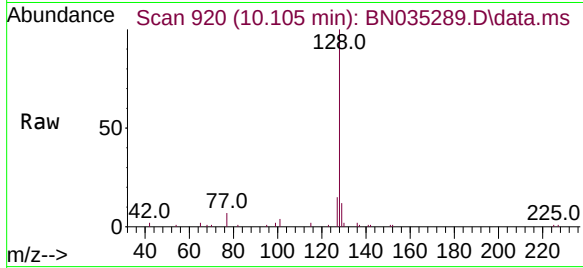
#9
Naphthalene
Concen: 0.336 ng
RT: 10.105 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035289.D
Acq: 25 Nov 2024 18:08

Instrument :
BNA_N
ClientSampleId :
BPOW6-10-20241119MSD

Tgt Ion:128 Resp: 757
Ion Ratio Lower Upper
128 100
129 11.9 9.6 14.4
127 14.8 11.3 16.9

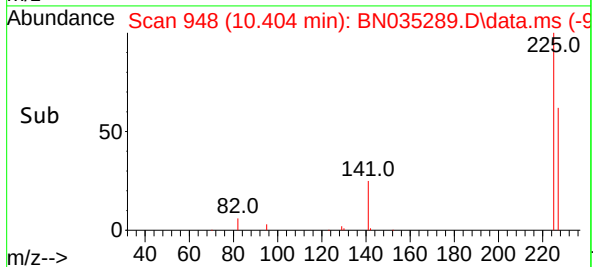
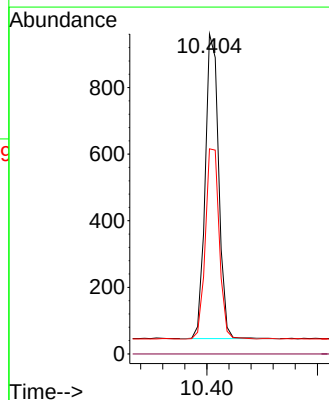
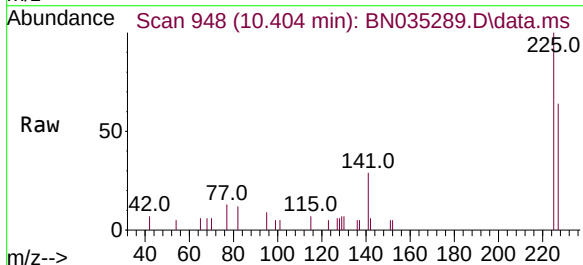
Manual Integrations
APPROVED

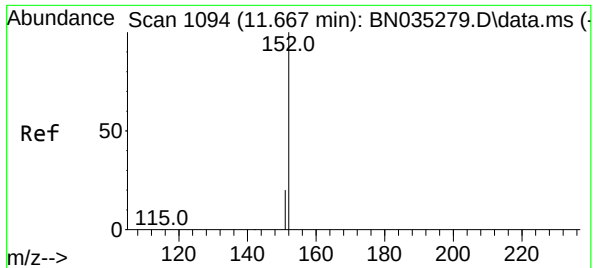
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#10
Hexachlorobutadiene
Concen: 0.245 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.011 min
Lab File: BN035289.D
Acq: 25 Nov 2024 18:08

Tgt Ion:225 Resp: 1554
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.4 51.3 76.9





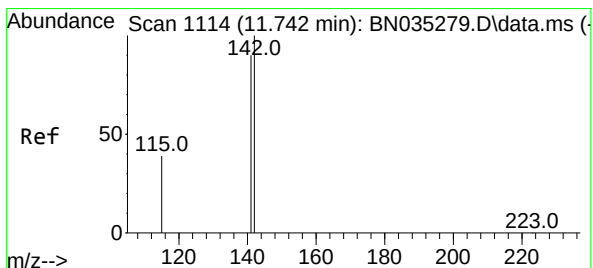
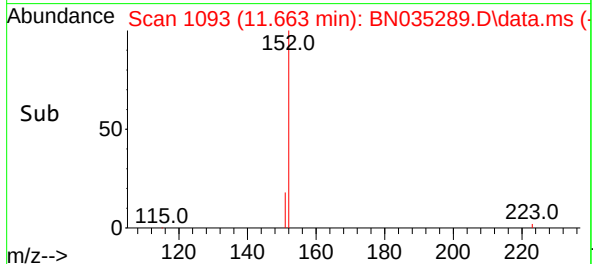
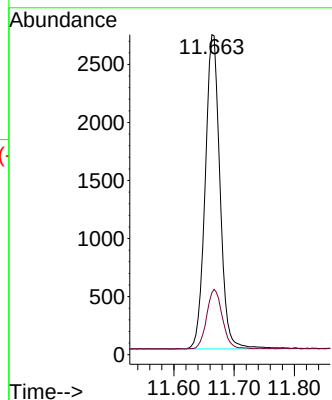
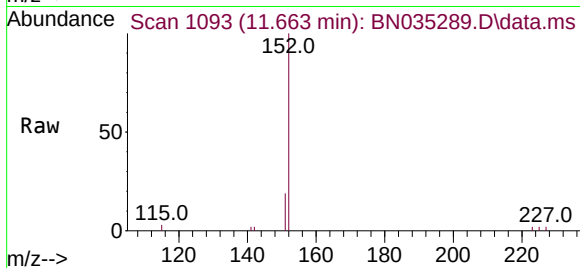
#11
2-Methylnaphthalene-d10
Concen: 0.405 ng
RT: 11.663 min Scan# 1094
Delta R.T. -0.004 min
Lab File: BN035289.D
Acq: 25 Nov 2024 18:08

Instrument :
BNA_N
ClientSampleId :
BPOW6-10-20241119MSD

Tgt Ion:152 Resp: 461
Ion Ratio Lower Upper
152 100
151 20.0 17.2 25.8

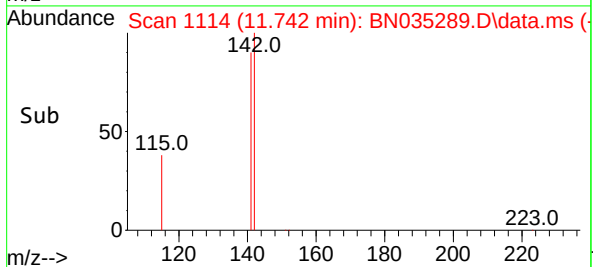
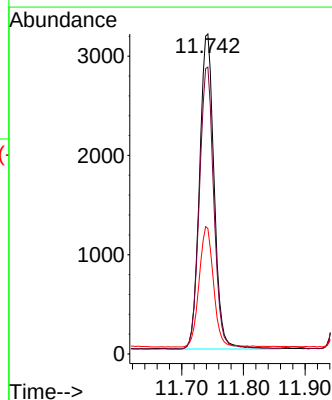
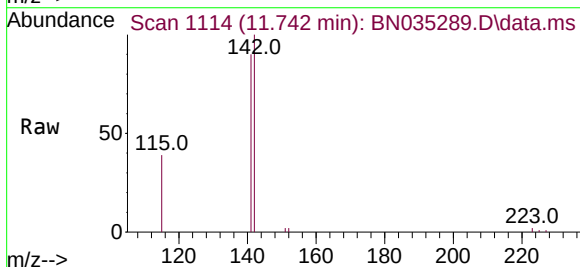
Manual Integrations
APPROVED

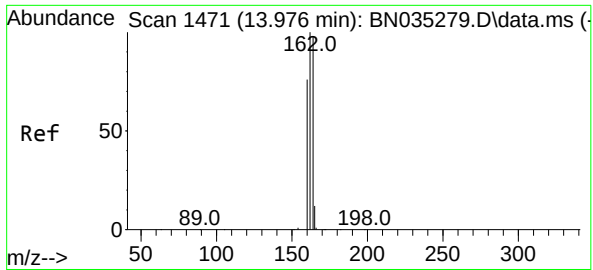
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#12
2-Methylnaphthalene
Concen: 0.353 ng
RT: 11.742 min Scan# 1114
Delta R.T. 0.000 min
Lab File: BN035289.D
Acq: 25 Nov 2024 18:08

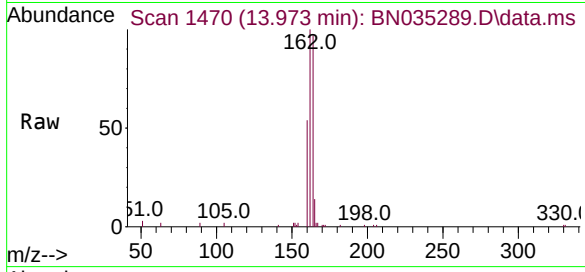
Tgt Ion:142 Resp: 5217
Ion Ratio Lower Upper
142 100
141 89.7 71.8 107.8
115 39.2 32.6 49.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.973 min Scan# 1470
Delta R.T. -0.004 min
Lab File: BN035289.D
Acq: 25 Nov 2024 18:08

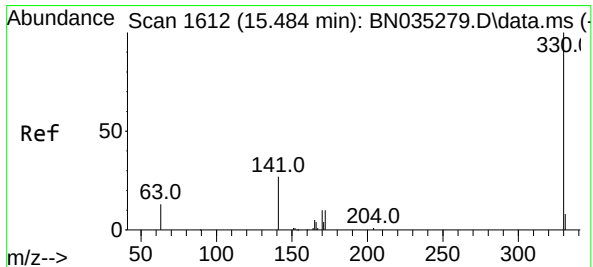
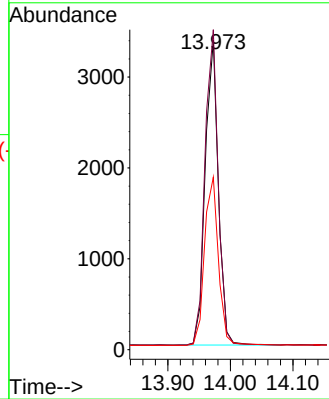
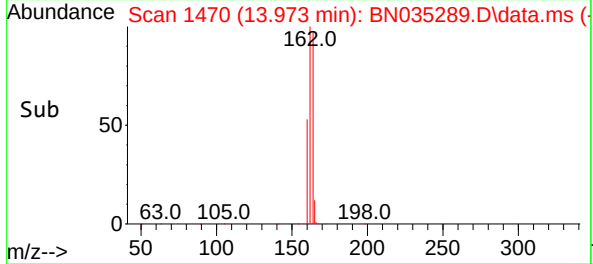
Instrument :
BNA_N
ClientSampleId :
BPOW6-10-20241119MSD



Tgt Ion:164 Resp: 489
Ion Ratio Lower Upper
164 100
162 103.5 82.0 123.0
160 55.8 63.0 94.4

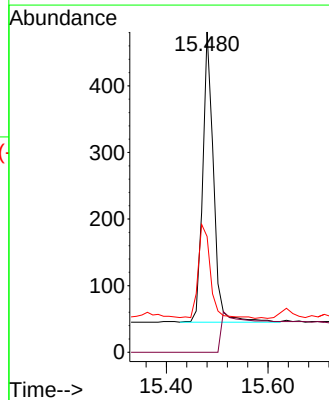
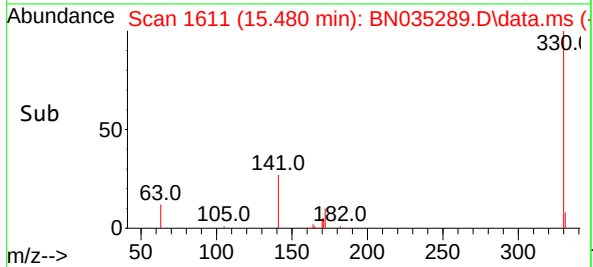
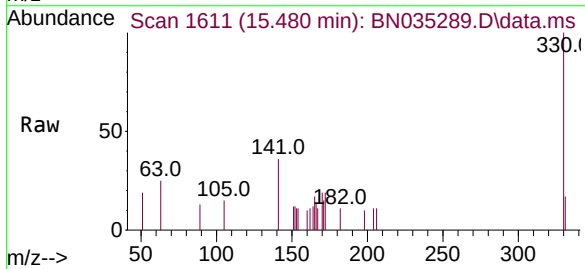
Manual Integrations
APPROVED

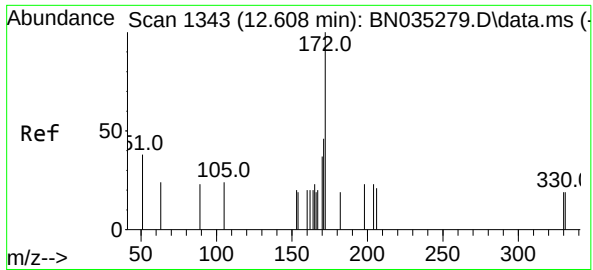
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#14
2,4,6-Tribromophenol
Concen: 0.278 ng
RT: 15.480 min Scan# 1611
Delta R.T. -0.004 min
Lab File: BN035289.D
Acq: 25 Nov 2024 18:08

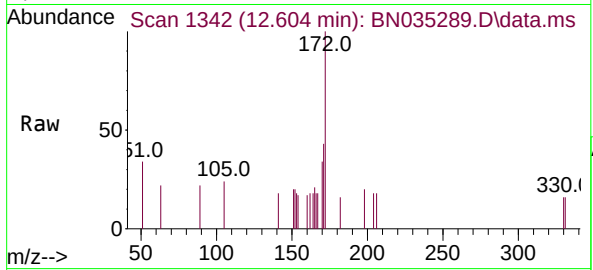
Tgt Ion:330 Resp: 693
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 36.4 32.4 48.6





#15
2-Fluorobiphenyl
Concen: 0.261 ng
RT: 12.604 min Scan# 11
Delta R.T. -0.004 min
Lab File: BN035289.D
Acq: 25 Nov 2024 18:08

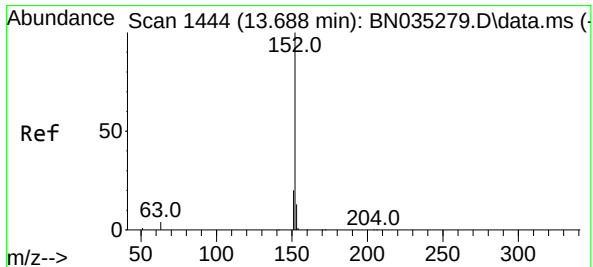
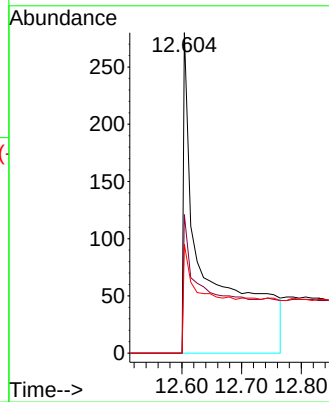
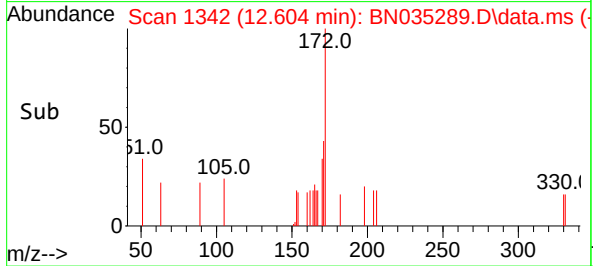
Instrument :
BNA_N
ClientSampleId :
BPOW6-10-20241119MSD



Tgt Ion:172 Resp: 709
Ion Ratio Lower Upper
172 100
171 43.2 36.6 55.0
170 33.9 29.7 44.5

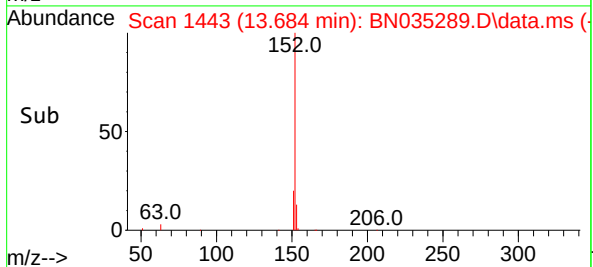
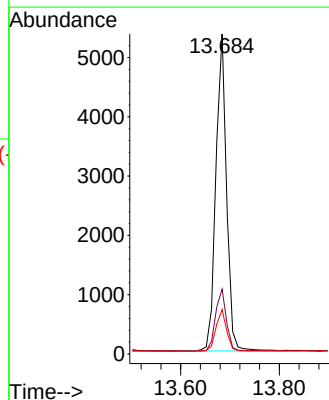
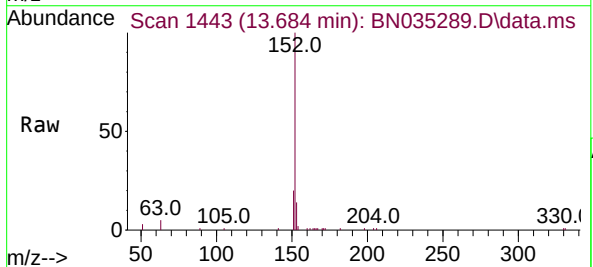
Manual Integrations
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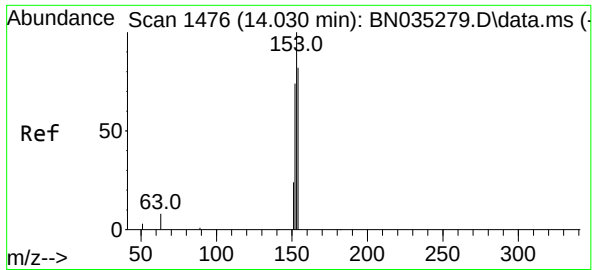
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#16
Acenaphthylene
Concen: 0.326 ng
RT: 13.684 min Scan# 1443
Delta R.T. -0.004 min
Lab File: BN035289.D
Acq: 25 Nov 2024 18:08

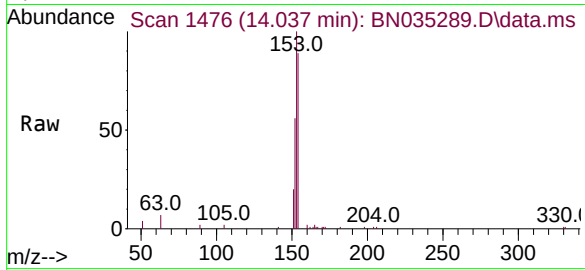
Tgt Ion:152 Resp: 8019
Ion Ratio Lower Upper
152 100
151 20.2 15.9 23.9
153 13.2 10.2 15.4





#17
Acenaphthene
Concen: 0.330 ng
RT: 14.037 min Scan# 1476
Delta R.T. 0.007 min
Lab File: BN035289.D
Acq: 25 Nov 2024 18:08

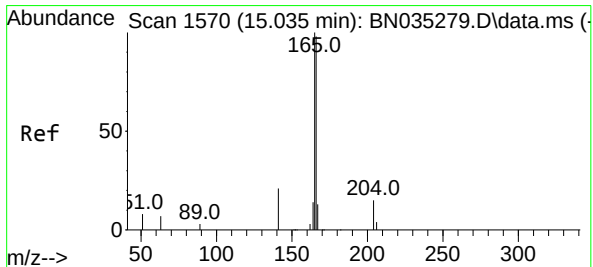
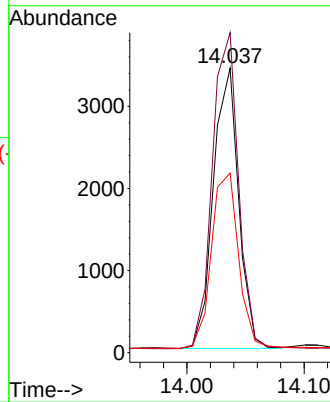
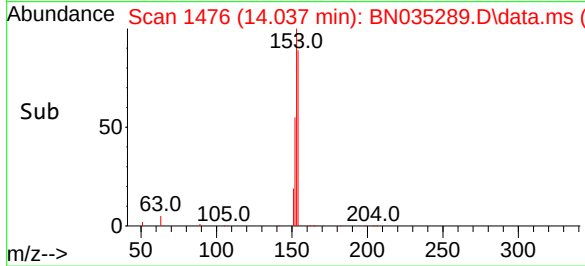
Instrument :
BNA_N
ClientSampleId :
BPOW6-10-20241119MSD



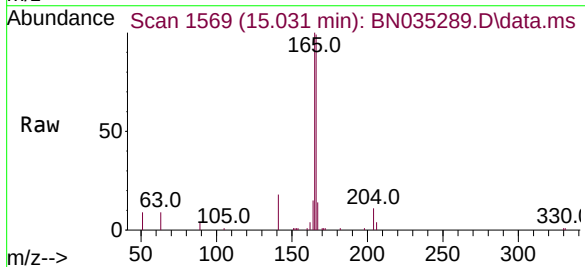
Tgt Ion:154 Resp: 5118
Ion Ratio Lower Upper
154 100
153 117.1 96.1 144.1
152 67.3 72.2 108.2

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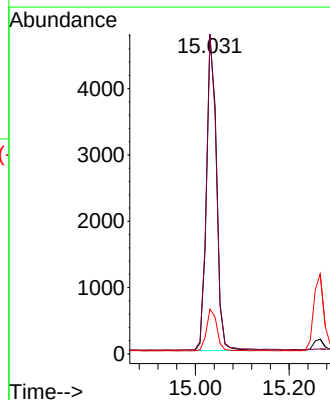
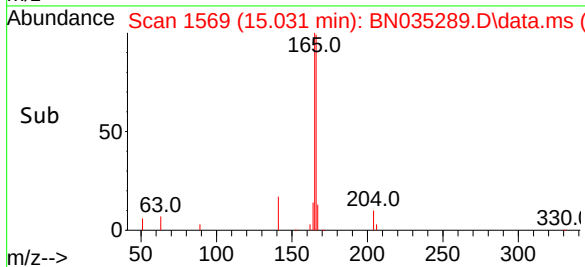
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024

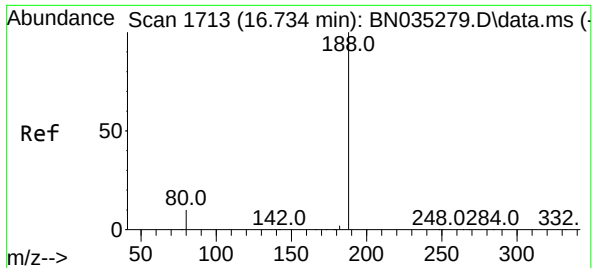


#18
Fluorene
Concen: 0.325 ng
RT: 15.031 min Scan# 1569
Delta R.T. -0.004 min
Lab File: BN035289.D
Acq: 25 Nov 2024 18:08



Tgt Ion:166 Resp: 7060
Ion Ratio Lower Upper
166 100
165 99.4 81.2 121.8
167 13.5 10.5 15.7





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.741 min Scan# 11

Delta R.T. 0.007 min

Lab File: BN035289.D

Acq: 25 Nov 2024 18:08

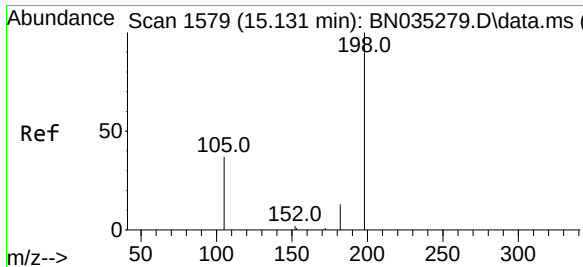
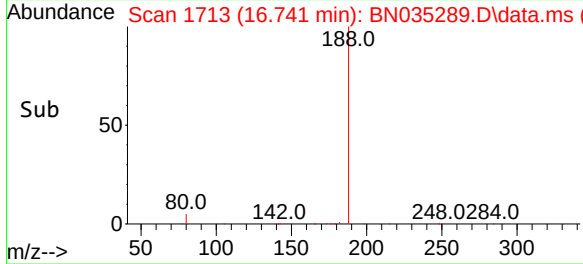
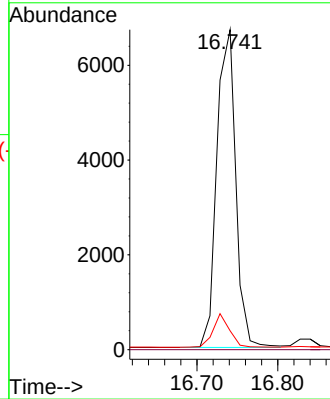
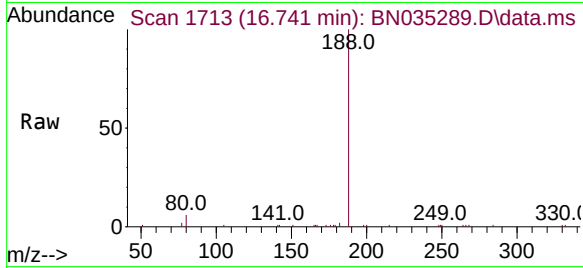
Instrument :

BNA_N

ClientSampleId :

BPOW6-10-20241119MSD

Tgt Ion:188	Resp:	1088
Ion Ratio	Lower	Upper
188	100	
94	0.0	0.0
80	5.9	13.3

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Supervised By :mohammad ahmed 11/27/2024

#20

4,6-Dinitro-2-methylphenol

Concen: 0.396 ng

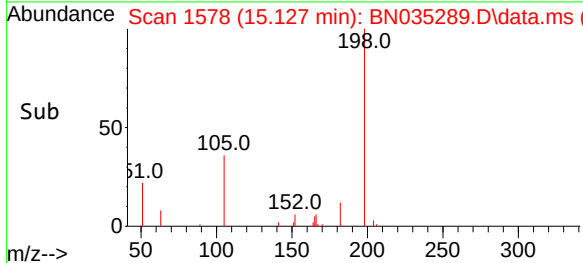
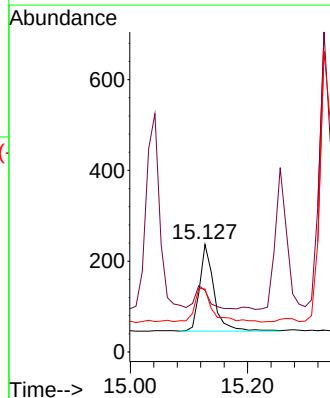
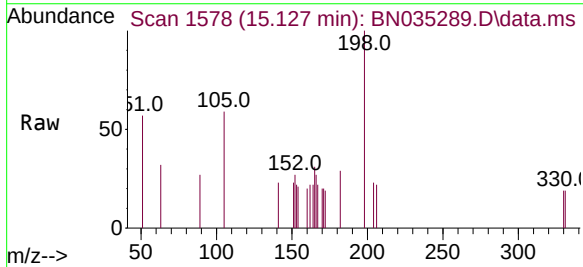
RT: 15.127 min Scan# 1578

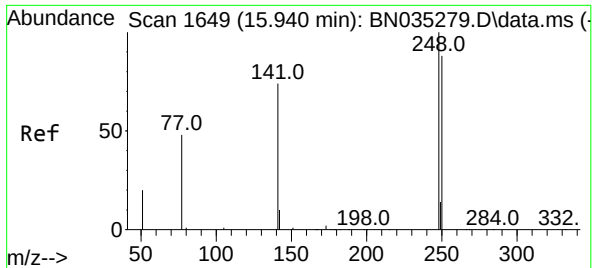
Delta R.T. -0.004 min

Lab File: BN035289.D

Acq: 25 Nov 2024 18:08

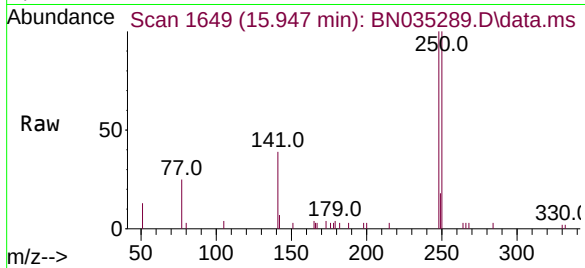
Tgt Ion:198	Resp:	326
Ion Ratio	Lower	Upper
198	100	
51	57.4	53.6
105	58.6	47.4





#21
4-Bromophenyl-phenylether
Concen: 0.378 ng
RT: 15.947 min Scan# 1649
Delta R.T. 0.007 min
Lab File: BN035289.D
Acq: 25 Nov 2024 18:08

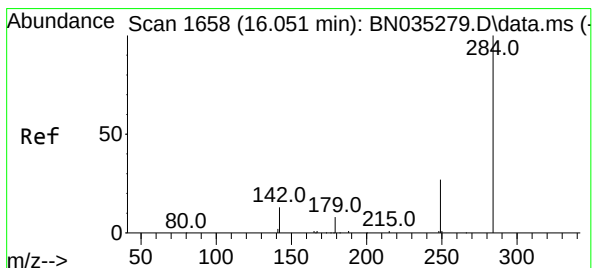
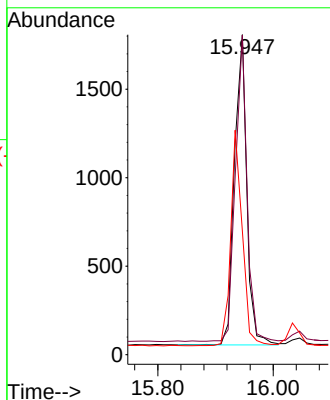
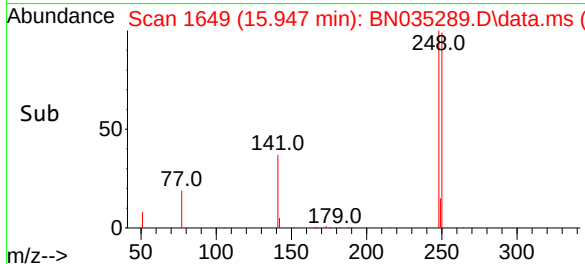
Instrument :
BNA_N
ClientSampleId :
BPOW6-10-20241119MSD



Tgt Ion:248 Resp: 2609
Ion Ratio Lower Upper
248 100
250 99.8 74.8 112.2
141 38.7 59.0 88.4

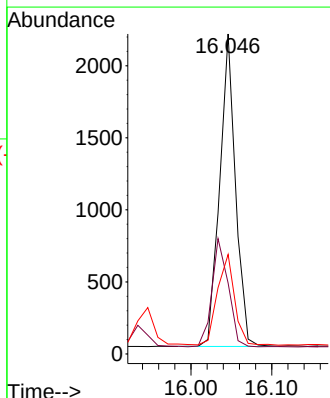
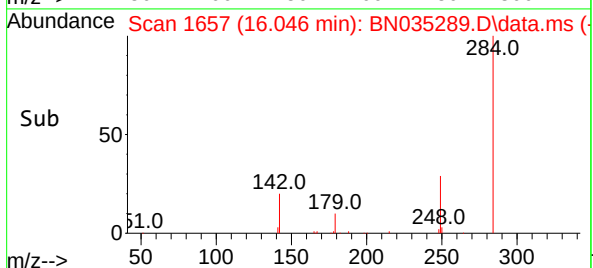
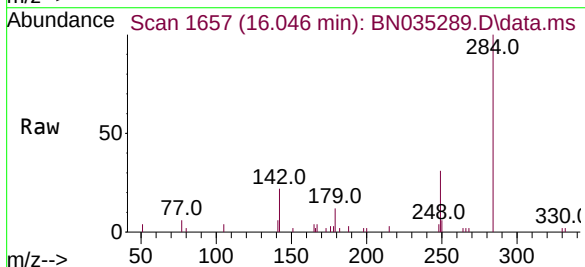
Manual Integrations
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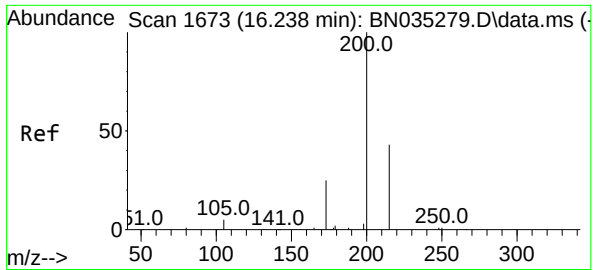
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#22
Hexachlorobenzene
Concen: 0.299 ng
RT: 16.046 min Scan# 1657
Delta R.T. -0.005 min
Lab File: BN035289.D
Acq: 25 Nov 2024 18:08

Tgt Ion:284 Resp: 2959
Ion Ratio Lower Upper
284 100
142 35.8 28.7 43.1
249 31.3 25.4 38.0





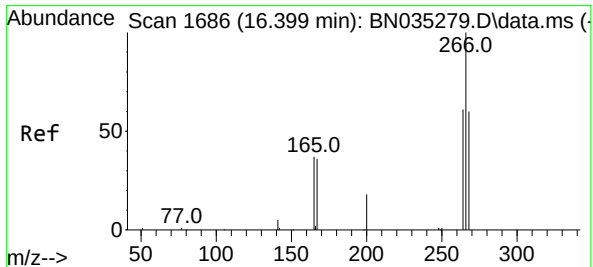
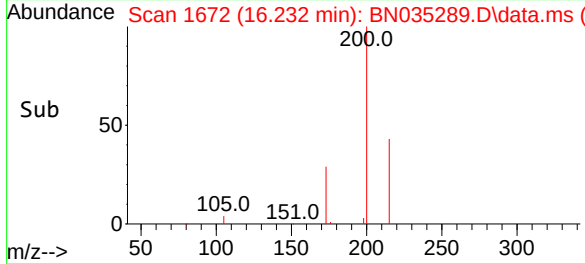
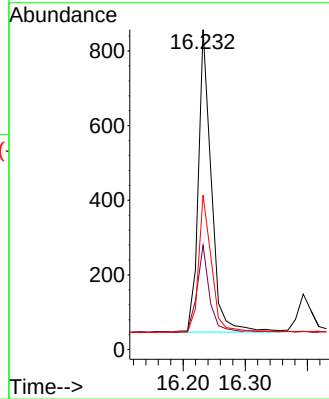
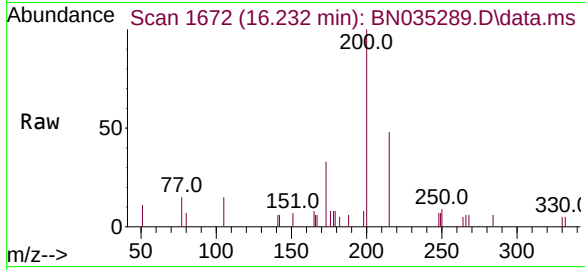
#23
Atrazine
Concen: 0.405 ng
RT: 16.232 min Scan# 1672
Delta R.T. -0.005 min
Lab File: BN035289.D
Acq: 25 Nov 2024 18:08

Instrument :
BNA_N
ClientSampleId :
BPOW6-10-20241119MSD

Tgt Ion:200 Resp: 117
Ion Ratio Lower Upper
200 100
173 32.6 25.8 38.8
215 48.3 38.6 58.0

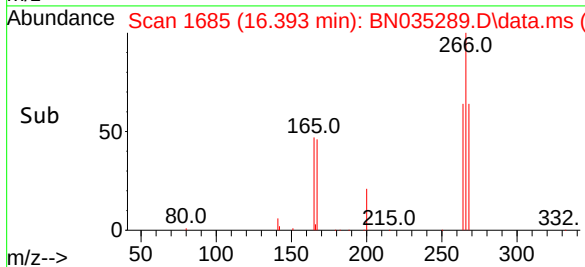
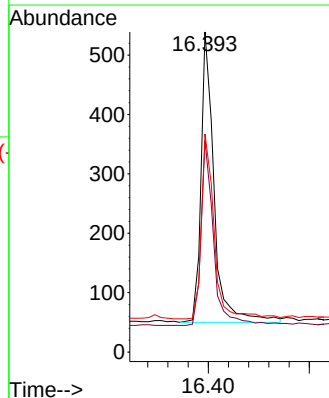
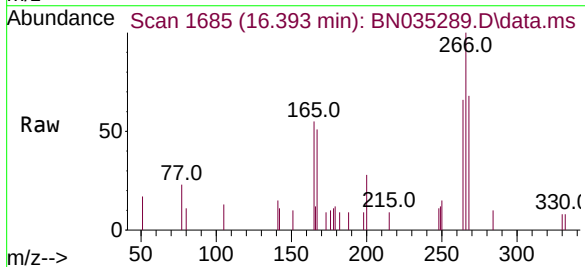
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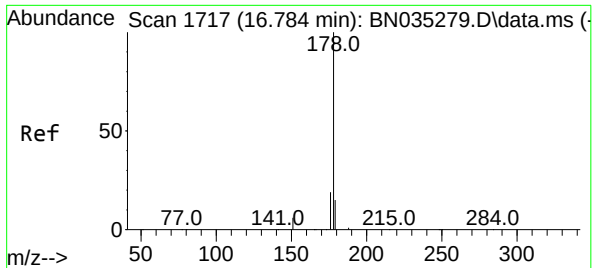
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#24
Pentachlorophenol
Concen: 0.371 ng
RT: 16.393 min Scan# 1685
Delta R.T. -0.006 min
Lab File: BN035289.D
Acq: 25 Nov 2024 18:08

Tgt Ion:266 Resp: 881
Ion Ratio Lower Upper
266 100
264 61.1 49.3 73.9
268 62.9 48.6 73.0





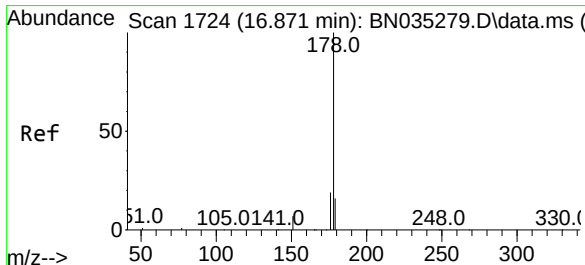
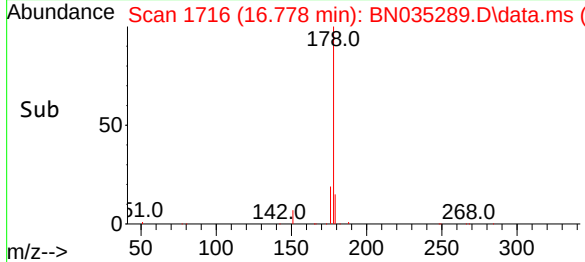
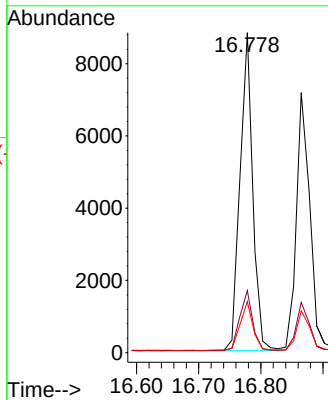
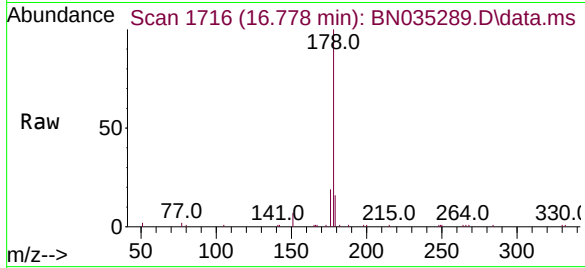
#25
Phenanthrene
Concen: 0.375 ng
RT: 16.778 min Scan# 1716
Delta R.T. -0.005 min
Lab File: BN035289.D
Acq: 25 Nov 2024 18:08

Instrument :
BNA_N
ClientSampleId :
BPOW6-10-20241119MSD

Tgt Ion:178 Resp: 1254
Ion Ratio Lower Upper
178 100
176 19.2 15.4 23.0
179 15.6 12.6 18.8

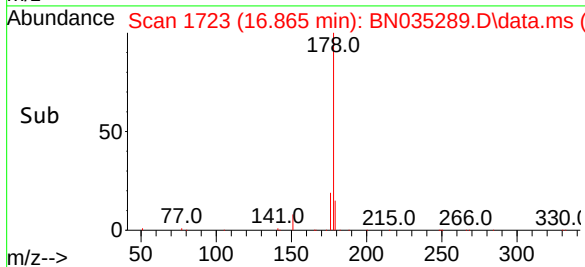
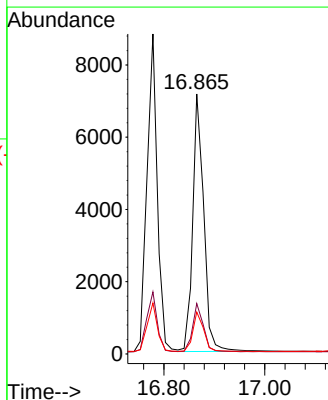
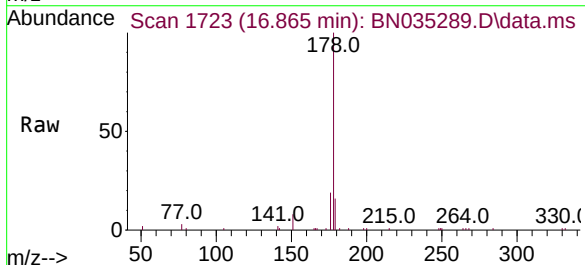
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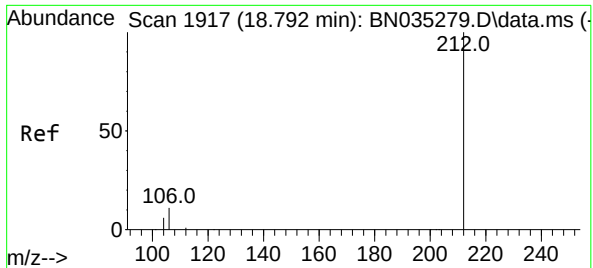
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#26
Anthracene
Concen: 0.377 ng
RT: 16.865 min Scan# 1723
Delta R.T. -0.005 min
Lab File: BN035289.D
Acq: 25 Nov 2024 18:08

Tgt Ion:178 Resp: 10829
Ion Ratio Lower Upper
178 100
176 18.6 15.0 22.4
179 15.4 12.4 18.6





#27

Fluoranthene-d10

Concen: 0.425 ng

RT: 18.790 min Scan# 1915

Delta R.T. -0.002 min

Lab File: BN035289.D

Acq: 25 Nov 2024 18:08

Instrument :

BNA_N

ClientSampleId :

BPOW6-10-20241119MSD

Tgt Ion:212 Resp: 1238

Ion Ratio Lower Upper

212 100

106 11.5 9.8 14.8

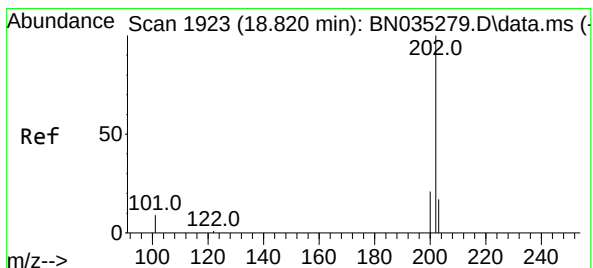
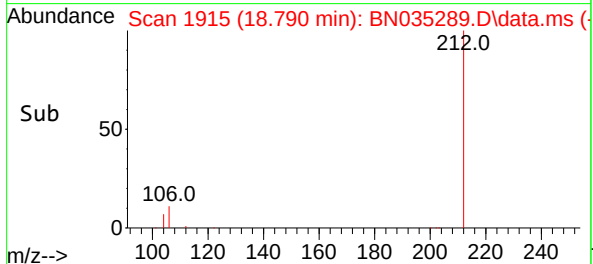
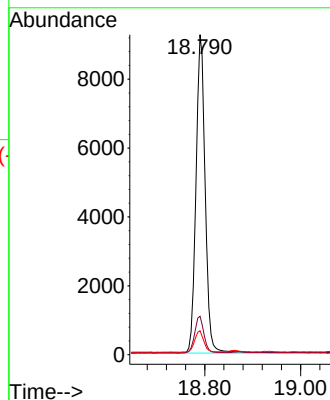
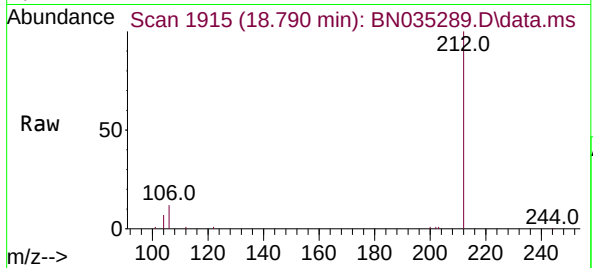
104 6.7 5.6 8.4

Manual Integrations

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Reviewed By :Yogesh Patel 11/27/2024

Supervised By :mohammad ahmed 11/27/2024



#28

Fluoranthene

Concen: 0.346 ng

RT: 18.823 min Scan# 1922

Delta R.T. 0.003 min

Lab File: BN035289.D

Acq: 25 Nov 2024 18:08

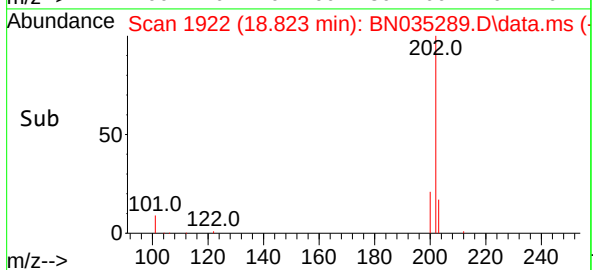
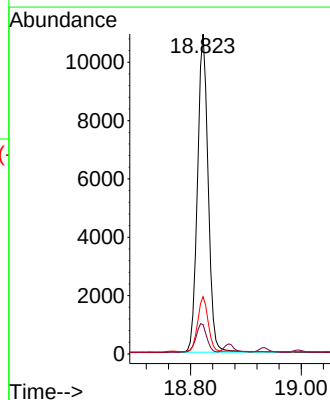
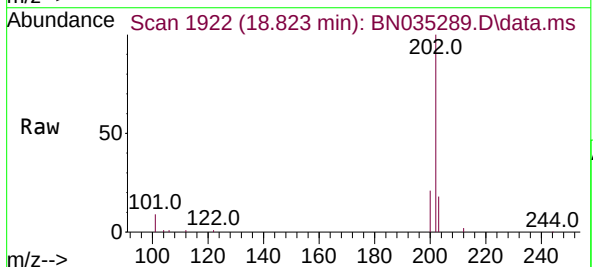
Tgt Ion:202 Resp: 14601

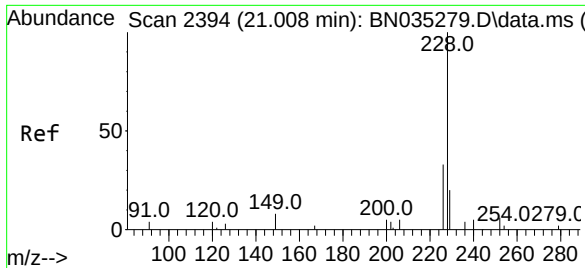
Ion Ratio Lower Upper

202 100

101 9.4 7.6 11.4

203 16.8 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.006 min Scan# 21

Delta R.T. -0.002 min

Lab File: BN035289.D

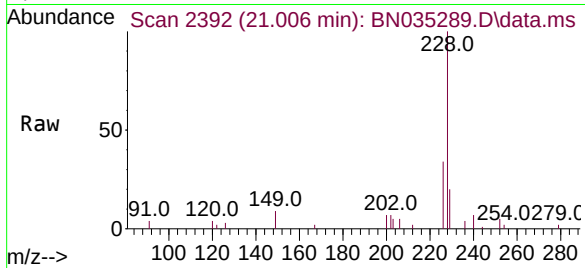
Acq: 25 Nov 2024 18:08

Instrument :

BNA_N

ClientSampleId :

BPOW6-10-20241119MSD



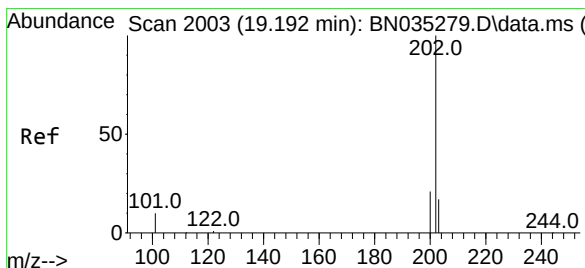
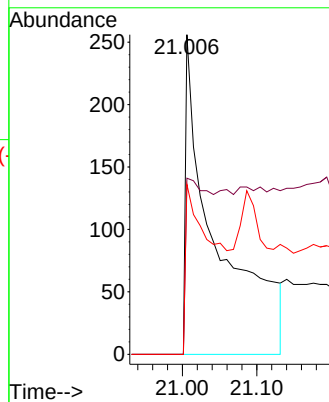
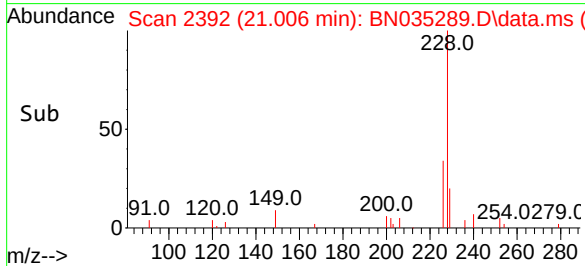
Tgt Ion	Ratio	Lower	Upper
240	100		
120	55.1	54.9	82.3
236	53.1	54.0	81.0

Manual Integrations

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Reviewed By :Yogesh Patel 11/27/2024

Supervised By :mohammad ahmed 11/27/2024



#30

Pyrene

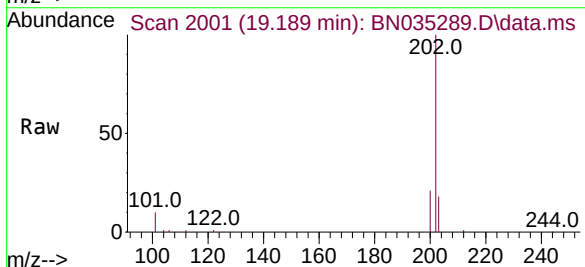
Concen: 0.575 ng

RT: 19.189 min Scan# 2001

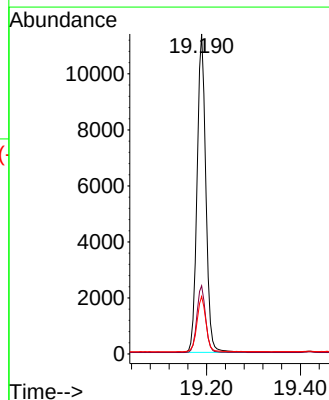
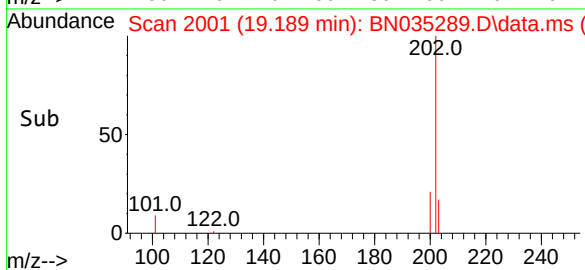
Delta R.T. -0.003 min

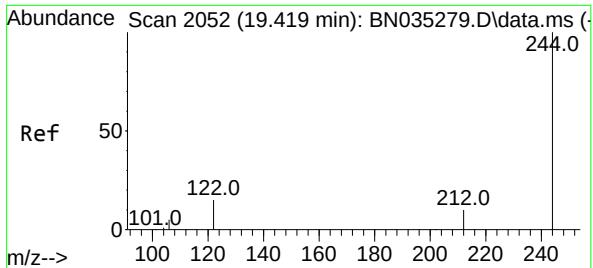
Lab File: BN035289.D

Acq: 25 Nov 2024 18:08



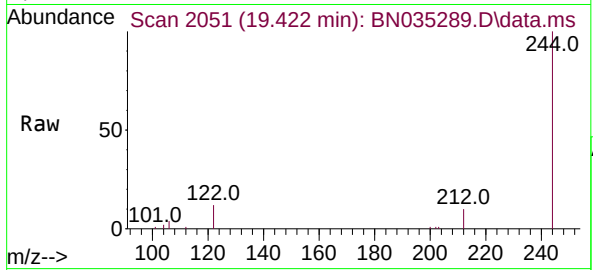
Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.8	25.2
203	17.7	14.4	21.6





#31
Terphenyl-d14
Concen: 0.866 ng
RT: 19.422 min Scan# 2051
Delta R.T. 0.003 min
Lab File: BN035289.D
Acq: 25 Nov 2024 18:08

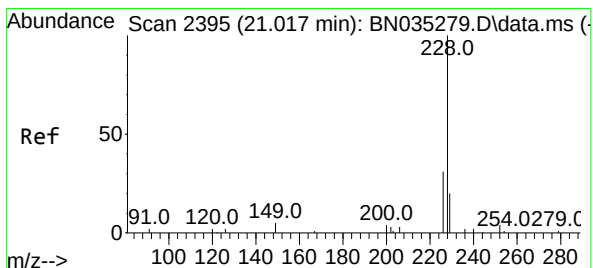
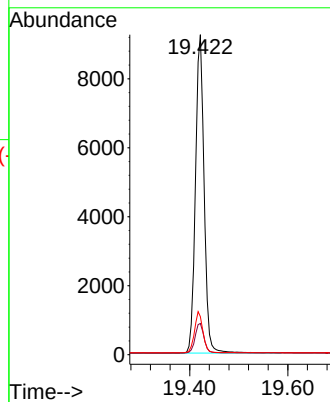
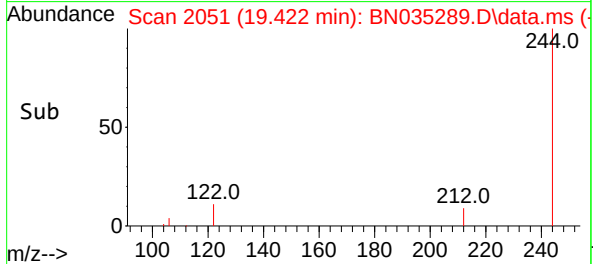
Instrument :
BNA_N
ClientSampleId :
BPOW6-10-20241119MSD



Tgt Ion:244 Resp: 11295
Ion Ratio Lower Upper
244 100
212 9.8 9.4 14.0
122 11.9 13.0 19.4

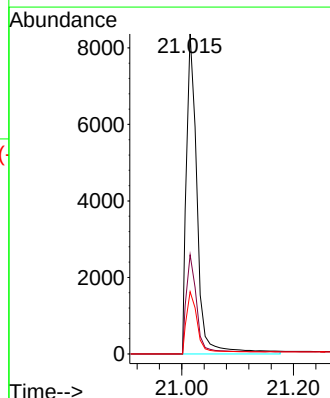
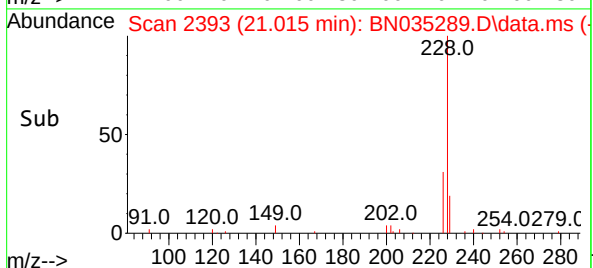
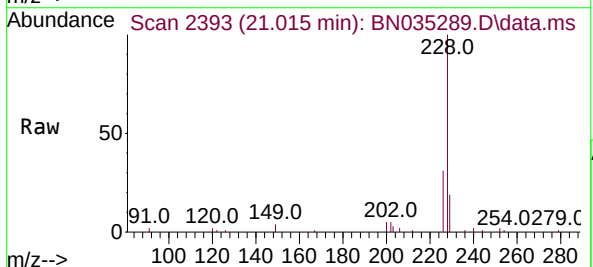
Manual Integrations
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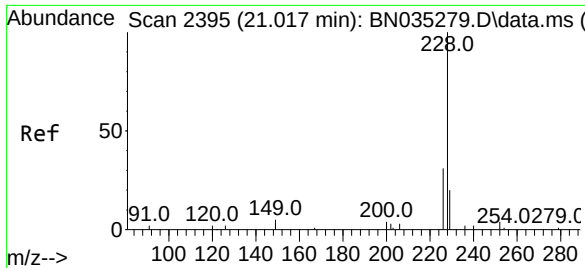
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#32
Benzo(a)anthracene
Concen: 0.455 ng
RT: 21.015 min Scan# 2393
Delta R.T. -0.002 min
Lab File: BN035289.D
Acq: 25 Nov 2024 18:08

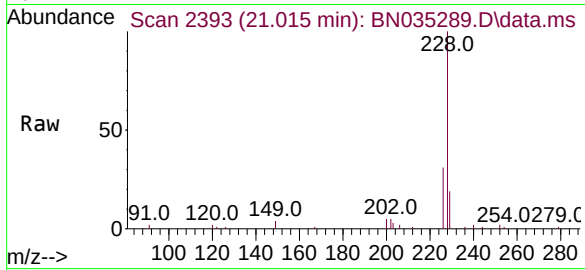
Tgt Ion:228 Resp: 11175
Ion Ratio Lower Upper
228 100
226 31.0 24.7 37.1
229 19.4 16.2 24.2





#33
Chrysene
Concen: 0.455 ng
RT: 21.015 min Scan# 2117
Delta R.T. -0.002 min
Lab File: BN035289.D
Acq: 25 Nov 2024 18:08

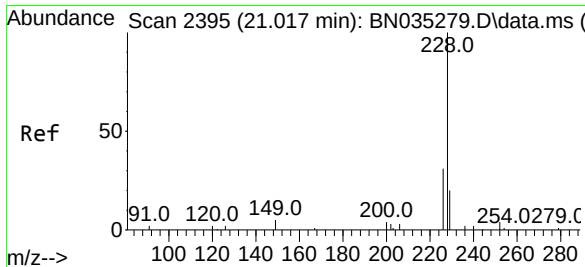
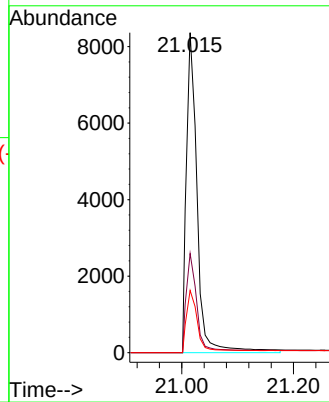
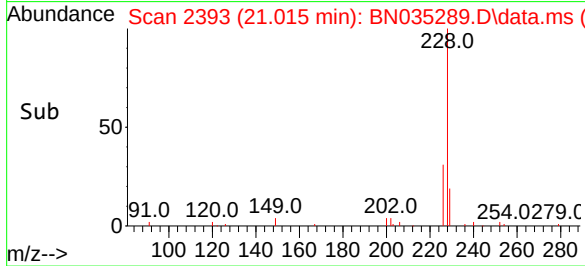
Instrument :
BNA_N
ClientSampleId :
BPOW6-10-20241119MSD



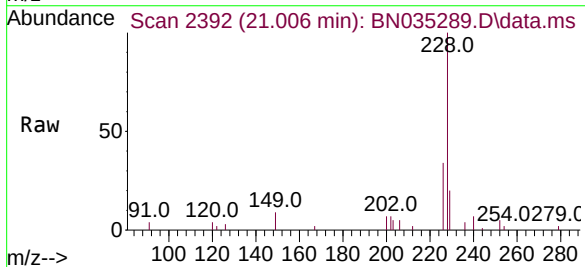
Tgt Ion:228 Resp: 1117
Ion Ratio Lower Upper
228 100
226 31.0 24.7 37.1
229 19.4 16.2 24.2

Manual Integrations
APPROVED

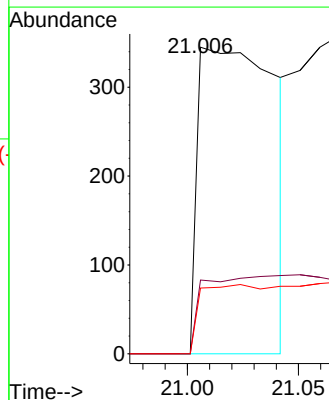
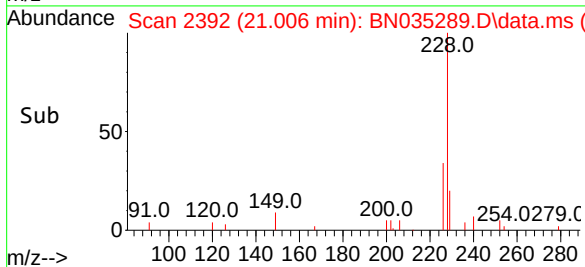
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024

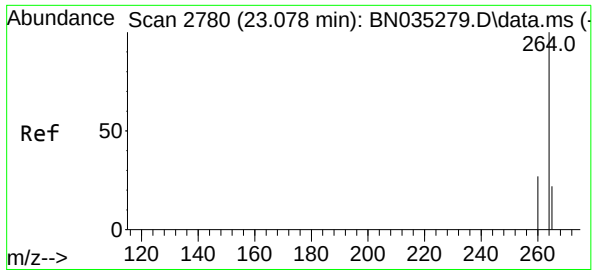


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.552 ng
RT: 21.006 min Scan# 2392
Delta R.T. -0.011 min
Lab File: BN035289.D
Acq: 25 Nov 2024 18:08



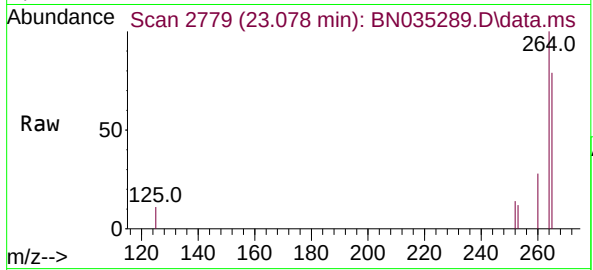
Tgt Ion:149 Resp: 746
Ion Ratio Lower Upper
149 100
167 0.0 0.0 0.0
279 17.4 13.0 19.6





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.078 min Scan# 21
Delta R.T. 0.001 min
Lab File: BN035289.D
Acq: 25 Nov 2024 18:08

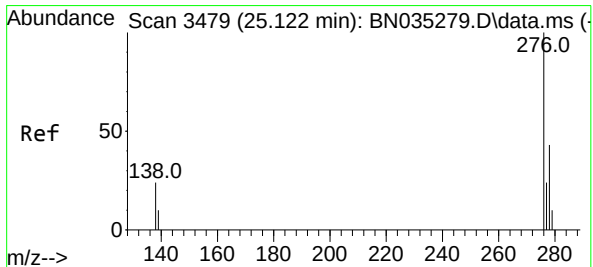
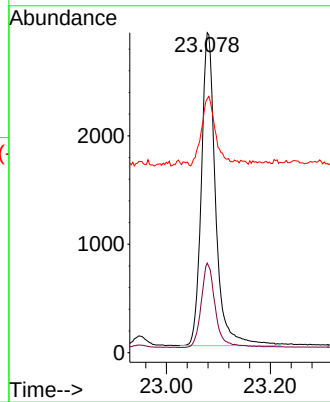
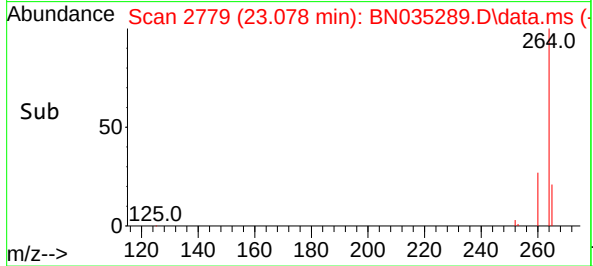
Instrument :
BNA_N
ClientSampleId :
BPOW6-10-20241119MSD



Tgt Ion:264 Resp: 5495
Ion Ratio Lower Upper
264 100
260 28.0 22.3 33.5
265 79.3 68.6 103.0

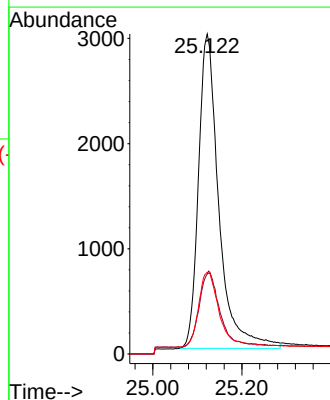
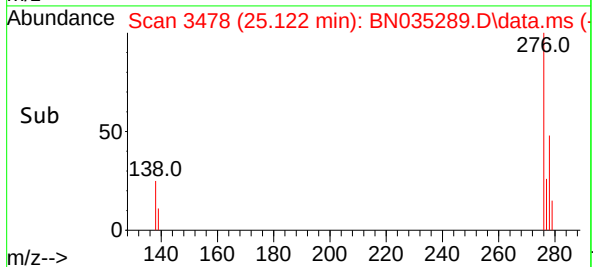
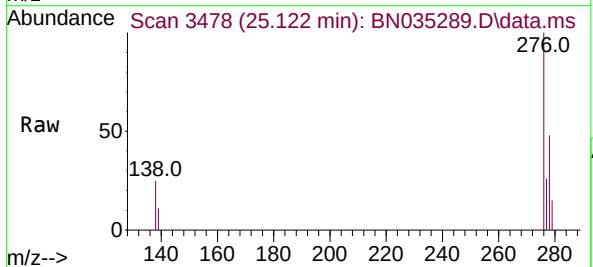
Manual Integrations
APPROVED

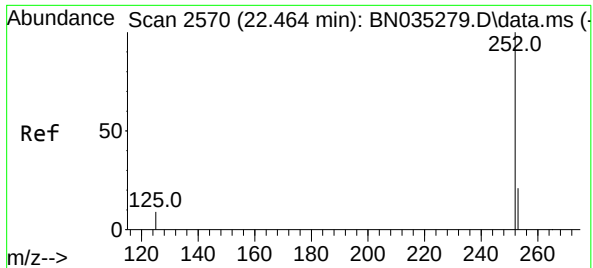
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.422 ng
RT: 25.122 min Scan# 3478
Delta R.T. 0.001 min
Lab File: BN035289.D
Acq: 25 Nov 2024 18:08

Tgt Ion:276 Resp: 9501
Ion Ratio Lower Upper
276 100
138 23.6 18.8 28.2
277 23.4 18.2 27.4





#37

Benzo(b)fluoranthene

Concen: 0.373 ng

RT: 22.464 min Scan# 2570

Delta R.T. 0.001 min

Lab File: BN035289.D

Acq: 25 Nov 2024 18:08

Instrument :

BNA_N

ClientSampleId :

BPOW6-10-20241119MSD

Tgt Ion:252 Resp: 8918

Ion Ratio Lower Upper

252 100

253 25.7 20.2 30.2

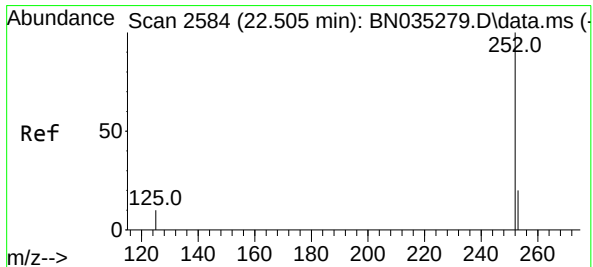
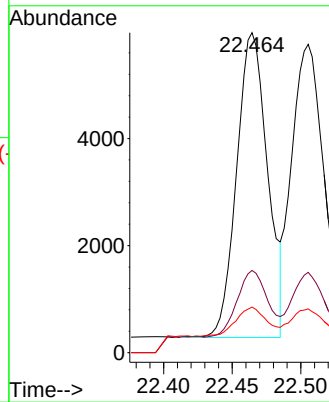
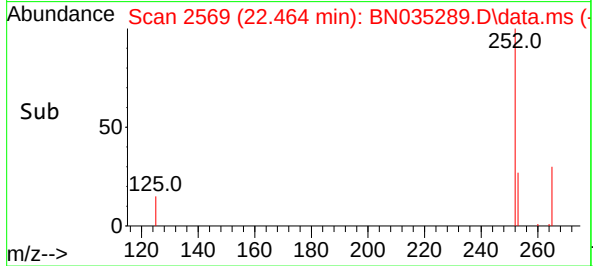
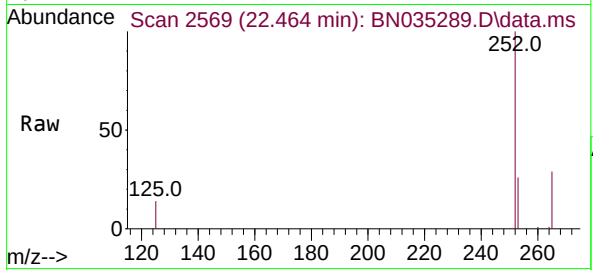
125 14.3 12.0 18.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/27/2024

Supervised By :mohammad ahmed 11/27/2024



#38

Benzo(k)fluoranthene

Concen: 0.384 ng

RT: 22.505 min Scan# 2583

Delta R.T. 0.001 min

Lab File: BN035289.D

Acq: 25 Nov 2024 18:08

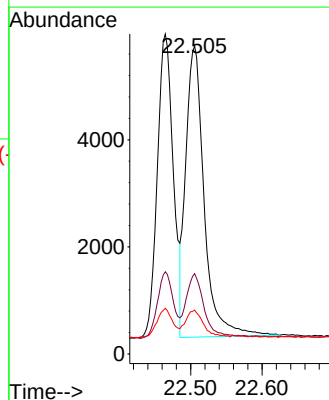
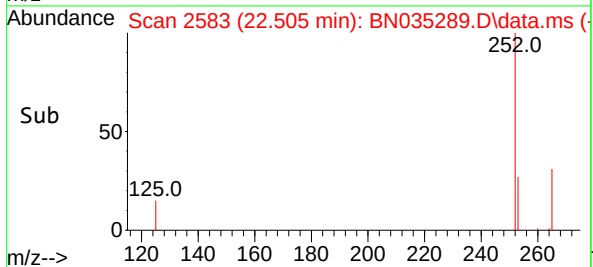
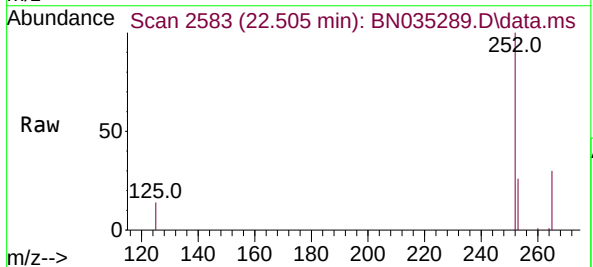
Tgt Ion:252 Resp: 9698

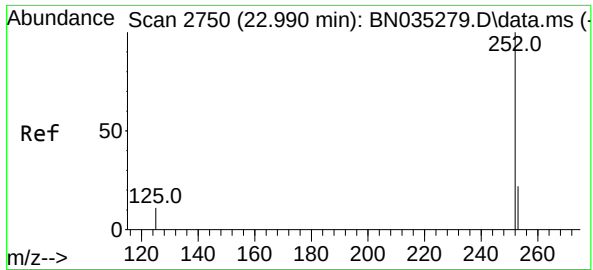
Ion Ratio Lower Upper

252 100

253 26.1 20.1 30.1

125 14.2 12.7 19.1





#39

Benzo(a)pyrene

Concen: 0.424 ng

RT: 22.988 min Scan# 21

Delta R.T. -0.002 min

Lab File: BN035289.D

Acq: 25 Nov 2024 18:08

Instrument :

BNA_N

ClientSampleId :

BPOW6-10-20241119MSD

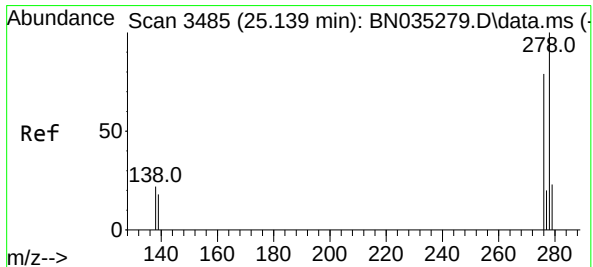
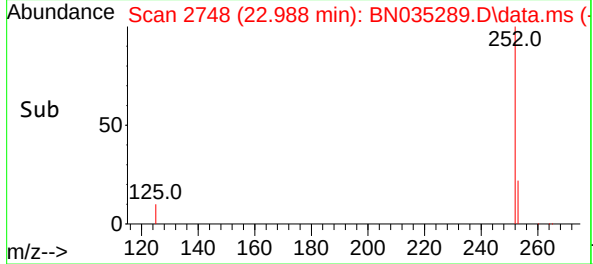
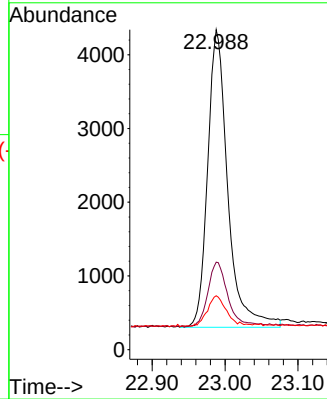
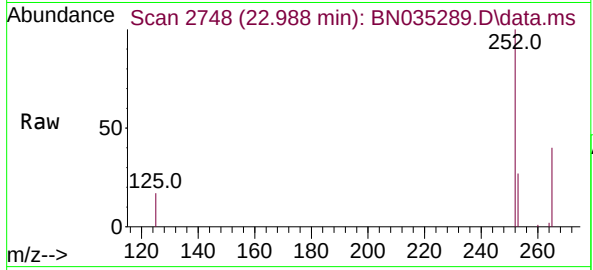
Tgt Ion:	252	Resp:	773
Ion Ratio	Lower	Upper	
252	100		
253	27.4	22.3	33.5
125	16.8	15.3	22.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/27/2024

Supervised By :mohammad ahmed 11/27/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.419 ng

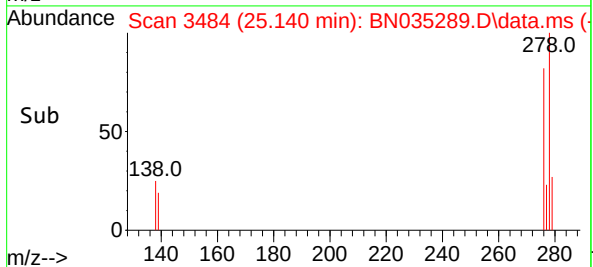
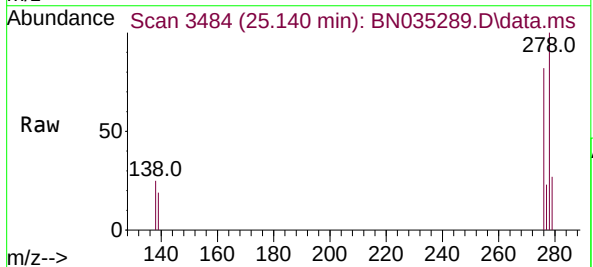
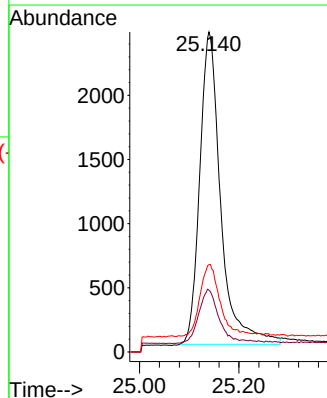
RT: 25.140 min Scan# 3484

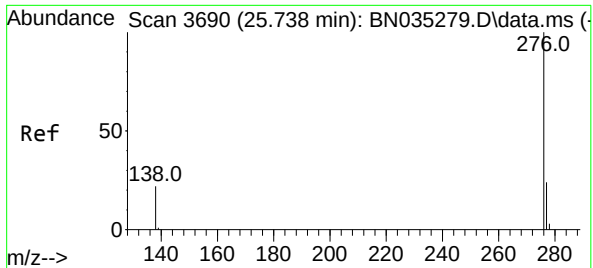
Delta R.T. 0.001 min

Lab File: BN035289.D

Acq: 25 Nov 2024 18:08

Tgt Ion:	278	Resp:	7121
Ion Ratio	Lower	Upper	
278	100		
139	19.4	17.0	25.6
279	27.3	23.0	34.4





#41

Benzo(g,h,i)perylene

Concen: 0.402 ng

RT: 25.739 min Scan# 30

Delta R.T. 0.001 min

Lab File: BN035289.D

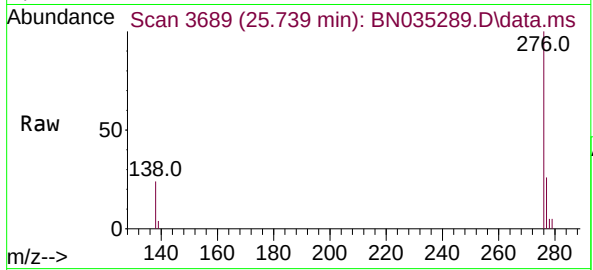
Acq: 25 Nov 2024 18:08

Instrument :

BNA_N

ClientSampleId :

BPOW6-10-20241119MSD



Tgt Ion:276 Resp: 7900

Ion Ratio Lower Upper

276 100

277 25.6 21.1 31.7

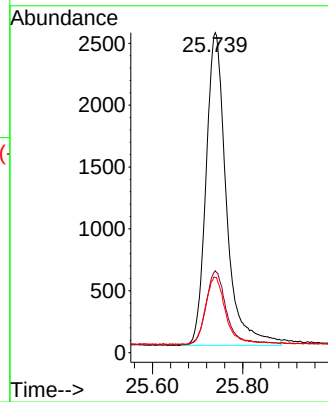
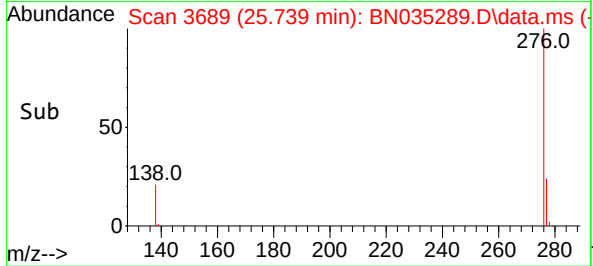
138 23.5 19.8 29.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/27/2024

Supervised By :mohammad ahmed 11/27/2024



Manual Integration Report

Sequence:

BN111324

Instrument

BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC1.6	BN035066.D	Benzo(b)fluoranthene	yogesh	11/14/2024 3:07:07 AM	mohammad	11/14/2024 3:22:04 AM	Peak Integrated by Software
SSTDICC3.2	BN035067.D	Benzo(b)fluoranthene	yogesh	11/14/2024 3:07:16 AM	mohammad	11/14/2024 3:22:04 AM	Peak Integrated by Software
SSTDICV0.4	BN035069.D	4,6-Dinitro-2-methylphe nol	yogesh	11/14/2024 3:07:24 AM	mohammad	11/14/2024 3:22:04 AM	Peak Integrated by Software

Manual Integration Report

Sequence:

BN112124

Instrument

BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC0.4	BN035219.D	Nitrobenzene-d5	yogesh	11/22/2024 3:54:28 AM	mohammad	11/22/2024 4:01:18 AM	Peak Integrated by Software
P4934-03	BN035228.D	Nitrobenzene-d5	yogesh	11/22/2024 3:54:41 AM	mohammad	11/22/2024 4:01:18 AM	Peak Integrated by Software
P4934-04	BN035229.D	Nitrobenzene-d5	yogesh	11/22/2024 3:54:44 AM	mohammad	11/22/2024 4:01:18 AM	Peak Integrated by Software
P4934-11	BN035232.D	Nitrobenzene-d5	yogesh	11/22/2024 3:54:55 AM	mohammad	11/22/2024 4:01:18 AM	Peak Integrated by Software
P4934-10	BN035233.D	Nitrobenzene-d5	yogesh	11/22/2024 3:54:56 AM	mohammad	11/22/2024 4:01:18 AM	Peak Integrated by Software
P4934-12	BN035234.D	Nitrobenzene-d5	yogesh	11/22/2024 3:54:58 AM	mohammad	11/22/2024 4:01:18 AM	Peak Integrated by Software
SSTDCCC0.4	BN035235.D	Nitrobenzene-d5	yogesh	11/22/2024 3:55:00 AM	mohammad	11/22/2024 4:01:18 AM	Peak Integrated by Software

Manual Integration Report

Sequence:

BN112524

Instrument

BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC0.1	BN035277.D	Nitrobenzene-d5	yogesh	11/27/2024 5:29:21 AM	mohammad	11/27/2024 6:04:55 AM	Peak Integrated by Software
SSTDICC0.2	BN035278.D	Nitrobenzene-d5	yogesh	11/27/2024 5:29:22 AM	mohammad	11/27/2024 6:04:55 AM	Peak Integrated by Software
SSTDICV0.4	BN035284.D	Fluoranthene-d10	yogesh	11/27/2024 5:29:23 AM	mohammad	11/27/2024 6:04:55 AM	Peak Integrated by Software
PB165150BL	BN035285.D	Nitrobenzene-d5	yogesh	11/27/2024 5:29:25 AM	mohammad	11/27/2024 6:04:55 AM	Peak Integrated by Software
P4934-05	BN035287.D	Nitrobenzene-d5	yogesh	11/27/2024 5:29:26 AM	mohammad	11/27/2024 6:04:55 AM	Peak Integrated by Software
P4934-06MS	BN035288.D	Nitrobenzene-d5	yogesh	11/27/2024 5:29:27 AM	mohammad	11/27/2024 6:04:55 AM	Peak Integrated by Software
P4934-07MSD	BN035289.D	Nitrobenzene-d5	yogesh	11/27/2024 5:29:29 AM	mohammad	11/27/2024 6:04:55 AM	Peak Integrated by Software
PB165150BS	BN035290.D	Nitrobenzene-d5	yogesh	11/27/2024 5:29:32 AM	mohammad	11/27/2024 6:04:55 AM	Peak Integrated by Software
SSTDCCC0.4	BN035291.D	Nitrobenzene-d5	yogesh	11/27/2024 5:29:34 AM	mohammad	11/27/2024 6:04:55 AM	Peak Integrated by Software
SSTDCCC0.4	BN035293.D	Nitrobenzene-d5	yogesh	11/27/2024 5:29:52 AM	mohammad	11/27/2024 6:04:55 AM	Peak Integrated by Software
SSTDCCC0.4	BN035300.D	Nitrobenzene-d5	yogesh	11/27/2024 5:30:22 AM	mohammad	11/27/2024 6:04:55 AM	Peak Integrated by Software

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN111324

Review By	yogesh	Review On	11/14/2024 3:07:49 AM
Supervise By	mohammad	Supervise On	11/14/2024 3:22:04 AM
SubDirectory	BN111324	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method BN111324
STD. NAME	STD REF.#		
Tune/Reschk	SP6573		
Initial Calibration Stds	SP6603,SP6602,SP6601,SP6600,SP6599,SP6598,SP6597		
CCC	SP6601		
Internal Standard/PEM	SP6527		
ICV/I.BLK	SP6548		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN035061.D	13 Nov 2024 12:01	RC/JU	Ok
2	SSTDIC0.1	BN035062.D	13 Nov 2024 12:40	RC/JU	Ok
3	SSTDIC0.2	BN035063.D	13 Nov 2024 13:16	RC/JU	Ok
4	SSTDIC0.4	BN035064.D	13 Nov 2024 13:52	RC/JU	Ok
5	SSTDIC0.8	BN035065.D	13 Nov 2024 14:28	RC/JU	Ok
6	SSTDIC1.6	BN035066.D	13 Nov 2024 15:04	RC/JU	Ok,M
7	SSTDIC3.2	BN035067.D	13 Nov 2024 15:39	RC/JU	Ok,M
8	SSTDIC5.0	BN035068.D	13 Nov 2024 16:15	RC/JU	Ok
9	SSTDICV0.4	BN035069.D	13 Nov 2024 16:51	RC/JU	Ok,M
10	PB164785BL	BN035070.D	13 Nov 2024 17:27	RC/JU	Ok
11	PB164785BS	BN035071.D	13 Nov 2024 18:03	RC/JU	Ok
12	PB164785BSD	BN035072.D	13 Nov 2024 18:38	RC/JU	Ok
13	P4765-02	BN035073.D	13 Nov 2024 19:14	RC/JU	Ok
14	P4765-06	BN035074.D	13 Nov 2024 19:50	RC/JU	Ok
15	P4767-02	BN035075.D	13 Nov 2024 20:26	RC/JU	Ok,M
16	P4773-01	BN035076.D	13 Nov 2024 21:01	RC/JU	Dilution
17	P4773-02	BN035077.D	13 Nov 2024 21:37	RC/JU	Ok
18	P4774-06	BN035078.D	13 Nov 2024 22:13	RC/JU	Ok
19	P4774-02	BN035079.D	13 Nov 2024 22:49	RC/JU	ReRun
20	SSTDIC0.4	BN035080.D	13 Nov 2024 23:24	RC/JU	Ok

M : Manual Integration

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN112124

Review By	yogesh	Review On	11/22/2024 3:55:12 AM
Supervise By	mohammad	Supervise On	11/22/2024 4:01:18 AM
SubDirectory	BN112124	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method BN111324
STD. NAME	STD REF.#		
Tune/Reschk	SP6573		
Initial Calibration Stds	SP6603,SP6602,SP6601,SP6600,SP6599,SP6598,SP6597		
CCC	SP6601		
Internal Standard/PEM	SP6527,1ul/100ul sample		
ICV/I.BLK	SP6548		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN035218.D	21 Nov 2024 12:43	RC/JU	Ok
2	SSTDCCC0.4	BN035219.D	21 Nov 2024 13:22	RC/JU	Ok,M
3	PB165012BL	BN035220.D	21 Nov 2024 13:58	RC/JU	Ok,M
4	P4868-02	BN035221.D	21 Nov 2024 14:35	RC/JU	Ok,M
5	P4868-01	BN035222.D	21 Nov 2024 15:12	RC/JU	Ok
6	P4866-01	BN035223.D	21 Nov 2024 15:48	RC/JU	Ok,M
7	P4868-03	BN035224.D	21 Nov 2024 16:24	RC/JU	Ok,M
8	P4866-02	BN035225.D	21 Nov 2024 17:00	RC/JU	Ok,M
9	PB165012BS	BN035226.D	21 Nov 2024 17:36	RC/JU	Ok,M
10	PB165012BSD	BN035227.D	21 Nov 2024 18:12	RC/JU	Ok,M
11	P4934-03	BN035228.D	21 Nov 2024 18:48	RC/JU	Ok,M
12	P4934-04	BN035229.D	21 Nov 2024 19:24	RC/JU	Ok,M
13	P4934-08	BN035230.D	21 Nov 2024 20:00	RC/JU	Ok
14	P4934-09	BN035231.D	21 Nov 2024 20:36	RC/JU	Ok
15	P4934-11	BN035232.D	21 Nov 2024 21:12	RC/JU	Ok,M
16	P4934-10	BN035233.D	21 Nov 2024 21:49	RC/JU	Ok,M
17	P4934-12	BN035234.D	21 Nov 2024 22:25	RC/JU	Ok,M
18	SSTDCCC0.4	BN035235.D	21 Nov 2024 23:01	RC/JU	Ok,M

M : Manual Integration

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN112524

Review By	yogesh	Review On	11/27/2024 5:30:45 AM
Supervise By	mohammad	Supervise On	11/27/2024 6:04:55 AM
SubDirectory	BN112524	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn112524
STD. NAME	STD REF.#		
Tune/Reschk	SP6573		
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657		
CCC	SP6661		
Internal Standard/PEM	SP6527,1ul/100ul sample		
ICV/I.BLK	SP6548		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN035276.D	25 Nov 2024 09:37	RC/JU	Ok
2	SSTDIC0.1	BN035277.D	25 Nov 2024 10:16	RC/JU	Ok,M
3	SSTDIC0.2	BN035278.D	25 Nov 2024 10:52	RC/JU	Ok,M
4	SSTDIC0.4	BN035279.D	25 Nov 2024 11:28	RC/JU	Ok
5	SSTDIC0.8	BN035280.D	25 Nov 2024 12:04	RC/JU	Ok
6	SSTDIC1.6	BN035281.D	25 Nov 2024 12:40	RC/JU	Ok
7	SSTDIC3.2	BN035282.D	25 Nov 2024 13:16	RC/JU	Ok
8	SSTDIC5.0	BN035283.D	25 Nov 2024 13:52	RC/JU	Ok
9	SSTDICV0.4	BN035284.D	25 Nov 2024 14:29	RC/JU	Ok,M
10	PB165150BL	BN035285.D	25 Nov 2024 15:44	RC/JU	Ok,M
11	P4934-02	BN035286.D	25 Nov 2024 16:20	RC/JU	Ok
12	P4934-05	BN035287.D	25 Nov 2024 16:56	RC/JU	Ok,M
13	P4934-06MS	BN035288.D	25 Nov 2024 17:32	RC/JU	Ok,M
14	P4934-07MSD	BN035289.D	25 Nov 2024 18:08	RC/JU	Ok,M
15	PB165150BS	BN035290.D	25 Nov 2024 18:44	RC/JU	Ok,M
16	SSTDIC0.4	BN035291.D	25 Nov 2024 19:20	RC/JU	Ok,M
17	DFTPP	BN035292.D	25 Nov 2024 20:35	RC/JU	Ok
18	SSTDIC0.4	BN035293.D	25 Nov 2024 23:02	RC/JU	Ok,M
19	PB165198BL	BN035294.D	25 Nov 2024 23:38	RC/JU	Ok,M
20	PB165198BS	BN035295.D	26 Nov 2024 00:14	RC/JU	Not Ok
21	PB165198BSD	BN035296.D	26 Nov 2024 00:50	RC/JU	Not Ok

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN112524

Review By	yogesh	Review On	11/27/2024 5:30:45 AM
Supervise By	mohammad	Supervise On	11/27/2024 6:04:55 AM
SubDirectory	BN112524	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn112524
STD. NAME	STD REF.#		
Tune/Reschk	SP6573		
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657		
CCC	SP6661		
Internal Standard/PEM	SP6527,1ul/100ul sample		
ICV/I.BLK	SP6548		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	P4959-01	BN035297.D	26 Nov 2024 01:26	RC/JU	ReRun
23	P4959-02	BN035298.D	26 Nov 2024 02:02	RC/JU	Ok,M
24	P4959-03	BN035299.D	26 Nov 2024 02:38	RC/JU	Ok,M
25	SSTDCCC0.4	BN035300.D	26 Nov 2024 03:14	RC/JU	Ok,M

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN111324

Review By	yogesh	Review On	11/14/2024 3:07:49 AM
Supervise By	mohammad	Supervise On	11/14/2024 3:22:04 AM
SubDirectory	BN111324	HP Acquire Method	BNA_N, 8270_HP Processing Method BN111324

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6603,SP6602,SP6601,SP6600,SP6599,SP6598,SP6597
CCC	SP6601
Internal Standard/PEM	SP6527
ICV/I.BLK	SP6548
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN035061.D	13 Nov 2024 12:01		RC/JU	Ok
2	SSTDICC0.1	SSTDICC0.1	BN035062.D	13 Nov 2024 12:40		RC/JU	Ok
3	SSTDICC0.2	SSTDICC0.2	BN035063.D	13 Nov 2024 13:16		RC/JU	Ok
4	SSTDICCC0.4	SSTDICCC0.4	BN035064.D	13 Nov 2024 13:52		RC/JU	Ok
5	SSTDICC0.8	SSTDICC0.8	BN035065.D	13 Nov 2024 14:28		RC/JU	Ok
6	SSTDICC1.6	SSTDICC1.6	BN035066.D	13 Nov 2024 15:04		RC/JU	Ok,M
7	SSTDICC3.2	SSTDICC3.2	BN035067.D	13 Nov 2024 15:39		RC/JU	Ok,M
8	SSTDICC5.0	SSTDICC5.0	BN035068.D	13 Nov 2024 16:15		RC/JU	Ok
9	SSTDICV0.4	ICVBN111324	BN035069.D	13 Nov 2024 16:51		RC/JU	Ok,M
10	PB164785BL	PB164785BL	BN035070.D	13 Nov 2024 17:27		RC/JU	Ok
11	PB164785BS	PB164785BS	BN035071.D	13 Nov 2024 18:03		RC/JU	Ok
12	PB164785BSD	PB164785BSD	BN035072.D	13 Nov 2024 18:38		RC/JU	Ok
13	P4765-02	DSN002	BN035073.D	13 Nov 2024 19:14		RC/JU	Ok
14	P4765-06	DSN003	BN035074.D	13 Nov 2024 19:50		RC/JU	Ok
15	P4767-02	TOWER-2	BN035075.D	13 Nov 2024 20:26		RC/JU	Ok,M
16	P4773-01	RW7-SP100-20241107	BN035076.D	13 Nov 2024 21:01	Need 2X Dilution	RC/JU	Dilution
17	P4773-02	RW7-SP201-20241107	BN035077.D	13 Nov 2024 21:37		RC/JU	Ok
18	P4774-06	BP-VPB-190-GW-638-6	BN035078.D	13 Nov 2024 22:13		RC/JU	Ok

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN111324

Review By	yogesh	Review On	11/14/2024 3:07:49 AM
Supervise By	mohammad	Supervise On	11/14/2024 3:22:04 AM
SubDirectory	BN111324	HP Acquire Method	BNA_N, 8270_HP Processing Method BN111324

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6603,SP6602,SP6601,SP6600,SP6599,SP6598,SP6597
CCC	SP6601
Internal Standard/PEM	SP6527
ICV/I.BLK	SP6548
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4774-02	VPB190-HYD-2024110	BN035079.D	13 Nov 2024 22:49	Surrogate Fail	RC/JU	ReRun
20	SSTDCCC0.4	SSTDCCC0.4EC	BN035080.D	13 Nov 2024 23:24		RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN112124

Review By	yogesh	Review On	11/22/2024 3:55:12 AM
Supervise By	mohammad	Supervise On	11/22/2024 4:01:18 AM
SubDirectory	BN112124	HP Acquire Method	BNA_N, 8270_HP Processing Method BN111324

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6603,SP6602,SP6601,SP6600,SP6599,SP6598,SP6597
CCC	SP6601
Internal Standard/PEM	SP6527,1ul/100ul sample
ICV/I.BLK	SP6548
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN035218.D	21 Nov 2024 12:43		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN035219.D	21 Nov 2024 13:22		RC/JU	Ok,M
3	PB165012BL	PB165012BL	BN035220.D	21 Nov 2024 13:58		RC/JU	Ok,M
4	P4868-02	RW5-SP201-20241114	BN035221.D	21 Nov 2024 14:35		RC/JU	Ok,M
5	P4868-01	RW5-SP100-20241114	BN035222.D	21 Nov 2024 15:12		RC/JU	Ok
6	P4866-01	RW7-SP200-20241114	BN035223.D	21 Nov 2024 15:48		RC/JU	Ok,M
7	P4868-03	RW5-SP303-20241114	BN035224.D	21 Nov 2024 16:24		RC/JU	Ok,M
8	P4866-02	RW7-SP201-20241114	BN035225.D	21 Nov 2024 17:00		RC/JU	Ok,M
9	PB165012BS	PB165012BS	BN035226.D	21 Nov 2024 17:36		RC/JU	Ok,M
10	PB165012BSD	PB165012BSD	BN035227.D	21 Nov 2024 18:12		RC/JU	Ok,M
11	P4934-03	BPOW6-7-20241118	BN035228.D	21 Nov 2024 18:48		RC/JU	Ok,M
12	P4934-04	DUP01-20241118	BN035229.D	21 Nov 2024 19:24		RC/JU	Ok,M
13	P4934-08	BPOW6-9-20241119	BN035230.D	21 Nov 2024 20:00		RC/JU	Ok
14	P4934-09	FB01-20241119	BN035231.D	21 Nov 2024 20:36		RC/JU	Ok
15	P4934-11	RB01-20241119	BN035232.D	21 Nov 2024 21:12		RC/JU	Ok,M
16	P4934-10	BPOW6-8-20241119	BN035233.D	21 Nov 2024 21:49		RC/JU	Ok,M
17	P4934-12	DUP02-20241119	BN035234.D	21 Nov 2024 22:25		RC/JU	Ok,M
18	SSTDCCC0.4	SSTDCCC0.4EC	BN035235.D	21 Nov 2024 23:01		RC/JU	Ok,M

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN112124

Review By	yogesh	Review On	11/22/2024 3:55:12 AM
Supervise By	mohammad	Supervise On	11/22/2024 4:01:18 AM
SubDirectory	BN112124	HP Acquire Method	BNA_N, 8270_HP Processing Method BN111324
STD. NAME	STD REF.#		
Tune/Reschk	SP6573		
Initial Calibration Stds	SP6603,SP6602,SP6601,SP6600,SP6599,SP6598,SP6597		
CCC	SP6601		
Internal Standard/PEM	SP6527,1ul/100ul sample		
ICV/I.BLK	SP6548		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN112524

Review By	yogesh	Review On	11/27/2024 5:30:45 AM
Supervise By	mohammad	Supervise On	11/27/2024 6:04:55 AM
SubDirectory	BN112524	HP Acquire Method	BNA_N, 8270_HP Processing Method bn112524

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	SP6573 SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	SP6661 SP6527,1ul/100ul sample SP6548

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN035276.D	25 Nov 2024 09:37		RC/JU	Ok
2	SSTDICC0.1	SSTDICC0.1	BN035277.D	25 Nov 2024 10:16	Compound #3,20,24,34 removed from 0.1ppm	RC/JU	Ok,M
3	SSTDICC0.2	SSTDICC0.2	BN035278.D	25 Nov 2024 10:52	Compound #20 Kept on LR	RC/JU	Ok,M
4	SSTDICCC0.4	SSTDICCC0.4	BN035279.D	25 Nov 2024 11:28	This calibration is used for Only 1-4 Dioxane DOD Sample	RC/JU	Ok
5	SSTDICC0.8	SSTDICC0.8	BN035280.D	25 Nov 2024 12:04		RC/JU	Ok
6	SSTDICC1.6	SSTDICC1.6	BN035281.D	25 Nov 2024 12:40		RC/JU	Ok
7	SSTDICC3.2	SSTDICC3.2	BN035282.D	25 Nov 2024 13:16		RC/JU	Ok
8	SSTDICC5.0	SSTDICC5.0	BN035283.D	25 Nov 2024 13:52	Compound #20,24,30,34 removed from 5.0ppm	RC/JU	Ok
9	SSTDICV0.4	ICVBN112524	BN035284.D	25 Nov 2024 14:29		RC/JU	Ok,M
10	PB165150BL	PB165150BL	BN035285.D	25 Nov 2024 15:44		RC/JU	Ok,M
11	P4934-02	BPOW6-11-20241118	BN035286.D	25 Nov 2024 16:20		RC/JU	Ok
12	P4934-05	BPOW6-10-20241119	BN035287.D	25 Nov 2024 16:56		RC/JU	Ok,M
13	P4934-06MS	BPOW6-10-20241119M	BN035288.D	25 Nov 2024 17:32		RC/JU	Ok,M
14	P4934-07MSD	BPOW6-10-20241119M	BN035289.D	25 Nov 2024 18:08		RC/JU	Ok,M
15	PB165150BS	PB165150BS	BN035290.D	25 Nov 2024 18:44		RC/JU	Ok,M
16	SSTDCCC0.4	SSTDCCC0.4EC	BN035291.D	25 Nov 2024 19:20		RC/JU	Ok,M
17	DFTPP	DFTPP	BN035292.D	25 Nov 2024 20:35		RC/JU	Ok

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN112524

Review By	yogesh	Review On	11/27/2024 5:30:45 AM
Supervise By	mohammad	Supervise On	11/27/2024 6:04:55 AM
SubDirectory	BN112524	HP Acquire Method	BNA_N, 8270_HP Processing Method bn112524
STD. NAME	STD REF.#		
Tune/Reschk	SP6573		
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657		
CCC	SP6661		
Internal Standard/PEM	SP6527,1ul/100ul sample		
ICV/I.BLK	SP6548		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

18	SSTDCCC0.4	SSTDCCC0.4	BN035293.D	25 Nov 2024 23:02	CCC Fail high side for compound #2	RC/JU	Ok,M
19	PB165198BL	PB165198BL	BN035294.D	25 Nov 2024 23:38		RC/JU	Ok,M
20	PB165198BS	PB165198BS	BN035295.D	26 Nov 2024 00:14	CCC fail high side for compound #2	RC/JU	Not Ok
21	PB165198BSD	PB165198BSD	BN035296.D	26 Nov 2024 00:50	CCC fail high side for compound #2	RC/JU	Not Ok
22	P4959-01	RW5-SP100-20241121	BN035297.D	26 Nov 2024 01:26	Need 5X Dilution, CCC fail high side for compound #2	RC/JU	ReRun
23	P4959-02	RW5-SP201-20241121	BN035298.D	26 Nov 2024 02:02		RC/JU	Ok,M
24	P4959-03	RW5-SP303-20241121	BN035299.D	26 Nov 2024 02:38		RC/JU	Ok,M
25	SSTDCCC0.4	SSTDCCC0.4EC	BN035300.D	26 Nov 2024 03:14		RC/JU	Ok,M

M : Manual Integration

SOP ID: M3510C,3580A-Extraction SVOC-20

Clean Up SOP #: N/A

Matrix : Water

Welgh By: N/A **Extraction By:** RS

Balance check: N/A **Filter By:** RS

Balance ID: N/A **pH Meter ID:** N/A

pH Strip Lot#: E3574 **Hood ID:** 4,6,7

Extraction Method: ☒ Separatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☐ Soxhlet

Extraction Start Date : 11/21/2024

Extraction Start Time : 08:27

Extraction End Date : 11/21/2024

Extraction End Time : 13:25

Concentration By: EH

Supervisor By : rajesh

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	0.4 PPM	SP6606
Surrogate	1.0ML	0.4 PPM	SP6666
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3828
Baked Na2SO4	N/A	EP2562
10N NaoH	N/A	EP2559
H2SO4 1:1	N/A	EP2565
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210673. pH Adjusted<2 with 1:1 H2SO4 &>11 with 10 N NaOH.

KD Bath ID: Water bath -01 **Envap ID:** NEVAP-02

KD Bath Temperature: 60 °C **Envap Temperature:** 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/21/24	RP (Sgt. Lab)	ACK VOC
13:30	Preparation Group	Analysis Group

Analytical Method: M3510C,3580A-Extraction SVOC-20

Concentration Date: 11/21/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB165150BL	SBLK150	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1			SEP-1
PB165150BS	SLCS150	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1			2
P4934-02	BPOW6-11-20241118	SVOC-SIMGrou p1	970	6	RUPESH	rajesh	1	C		3
P4934-03	BPOW6-7-20241118	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1	C		4
P4934-04	DUP-01-20241118	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1	C		5
P4934-05	BPOW6-10-20241118	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1	C		6
P4934-06	P4934-05MS	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1	C		7
P4934-07	P4934-05MSD	SVOC-SIMGrou p1	980	6	RUPESH	rajesh	1	C		8
P4934-08	BPOW6-9-20241118	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1	C		9
P4934-09	FB-01-20241119	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1	C		10
P4934-10	BPOW6-8-20241118	SVOC-SIMGrou p1	990	6	RUPESH	rajesh	1	C		11
P4934-11	RB-01-20241119	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1	C		12
P4934-12	DUP-02-20241119	SVOC-SIMGrou p1	990	6	RUPESH	rajesh	1	C		13

* Extracts relinquished on the same date as received.

2
11/21/24

167150
11/21/24

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4934

WorkList ID : 185627

Department : Extraction

Date : 11-21-2024 08:14:37

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4934-02	BPOW6-11-20241118	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L61	11/18/2024	8270-Modified
P4934-03	BPOW6-7-20241118	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L61	11/18/2024	8270-Modified
P4934-04	DUP-01-20241118	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L61	11/18/2024	8270-Modified
P4934-05	BPOW6-10-20241118	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L61	11/19/2024	8270-Modified
P4934-06	P4934-05MS	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L61	11/19/2024	8270-Modified
P4934-07	P4934-05MSD	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L61	11/19/2024	8270-Modified
P4934-08	BPOW6-9-20241118	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L61	11/19/2024	8270-Modified
P4934-09	FB-01-20241119	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L61	11/19/2024	8270-Modified
P4934-10	BPOW6-8-20241118	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L61	11/19/2024	8270-Modified
P4934-11	RB-01-20241119	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L61	11/19/2024	8270-Modified
P4934-12	DUP-02-20241119	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L61	11/19/2024	8270-Modified

Date/Time

11/21/24 8:20

Raw Sample Received by:

PJ (Cell lab)

Raw Sample Relinquished by:

JDCSM

Date/Time

11/21/24 9:00

Raw Sample Received by:

JDCSM

Raw Sample Relinquished by:

PJ (Cell lab)

Prep Standard - Chemical Standard Summary

Order ID : P4934

Test : SVOC-SIMGroup1

Prepbatch ID : PB165150,

Sequence ID/Qc Batch ID: BN112124,BN112524,

Standard ID :

EP2559,EP2562,EP2565,SP6527,SP6547,SP6548,SP6573,SP6596,SP6597,SP6598,SP6599,SP6600,SP6601,SP6602,SP6603,SP6606,SP6629,SP6656,SP6657,SP6658,SP6659,SP6660,SP6661,SP6662,SP6663,SP6666,

Chemical ID :

1ul/100ul

sample,E3551,E3657,E3746,E3759,E3768,E3786,E3788,E3791,E3817,E3818,E3828,M5173,S10103,S10247,S10782,S10977,S11003,S11011,S11097,S11494,S11566,S11766,S11771,S11831,S12029,S12077,S12079,S12096,S12105,S12112,S12113,S12117,S12126,S12189,S12207,S12314,S12453,W3112,



<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
<u>FROM</u>	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>
3923	Baked Sodium Sulfate	EP2562	11/14/2024	01/03/2025	Rajesh Parikh	Extraction_SC ALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 11/14/2024
<u>FROM</u> 4000.00000gram of E3551 = Final Quantity: 4000.000 gram								

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>
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

<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	SP6527	06/10/2024	12/05/2024	Jagrut Upadhyay	None	None	mohammad ahmed 07/05/2024

FROM 0.10000ml of S12029 + 4.90000ml of E3759 = Final Quantity: 5.000 ml



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3355	8270-SIM MDL-3.2PPM CALIBRATION STOCK SOL- 2ND	SP6547	07/08/2024	11/21/2024	Jagrut Upadhyay	None	None	mohammad ahmed
SOURCE 0.00630ml of S10977 + 0.01280ml of S11003 + 0.03200ml of S10782 + 0.03200ml of S11766 + 0.06400ml of S11566 + 0.06400ml of S12096 + 0.06400ml of S12117 + 19.72490ml of E3746 = Final Quantity: 20.000 ml								
FROM 0.00630ml of S10977 + 0.01280ml of S11003 + 0.03200ml of S10782 + 0.03200ml of S11766 + 0.06400ml of S11566 + 0.06400ml of S12096 + 0.06400ml of S12117 + 19.72490ml of E3746 = 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	SP6548	07/08/2024	11/21/2024	Jagrut Upadhyay	None	None	mohammad ahmed 07/08/2024
<u>FROM</u> 0.87500ml of E3746 + 0.01000ml of SP6527 + 0.12500ml of SP6547 = 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 DFTTP 8270E	SP6573	07/15/2024	01/08/2025	Rahul Chavli	None	None	Yogesh Patel
								07/17/2024

FROM 1.00000ml of S10247 + 19.00000ml of E3768 = Final Quantity: 20.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3339	8270 sim calibration stock 10ppm (CPI)	SP6596	08/09/2024	11/21/2024	Jagrut Upadhyay	None	None	Yogesh Patel
								08/21/2024

FROM 0.02500ml of S12113 + 0.03350ml of S10103 + 0.05000ml of S11494 + 0.10000ml of S12112 + 0.12500ml of S10782 + 0.25000ml of S11097 + 0.25000ml of S12077 + 24.16650ml of E3786 = Final Quantity: 25.000 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3361	8270-SIM MDL-5PPM CALIBRATION SOLUTION	SP6597	08/09/2024	11/21/2024	Jagrut Upadhyay	None	None	Yogesh Patel
								08/21/2024

FROM 0.50000ml of E3786 + 0.01000ml of SP6527 + 0.50000ml of SP6596 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3341	8270-SIM MDL-3.2PPM CALIBRATION SOLUTION	SP6598	08/09/2024	11/21/2024	Jagrut Upadhyay	None	None	Yogesh Patel
								08/21/2024

FROM 0.68000ml of E3786 + 0.01000ml of SP6527 + 0.32000ml of SP6596 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3344	8270-SIM MDL-1.6PPM CALIBRATION SOLUTION	SP6599	08/09/2024	11/21/2024	Jagrut Upadhyay	None	None	Yogesh Patel
								08/21/2024

FROM 0.84000ml of E3786 + 0.01000ml of SP6527 + 0.16000ml of SP6596 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3342	8270-SIM MDL-0.8PPM CALIBRATION SOLUTION	SP6600	08/09/2024	11/21/2024	Jagrut Upadhyay	None	None	Yogesh Patel
								08/21/2024

FROM 0.92000ml of E3786 + 0.01000ml of SP6527 + 0.08000ml of SP6596 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3343	8270-SIM MDL-0.4PPM CALIBRATION SOLUTION	SP6601	08/09/2024	11/21/2024	Jagrut Upadhyay	None	None	Yogesh Patel
								08/21/2024

FROM 0.96000ml of E3786 + 0.01000ml of SP6527 + 0.04000ml of SP6596 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3345	8270-SIM MDL-0.2PPM CALIBRATION SOLUTION	SP6602	08/09/2024	11/21/2024	Jagrut Upadhyay	None	None	Yogesh Patel
								08/21/2024

FROM 0.50000ml of E3786 + 0.01000ml of SP6527 + 0.50000ml of SP6601 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3346	8270-SIM MDL-0.1PPM CALIBRATION SOLUTION	SP6603	08/09/2024	11/21/2024	Jagrut Upadhyay	None	None	Yogesh Patel
								08/21/2024

FROM 0.75000ml of E3786 + 0.01000ml of SP6527 + 0.25000ml of SP6601 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3492	8270-SIM-Spike 0.4 PPM	SP6606	08/20/2024	02/12/2025	Rahul Chavli	None	None	mohammad ahmed
								08/21/2024

FROM 0.00160ml of S11011 + 0.02000ml of S11771 + 0.04000ml of S12105 + 0.04000ml of S12126 + 0.04000ml of S12453 + 99.85840ml of E3788 = Final Quantity: 100.000 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3493	Internal Standard 0.4 PPM	SP6629	09/12/2024	03/04/2025	Jagrut Upadhyay	None	None	Yogesh Patel
								10/14/2024

FROM 0.10000ml of S12314 + 4.90000ml of E3791 = Final Quantity: 5.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3339	8270 sim calibration stock 10ppm (CPI)	SP6656	10/24/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel
								11/28/2024

FROM 0.03350ml of S10103 + 0.05000ml of S11494 + 0.05000ml of S12079 + 0.12500ml of S11831 + 0.12500ml of S12113 + 0.20000ml of S12077 + 0.25000ml of S11097 + 24.16650ml of E3817 = Final Quantity: 25.000 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3361	8270-SIM MDL-5PPM CALIBRATION SOLUTION	SP6657	10/24/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel
								11/28/2024

FROM 0.50000ml of E3817 + 0.01000ml of SP6629 + 0.50000ml of SP6656 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3341	8270-SIM MDL-3.2PPM CALIBRATION SOLUTION	SP6658	10/24/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel
								11/28/2024

FROM 0.68000ml of E3817 + 0.01000ml of SP6629 + 0.32000ml of SP6656 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3344	8270-SIM MDL-1.6PPM CALIBRATION SOLUTION	SP6659	10/24/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel
								11/28/2024

FROM 0.84000ml of E3817 + 0.01000ml of SP6629 + 0.16000ml of SP6656 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3342	8270-SIM MDL-0.8PPM CALIBRATION SOLUTION	SP6660	10/24/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel
								11/28/2024

FROM 0.92000ml of E3817 + 0.01000ml of SP6629 + 0.08000ml of SP6656 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3343	8270-SIM MDL-0.4PPM CALIBRATION SOLUTION	SP6661	10/24/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel
								11/28/2024

FROM 0.96000ml of E3817 + 0.01000ml of SP6629 + 0.04000ml of SP6656 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3345	8270-SIM MDL-0.2PPM CALIBRATION SOLUTION	SP6662	10/24/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel
								11/28/2024

FROM 0.50000ml of E3817 + 0.01000ml of SP6629 + 0.50000ml of SP6661 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3346	8270-SIM MDL-0.1PPM CALIBRATION SOLUTION	SP6663	10/24/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel
								11/28/2024

FROM 0.75000ml of E3817 + 0.01000ml of SP6629 + 0.25000ml of SP6661 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3491	8270-SIM-Surrogate 0.4 PPM	SP6666	10/29/2024	04/10/2025	Jagrut Upadhyay	None	None	Yogesh Patel
								11/28/2024

FROM 0.00800ml of S12189 + 0.01600ml of S12207 + 0.04000ml of S11831 + 199.93600ml of E3818 = Final Quantity: 200.000 ml

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	01/03/2025	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)	24C0162011	11/25/2024	05/25/2024 / Rajesh	05/08/2024 / Rajesh	E3746

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)	24D1962005	12/08/2024	06/08/2024 / Rajesh	05/31/2024 / Rajesh	E3759

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)	24E2462004	01/08/2025	07/08/2024 / Rajesh	06/21/2024 / Rajesh	E3768

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)	24F1062004	02/01/2025	08/01/2024 / Rajesh	07/16/2024 / Rajesh	E3786

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	23H1462005	04/23/2025	08/13/2024 / Rajesh	08/13/2024 / Rajesh	E3788

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24G2362009	03/09/2025	09/09/2024 / Rajesh	09/03/2024 / Rajesh	E3791

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24H2762011	04/09/2025	10/09/2024 / Rajesh	10/09/2024 / Rajesh	E3817

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	04/23/2025	10/23/2024 / Rajesh	10/09/2024 / Rajesh	E3818

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-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	0000281827	06/02/2025	06/01/2022 /	04/05/2022 / william	M5173

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-112090-04 / CLP Acid Surrogate Solution, 7500 mg/L, 1ml	440246	02/08/2025	08/08/2024 / Jagrut	12/09/2021 / Christian	S10103

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31615 / SV Mixture, GC/MS Tuning Mixture, CH ₂ Cl ₂ , 1mL,	A0182667	01/15/2025	07/15/2024 / Rahul	03/18/2022 / Christian	S10247

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	33913 / SOM01.0 SIM Analysis Standard (Surrogate), 2000 PPM	A0186160	11/21/2024	05/21/2024 / Jagrut	09/07/2022 / Christian	S10782

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	A0188108	11/30/2024	05/31/2024 / Jagrut	12/28/2022 / Christian	S10977

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	A0189418	11/30/2024	05/31/2024 / Jagrut	12/28/2022 / Christian	S11003

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555872 / Custom Standard, pentachlorophenol Std [CS 5328-5]	A0193449	02/20/2025	08/20/2024 / yogesh	01/13/2023 / Christian	S11011

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-110381-01 / 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1ml	495831	02/08/2025	08/08/2024 / Jagrut	02/07/2023 / Christian	S11097

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110094-02 / CLP Base/Neutral Surrogate Solution, 5000 mg/L, 1ml	506889	02/08/2025	08/08/2024 / Jagrut	08/11/2023 / Yogesh	S11494

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request]	A0201940	12/05/2024	06/05/2024 / Rahul	09/18/2023 / Kiran	S11566
[CS 4978-1]						

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	12/14/2024	06/14/2024 / Rahul	11/21/2023 / Rahul	S11766

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	02/20/2025	08/20/2024 / Rahul	11/21/2023 / Rahul	S11771

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

CHEMICAL RECEIPT LOG BOOK

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	A0201320	12/05/2024	06/05/2024 / Rahul	12/21/2023 / Rahul	S12029

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110816-01 / Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL, (Maximum Expiration: 180 Days)	414127	02/08/2025	08/08/2024 / Jagrut	01/31/2024 / Rahul	S12077

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110816-01 / Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL, (Maximum Expiration: 180 Days)	414127	04/24/2025	10/24/2024 / Jagrut	01/31/2024 / Rahul	S12079

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at \$85 per ampul if requested - contact ARM with Request]	A0207706	12/05/2024	06/05/2024 / Rahul	02/05/2024 / Rahul	S12096

[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]	A0207706	02/12/2025	08/12/2024 / Rahul	02/05/2024 / Rahul	S12105

[CS 4978-2]

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-010223-01 / 1,4-Dioxane Solution, 2,000mg/L, 1ml	454157	01/09/2025	07/09/2024 / Jagrut	03/08/2024 / Rahul	S12112

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-010223-01 / 1,4-Dioxane Solution, 2,000mg/L, 1ml	454157	02/09/2025	08/09/2024 / Jagrut	03/08/2024 / Rahul	S12113

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH ₂ Cl ₂ [New Solvent 100% CH ₂ Cl ₂]	A0203726	12/05/2024	06/05/2024 / Rahul	03/15/2024 / Rahul	S12117

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH ₂ Cl ₂ [New Solvent 100% CH ₂ Cl ₂]	A0203726	02/12/2025	08/12/2024 / Rahul	03/15/2024 / Rahul	S12126

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	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	04/10/2025	10/10/2024 / anahy	03/15/2024 / Rahul	S12207

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH ₂ Cl ₂ , 1mL	A0206540	03/04/2025	09/04/2024 / anahy	05/30/2024 / Rahul	S12314

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	02/12/2025	08/12/2024 / Rahul	07/23/2024 / RAHUL	S12453

[CS 4978-1]

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
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.



5580 Skylane Blvd
Santa Rosa, CA 95403

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Receivalon
02/07/23 by CG

Sheet S11096
to
S11099

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 4

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110381-01	495831	≤ -10 °C	Methylene Chloride	10/30/2027	Method 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
acenaphthene	83-32-9	99.9	13.1.5P	1003 ± 17.27
acenaphthylene	208-96-8	97.6	14.290.1P	999.8 ± 17.22
aniline	62-53-3	99.9	64.7.1P	995 ± 17.13
anthracene	120-12-7	99.5	15.7.1P	1001 ± 17.24
azobenzene	103-33-3	98.1	252.7.2P	999.1 ± 17.21
benzo[a]anthracene	56-55-3	100	16.7.3P	1001 ± 17.24
benzo[b]fluoranthene	205-99-2	99.8	17.421.3P	1001 ± 19.91
benzo[k]fluoranthene	207-08-9	98.9	18.421.4P	1001 ± 17.92
benzo[ghi]perylene	191-24-2	93	19.286.4P	999.6 ± 19.88
benzo[a]pyrene	50-32-8	97	20.286.2P	999.1 ± 26.35
benzyl alcohol	100-51-6	99.9	65.18.1P	1001 ± 17.24
bis(2-chloroethoxy)methane	111-91-1	99.1	31.3.15P	999.7 ± 17.89
bis(2-chloroethyl)ether	111-44-4	99.8	32.7.1P	1001 ± 17.23
bis(2-chloro-1-methylethyl) ether	108-60-1	99.5	34.3.13P	999.5 ± 17.89
bis(2-ethylhexyl)adipate	103-23-1	99.5	874.7.1P	999.5 ± 17.21
bis(2-ethylhexyl)phthalate	117-81-7	99.4	33.29.1P	998.8 ± 19.86
4-bromophenyl phenyl ether	101-55-3	99.4	35.7.1P	999.1 ± 17.2
butyl benzyl phthalate	85-68-7	98.4	36.1.6P	984.7 ± 19.58
carbazole	86-74-8	99.4	239.7.2P	1000 ± 17.22

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Brianna Smith

Certified By: _____

Brianna Smith
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certificate of Analysis

Page 4 of 4

Catalog No.: Z-110381-01

Lot No.: 495831

Expiration Date: 10/30/2027

<u>Compound</u>	<u>CAS No.</u>	<u>Purity (%)</u>	<u>Compound Lot No.</u>	<u>Concentration, mg/L</u>
1,2,4-trichlorobenzene	120-82-1	99.6	54.29.1P	1000 ± 17.22
2,4,5-trichlorophenol	95-95-4	96.5	121.7.1.1P	1000 ± 17.22
2,4,6-trichlorophenol	88-06-2	99.6	113.7.1P	1002 ± 17.25

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: _____



Briana Smith
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.



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
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 Gravimetric +/- 45.7132 µg/mL Unstressed +/- 66.0037 µg/mL Stressed
2	DFTPP (Decafluorotriphenylphosphine) CAS # 5074-71-5 (Lot Q117-147) Purity 95%	1,006.6 µg/mL	+/- 5.9074 µg/mL Gravimetric +/- 45.8508 µg/mL Unstressed +/- 66.2023 µg/mL Stressed
3	Benzidine CAS # 92-87-5 (Lot 211228JLM) Purity 99%	1,008.4 µg/mL	+/- 5.9179 µg/mL Gravimetric +/- 45.9318 µg/mL Unstressed +/- 66.3193 µg/mL Stressed
4	4,4'-DDT CAS # 50-29-3 (Lot 210916JLM) Purity 99%	1,007.6 µg/mL	+/- 5.9132 µg/mL Gravimetric +/- 45.8954 µg/mL Unstressed +/- 66.2667 µg/mL 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:

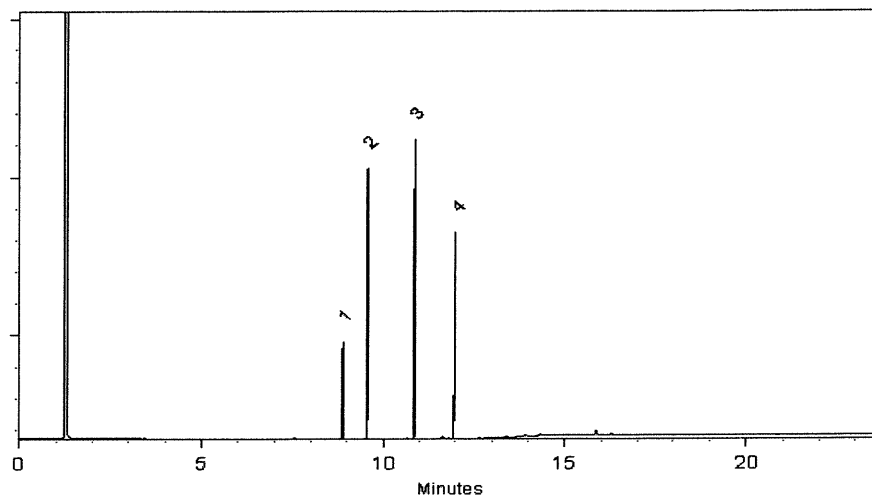
250°C

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



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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.

Catalog No. : 33913 **Lot No.:** A0186160

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 : May 31, 2028 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

Received on
09/07/22
by
CG
S10778
to
S10782

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2-Methylnaphthalene-d10 CAS # 7297-45-2 (Lot EF-135) Purity 96%	2,015.0 µg/mL	+/- 11.8254 µg/mL Gravimetric +/- 90.7728 µg/mL Unstressed +/- 100.7207 µg/mL Stressed
2	Fluoranthene-d10 CAS # 93951-69-0 (Lot PR-20668) Purity 99%	2,007.0 µg/mL	+/- 11.7782 µg/mL Gravimetric +/- 90.4107 µg/mL Unstressed +/- 100.3188 µg/mL 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:

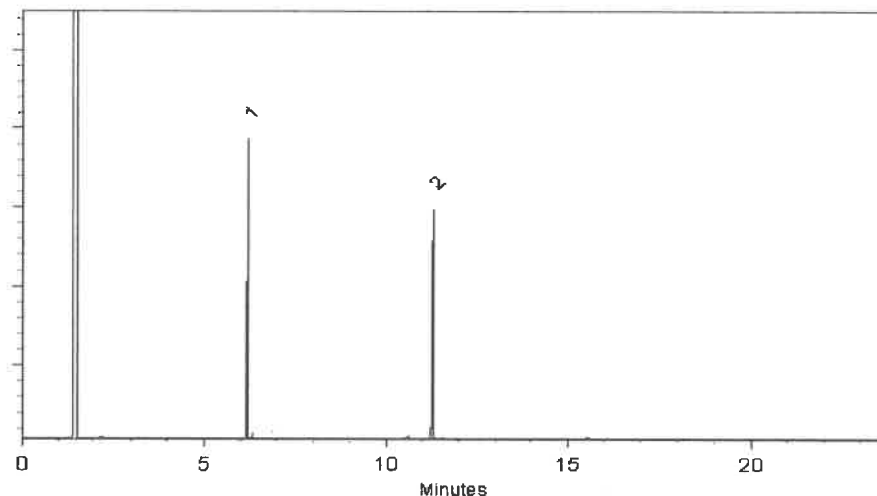
250°C

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.

John Friedline - Operations Technician I

Date Mixed: 09-Jun-2022

Balance: B442140311

Martina Cowan - Operations Tech II ARM QC

Date Passed: 13-Jun-2022

Manufactured under Restek's ISO 9001:2015
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ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01



ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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.:** A0188108
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 : August 31, 2030 **Storage:** 10°C or colder
Ship: Ambient

Received by
CG on
12/28/22
S10951
to
S10980

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2-Fluorophenol CAS # 367-12-4 Purity 99% (Lot STBF3761V)	10,088.5 µg/mL	+/- 58.6554 µg/mL Gravimetric +/- 294.4162 µg/mL Unstressed +/- 357.2628 µg/mL Stressed
2	Phenol-d6 CAS # 13127-88-3 Purity 99% (Lot PR-31262)	10,043.3 µg/mL	+/- 58.3923 µg/mL Gravimetric +/- 293.0957 µg/mL Unstressed +/- 355.6603 µg/mL Stressed
3	2,4,6-Tribromophenol CAS # 118-79-6 Purity 99% (Lot MKCJ7664)	10,010.0 µg/mL	+/- 58.1990 µg/mL Gravimetric +/- 292.1253 µg/mL Unstressed +/- 354.4829 µg/mL Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

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:

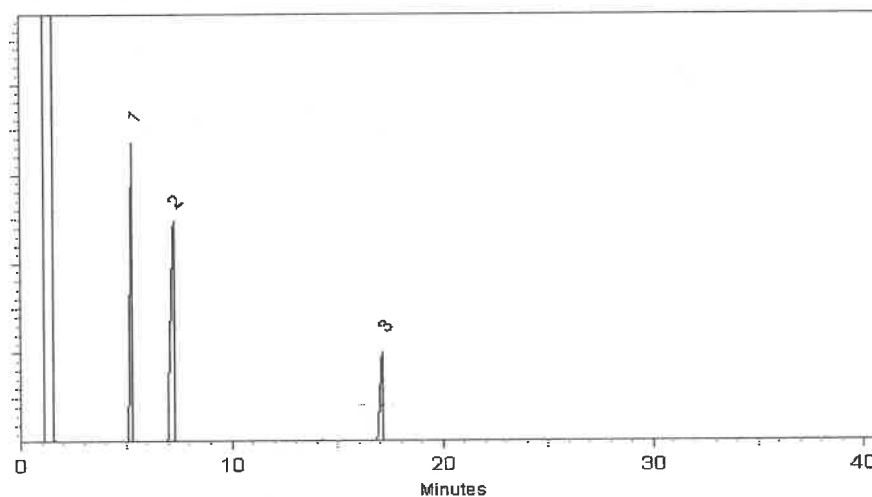
250°C

Det. Temp:

330°C

Det. Type:

FID



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: 02-Aug-2022

Balance: 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 05-Aug-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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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.

Catalog No. : 31086 **Lot No.:** A0189418
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 : August 31, 2028 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

Received by
CG on
12/28/22
\$10981
to
S11010

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Nitrobenzene-d5 CAS # 4165-60-0 (Lot PR-29940A) Purity 99%	5,009.8 µg/mL	+/- 29.1271 µg/mL Gravimetric +/- 225.6421 µg/mL Unstressed +/- 250.3778 µg/mL Stressed
2	2-Fluorobiphenyl CAS # 321-60-8 (Lot 00021384) Purity 99%	5,026.6 µg/mL	+/- 29.2250 µg/mL Gravimetric +/- 226.4003 µg/mL Unstressed +/- 251.2191 µg/mL Stressed
3	p-Terphenyl-d14 CAS # 1718-51-0 (Lot PR-30504) Purity 99%	5,027.3 µg/mL	+/- 29.2289 µg/mL Gravimetric +/- 226.4304 µg/mL Unstressed +/- 251.2524 µg/mL Stressed

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.

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:

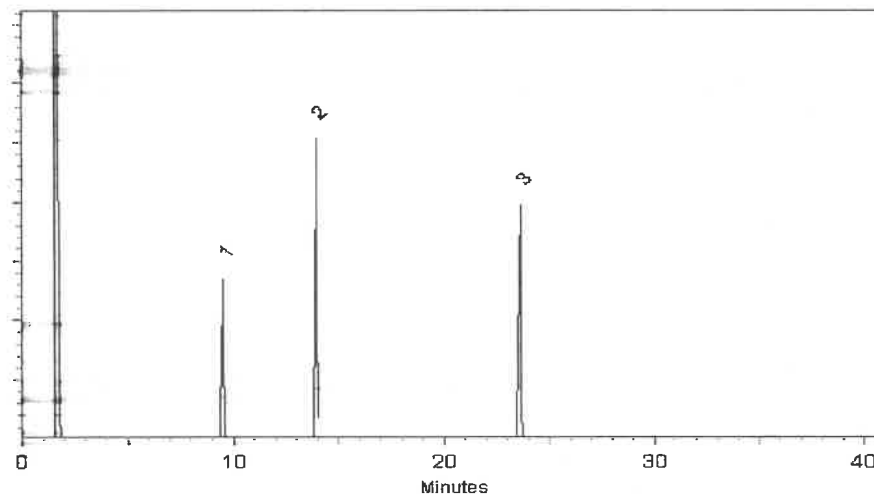
250°C

Det. Temp:

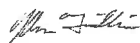
330°C

Det. Type:

FID



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.


John Friedline - Operations Technician I

Date Mixed: 09-Sep-2022

Balance: 1128353505


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Sep-2022

Manufactured under Restek's ISO 9001:2015
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Certificate #FM 80397



110 Benner Circle
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Certificate of Analysis

gravimetric



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555872 **Lot No.:** A0193449

Description : Custom Pentachlorophenol Standard

Custom Pentachlorophenol Standard 25,000µg/mL, Methanol,
1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

Received on
01/13/23
by
CG
S11011
+0
S11015

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP221012	99%	25,050.0 µg/mL	+/- 778.6378

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Russ Bookhamer

Russ Bookhamer - Operations Technician I

Date Mixed: 11-Jan-2023

Balance: B442140311

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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MONTERREY, N.L. MEXICO
CP 64070
TEL +52 81 13 52 57 57
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na ₂ SO ₄
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na ₂ SO ₄)	Min. 99.0%	99.7 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.1
Insoluble matter	Max. 0.01%	0.005 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO ₄)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.002 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.003 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreign matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.1 %
Retained on US Standard No. 60 sieve	Min. 94%	97.3 %
Through US Standard No. 60 sieve	Max. 5%	2.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %

COMMENTS

QC: PhC Irma Belmares

If you need further details, please call our factory or contact our local distributor.

Recd. by R3 on 7/24/23 E 3551

RC-02-01, Ed. 3



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.

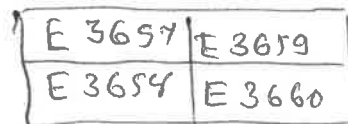
This document has been electronically produced and is valid without a signature.

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)



Material No.: 9266-A4
Batch No.: 24C0162011
Manufactured Date: 2024-01-04
Expiration Date: 2025-04-04
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	2
Assay (CH ₂ Cl ₂) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8 \%$	100.0 %
Color (APHA)	≤ 10	10
Residue after Evaporation	$\leq 1.0 \text{ ppm}$	0.2 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	$\leq 10 \text{ ppm}$	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02 \%$	< 0.01 %

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC
Manufacturer source batch: MG24A04224

E 3746

Ken Koehnlein
Sr. Manager, Quality Assurance

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4
Batch No.: 24D1962005
Manufactured Date: 2024-03-16
Expiration Date: 2025-06-15
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	8
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8 \%$	99.9 %
Color (APHA)	≤ 10	5
Residue after Evaporation	$\leq 1.0 \text{ ppm}$	0.1 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	$\leq 10 \text{ ppm}$	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02 \%$	< 0.01 %

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC
Manufacturer source batch: MG24C16563

E 3759

Jamie Croak
Director Quality Operations, Bioscience Production

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4
Batch No.: 24E2462004
Manufactured Date: 2024-04-10
Expiration Date: 2025-07-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	3
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	3
Assay (CH ₂ Cl ₂) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8 \%$	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	$\leq 1.0 \text{ ppm}$	0.1 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	$\leq 10 \text{ ppm}$	5 ppm
Water (by KF, coulometric)	$\leq 0.02 \%$	< 0.01 %

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC
Manufacturer source batch: MG24D10725

E 3768

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.: 24F1062004
Manufactured Date: 2024-04-15
Expiration Date: 2025-07-15
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	7
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	$\leq 1.0 \text{ ppm}$	0.1 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	$\leq 10 \text{ ppm}$	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	< 0.01 %

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC
Manufacturer source batch: MG24D15750

E 3786

Jamie Croak
Director Quality Operations, Bioscience Production

Acetone

BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

Avantor™



Material No.: 9254-03
Batch No.: 23H1462005
Manufactured Date: 2023-07-26
Expiration Date: 2026-07-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	≥ 99.4 %	99.7 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (μeq/g)	≤ 0.3	0.1
Titration Base (μeq/g)	≤ 0.6	< 0.1
Water (H ₂ O)	≤ 0.5 %	0.3 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd by RP on 8/13/24

E 3788

Ken Koehnlein
Sr. Manager, Quality Assurance

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™



Material No.: 9266-A4
Batch No.: 24G2362009
Manufactured Date: 2024-06-10
Expiration Date: 2025-09-09
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	2
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1
Assay (CH ₂ Cl ₂) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8 \%$	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	$\leq 1.0 \text{ ppm}$	0.3 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	$\leq 10 \text{ ppm}$	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02 \%$	< 0.01 %

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC
Manufacturer source batch: MG24F10024

E 3791

J. Croak

Janie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700
Page 1 of 1

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4

Batch No.: 24H2762011

Manufactured Date: 2024-06-05

Expiration Date: 2025-09-04

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	2
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	5
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	$< 0.01\%$

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E 3817

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor



Material No.: 9254-03
Batch No.: 24H1462005
Manufactured Date: 2024-05-24
Expiration Date: 2027-05-24
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected forwater)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (µeq/g)	<= 0.3	0.2
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	0.2 %
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd by RP on 10/9/24

E 3818

J. Croak

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA, 19087, U.S.A. Phone 610.386.1700

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

 **avantor**™



Material No.: 9266-A4

Batch No.: 24J0862003

Manufactured Date: 2024-09-12

Expiration Date: 2025-12-12

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	2
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	1
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	$< 0.01\%$

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E 3828



Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

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



5580 Skyline Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Page 1 of 1

Catalog No.: Lot No.:	Storage:	Solvent:	Exp. Date:	Rev	Description:
Z-110094-02 506889	≤ -10 °C	Methylene Chloride	7/25/2028	0	CLP Base/Neutral Surrogate Solution, 5,000 mg/L, 1 ml
Compound		CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2-dichlorobenzene-d ₄		2199-69-1	99.7	247.29.3P	5035 ± 28.02
2-fluorobiphenyl		321-60-8	99.69	8.286.1.1P	4999 ± 103.66
nitrobenzene-d5		4165-60-0	99.67	7.9.3P	4988 ± 27.32
p-terphenyl-d14		1718-51-0	99.3	9.120.8P	5005 ± 27.85

511494 } Y.P.
↓ 08/11/2023
511498

*Not a certified value

Certified By: _____
Clint Tipton
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0201940
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 : September 30, 2025 **Storage:** 10°C or colder
Handling: This product is photosensitive. **Ship:** Ambient

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51568
} 7.P.
09/19/

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	S230321RSR	99%	1,001.0 µg/mL	+/- 22.9799
2	Atrazine	1912-24-9	5FYWL	99%	1,010.0 µg/mL	+/- 23.1865
3	Benzidine	92-87-5	S221205RSR	99%	1,008.0 µg/mL	+/- 23.1406
4	epsilon-Caprolactam	105-60-2	I16X016	99%	1,008.0 µg/mL	+/- 23.1406

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

REVIEWED

By Jennifer Pollino at 7:10 am, Sep 13, 2023

Sam Moodler - Operations Tech I

Date Mixed: 13-Sep-2023

Balance: B345965662

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31853 **Lot No.:** A0196453
Description : 1,4-dioxane
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : March 31, 2028 **Storage:** 0°C or colder
Ship: Ambient

S11749
↓
S11794 } RC / 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant flow 1.8 mL/min.

Temp. Program:

80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

Inj. Temp:

250°C

Det. Temp:

340°C

Det. Type:

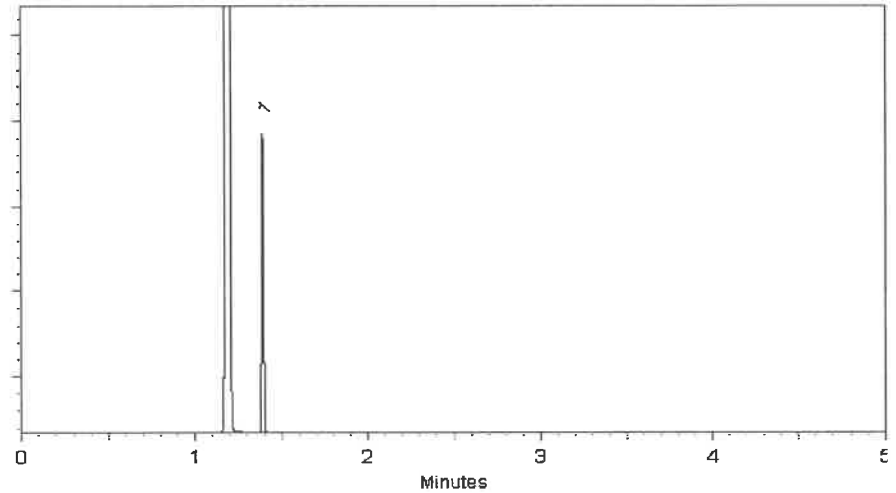
FID

Split Vent:

100 mL/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023

Balance Serial # B707717271

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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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. : 31853 **Lot No.:** A0196453
Description : 1,4-dioxane
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : March 31, 2028 **Storage:** 0°C or colder
Ship: Ambient

S11749
↓
S11794 } RC / 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant flow 1.8 mL/min.

Temp. Program:

80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

Inj. Temp:

250°C

Det. Temp:

340°C

Det. Type:

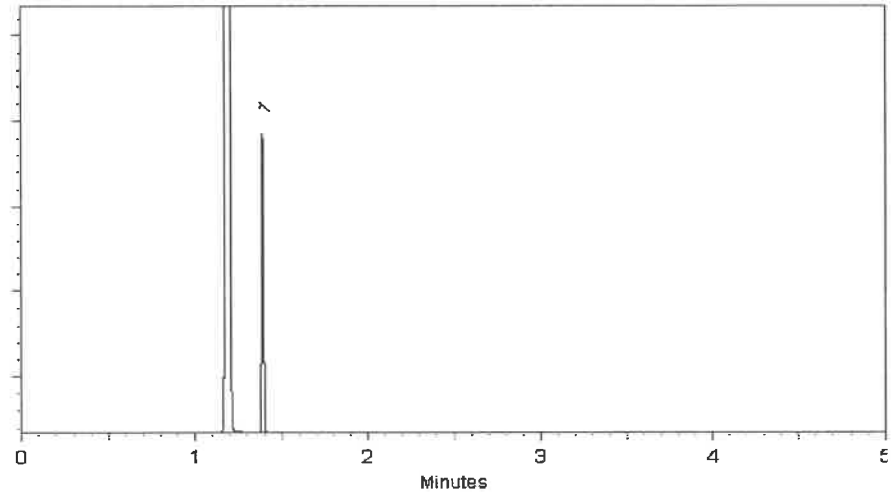
FID

Split Vent:

100 mL/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023

Balance Serial # B707717271

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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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:

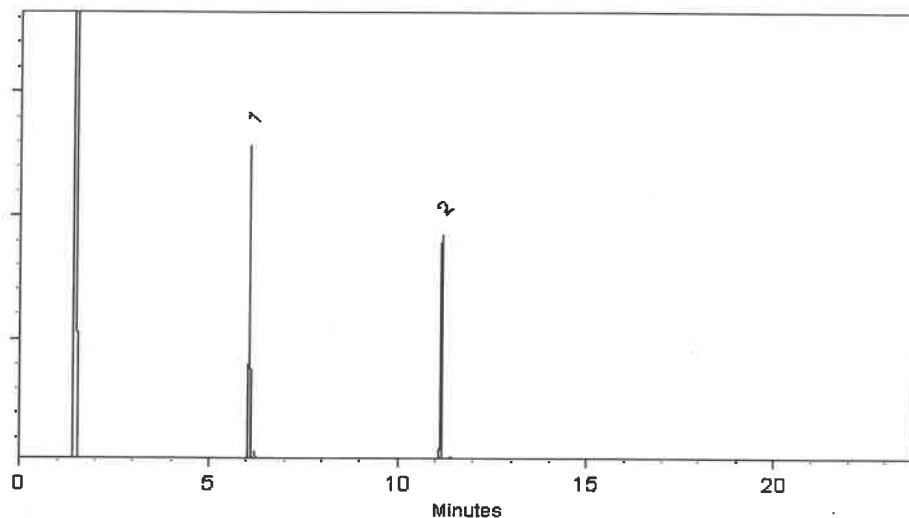
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl

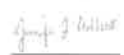


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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.
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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.:** A0201320

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 : July 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12013
↓
S12042 } RC
12/26/23

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%	2,017.0 µg/mL	+/- 90.8469
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,011.3 µg/mL	+/- 90.5917
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,008.6 µg/mL	+/- 90.4685
4	Phenanthrene-d10	1517-22-2	PR-32303	99%	2,019.4 µg/mL	+/- 90.9550
5	Chrysene-d12	1719-03-5	PR-32210	99%	2,013.7 µg/mL	+/- 90.6968
6	Perylene-d12	1520-96-3	PR-33205	99%	2,012.7 µg/mL	+/- 90.6517

* 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:

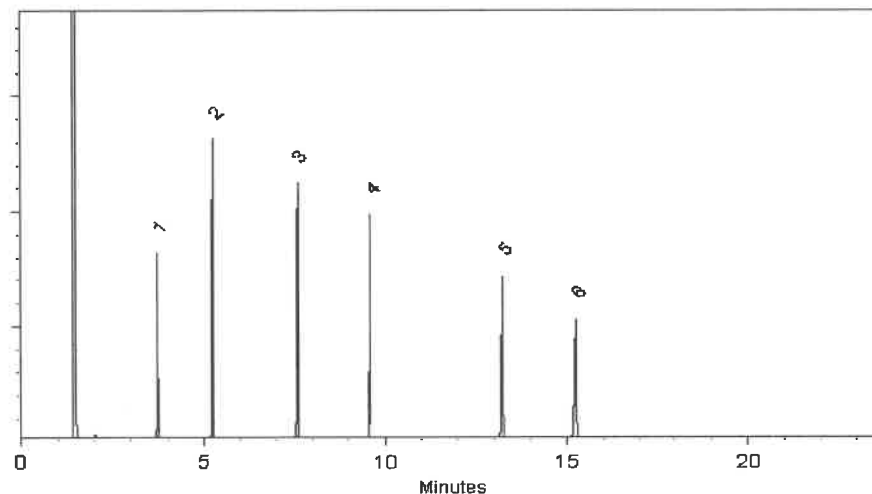
FID

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.

Peter Robbins - Operations Technician I

Date Mixed: 23-Aug-2023

Balance Serial # B345965662

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 25-Aug-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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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

912075 } RC
↓
912079 } 02/01/24

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: 
Shane Overcash
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.



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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

912075 } RC
↓
912079 } 02/01/24

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: _____

Shane Overcash
Chemist

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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. : 555224 **Lot No.:** A0207706

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 2026 **Storage:** 10°C or colder

Ship: Ambient

512082 } RC/
↓
512111 } 02/22/24

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,001.0 µg/mL	+/- 29.424320
2	Acetophenone	98-86-2	STBH8205	99%	1,004.0 µg/mL	+/- 29.512504
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,005.0 µg/mL	+/- 29.541899
4	Benzoic acid	65-85-0	MKCR2694	99%	1,003.0 µg/mL	+/- 29.483110
5	Biphenyl	92-52-4	MKCL6515	99%	1,006.0 µg/mL	+/- 29.571294

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

John Friedline - Operations Technician I

Date Mixed: 12-Feb-2024

Balance: B345965662



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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.:** A0207706

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 2026 **Storage:** 10°C or colder

Ship: Ambient

512082 } RC/
↓
512111 } 02/22/24

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,001.0 µg/mL	+/- 29.424320
2	Acetophenone	98-86-2	STBH8205	99%	1,004.0 µg/mL	+/- 29.512504
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,005.0 µg/mL	+/- 29.541899
4	Benzoic acid	65-85-0	MKCR2694	99%	1,003.0 µg/mL	+/- 29.483110
5	Biphenyl	92-52-4	MKCL6515	99%	1,006.0 µg/mL	+/- 29.571294

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

John Friedline - Operations Technician I

Date Mixed: 12-Feb-2024

Balance: B345965662



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Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:	
Z-020223-01	454157	≤ -10 °C	P/T Methanol	6/10/2026	1,4-Dioxane Solution, 2000 mg/L, 1 mL	
Compound			CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,4-dioxane			123-91-1	100	223.1.3P	1997 ± 57.08

512112 } RC/
↓
912116 } 03/08/24

*Not a certified value

Certified By: _____

Melissa Workoff
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



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Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:	
Z-020223-01	454157	≤ -10 °C	P/T Methanol	6/10/2026	1,4-Dioxane Solution, 2000 mg/L, 1 mL	
Compound			CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,4-dioxane			123-91-1	100	223.1.3P	1997 ± 57.08

512112 } RC/
↓
912116 } 03/08/24

*Not a certified value

Certified By: _____

Melissa Workoff
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



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Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

512117 } RC/
↓ 03/18/24
512146 }

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/- 36.5988
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876
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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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

512117 } RC/
↓ 03/18/24
512146 }

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/- 36.5988
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876
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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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31087 **Lot No.:** A0206206
Description : Acid Surrogate Mix (4/89 SOW)
Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : January 31, 2032 **Storage:** 10°C or colder
Ship: Ambient

512187 } RC/
↓ } 03/18/24
512206 }

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

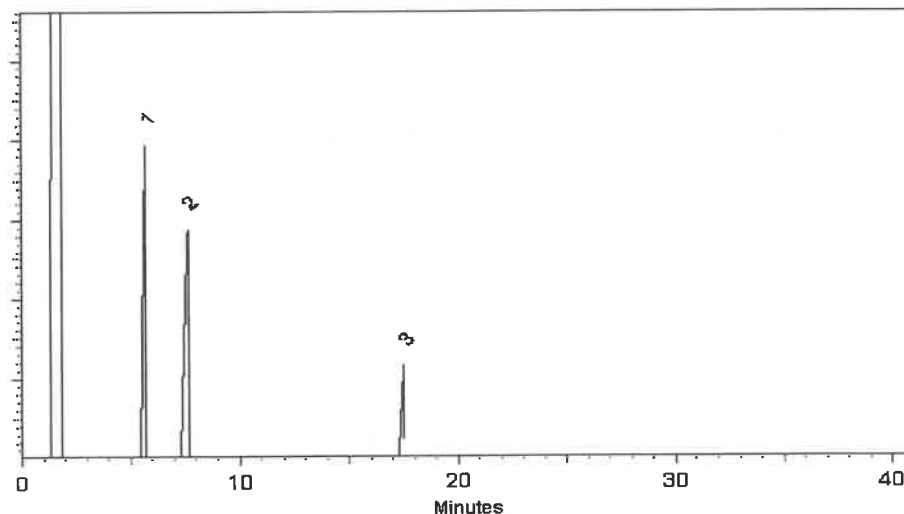
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope S. Riglin

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024

Balance Serial # 1128360905

Christie Mills

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31086 **Lot No.:** A0206381
Description : B/N Surrogate Mix (4/89 SOW)
Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : December 31, 2029 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

S12207 } RC/
↓
S12221 } 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-S (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

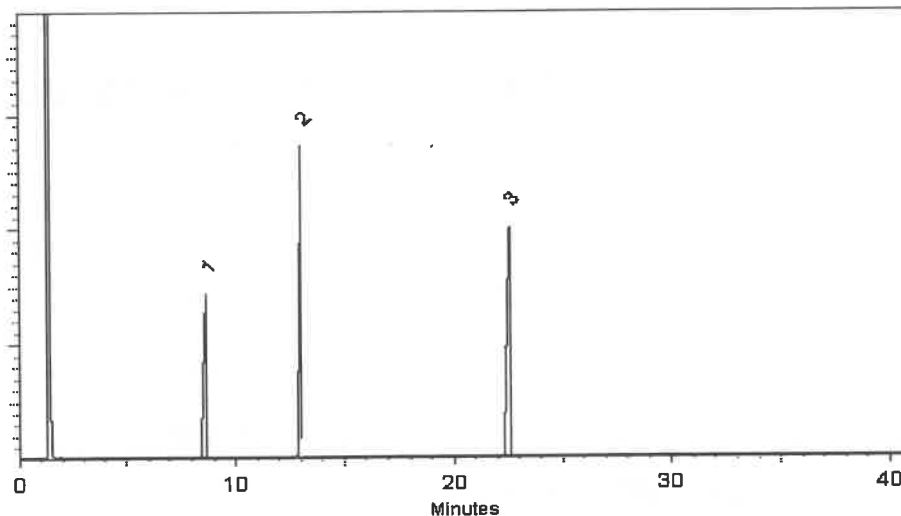
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024 Balance Serial # 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31206 **Lot No.:** A0206540

Description : SV Internal Standard Mix 2mg/ml
SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12312 } RC/
↓ 05/30/24
S12331

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,007.1 µg/mL	+/- 90.4025
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,005.9 µg/mL	+/- 90.3454
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,007.9 µg/mL	+/- 90.4385
4	Phenanthrene-d10	1517-22-2	PR-32303	99%	2,006.7 µg/mL	+/- 90.3845
5	Chrysene-d12	1719-03-5	PR-32210	99%	2,015.5 µg/mL	+/- 90.7778
6	Perylene-d12	1520-96-3	PR-33205	99%	2,014.7 µg/mL	+/- 90.7448

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

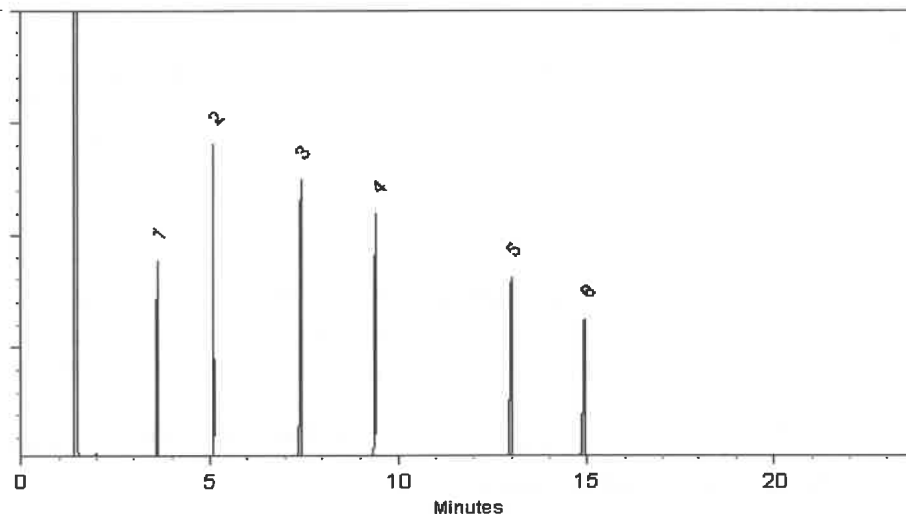
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Malina Homan
Malina Homan - Operations Technician I

Date Mixed: 12-Jan-2024

Balance Serial # 1128360905

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Jan-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 } RC/
↓
S12508 } 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024

Balance: 1128353505

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



SHIPPING DOCUMENTS

CHEMTECH

CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO.

QUOTE NO.

COC Number

P4934/
2041988P4935

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: Tetra Tech

ADDRESS: 4433 Corporation Lane Suite 300

CITY: Virginia Beach STATE: ZIP: 23462

ATTENTION: Ernie Wu

PHONE: 757 466 4901

FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: NWERP Bathpage

PROJECT NO. 112608005-WB13 LOCATION:

PROJECT MANAGER: Ernie Wu

e-mail: ernie.wu at tetratech.com

PHONE: 757 466 4901

FAX:

CLIENT BILLING INFORMATION

BILL TO: See Contract

PO#:

ADDRESS:

CITY

STATE:

ZIP:

ATTENTION:

PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) 72 Hours (3) DAYS*

HARDCOPY (DATA PACKAGE): DAYS*

EDD: DAYS*

*TO BE APPROVED BY CHEMTECH

STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B
+ Raw Data ☐ Other _____
☐ EDD FORMAT _____

1 VOC's \$260B
2 14-Dioxane \$270D
3 14-Dioxane EPA
4 522

PRESERVATIVES

COMMENTS

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES										COMMENTS
			COMP	GRAB	DATE	TIME		AE	E	EF							
1.	TB-01-20241118	A9		✓	11/18/24	12:00	2	2									Lab supplied Tetra Blank
2.	BPOW6-11-20241118	GW		✓	11/18/24	14:15	5	2	1	2							
3.	BPOW6-7-20241118	GW		✓	11/18/24	16:15	5	2	1	2							
4.	DUP-01-20241118	GW		✓	11/18/24	12:00	5	2	1	2							
5.	BPOW6-10-20241119	GW		✓	11/19/24	11:00	15	6	3	6							DO MS/MSD
6.	BPOW6-9-20241119	GW		✓	11/19/24	12:55	5	2	1	2							
7.	FB-01-20241119	GW		✓	11/19/24	13:30	5	2	1	2							
8.	BPOW6-8-20241119	GW		✓	11/19/24	15:05	5	2	1	2							
9.	RB-01-20241119	A9		✓	11/19/24	16:30	5	2	1	2							
10.	DUP-02-20241119	GW		✓	11/19/24	12:00	5	2	1	2							

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME: 1100	RECEIVED BY:	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP: 2.2 °C
1. Charles Meyer	11/20/24	1. [Signature]	Comments:
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	
2.		2.	
RELINQUISHED BY SAMPLER:	DATE/TIME: 1451	RECEIVED BY:	
3. [Signature]	11-20-24	3.	

Page ____ of ____

CLIENT: ☐ Hand Delivered ☐ Other _____
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete
☐ YES ☐ NO



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

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 : P4934	TETR06	Order Date : 11/20/2024 11:23:00 AM	Project Mgr :
Client Name : Tetra Tech NUS, Inc.		Project Name : CTO WE13	Report Type : Level 4
Client Contact : Ernie Wu		Receive DateTime : 11/20/2024 2:51:00 PM	EDD Type : ADAPT
Invoice Name : Tetra Tech NUS, Inc.		Purchase Order :	Hard Copy Date :
Invoice Contact : Ernie Wu			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P4934-01	~~TB-01-20241118~~ TB01-20241118	Water	11/18/2024	12:00					
					VOCMS Group1		8260-Low		3 Bus. Days
P4934-02	BPOW6-11-20241118	Water	11/18/2024	14:15					
					VOCMS Group1		8260-Low		3 Bus. Days
P4934-03	BPOW6-7-20241118	Water	11/18/2024	16:15					
					VOCMS Group1		8260-Low		3 Bus. Days
P4934-04	~~DUP-01-20241118~~ DUP01-20241118	Water	11/18/2024	12:00					
					VOCMS Group1		8260-Low		3 Bus. Days
P4934-05	~~BPOW6-10-20241118~~ BPOW6-10-20241119	Water	11/19/2024	11:00					
					VOCMS Group1		8260-Low		3 Bus. Days
P4934-06	P4934-05MS	Water	11/19/2024	11:00					
					VOCMS Group1		8260-Low		3 Bus. Days
P4934-07	P4934-05MSD	Water	11/19/2024	11:00					
					VOCMS Group1		8260-Low		3 Bus. Days
P4934-08	~~BPOW6-9-20241118~~ BPOW6-9-20241119	Water	11/19/2024	12:55					

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P4934 TETR06

Order Date : 11/20/2024 11:23:00 AM

Project Mgr :

Client Name : Tetra Tech NUS, Inc.

Project Name : CTO WE13

Report Type : Level 4

Client Contact : Ernie Wu

Receive DateTime : 11/20/2024 2:51:00 PM

EDD Type : ADAPT

Invoice Name : Tetra Tech NUS, Inc.

Purchase Order :

Hard Copy Date :

Invoice Contact : Ernie Wu

Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P4934-09	~~FB-01-20241119~~ FB01-20241119	Water	11/19/2024	13:30	VOCMS Group1		8260-Low		3 Bus. Days
P4934-10	~~BPOW6-8-20241118~~ BPOW6-8-20241119	Water	11/19/2024	15:05	VOCMS Group1		8260-Low		3 Bus. Days
P4934-11	~~RB-01-20241119~~ RB01-20241119	Water	11/19/2024	16:30	VOCMS Group1		8260-Low		3 Bus. Days
P4934-12	~~DUP-02-20241119~~ DUP02-20241119	Water	11/19/2024	12:00	VOCMS Group1		8260-Low		3 Bus. Days

Relinquished By :

Date / Time :


11-20-24 1540

Received By :

Date / Time :


11/20/24 15:40

Storage Area : VOA Refridgerator Room

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
 Data File : BN035066.D
 Acq On : 13 Nov 2024 15:04
 Operator : RC/JU
 Sample : SSTDICC1.6
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC1.6

Quant Time: Nov 13 16:44:39 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 16:42:01 2024
 Response via : Initial Calibration

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

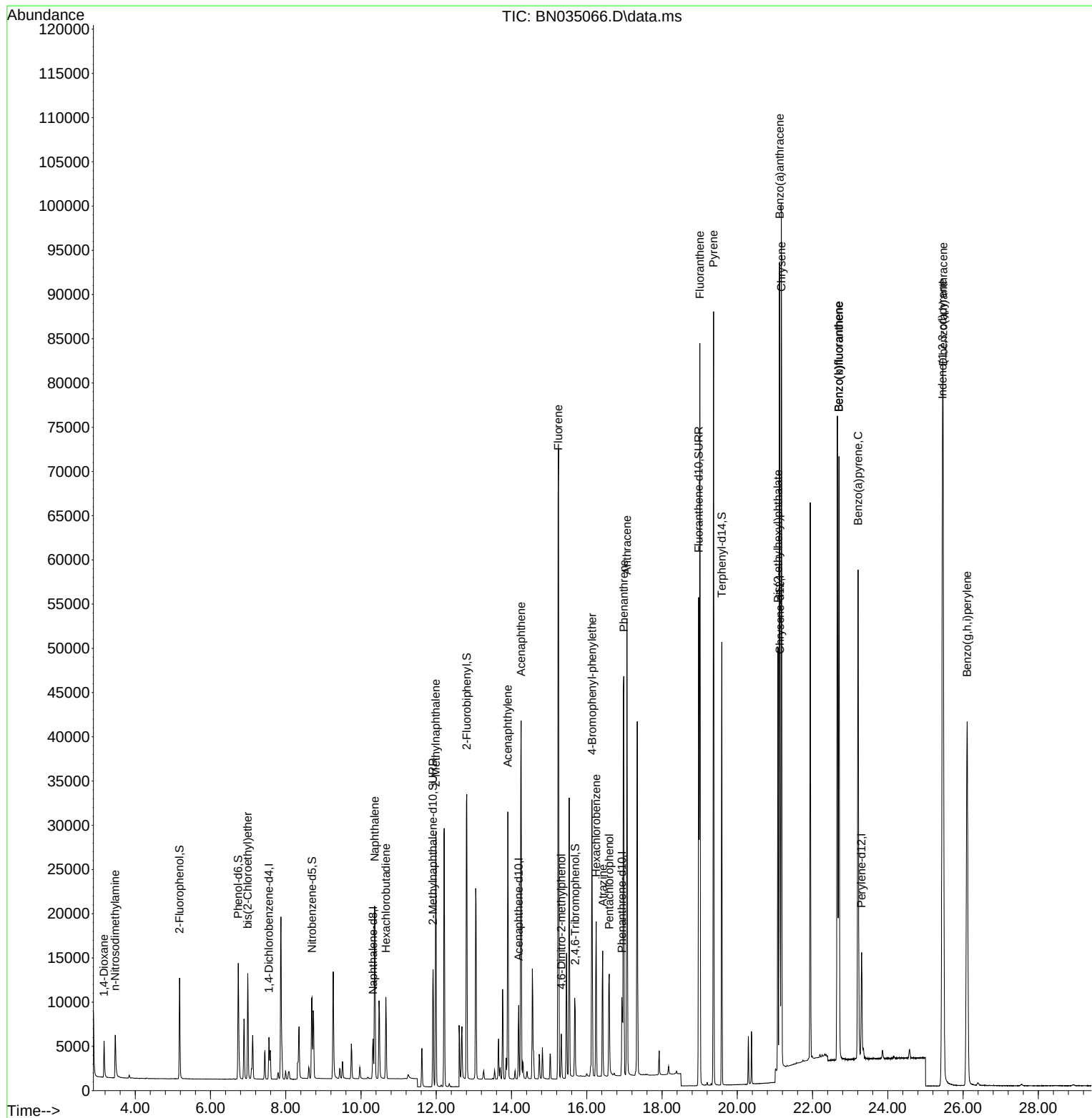
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.553	152	2280	0.400	ng	0.00
7) Naphthalene-d8	10.319	136	5826	0.400	ng	0.00
13) Acenaphthene-d10	14.190	164	4517	0.400	ng	0.00
19) Phenanthrene-d10	16.932	188	12068	0.400	ng	# 0.00
29) Chrysene-d12	21.133	240	13823	0.400	ng	# 0.00
35) Perylene-d12	23.303	264	15060	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	9427	1.629	ng	0.00
5) Phenol-d6	6.737	99	12023	1.657	ng	0.00
8) Nitrobenzene-d5	8.696	82	8306	1.643	ng	0.00
11) 2-Methylnaphthalene-d10	11.912	152	17545	1.690	ng	0.00
14) 2,4,6-Tribromophenol	15.691	330	5402	1.659	ng	0.00
15) 2-Fluorobiphenyl	12.811	172	30472	1.661	ng	0.00
27) Fluoranthene-d10	18.973	212	61972	1.676	ng	0.00
31) Terphenyl-d14	19.587	244	47914	1.652	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.169	88	3351	1.618	ng	98
3) n-Nitrosodimethylamine	3.465	42	3168	1.647	ng	# 97
6) bis(2-Chloroethyl)ether	6.990	93	9071	1.665	ng	99
9) Naphthalene	10.362	128	25283	1.662	ng	98
10) Hexachlorobutadiene	10.660	225	7338	1.646	ng	# 99
12) 2-Methylnaphthalene	11.988	142	18997	1.693	ng	99
16) Acenaphthylene	13.901	152	32064	1.661	ng	99
17) Acenaphthene	14.254	154	20910	1.653	ng	99
18) Fluorene	15.238	166	30868	1.659	ng	99
20) 4,6-Dinitro-2-methylph...	15.323	198	4259	1.695	ng	# 84
21) 4-Bromophenyl-phenylether	16.138	248	12888	1.676	ng	# 86
22) Hexachlorobenzene	16.250	284	13172	1.651	ng	99
23) Atrazine	16.424	200	11471	1.663	ng	# 93
24) Pentachlorophenol	16.597	266	6275	1.683	ng	98
25) Phenanthrene	16.982	178	52915	1.666	ng	99
26) Anthracene	17.069	178	49046	1.681	ng	100
28) Fluoranthene	19.006	202	73694	1.687	ng	100
30) Pyrene	19.368	202	75558	1.641	ng	100
32) Benzo(a)anthracene	21.125	228	78298	1.627	ng	100
33) Chrysene	21.169	228	78533	1.647	ng	98
34) Bis(2-ethylhexyl)phtha...	21.080	149	38807	1.549	ng	99
36) Indeno(1,2,3-cd)pyrene	25.452	276	99936	1.663	ng	100
37) Benzo(b)fluoranthene	22.701	252	84960	1.677	ng	96
38) Benzo(k)fluoranthene	22.701	252	84960	1.676	ng	# 95
39) Benzo(a)pyrene	23.209	252	74668	1.675	ng	# 94
40) Dibenzo(a,h)anthracene	25.469	278	79628	1.673	ng	98
41) Benzo(g,h,i)perylene	26.107	276	83498	1.649	ng	98

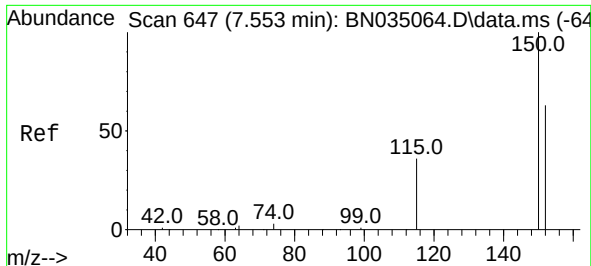
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
Data File : BN035066.D
Acq On : 13 Nov 2024 15:04
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

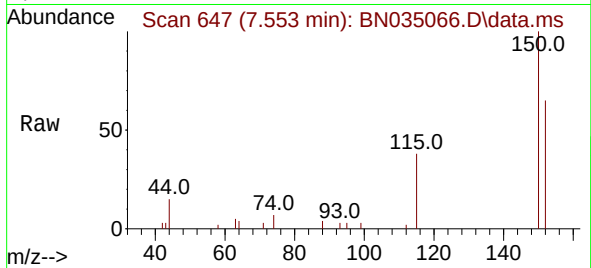
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 16:42:01 2024
Response via : Initial Calibration





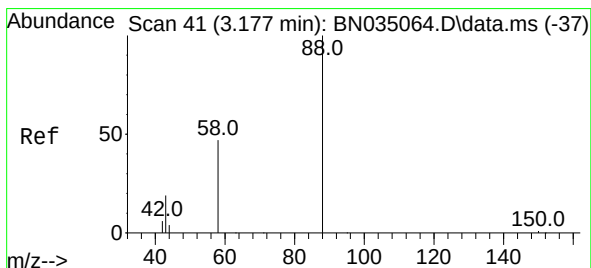
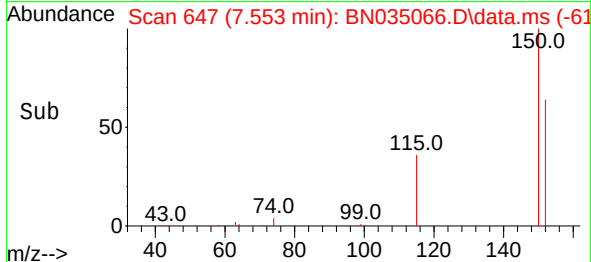
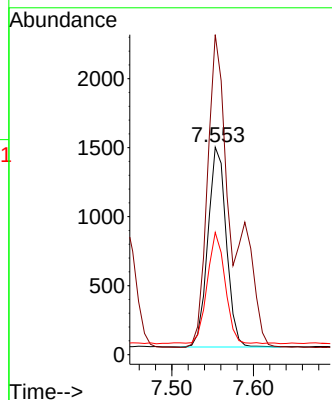
#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.553 min Scan# 64
 Delta R.T. 0.000 min
 Lab File: BN035066.D
 Acq: 13 Nov 2024 15:04

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC1.6



Tgt Ion:152 Resp: 2280

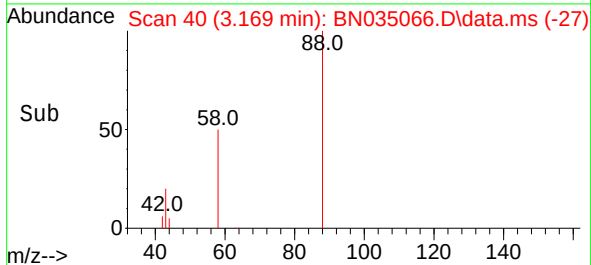
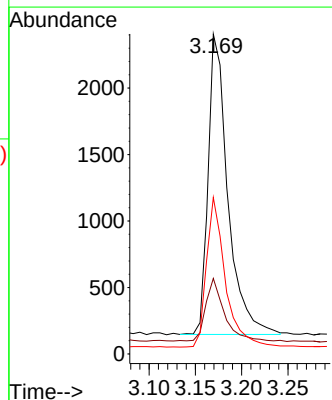
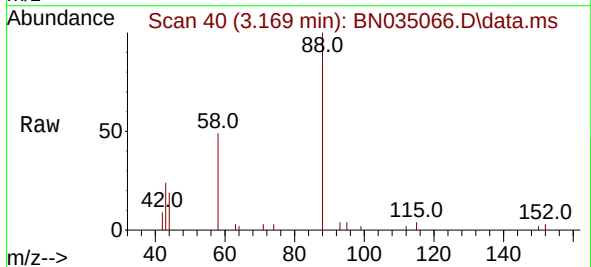
Ion	Ratio	Lower	Upper
152	100		
150	154.2	124.5	186.7
115	58.9	47.8	71.6

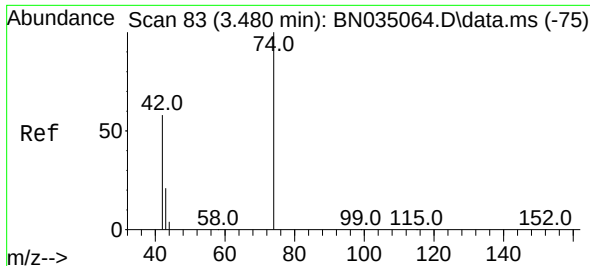


#2
 1,4-Dioxane
 Concen: 1.618 ng
 RT: 3.169 min Scan# 40
 Delta R.T. -0.007 min
 Lab File: BN035066.D
 Acq: 13 Nov 2024 15:04

Tgt Ion: 88 Resp: 3351

Ion	Ratio	Lower	Upper
88	100		
43	20.3	16.9	25.3
58	47.7	39.0	58.4

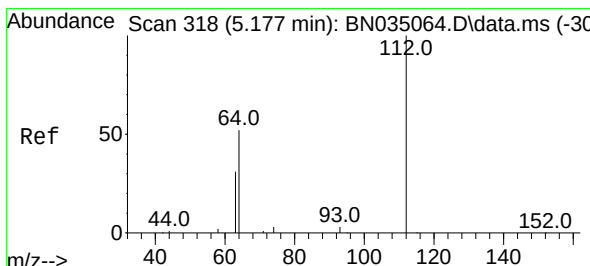
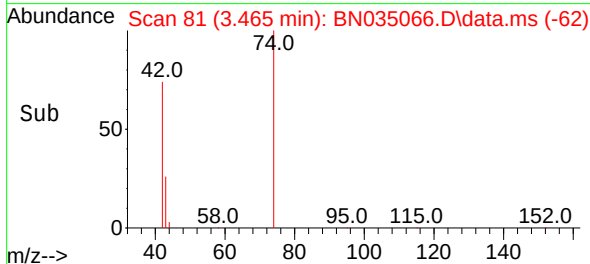
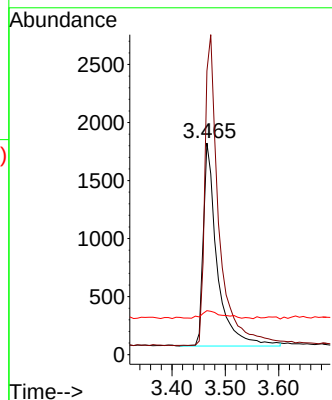
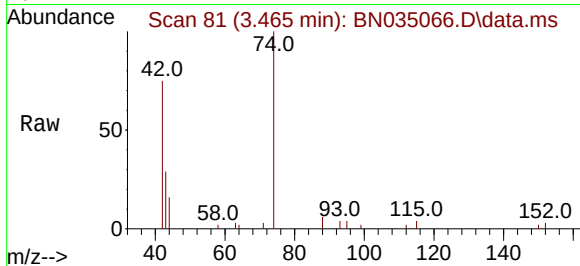




#3
n-Nitrosodimethylamine
Concen: 1.647 ng
RT: 3.465 min Scan# 81
Delta R.T. -0.015 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

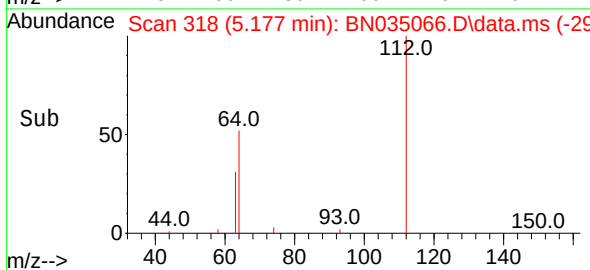
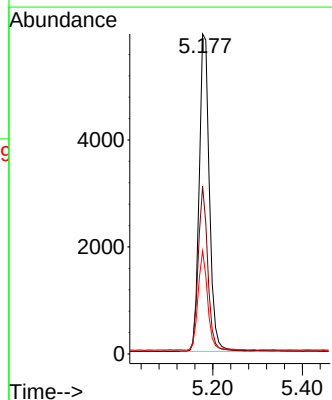
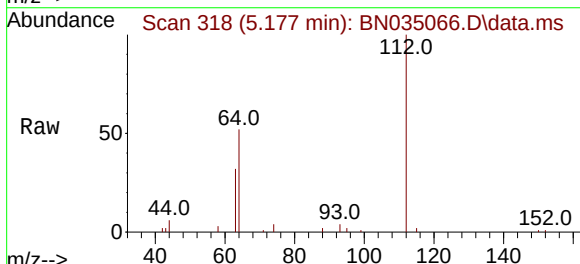
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

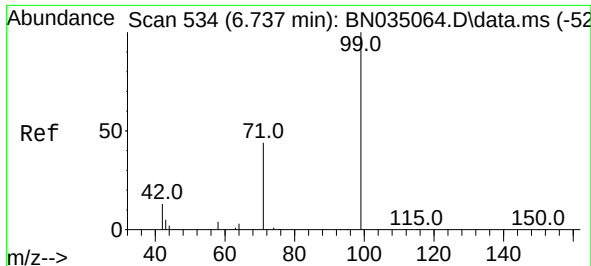
Tgt Ion: 42 Resp: 3168
Ion Ratio Lower Upper
42 100
74 155.0 120.8 181.2
44 6.3 2.9 4.3#



#4
2-Fluorophenol
Concen: 1.629 ng
RT: 5.177 min Scan# 318
Delta R.T. -0.000 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion: 112 Resp: 9427
Ion Ratio Lower Upper
112 100
64 48.8 39.7 59.5
63 29.4 23.0 34.4





#5

Phenol-d6

Concen: 1.657 ng

RT: 6.737 min Scan# 51

Delta R.T. -0.000 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

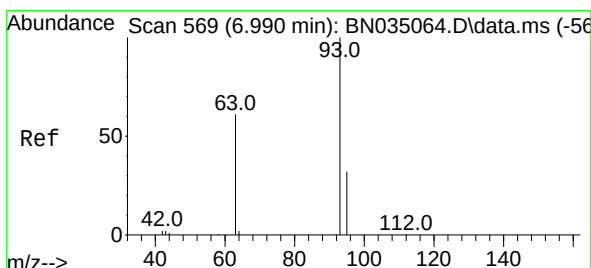
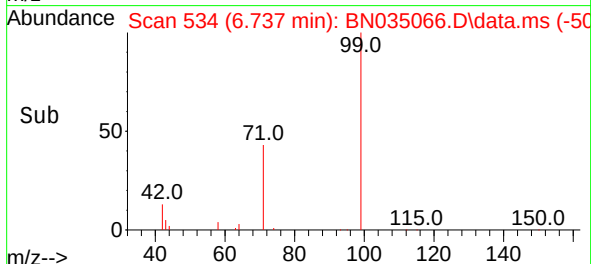
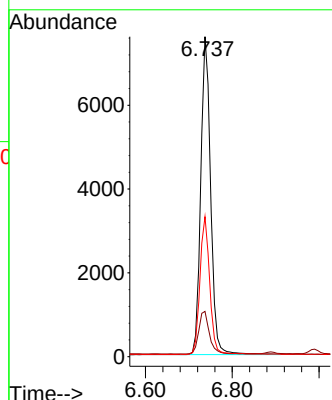
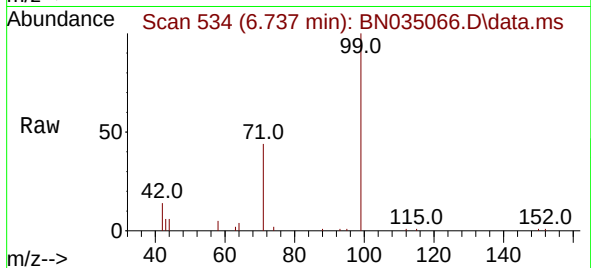
Tgt Ion: 99 Resp: 12023

Ion Ratio Lower Upper

99 100

42 14.5 11.4 17.0

71 42.9 34.6 51.8



#6

bis(2-Chloroethyl)ether

Concen: 1.665 ng

RT: 6.990 min Scan# 569

Delta R.T. -0.000 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

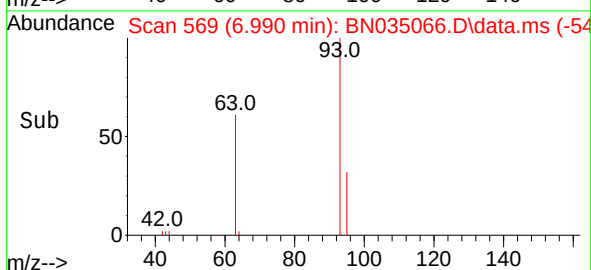
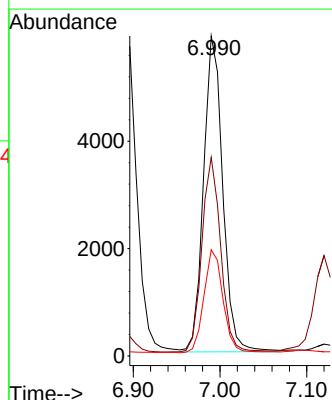
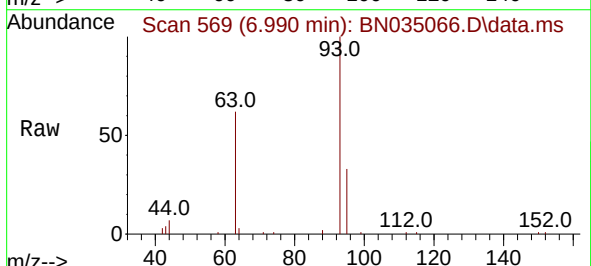
Tgt Ion: 93 Resp: 9071

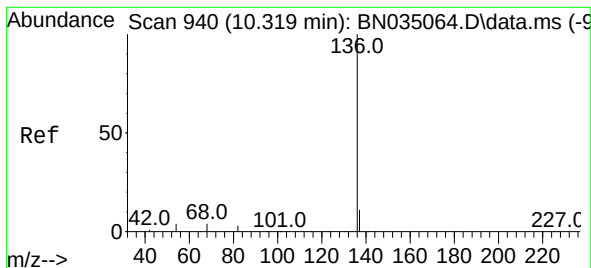
Ion Ratio Lower Upper

93 100

63 60.3 47.4 71.2

95 32.3 26.2 39.4





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.319 min Scan# 940

Delta R.T. -0.000 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

Tgt Ion:136 Resp: 5826

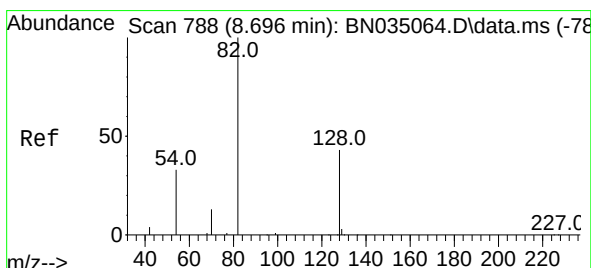
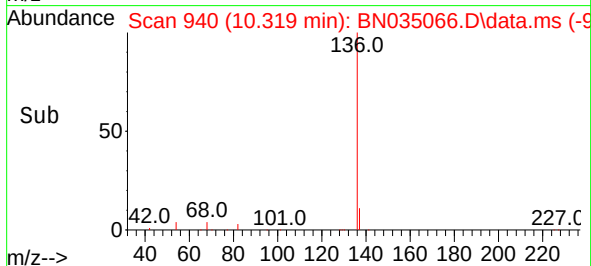
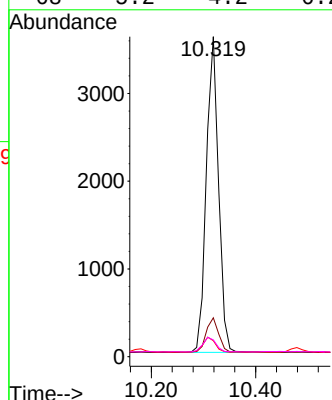
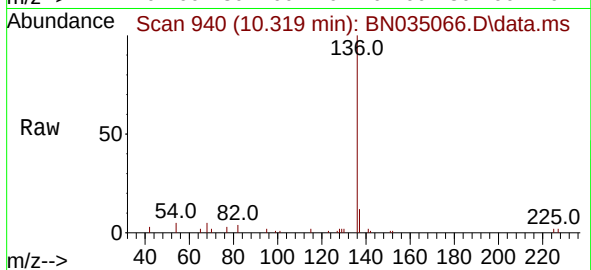
Ion Ratio Lower Upper

136 100

137 12.2 9.8 14.8

54 5.0 4.0 6.0

68 5.2 4.2 6.2



#8

Nitrobenzene-d5

Concen: 1.643 ng

RT: 8.696 min Scan# 788

Delta R.T. -0.000 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

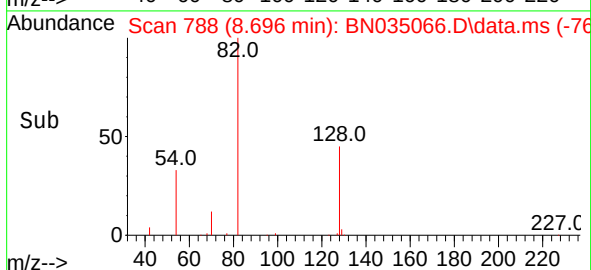
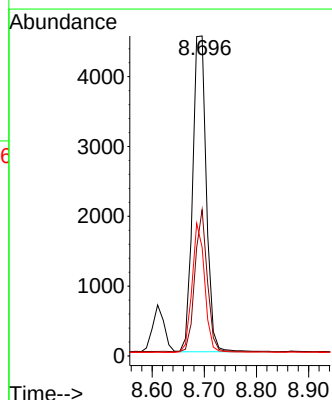
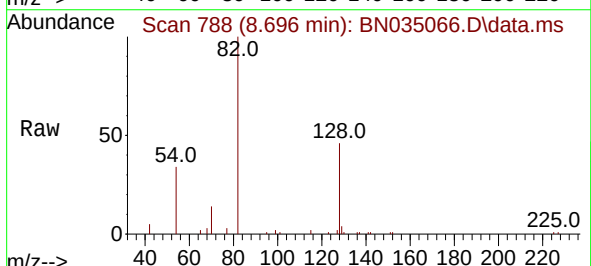
Tgt Ion: 82 Resp: 8306

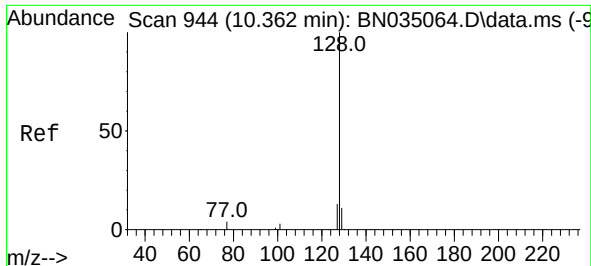
Ion Ratio Lower Upper

82 100

128 45.7 36.5 54.7

54 34.0 28.7 43.1

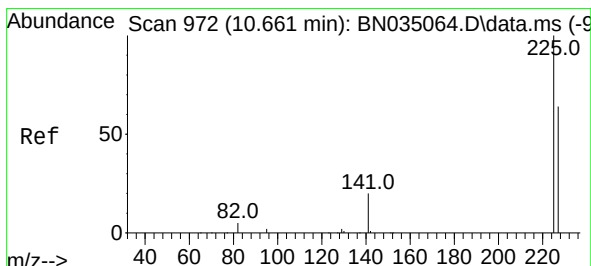
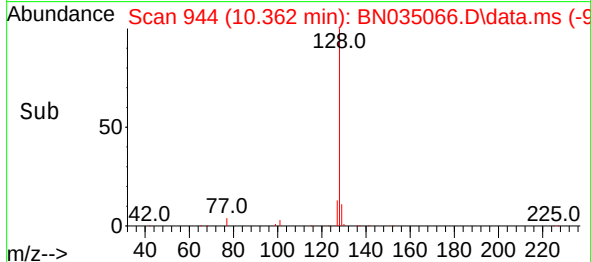
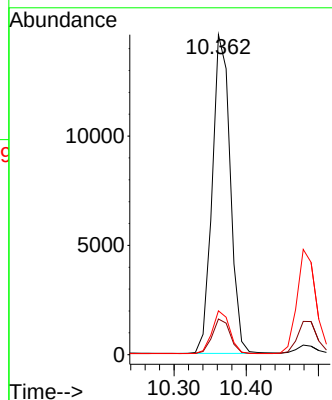
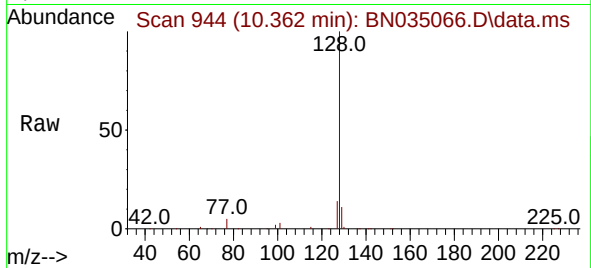




#9
Naphthalene
Concen: 1.662 ng
RT: 10.362 min Scan# 944
Delta R.T. -0.000 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

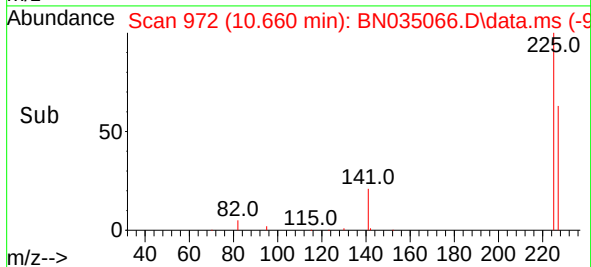
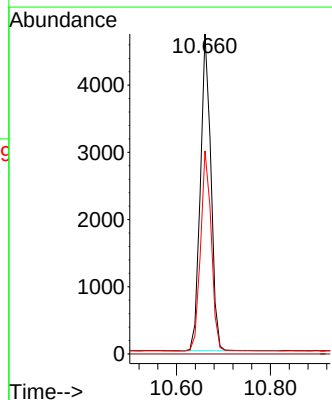
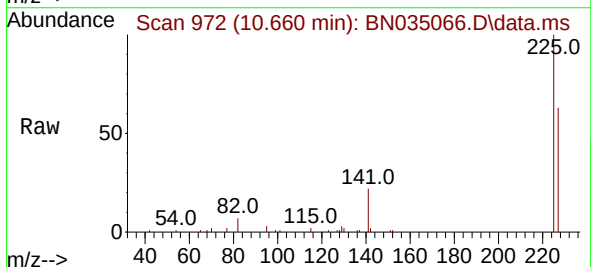
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

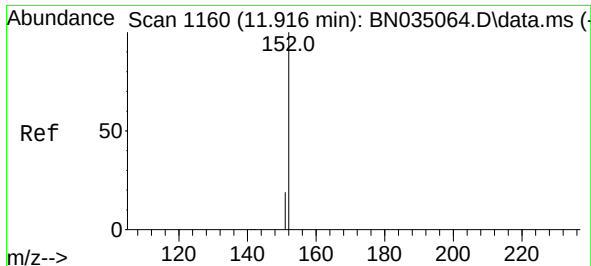
Tgt Ion:128 Resp: 25283
Ion Ratio Lower Upper
128 100
129 11.2 9.6 14.4
127 13.7 11.6 17.4



#10
Hexachlorobutadiene
Concen: 1.646 ng
RT: 10.660 min Scan# 972
Delta R.T. -0.000 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:225 Resp: 7338
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.0 51.5 77.3

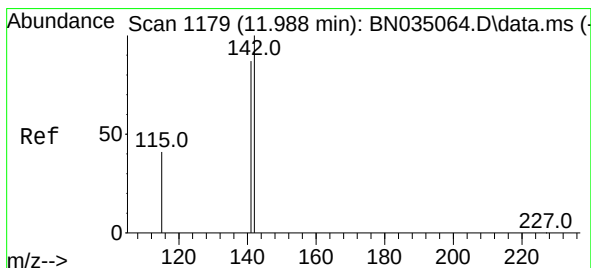
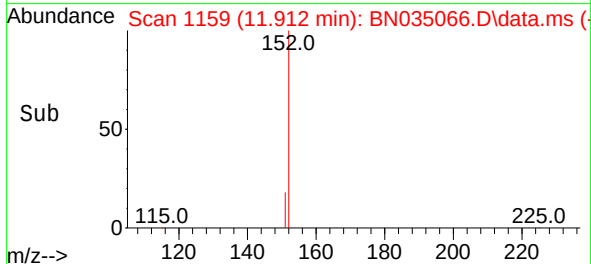
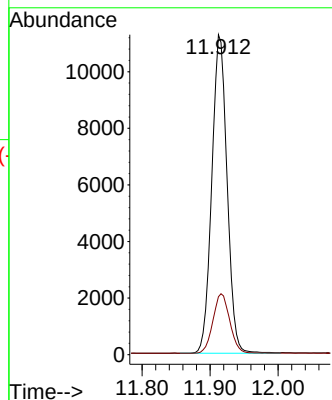
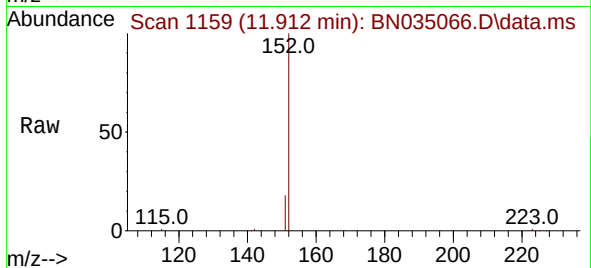




#11
2-Methylnaphthalene-d10
Concen: 1.690 ng
RT: 11.912 min Scan# 1159
Delta R.T. -0.004 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

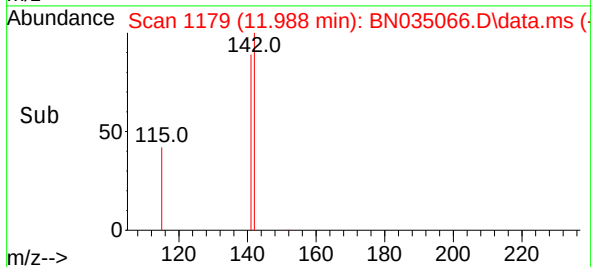
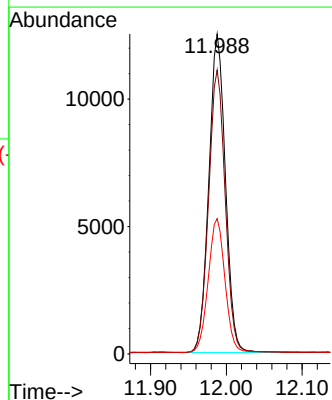
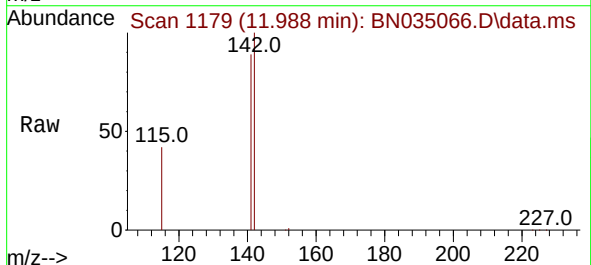
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

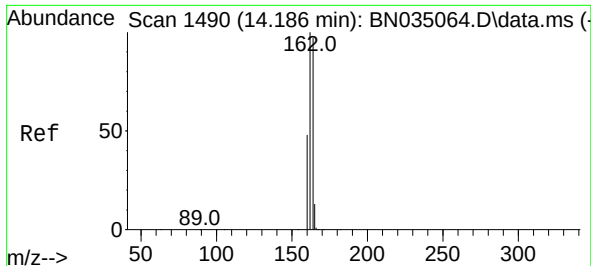
Tgt Ion:152 Resp: 17545
Ion Ratio Lower Upper
152 100
151 20.6 16.2 24.4



#12
2-Methylnaphthalene
Concen: 1.693 ng
RT: 11.988 min Scan# 1179
Delta R.T. -0.000 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:142 Resp: 18997
Ion Ratio Lower Upper
142 100
141 88.8 70.1 105.1
115 42.3 34.4 51.6

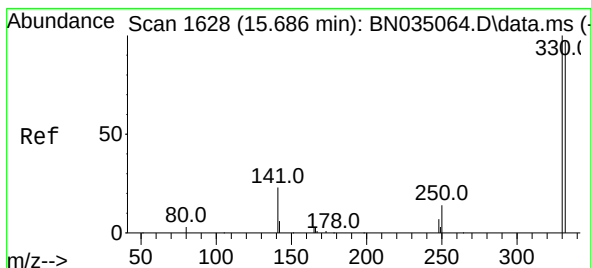
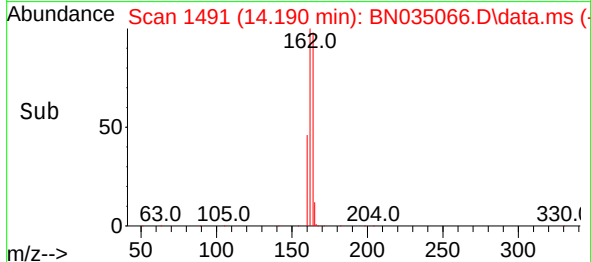
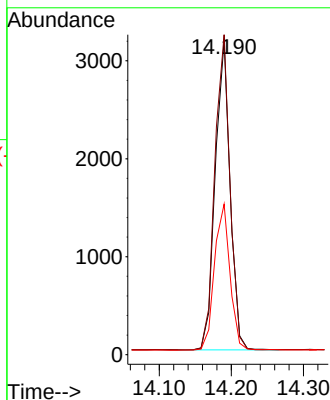
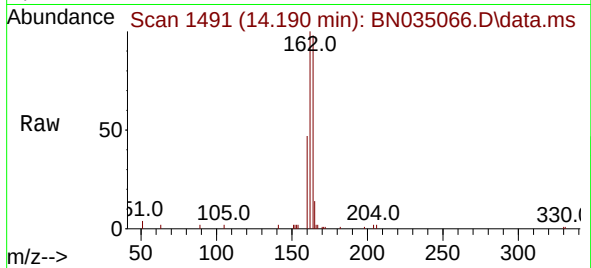




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.190 min Scan# 1490
Delta R.T. 0.004 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

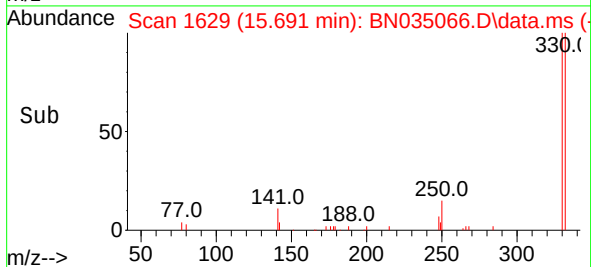
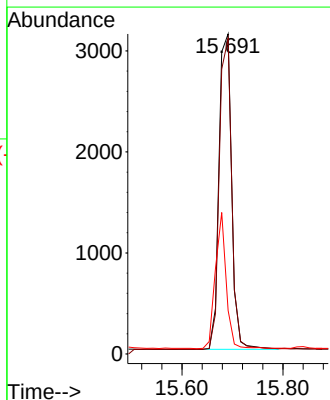
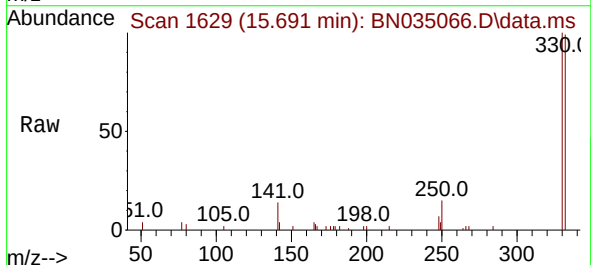
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

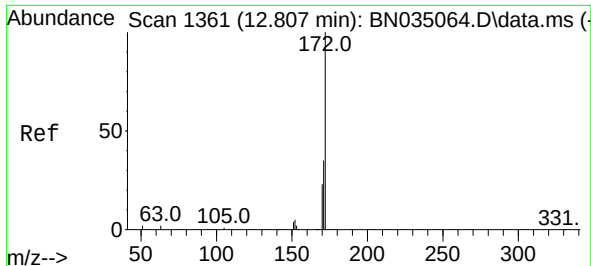
Tgt Ion:164 Resp: 4517
Ion Ratio Lower Upper
164 100
162 101.8 82.2 123.2
160 47.9 40.2 60.4



#14
2,4,6-Tribromophenol
Concen: 1.659 ng
RT: 15.691 min Scan# 1629
Delta R.T. 0.005 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:330 Resp: 5402
Ion Ratio Lower Upper
330 100
332 96.8 76.9 115.3
141 37.2 29.6 44.4





#15

2-Fluorobiphenyl

Concen: 1.661 ng

RT: 12.811 min Scan# 1362

Delta R.T. 0.004 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

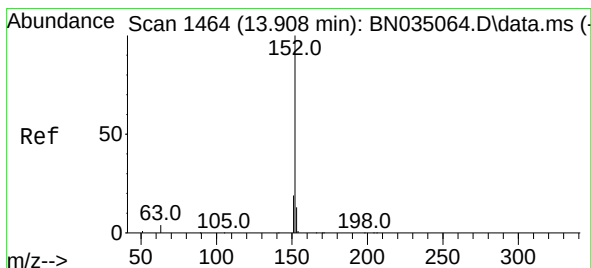
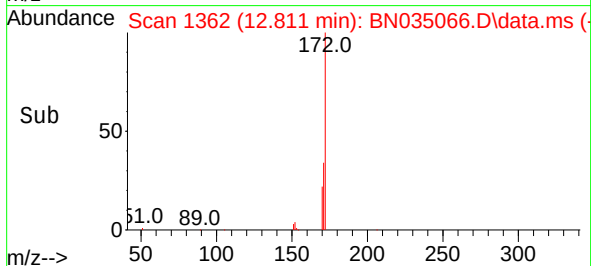
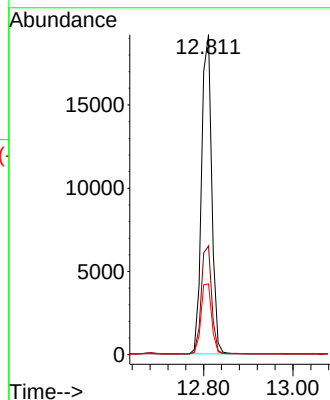
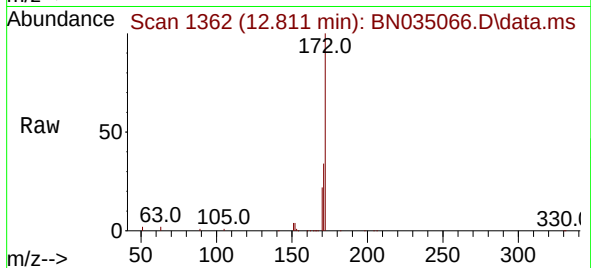
Tgt Ion:172 Resp: 30472

Ion Ratio Lower Upper

172 100

171 34.0 28.2 42.4

170 22.1 19.0 28.6



#16

Acenaphthylene

Concen: 1.661 ng

RT: 13.901 min Scan# 1464

Delta R.T. -0.007 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

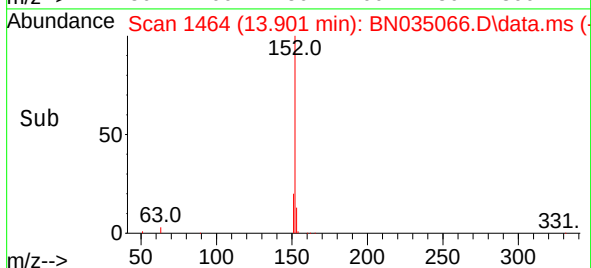
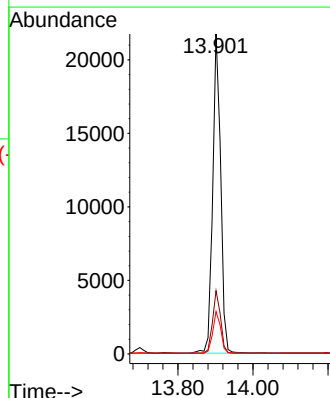
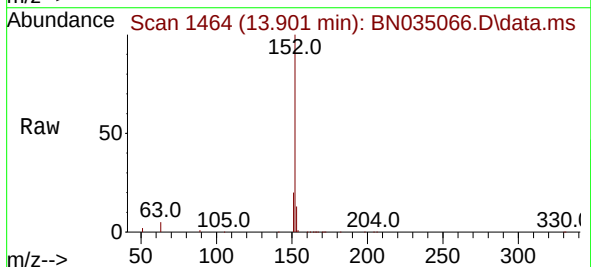
Tgt Ion:152 Resp: 32064

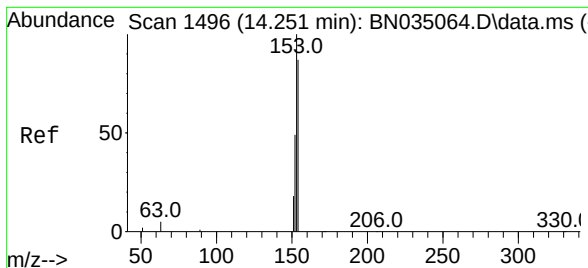
Ion Ratio Lower Upper

152 100

151 19.5 15.8 23.8

153 13.1 10.2 15.4





#17

Acenaphthene

Concen: 1.653 ng

RT: 14.254 min Scan# 1497

Delta R.T. 0.004 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

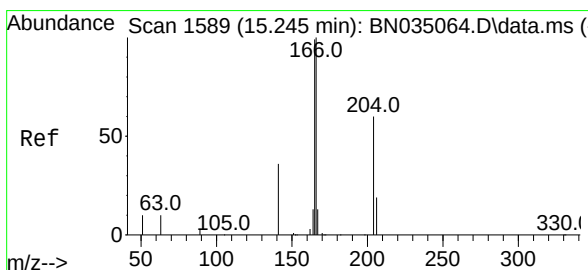
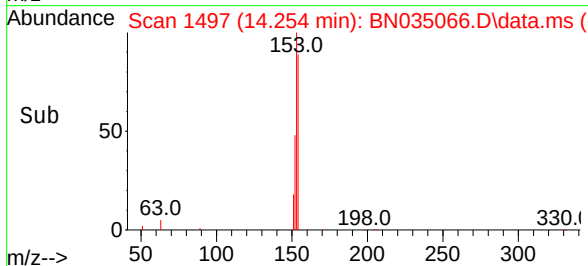
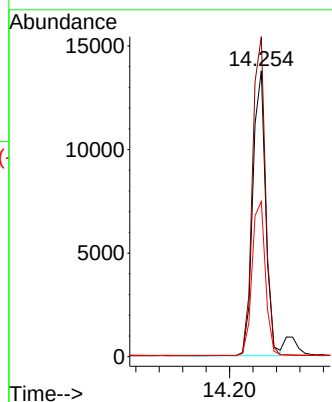
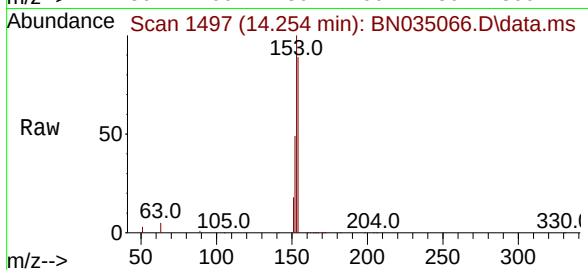
Tgt Ion:154 Resp: 20910

Ion Ratio Lower Upper

154 100

153 113.4 91.6 137.4

152 56.5 45.8 68.6



#18

Fluorene

Concen: 1.659 ng

RT: 15.238 min Scan# 1589

Delta R.T. -0.007 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

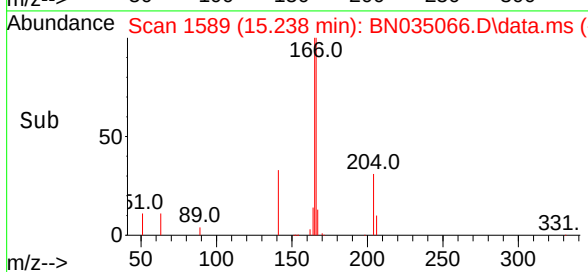
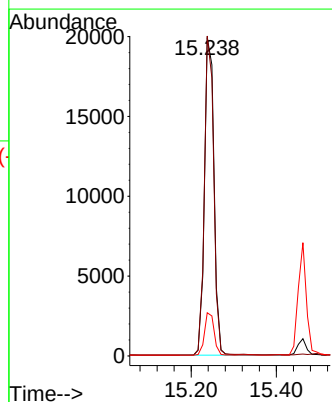
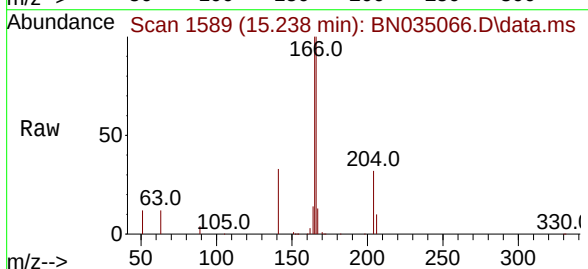
Tgt Ion:166 Resp: 30868

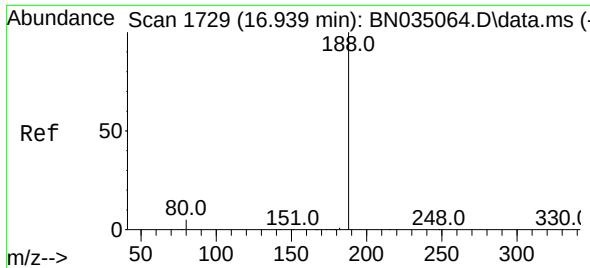
Ion Ratio Lower Upper

166 100

165 98.0 79.1 118.7

167 13.4 10.6 16.0

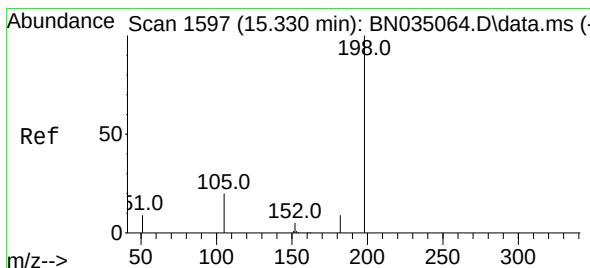
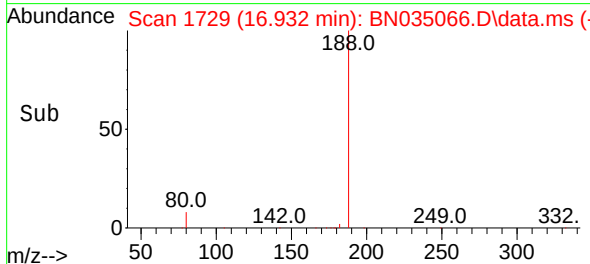
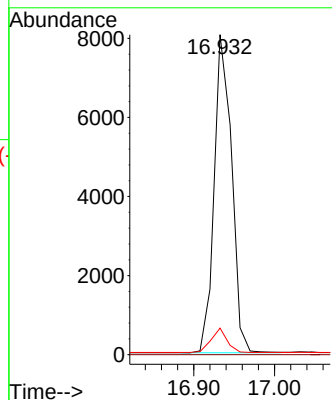
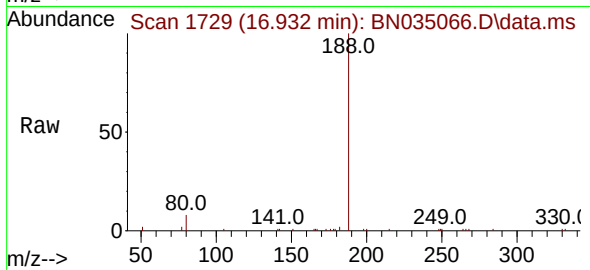




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.932 min Scan# 1729
Delta R.T. -0.007 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

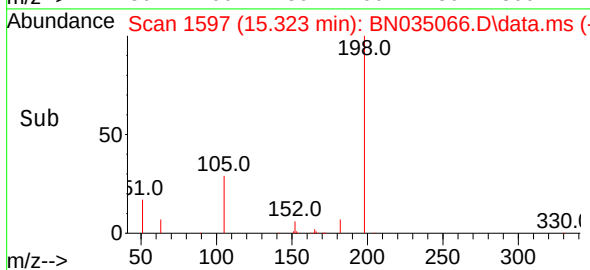
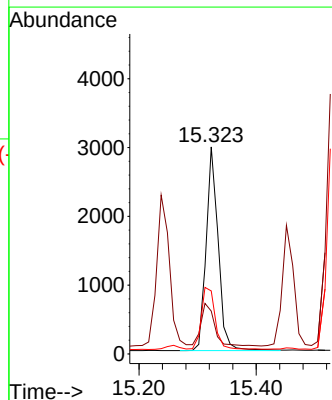
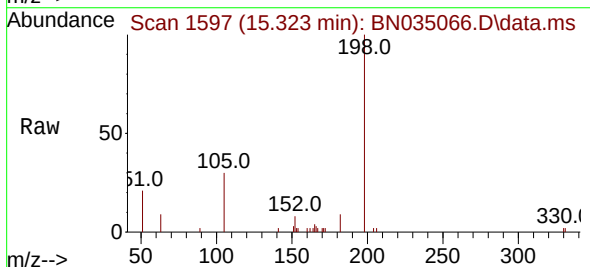
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

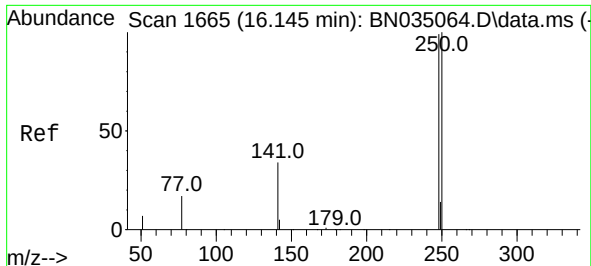
Tgt Ion:188 Resp: 12068
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 8.3 4.3 6.5#



#20
4,6-Dinitro-2-methylphenol
Concen: 1.695 ng
RT: 15.323 min Scan# 1597
Delta R.T. -0.007 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:198 Resp: 4259
Ion Ratio Lower Upper
198 100
51 20.7 29.9 44.9#
105 30.5 23.7 35.5

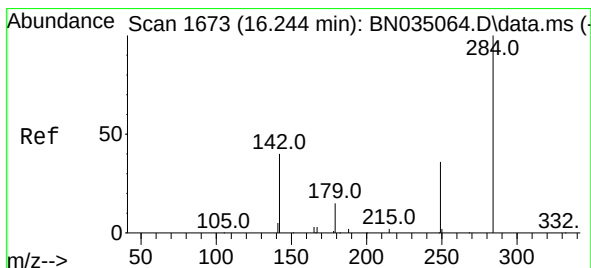
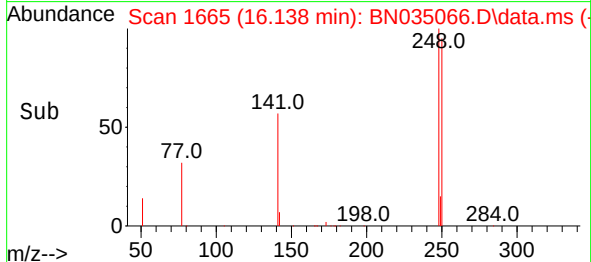
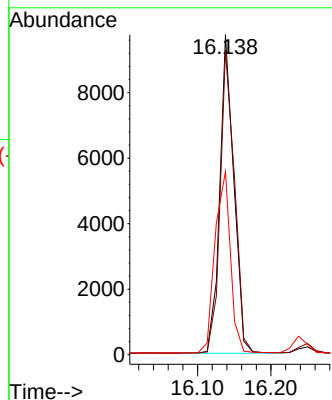
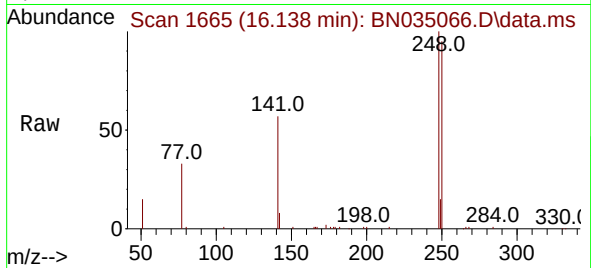




#21
4-Bromophenyl-phenylether
Concen: 1.676 ng
RT: 16.138 min Scan# 1665
Delta R.T. -0.007 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

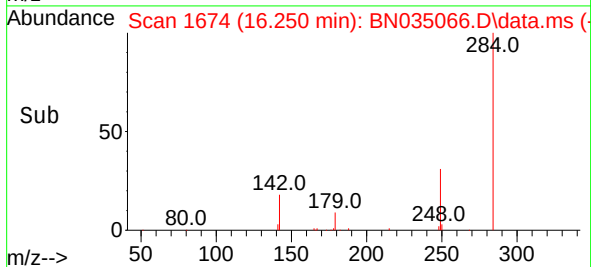
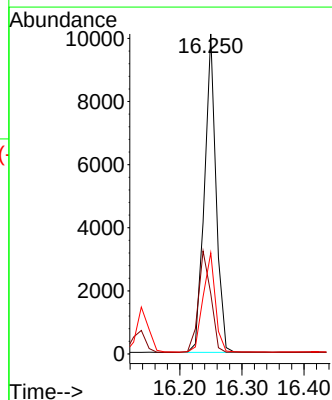
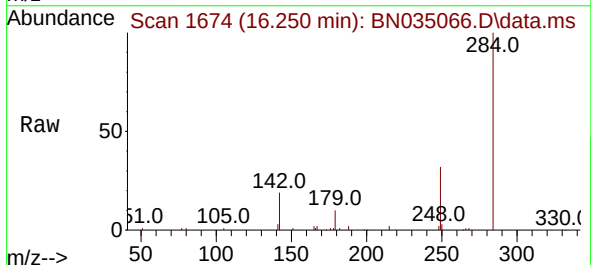
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

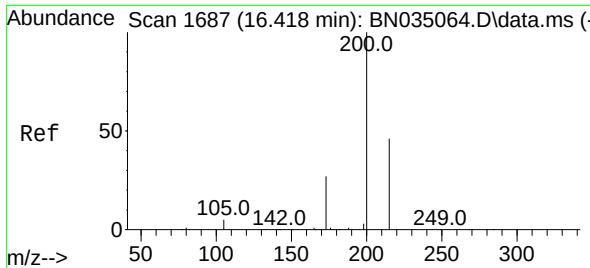
Tgt Ion:248 Resp: 12888
Ion Ratio Lower Upper
248 100
250 95.0 81.2 121.8
141 57.2 29.1 43.7#



#22
Hexachlorobenzene
Concen: 1.651 ng
RT: 16.250 min Scan# 1674
Delta R.T. 0.005 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:284 Resp: 13172
Ion Ratio Lower Upper
284 100
142 34.0 28.2 42.4
249 32.5 26.2 39.2

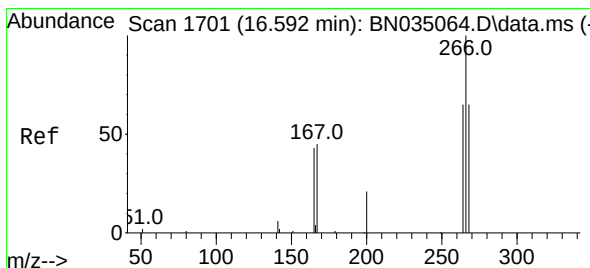
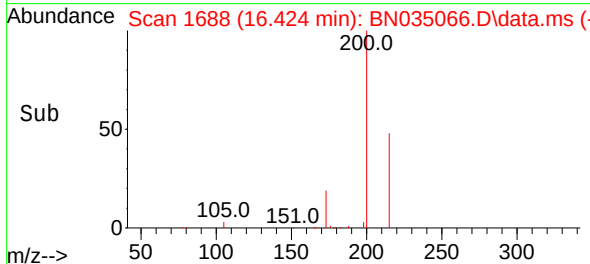
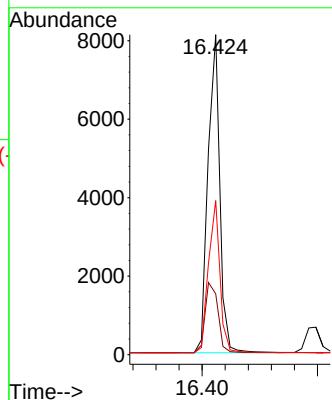
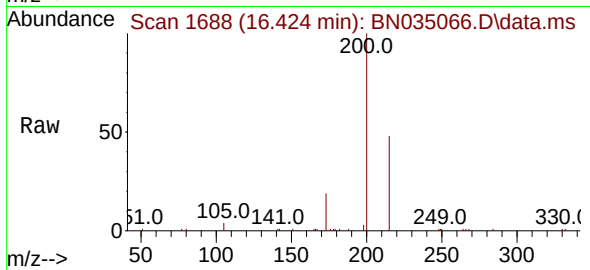




#23
Atrazine
Concen: 1.663 ng
RT: 16.424 min Scan# 11471
Delta R.T. 0.005 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

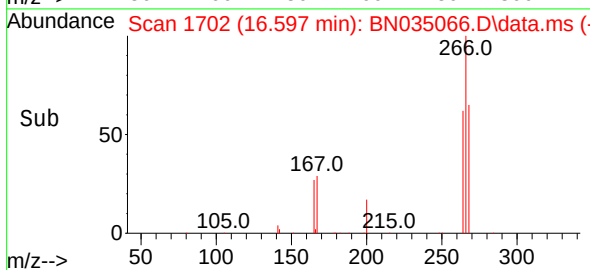
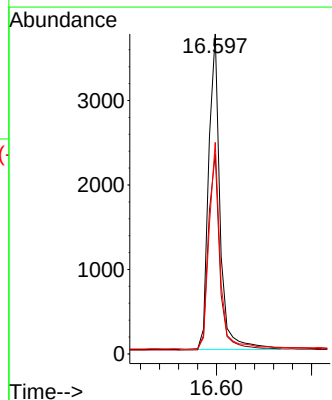
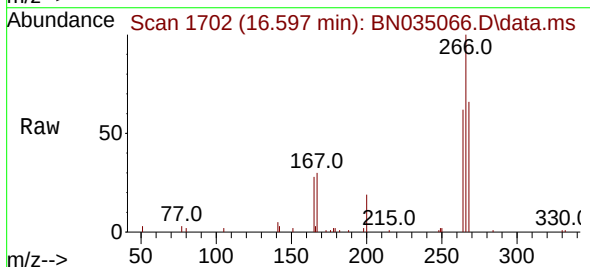
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

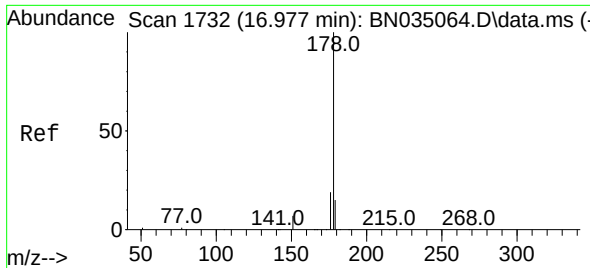
Tgt Ion:200 Resp: 11471
Ion Ratio Lower Upper
200 100
173 19.0 22.6 33.8#
215 48.2 37.8 56.6



#24
Pentachlorophenol
Concen: 1.683 ng
RT: 16.597 min Scan# 1702
Delta R.T. 0.005 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:266 Resp: 6275
Ion Ratio Lower Upper
266 100
264 63.2 49.4 74.0
268 63.7 52.6 79.0





#25

Phenanthrene

Concen: 1.666 ng

RT: 16.982 min Scan# 1740

Delta R.T. 0.005 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

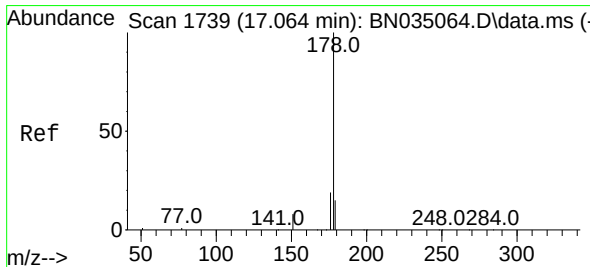
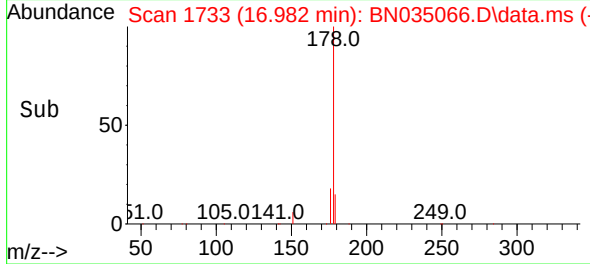
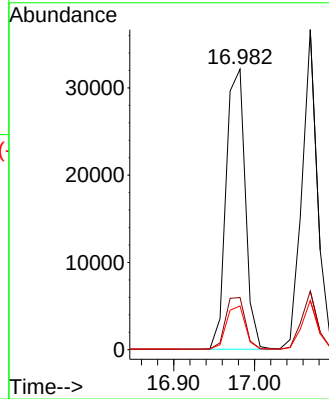
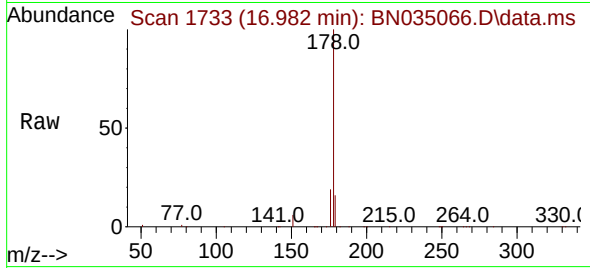
Tgt Ion:178 Resp: 52915

Ion Ratio Lower Upper

178 100

176 19.1 15.2 22.8

179 15.3 12.6 18.8



#26

Anthracene

Concen: 1.681 ng

RT: 17.069 min Scan# 1740

Delta R.T. 0.005 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

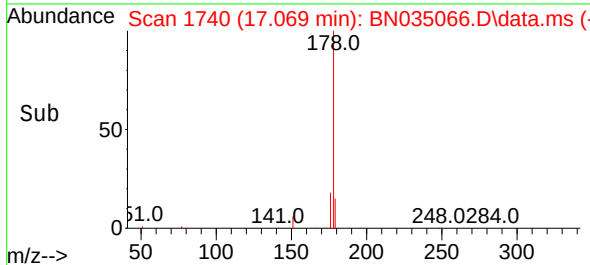
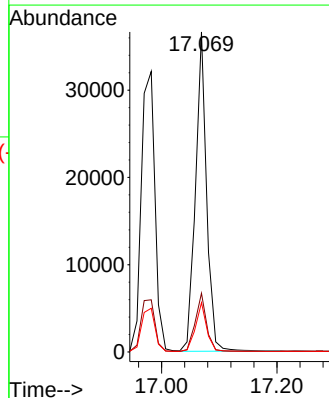
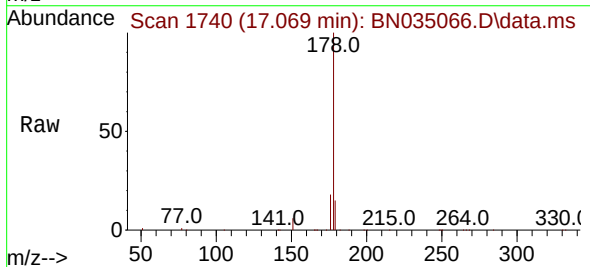
Tgt Ion:178 Resp: 49046

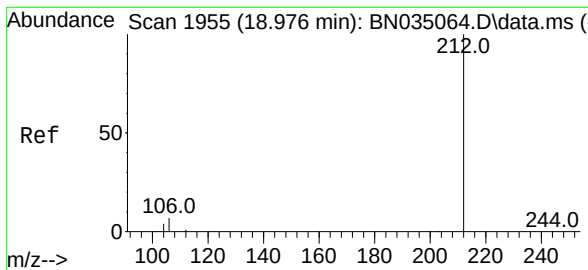
Ion Ratio Lower Upper

178 100

176 18.4 14.6 22.0

179 15.3 12.2 18.2

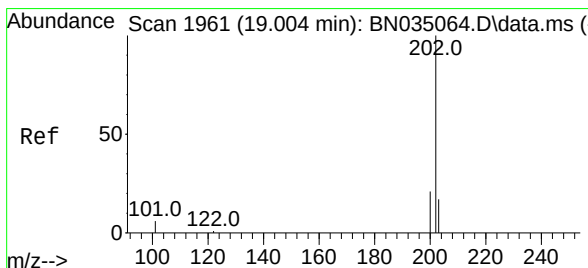
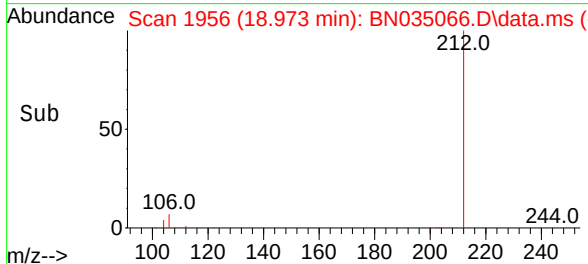
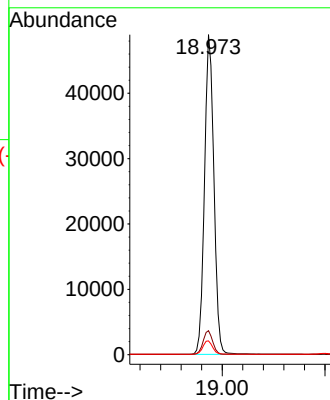
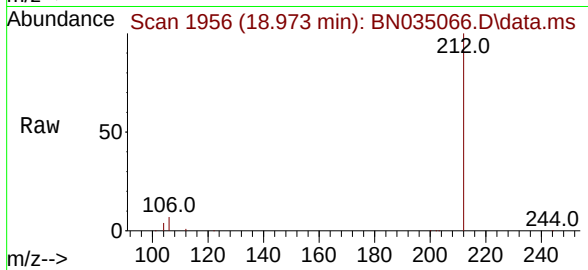




#27
Fluoranthene-d10
Concen: 1.676 ng
RT: 18.973 min Scan# 1956
Delta R.T. -0.002 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

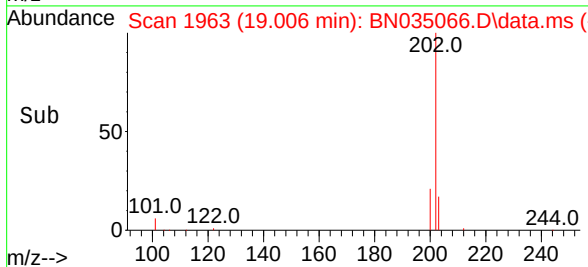
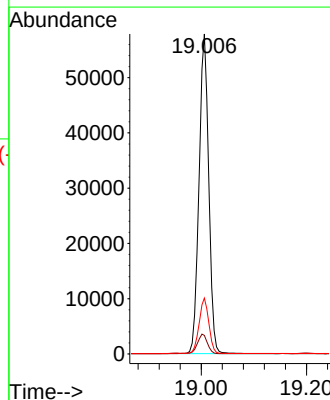
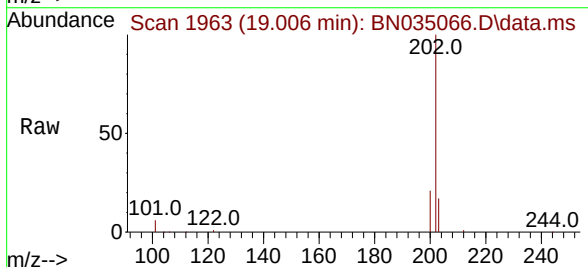
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

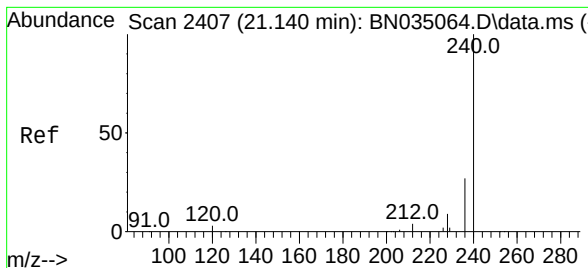
Tgt Ion:212 Resp: 61972
Ion Ratio Lower Upper
212 100
106 7.5 6.0 9.0
104 4.3 3.5 5.3



#28
Fluoranthene
Concen: 1.687 ng
RT: 19.006 min Scan# 1963
Delta R.T. 0.002 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:202 Resp: 73694
Ion Ratio Lower Upper
202 100
101 6.3 5.2 7.8
203 17.4 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.133 min Scan# 2408

Delta R.T. -0.007 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

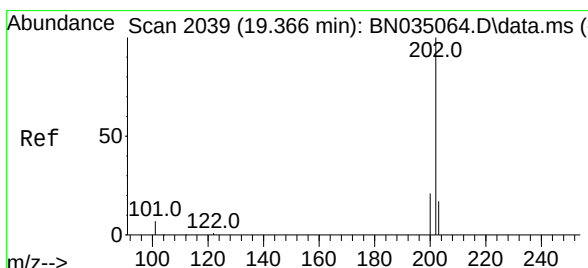
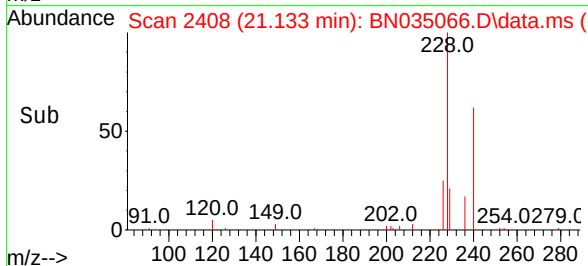
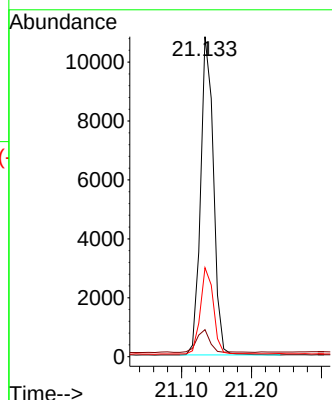
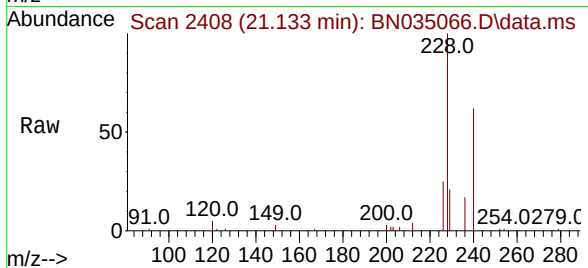
Tgt Ion:240 Resp: 13823

Ion Ratio Lower Upper

240 100

120 8.5 3.8 5.6#

236 27.8 22.2 33.2



#30

Pyrene

Concen: 1.641 ng

RT: 19.368 min Scan# 2041

Delta R.T. 0.002 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

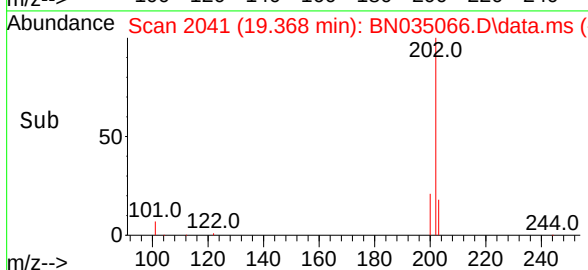
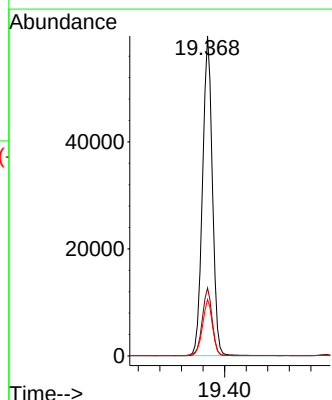
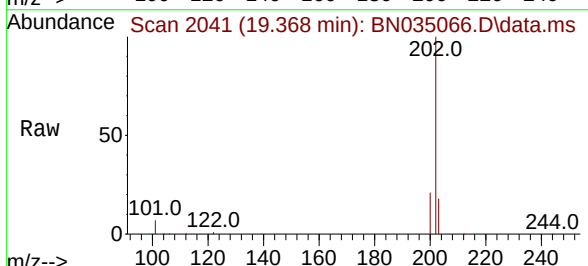
Tgt Ion:202 Resp: 75558

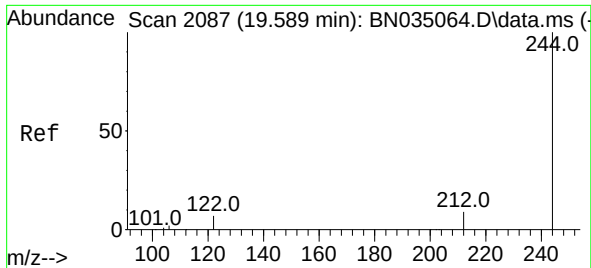
Ion Ratio Lower Upper

202 100

200 21.0 16.7 25.1

203 17.9 14.2 21.4

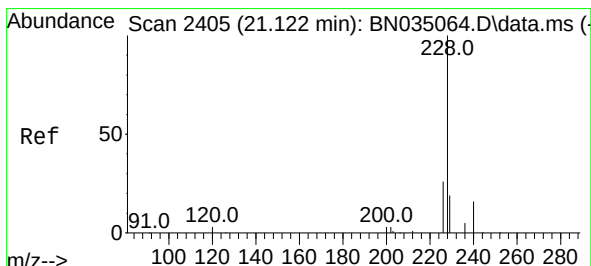
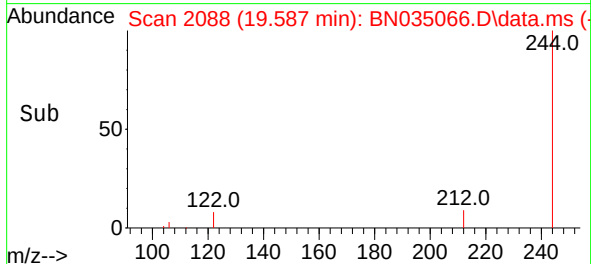
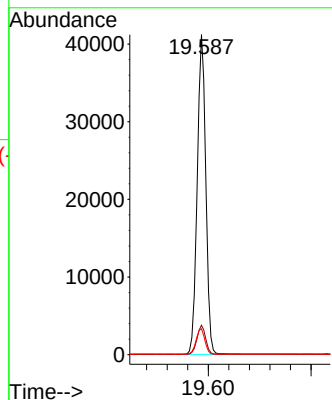
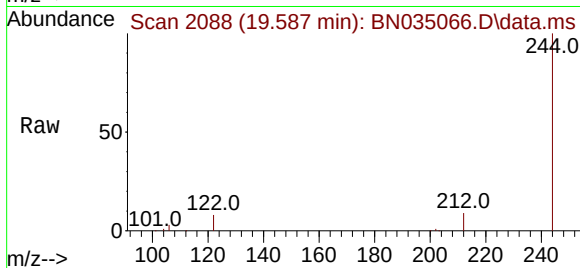




#31
Terphenyl-d14
Concen: 1.652 ng
RT: 19.587 min Scan# 2088
Delta R.T. -0.002 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

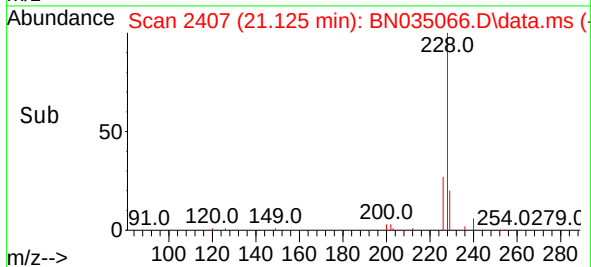
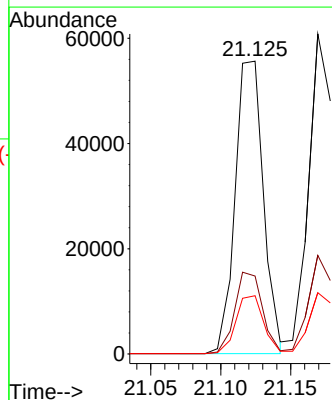
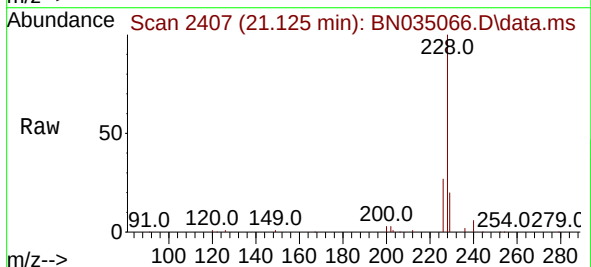
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

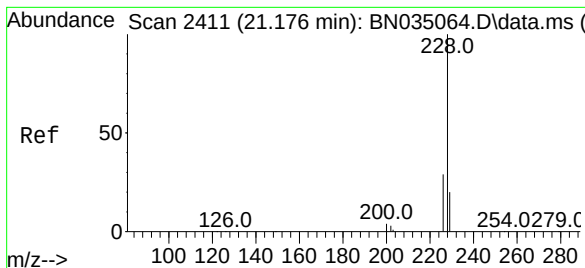
Tgt Ion:244 Resp: 47914
Ion Ratio Lower Upper
244 100
212 9.2 7.6 11.4
122 8.1 6.1 9.1



#32
Benzo(a)anthracene
Concen: 1.627 ng
RT: 21.125 min Scan# 2407
Delta R.T. 0.002 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:228 Resp: 78298
Ion Ratio Lower Upper
228 100
226 26.6 21.4 32.0
229 19.9 15.7 23.5





#33

Chrysene

Concen: 1.647 ng

RT: 21.169 min Scan# 2411

Delta R.T. -0.007 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

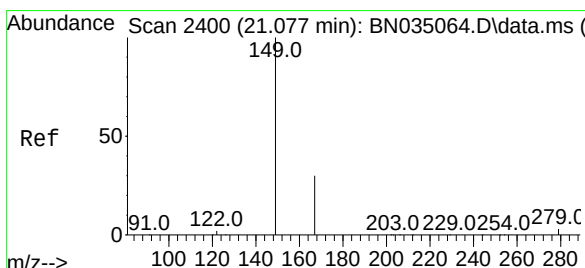
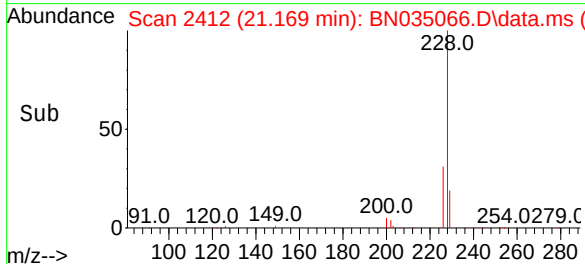
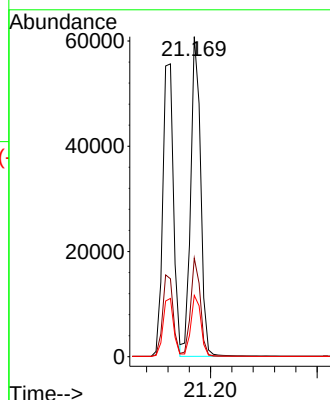
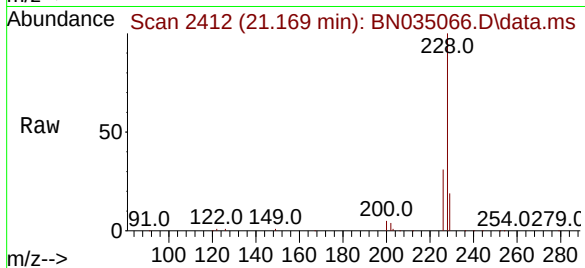
Tgt Ion:228 Resp: 78533

Ion Ratio Lower Upper

228 100

226 30.8 23.7 35.5

229 19.2 16.2 24.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 1.549 ng

RT: 21.080 min Scan# 2402

Delta R.T. 0.002 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

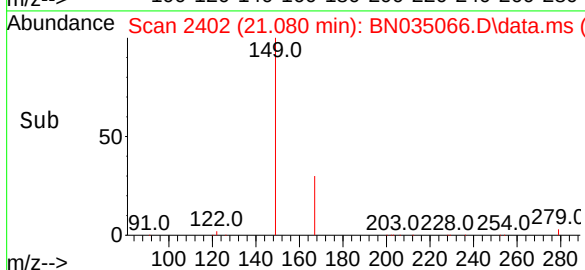
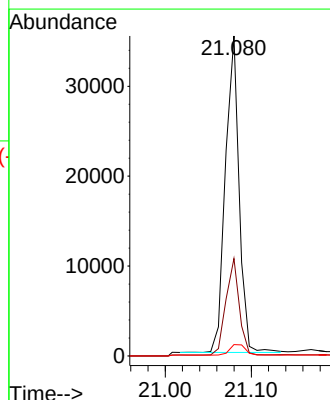
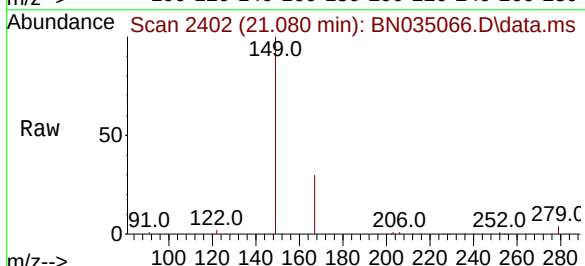
Tgt Ion:149 Resp: 38807

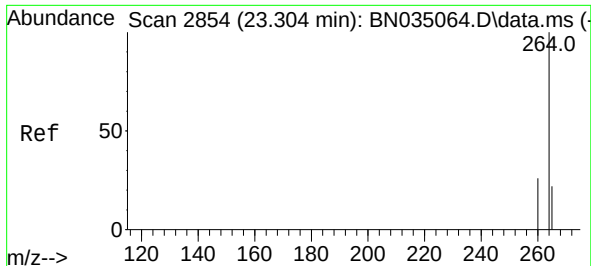
Ion Ratio Lower Upper

149 100

167 29.5 23.2 34.8

279 3.9 3.2 4.8

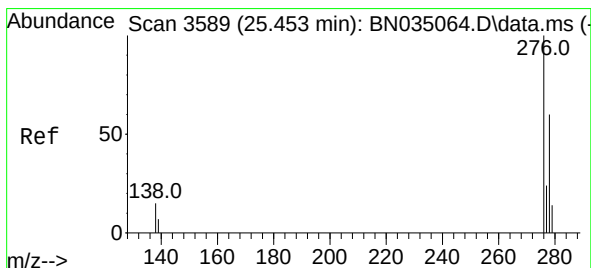
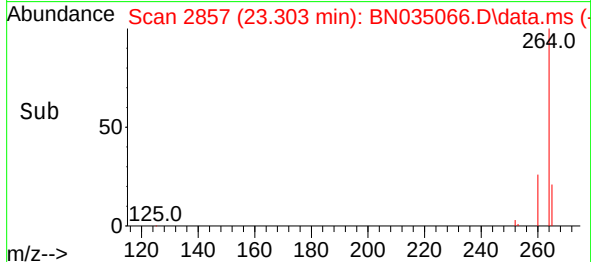
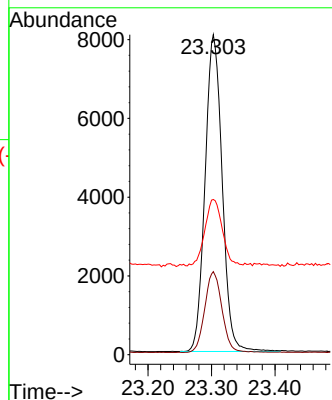
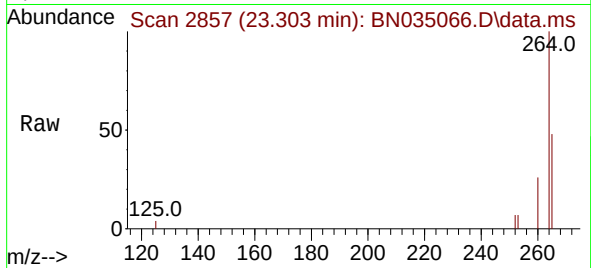




#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.303 min Scan# 21
 Delta R.T. -0.001 min
 Lab File: BN035066.D
 Acq: 13 Nov 2024 15:04

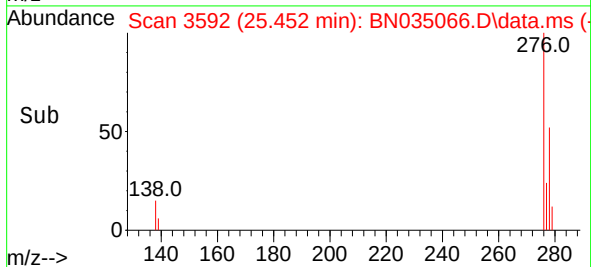
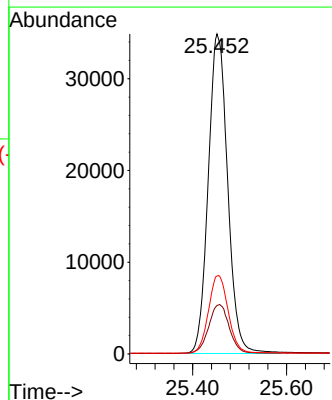
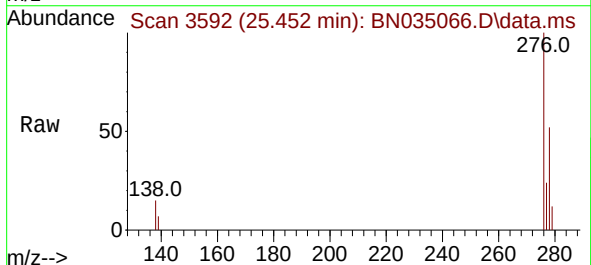
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC1.6

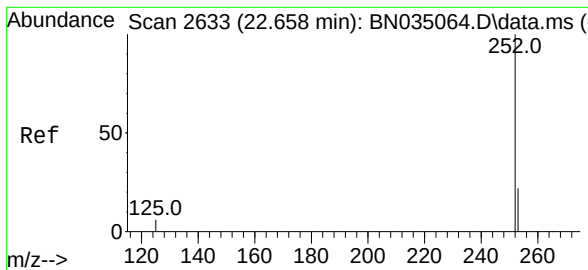
Tgt Ion:264 Resp: 15060
 Ion Ratio Lower Upper
 264 100
 260 26.0 20.9 31.3
 265 48.5 35.4 53.2



#36
 Indeno(1,2,3-cd)pyrene
 Concen: 1.663 ng
 RT: 25.452 min Scan# 3592
 Delta R.T. -0.001 min
 Lab File: BN035066.D
 Acq: 13 Nov 2024 15:04

Tgt Ion:276 Resp: 99936
 Ion Ratio Lower Upper
 276 100
 138 16.1 13.0 19.4
 277 24.8 19.8 29.6

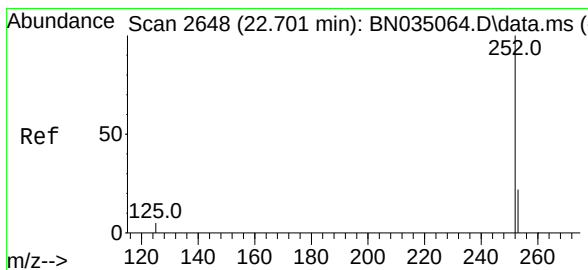
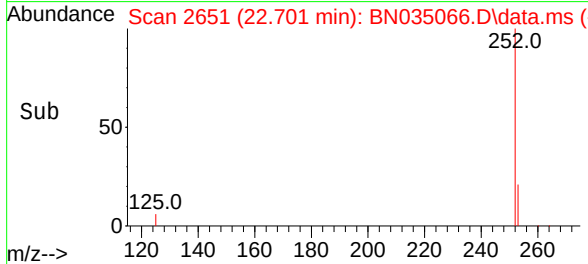
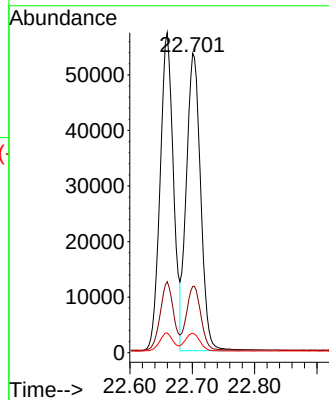
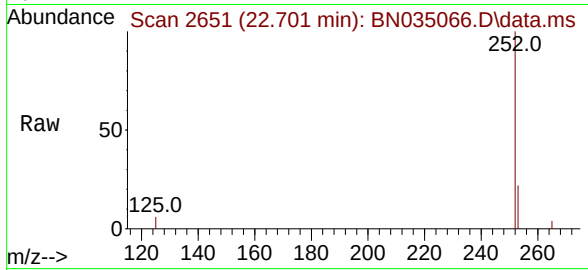




#37
Benzo(b)fluoranthene
Concen: 1.677 ng
RT: 22.701 min Scan# 2651
Delta R.T. 0.043 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

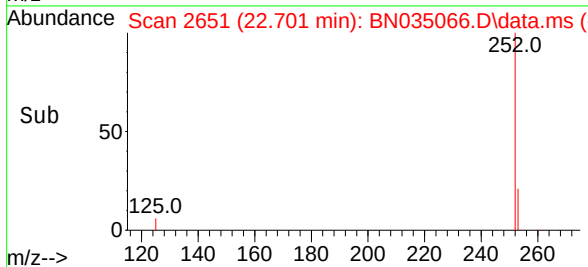
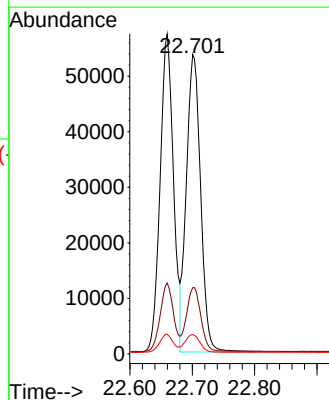
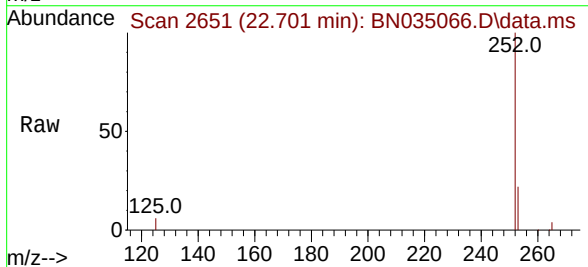
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

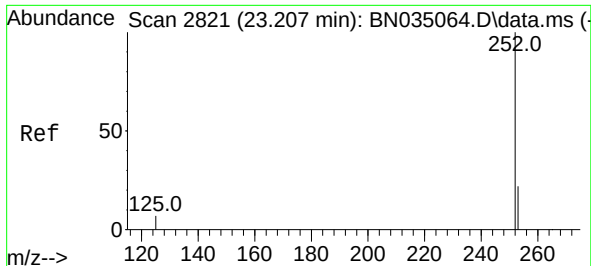
Tgt Ion:252 Resp: 84960
Ion Ratio Lower Upper
252 100
253 22.1 19.3 28.9
125 6.5 6.2 9.2



#38
Benzo(k)fluoranthene
Concen: 1.676 ng
RT: 22.701 min Scan# 2651
Delta R.T. -0.001 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:252 Resp: 84960
Ion Ratio Lower Upper
252 100
253 22.1 19.5 29.3
125 6.5 6.5 9.7#





#39

Benzo(a)pyrene

Concen: 1.675 ng

RT: 23.209 min Scan# 21

Delta R.T. 0.002 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

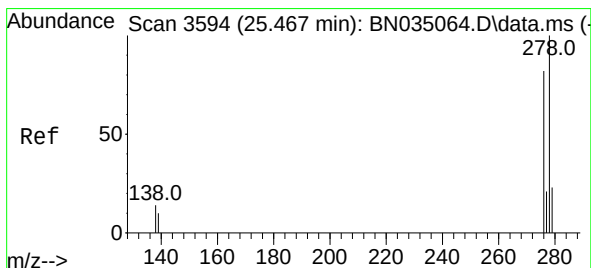
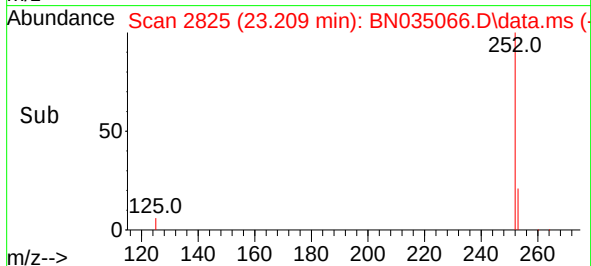
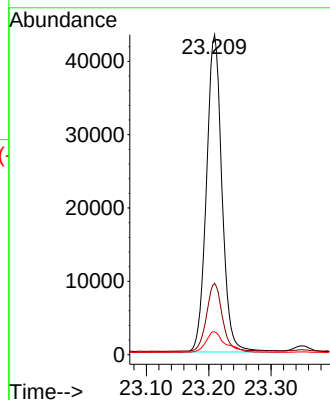
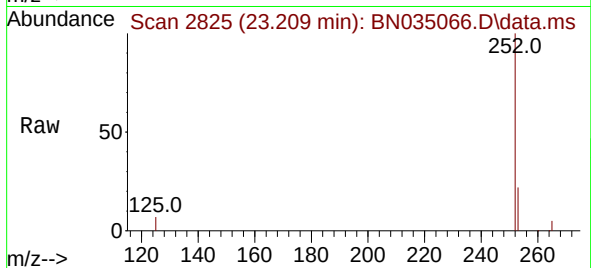
Tgt Ion:252 Resp: 74668

Ion Ratio Lower Upper

252 100

253 22.3 20.1 30.1

125 7.1 7.5 11.3#



#40

Dibenzo(a,h)anthracene

Concen: 1.673 ng

RT: 25.469 min Scan# 3598

Delta R.T. 0.002 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

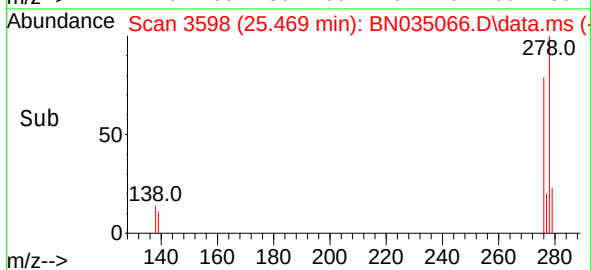
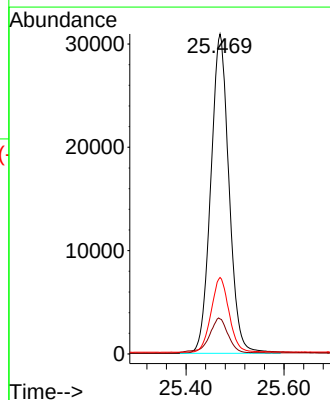
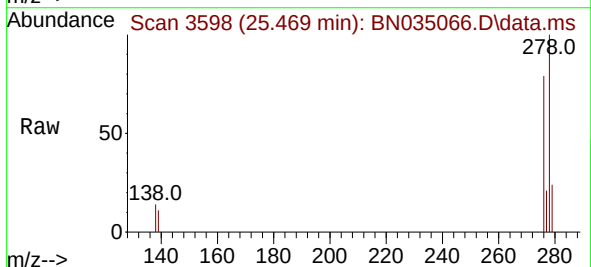
Tgt Ion:278 Resp: 79628

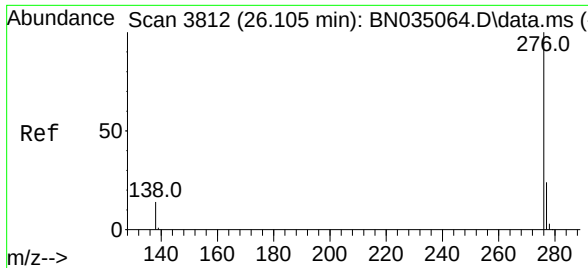
Ion Ratio Lower Upper

278 100

139 10.9 9.3 13.9

279 23.9 19.7 29.5

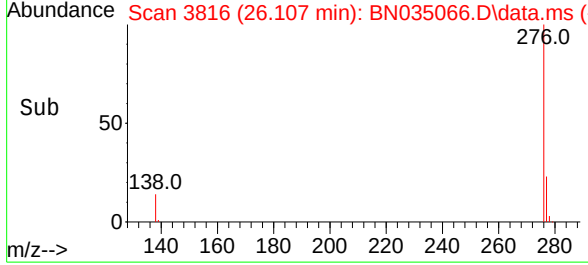
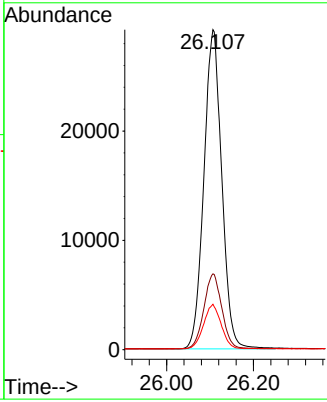
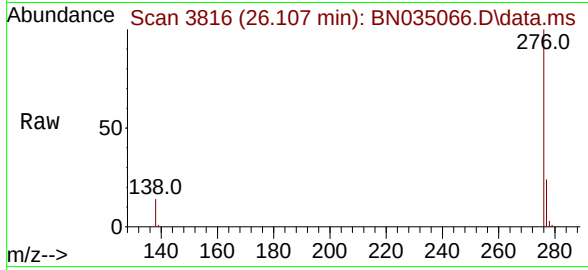




#41
Benzo(g,h,i)perylene
Concen: 1.649 ng
RT: 26.107 min Scan# 3816
Delta R.T. 0.002 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:276 Resp: 83498
Ion Ratio Lower Upper
276 100
277 23.7 19.9 29.9
138 14.2 11.6 17.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
 Data File : BN035067.D
 Acq On : 13 Nov 2024 15:39
 Operator : RC/JU
 Sample : SSTDICC3.2
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

Quant Time: Nov 13 16:45:11 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 16:42:01 2024
 Response via : Initial Calibration

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

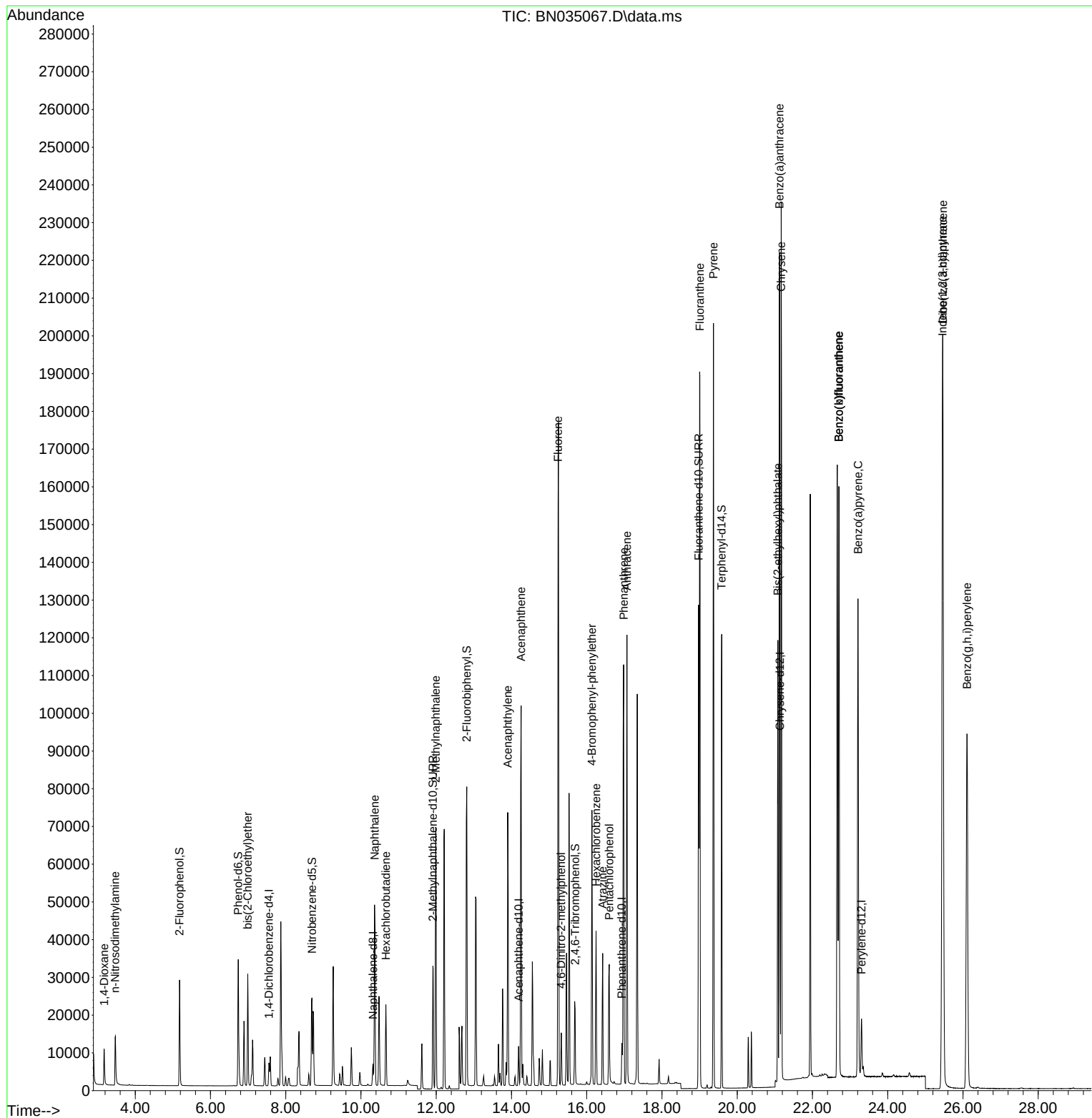
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.553	152	2920	0.400	ng	0.00
7) Naphthalene-d8	10.319	136	7487	0.400	ng	0.00
13) Acenaphthene-d10	14.190	164	5593	0.400	ng	0.00
19) Phenanthrene-d10	16.932	188	14864	0.400	ng	# 0.00
29) Chrysene-d12	21.133	240	17096	0.400	ng	# 0.00
35) Perylene-d12	23.303	264	18582	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	22571	3.045	ng	0.00
5) Phenol-d6	6.737	99	29328	3.155	ng	0.00
8) Nitrobenzene-d5	8.696	82	20578	3.167	ng	0.00
11) 2-Methylnaphthalene-d10	11.912	152	42128	3.157	ng	0.00
14) 2,4,6-Tribromophenol	15.691	330	13778	3.417	ng	0.00
15) 2-Fluorobiphenyl	12.811	172	71543	3.150	ng	0.00
27) Fluoranthene-d10	18.973	212	145321	3.191	ng	0.00
31) Terphenyl-d14	19.587	244	111732	3.115	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.177	88	8131	3.066	ng	99
3) n-Nitrosodimethylamine	3.465	42	7509	3.049	ng	# 93
6) bis(2-Chloroethyl)ether	6.990	93	21619	3.099	ng	99
9) Naphthalene	10.362	128	60468	3.093	ng	98
10) Hexachlorobutadiene	10.660	225	17300	3.019	ng	# 99
12) 2-Methylnaphthalene	11.988	142	45806	3.176	ng	98
16) Acenaphthylene	13.901	152	78553	3.286	ng	99
17) Acenaphthene	14.254	154	50542	3.227	ng	98
18) Fluorene	15.238	166	74092	3.215	ng	99
20) 4,6-Dinitro-2-methylph...	15.323	198	11328	3.661	ng	# 83
21) 4-Bromophenyl-phenylether	16.138	248	30013	3.169	ng	# 85
22) Hexachlorobenzene	16.250	284	30635	3.117	ng	99
23) Atrazine	16.424	200	26567	3.127	ng	# 93
24) Pentachlorophenol	16.597	266	16789	3.656	ng	98
25) Phenanthrene	16.982	178	123000	3.144	ng	99
26) Anthracene	17.069	178	117301	3.265	ng	100
28) Fluoranthene	19.006	202	172759	3.212	ng	100
30) Pyrene	19.368	202	177937	3.125	ng	100
32) Benzo(a)anthracene	21.125	228	185345	3.114	ng	99
33) Chrysene	21.169	228	182053	3.087	ng	98
34) Bis(2-ethylhexyl)phtha...	21.080	149	94826	3.061	ng	99
36) Indeno(1,2,3-cd)pyrene	25.455	276	230419	3.108	ng	100
37) Benzo(b)fluoranthene	22.701	252	196686	3.146	ng	95
38) Benzo(k)fluoranthene	22.701	252	196686	3.144	ng	# 95
39) Benzo(a)pyrene	23.209	252	173547	3.155	ng	# 93
40) Dibenzo(a,h)anthracene	25.466	278	183641	3.127	ng	98
41) Benzo(g,h,i)perylene	26.107	276	192341	3.079	ng	98

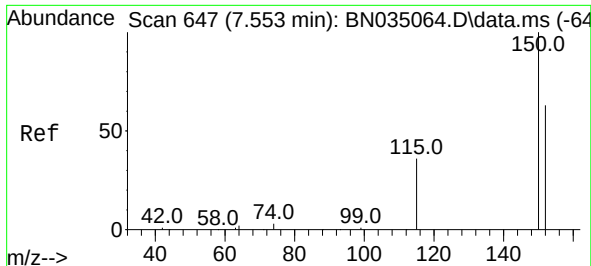
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Acq On : 13 Nov 2024 15:39
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

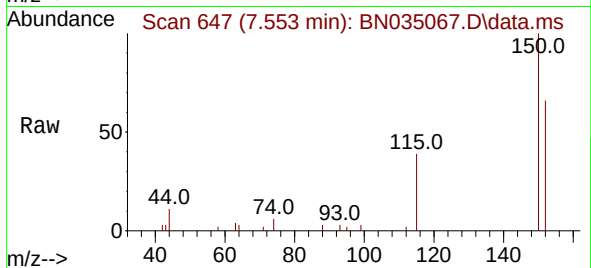
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 16:42:01 2024
Response via : Initial Calibration



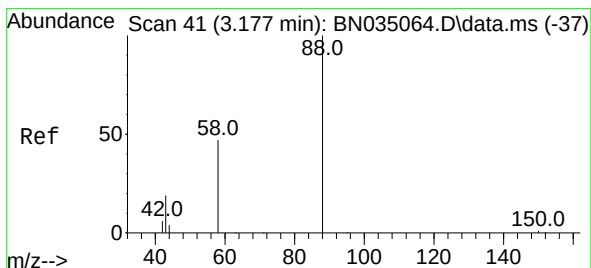
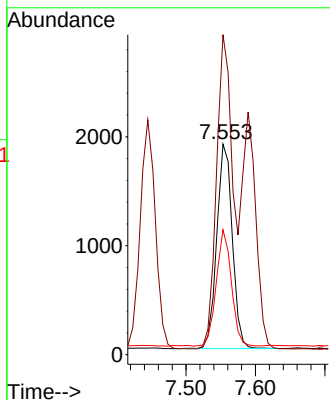
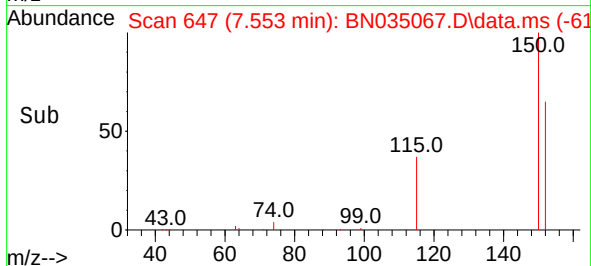


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.553 min Scan# 64
 Delta R.T. 0.000 min
 Lab File: BN035067.D
 Acq: 13 Nov 2024 15:39

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

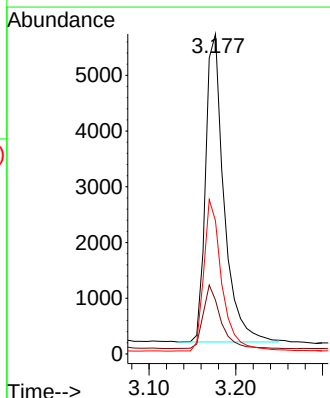
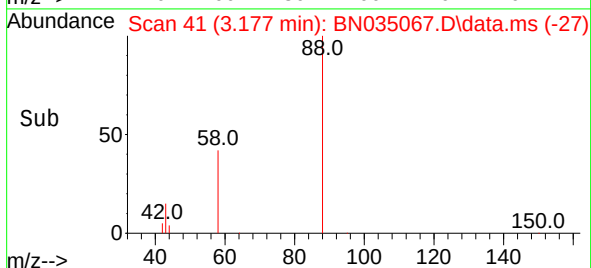
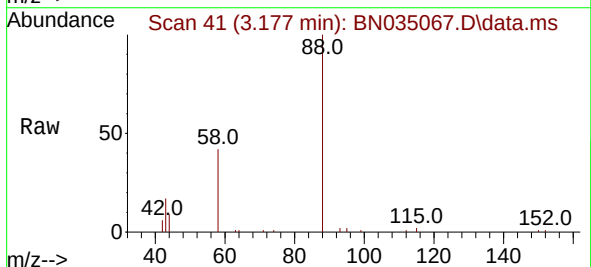


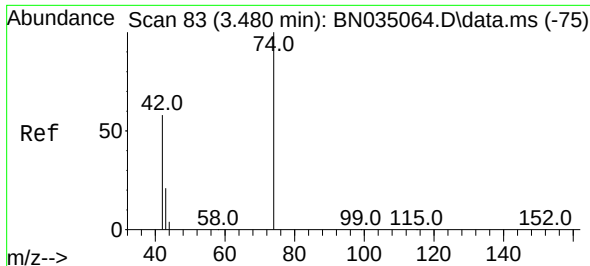
Tgt Ion:152 Resp: 2920
 Ion Ratio Lower Upper
 152 100
 150 152.0 124.5 186.7
 115 59.4 47.8 71.6



#2
 1,4-Dioxane
 Concen: 3.066 ng
 RT: 3.177 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: BN035067.D
 Acq: 13 Nov 2024 15:39

Tgt Ion: 88 Resp: 8131
 Ion Ratio Lower Upper
 88 100
 43 19.5 16.9 25.3
 58 48.4 39.0 58.4

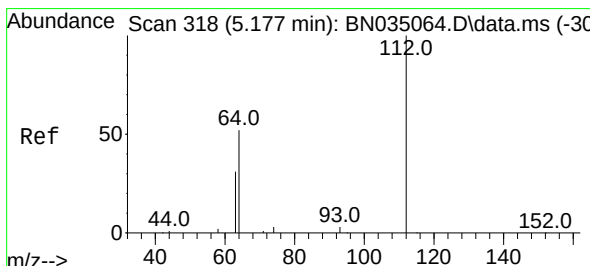
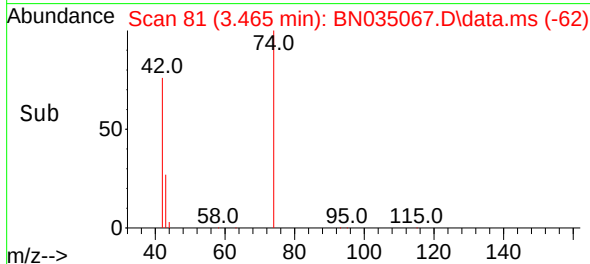
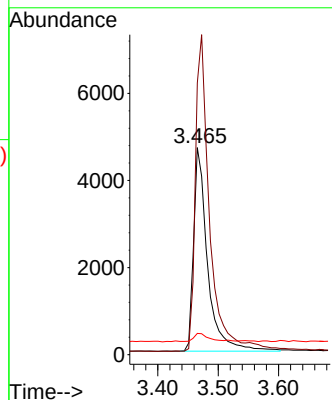
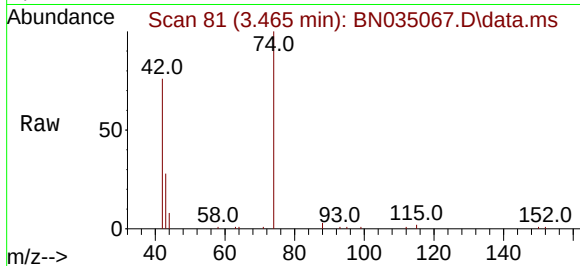




#3
 n-Nitrosodimethylamine
 Concen: 3.049 ng
 RT: 3.465 min Scan# 81
 Delta R.T. -0.015 min
 Lab File: BN035067.D
 Acq: 13 Nov 2024 15:39

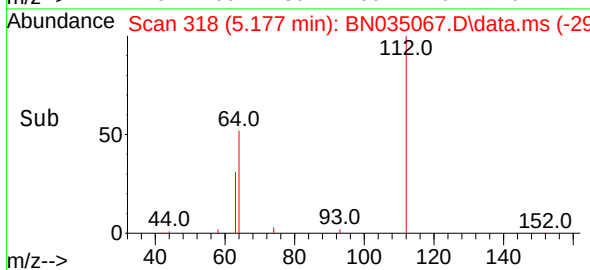
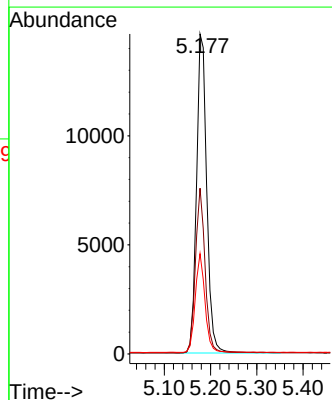
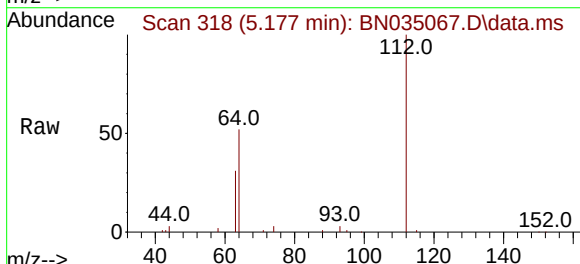
Instrument :
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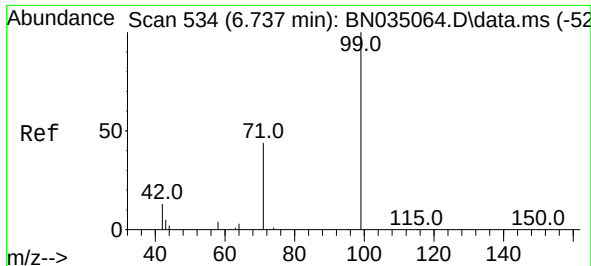
Tgt Ion: 42 Resp: 7509
 Ion Ratio Lower Upper
 42 100
 74 159.4 120.8 181.2
 44 4.7 2.9 4.3#



#4
 2-Fluorophenol
 Concen: 3.045 ng
 RT: 5.177 min Scan# 318
 Delta R.T. -0.000 min
 Lab File: BN035067.D
 Acq: 13 Nov 2024 15:39

Tgt Ion: 112 Resp: 22571
 Ion Ratio Lower Upper
 112 100
 64 48.8 39.7 59.5
 63 29.4 23.0 34.4

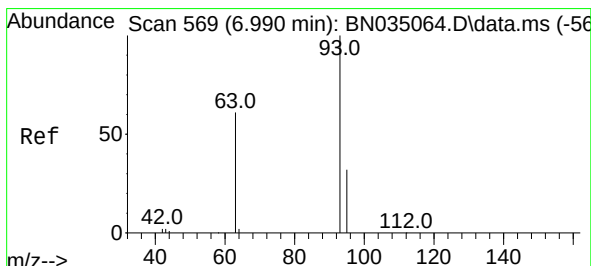
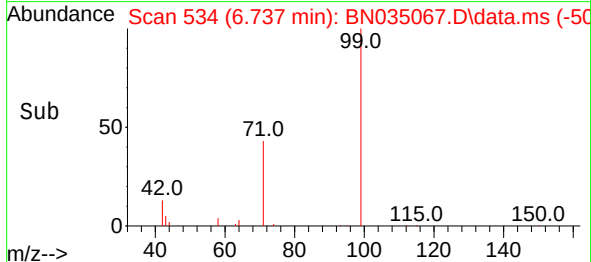
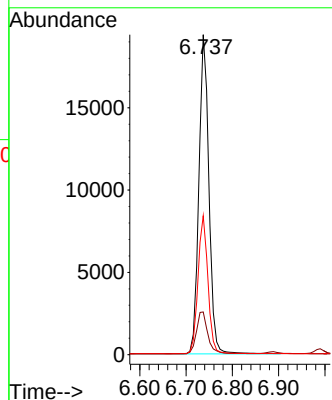
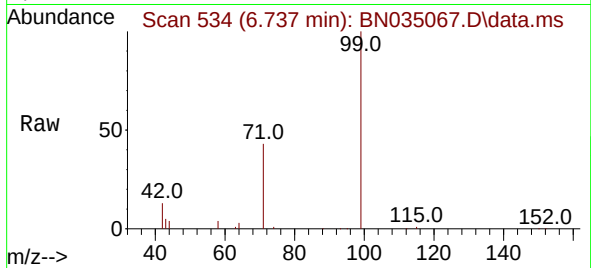




#5
Phenol-d6
Concen: 3.155 ng
RT: 6.737 min Scan# 534
Delta R.T. -0.000 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

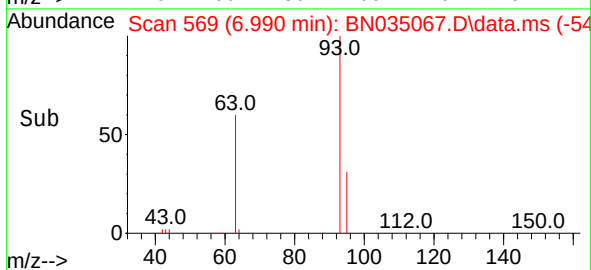
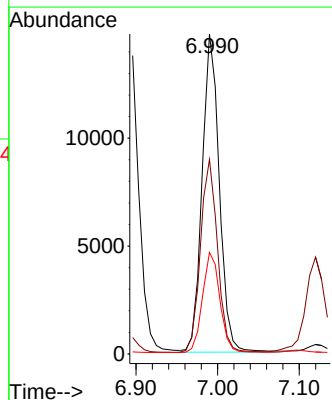
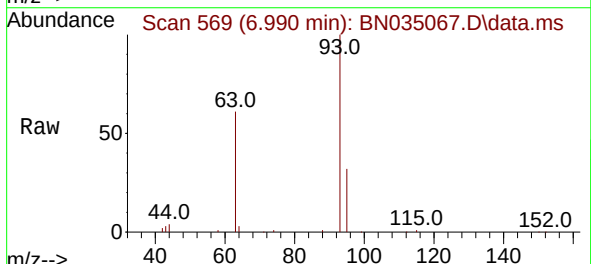
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

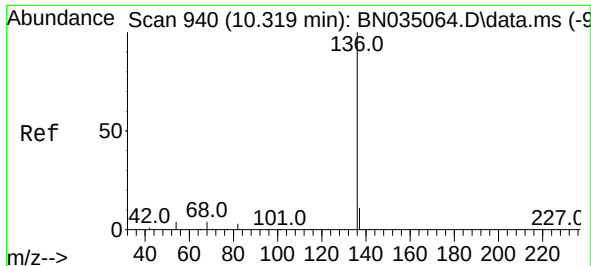
Tgt Ion: 99 Resp: 29328
Ion Ratio Lower Upper
99 100
42 14.5 11.4 17.0
71 43.0 34.6 51.8



#6
bis(2-Chloroethyl)ether
Concen: 3.099 ng
RT: 6.990 min Scan# 569
Delta R.T. -0.000 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion: 93 Resp: 21619
Ion Ratio Lower Upper
93 100
63 60.2 47.4 71.2
95 31.9 26.2 39.4

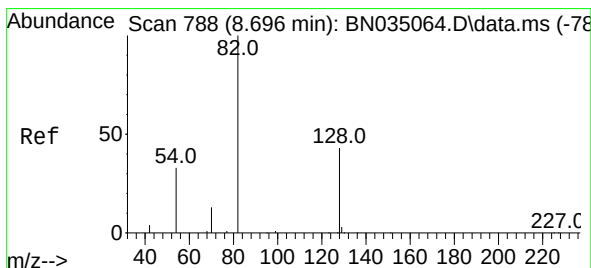
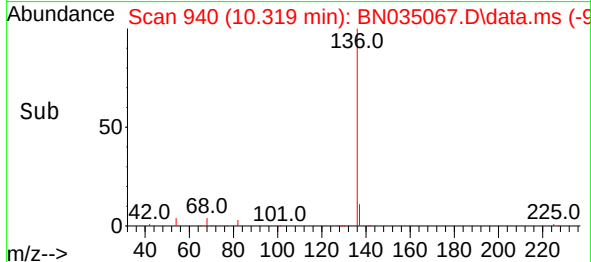
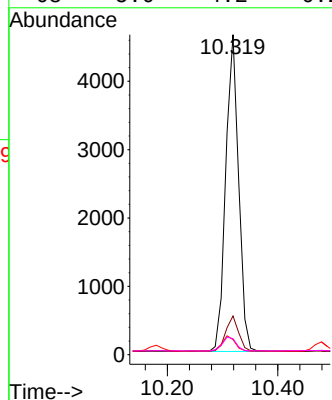
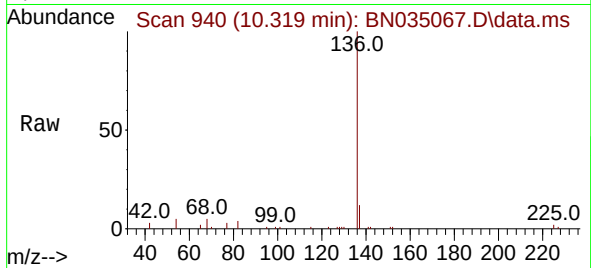




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.319 min Scan# 940
Delta R.T. -0.000 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

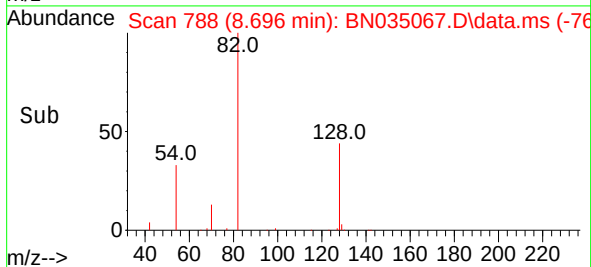
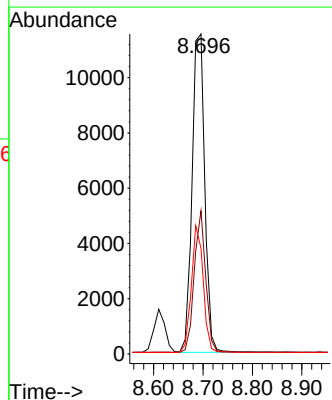
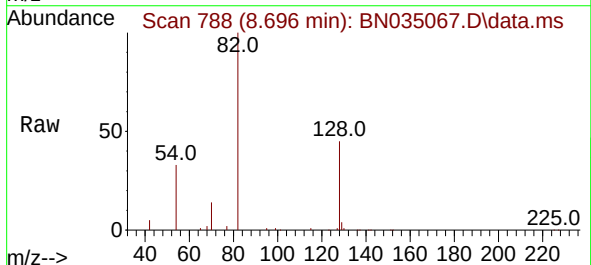
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

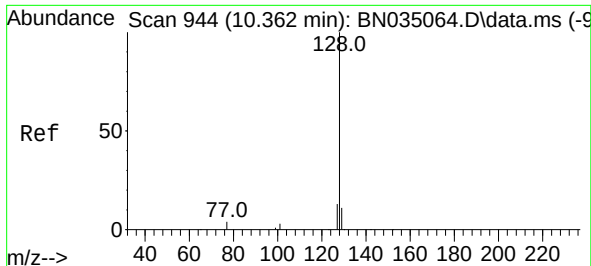
Tgt	Ion:136	Resp:	7487
Ion	Ratio	Lower	Upper
136	100		
137	12.1	9.8	14.8
54	4.7	4.0	6.0
68	5.0	4.2	6.2



#8
Nitrobenzene-d5
Concen: 3.167 ng
RT: 8.696 min Scan# 788
Delta R.T. -0.000 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion: 82	Resp: 20578
Ion Ratio	Lower Upper
82 100	
128 44.7	36.5 54.7
54 33.0	28.7 43.1

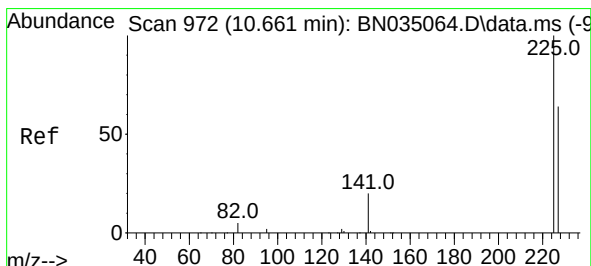
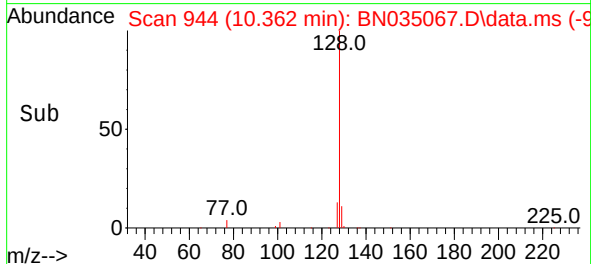
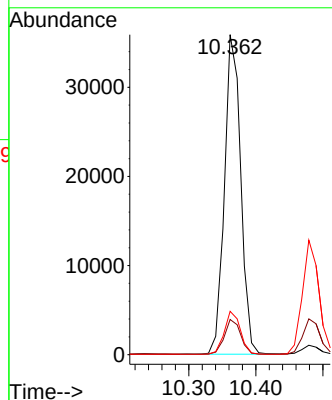
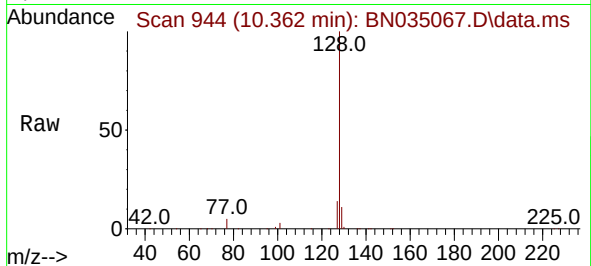




#9
Naphthalene
Concen: 3.093 ng
RT: 10.362 min Scan# 944
Delta R.T. -0.000 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

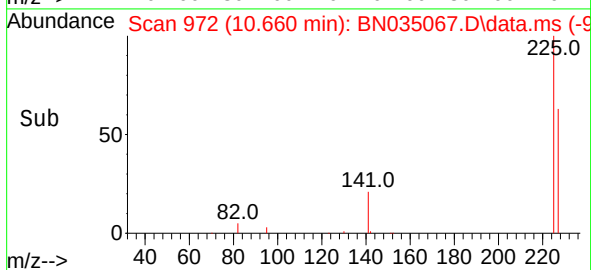
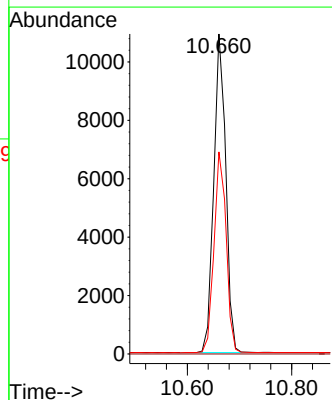
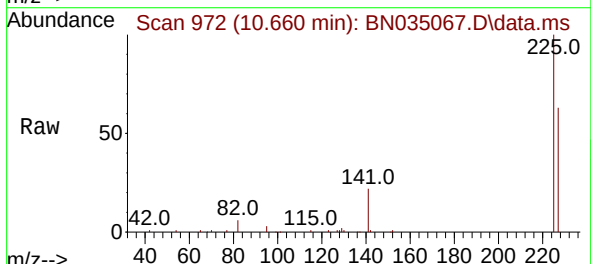
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ClientSampleId :
SSTDICC3.2

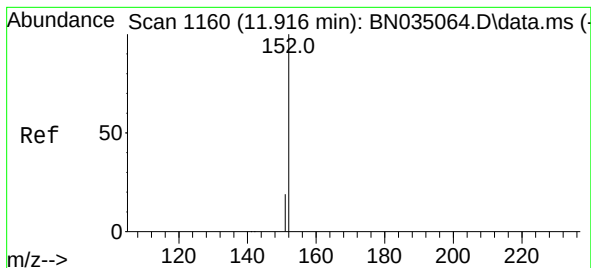
Tgt Ion:128 Resp: 60468
Ion Ratio Lower Upper
128 100
129 11.0 9.6 14.4
127 13.6 11.6 17.4



#10
Hexachlorobutadiene
Concen: 3.019 ng
RT: 10.660 min Scan# 972
Delta R.T. -0.000 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:225 Resp: 17300
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.8 51.5 77.3

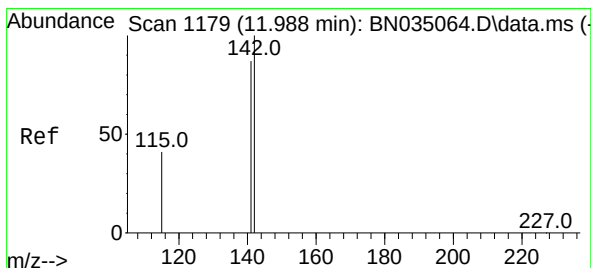
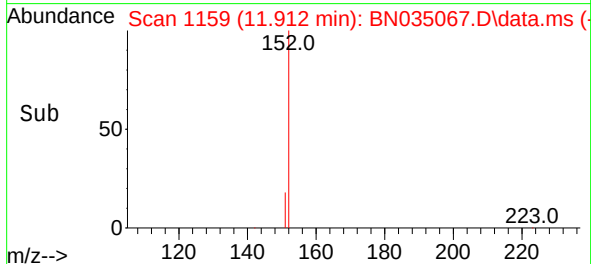
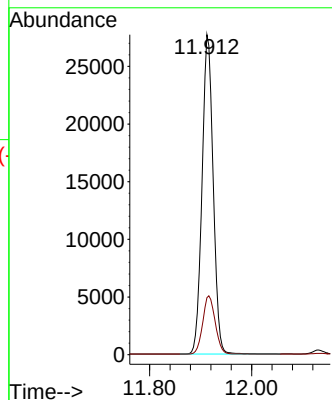
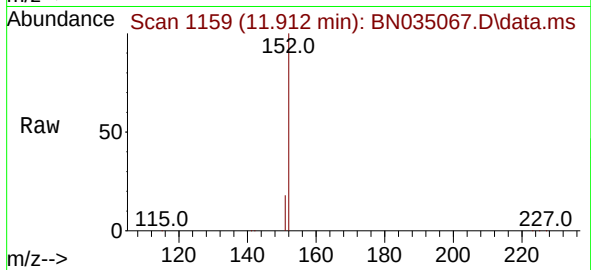




#11
2-Methylnaphthalene-d10
Concen: 3.157 ng
RT: 11.912 min Scan# 1159
Delta R.T. -0.004 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

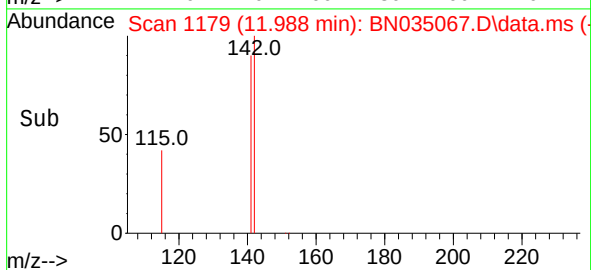
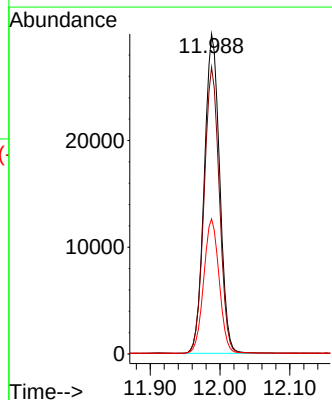
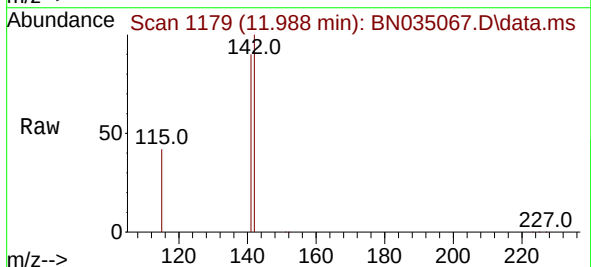
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ClientSampleId :
SSTDICC3.2

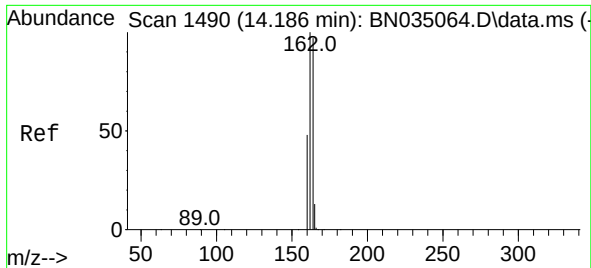
Tgt Ion:152 Resp: 42128
Ion Ratio Lower Upper
152 100
151 20.4 16.2 24.4



#12
2-Methylnaphthalene
Concen: 3.176 ng
RT: 11.988 min Scan# 1179
Delta R.T. -0.000 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:142 Resp: 45806
Ion Ratio Lower Upper
142 100
141 89.6 70.1 105.1
115 42.2 34.4 51.6

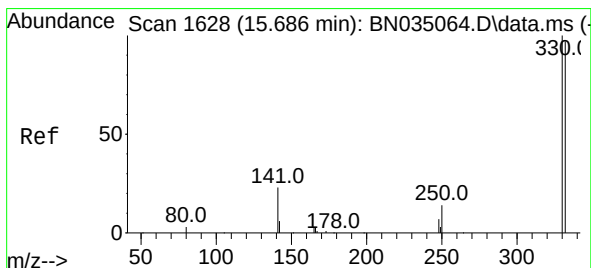
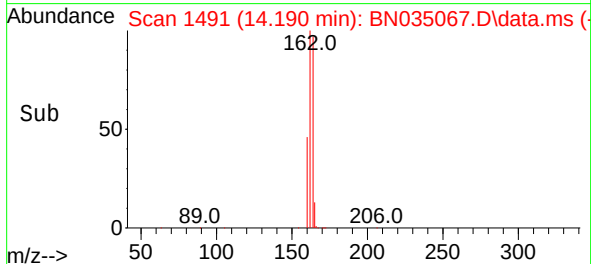
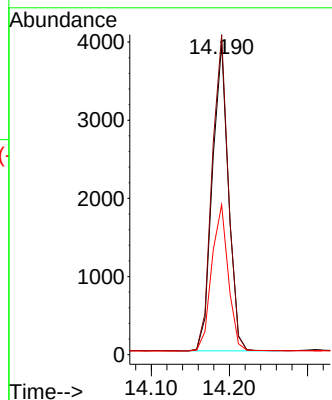
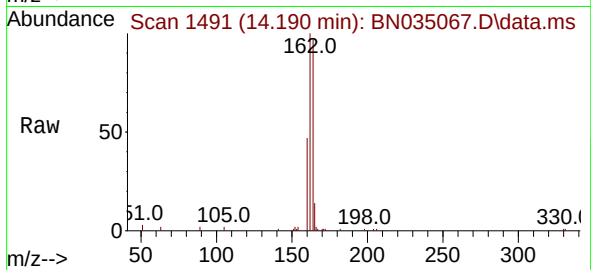




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.190 min Scan# 1490
Delta R.T. 0.004 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

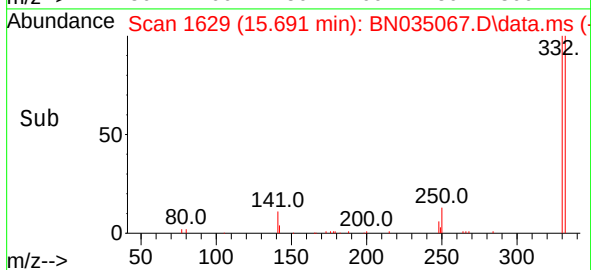
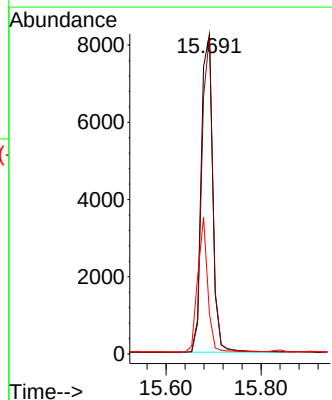
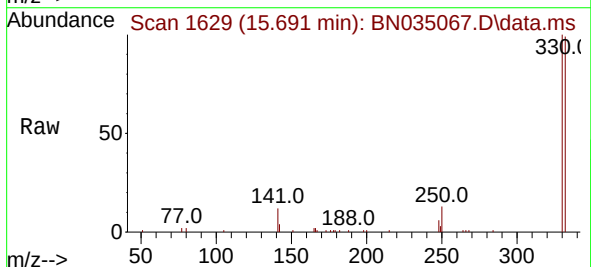
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ClientSampleId :
SSTDICC3.2

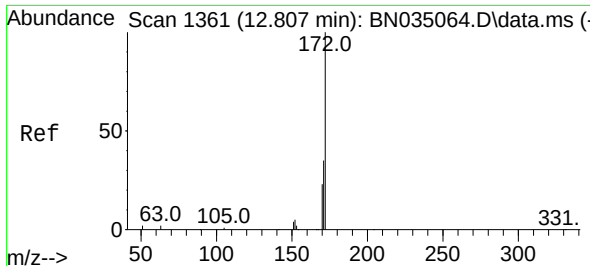
Tgt Ion:164 Resp: 5593
Ion Ratio Lower Upper
164 100
162 102.9 82.2 123.2
160 48.2 40.2 60.4



#14
2,4,6-Tribromophenol
Concen: 3.417 ng
RT: 15.691 min Scan# 1629
Delta R.T. 0.005 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:330 Resp: 13778
Ion Ratio Lower Upper
330 100
332 95.5 76.9 115.3
141 36.6 29.6 44.4





#15

2-Fluorobiphenyl

Concen: 3.150 ng

RT: 12.811 min Scan# 1362

Delta R.T. 0.004 min

Lab File: BN035067.D

Acq: 13 Nov 2024 15:39

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

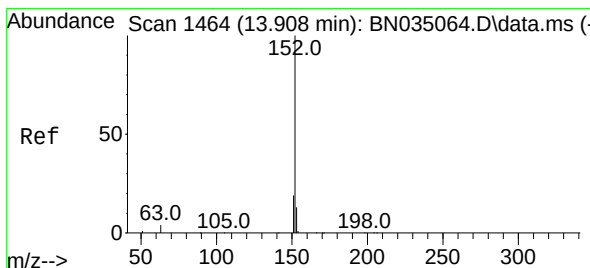
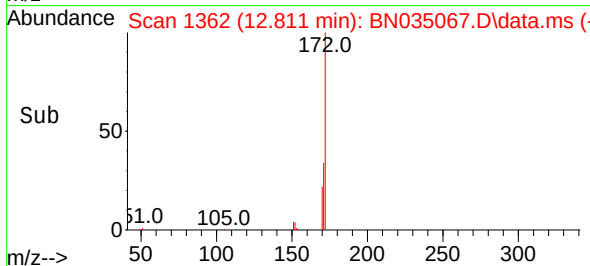
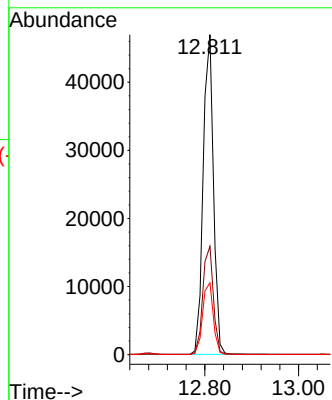
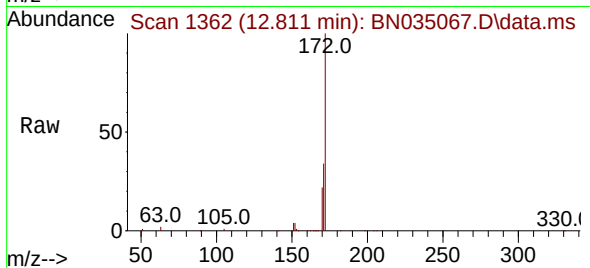
Tgt Ion:172 Resp: 71543

Ion Ratio Lower Upper

172 100

171 33.9 28.2 42.4

170 22.5 19.0 28.6



#16

Acenaphthylene

Concen: 3.286 ng

RT: 13.901 min Scan# 1464

Delta R.T. -0.007 min

Lab File: BN035067.D

Acq: 13 Nov 2024 15:39

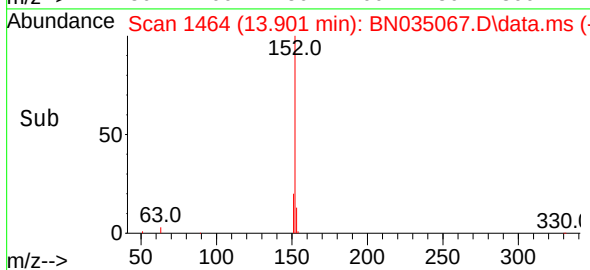
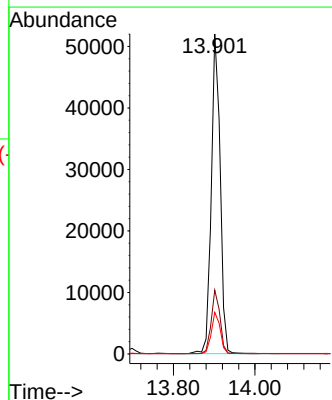
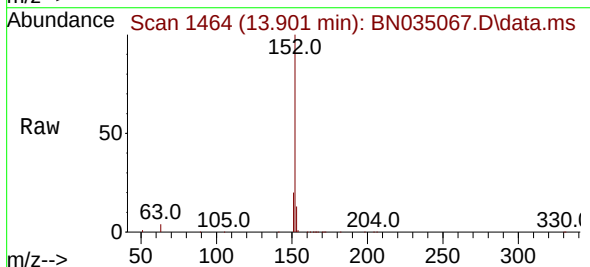
Tgt Ion:152 Resp: 78553

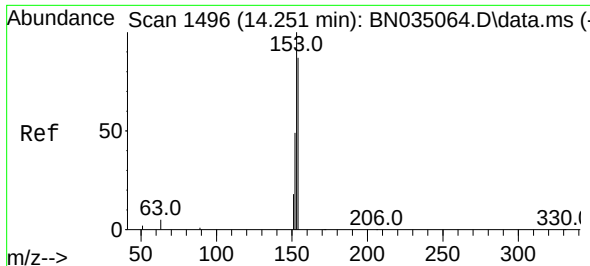
Ion Ratio Lower Upper

152 100

151 19.5 15.8 23.8

153 13.0 10.2 15.4

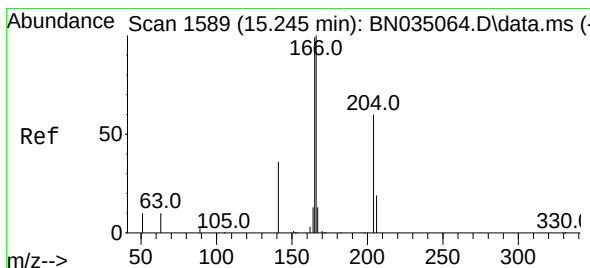
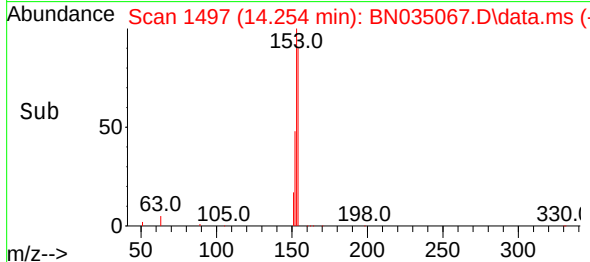
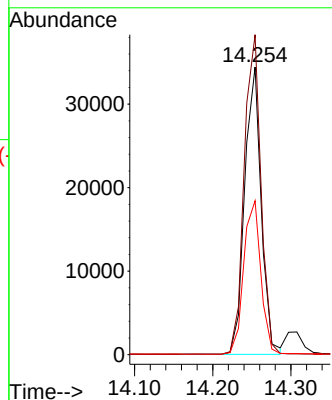
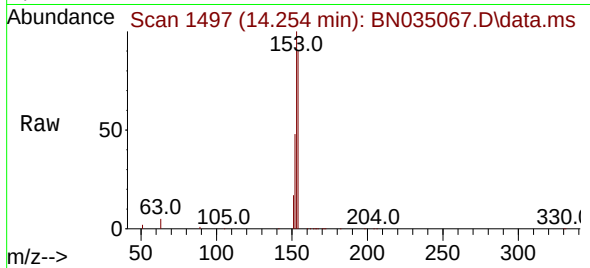




#17
Acenaphthene
Concen: 3.227 ng
RT: 14.254 min Scan# 1497
Delta R.T. 0.004 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

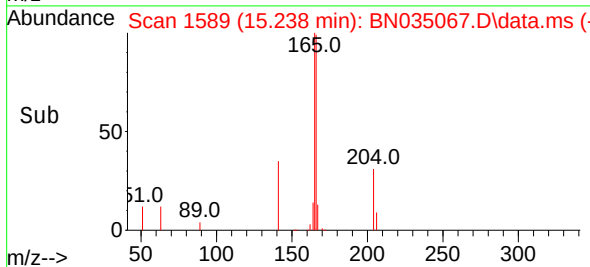
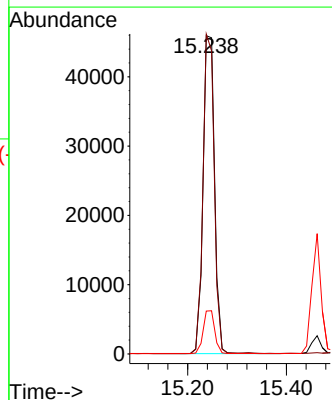
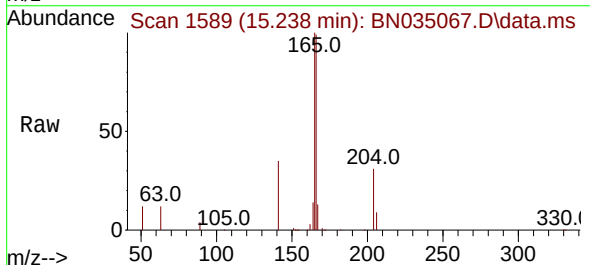
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

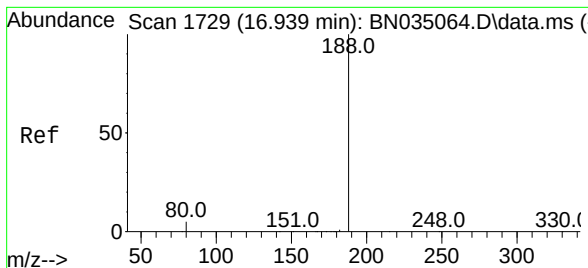
Tgt Ion:154 Resp: 50542
Ion Ratio Lower Upper
154 100
153 112.9 91.6 137.4
152 55.6 45.8 68.6



#18
Fluorene
Concen: 3.215 ng
RT: 15.238 min Scan# 1589
Delta R.T. -0.007 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:166 Resp: 74092
Ion Ratio Lower Upper
166 100
165 97.9 79.1 118.7
167 13.5 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.932 min Scan# 1

Delta R.T. -0.007 min

Lab File: BN035067.D

Acq: 13 Nov 2024 15:39

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

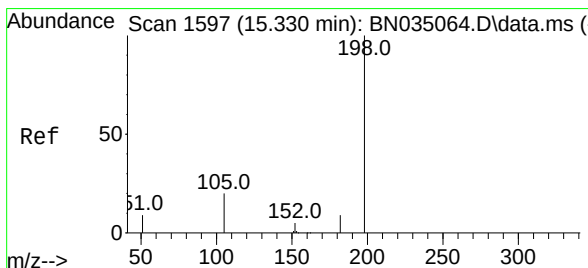
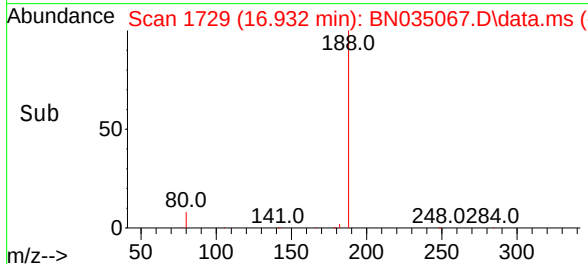
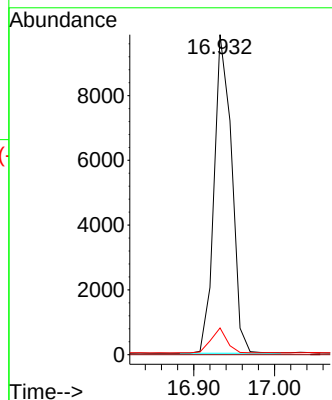
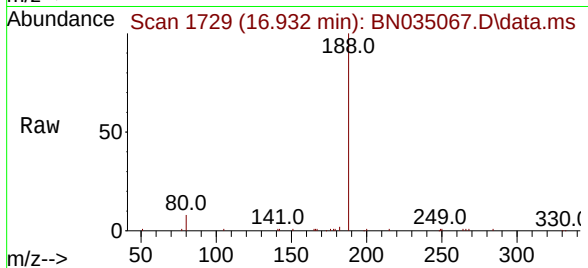
Tgt Ion:188 Resp: 14864

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.3 4.3 6.5#



#20

4,6-Dinitro-2-methylphenol

Concen: 3.661 ng

RT: 15.323 min Scan# 1597

Delta R.T. -0.007 min

Lab File: BN035067.D

Acq: 13 Nov 2024 15:39

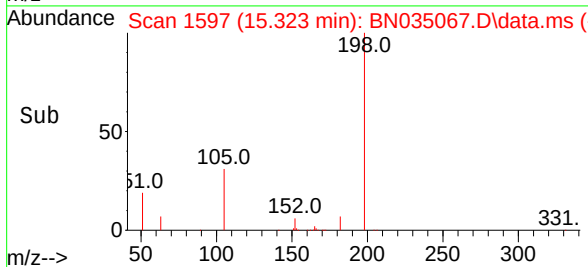
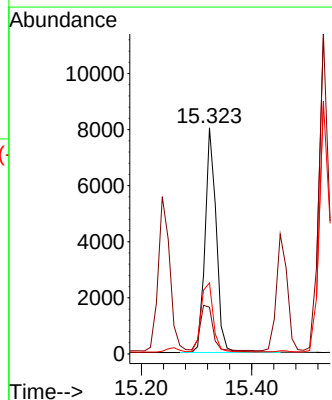
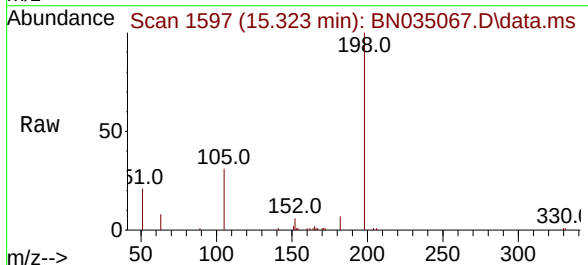
Tgt Ion:198 Resp: 11328

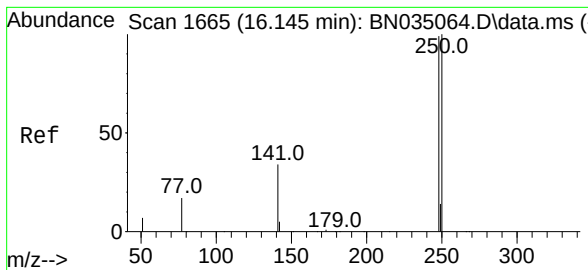
Ion Ratio Lower Upper

198 100

51 20.6 29.9 44.9#

105 31.4 23.7 35.5

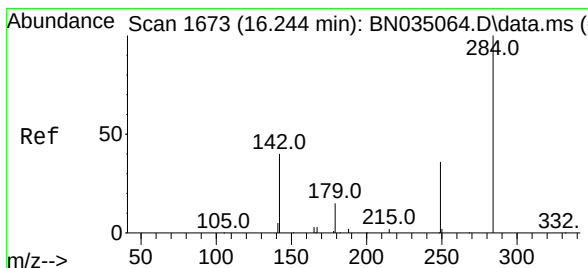
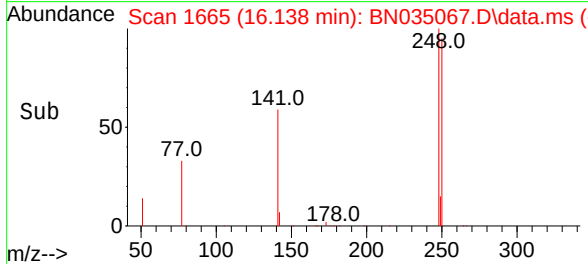
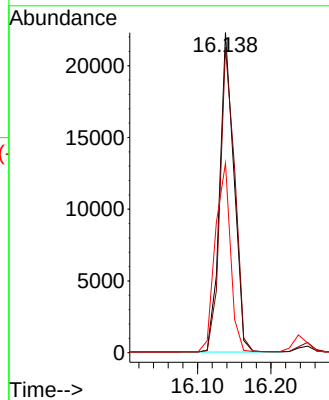
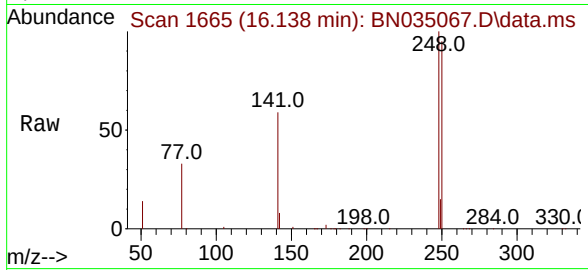




#21
4-Bromophenyl-phenylether
Concen: 3.169 ng
RT: 16.138 min Scan# 1665
Delta R.T. -0.007 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

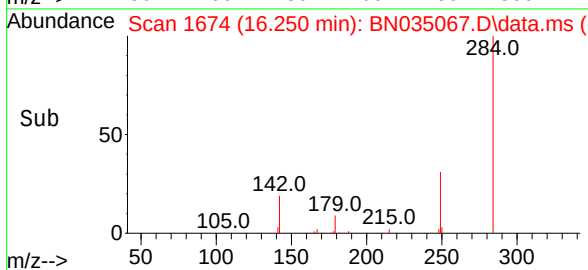
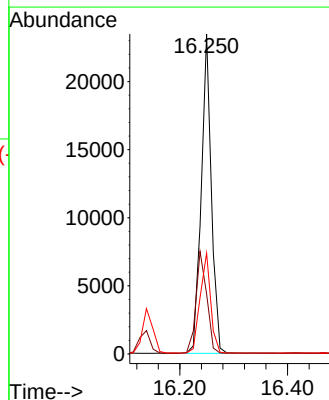
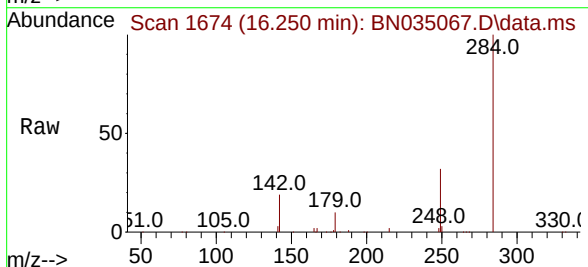
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

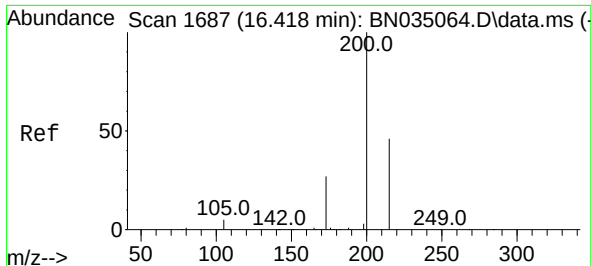
Tgt Ion:248 Resp: 30013
Ion Ratio Lower Upper
248 100
250 95.4 81.2 121.8
141 59.2 29.1 43.7#



#22
Hexachlorobenzene
Concen: 3.117 ng
RT: 16.250 min Scan# 1674
Delta R.T. 0.005 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:284 Resp: 30635
Ion Ratio Lower Upper
284 100
142 33.9 28.2 42.4
249 32.8 26.2 39.2

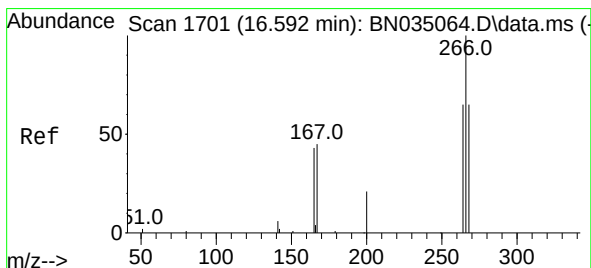
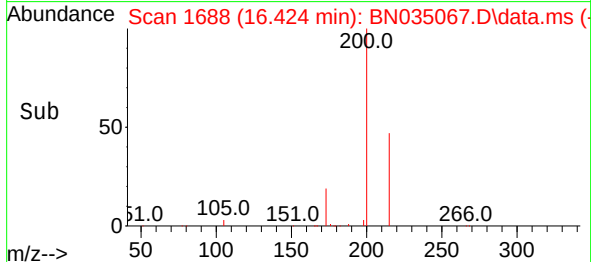
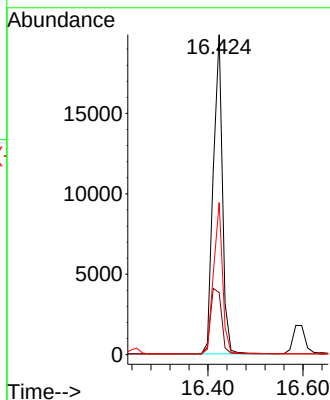
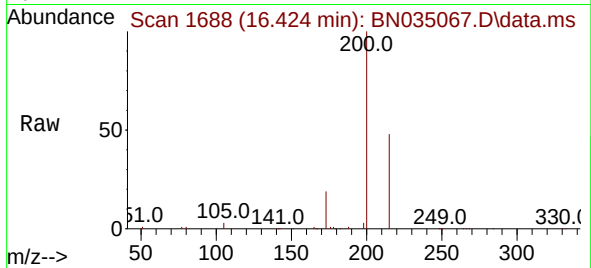




#23
 Atrazine
 Concen: 3.127 ng
 RT: 16.424 min Scan# 1688
 Delta R.T. 0.005 min
 Lab File: BN035067.D
 Acq: 13 Nov 2024 15:39

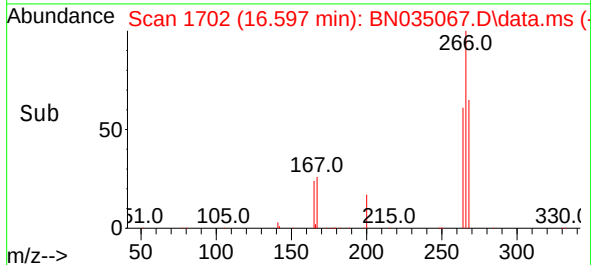
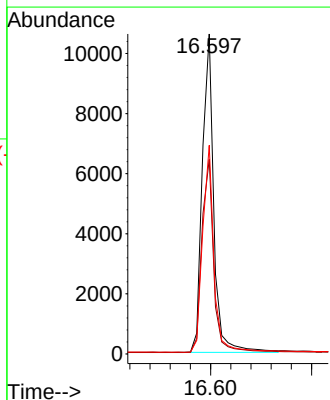
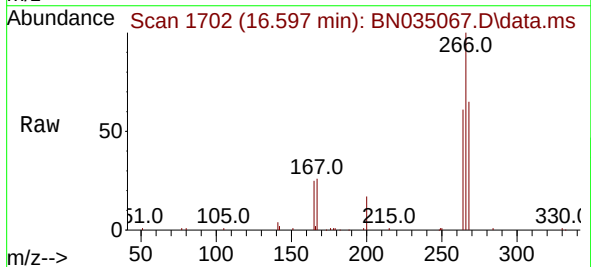
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

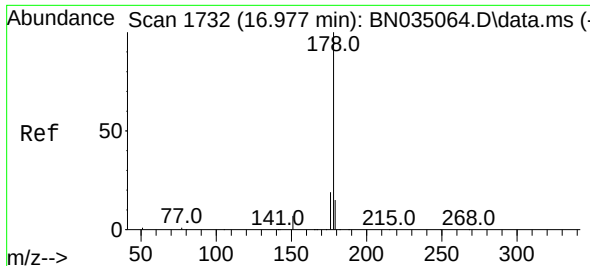
Tgt Ion:200 Resp: 26567
 Ion Ratio Lower Upper
 200 100
 173 19.4 22.6 33.8#
 215 47.5 37.8 56.6



#24
 Pentachlorophenol
 Concen: 3.656 ng
 RT: 16.597 min Scan# 1702
 Delta R.T. 0.005 min
 Lab File: BN035067.D
 Acq: 13 Nov 2024 15:39

Tgt Ion:266 Resp: 16789
 Ion Ratio Lower Upper
 266 100
 264 62.8 49.4 74.0
 268 64.0 52.6 79.0

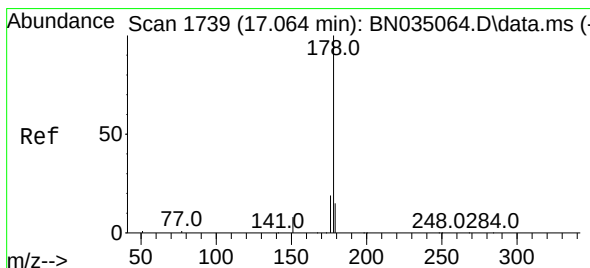
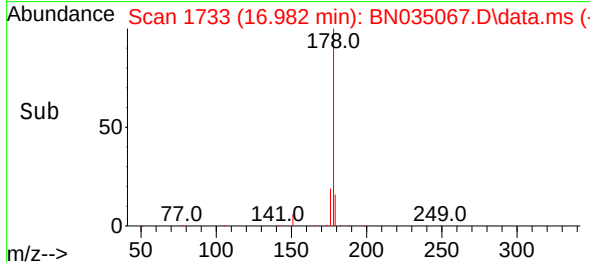
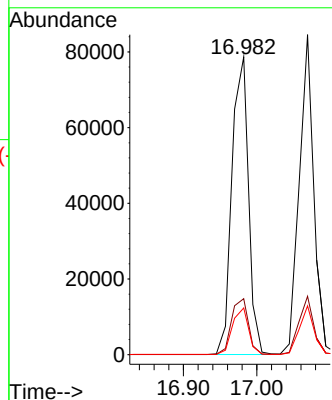
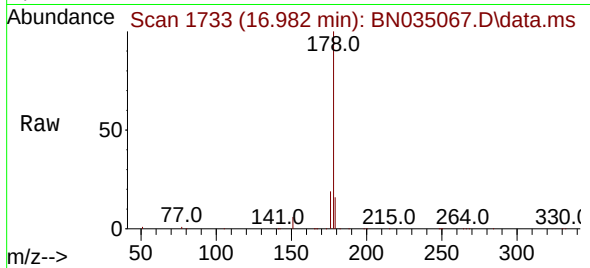




#25
 Phenanthrene
 Concen: 3.144 ng
 RT: 16.982 min Scan# 11
 Delta R.T. 0.005 min
 Lab File: BN035067.D
 Acq: 13 Nov 2024 15:39

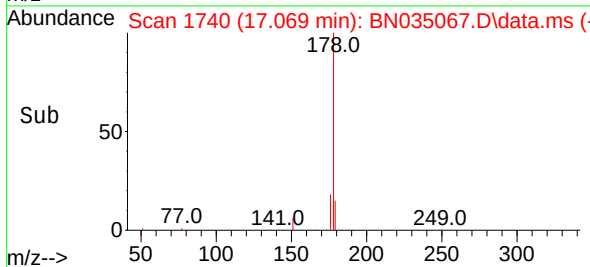
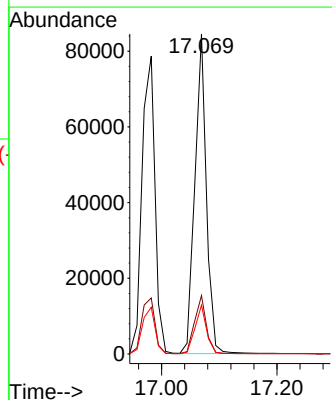
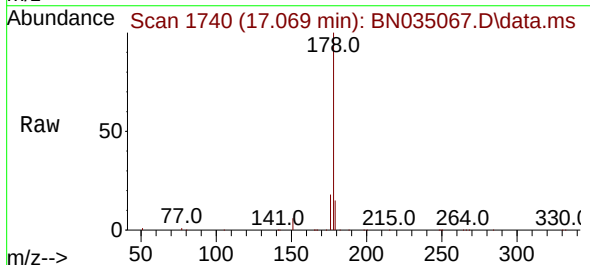
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

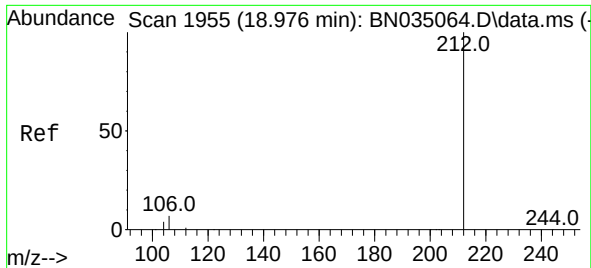
Tgt Ion:178 Resp: 123000
 Ion Ratio Lower Upper
 178 100
 176 19.2 15.2 22.8
 179 15.3 12.6 18.8



#26
 Anthracene
 Concen: 3.265 ng
 RT: 17.069 min Scan# 1740
 Delta R.T. 0.005 min
 Lab File: BN035067.D
 Acq: 13 Nov 2024 15:39

Tgt Ion:178 Resp: 117301
 Ion Ratio Lower Upper
 178 100
 176 18.5 14.6 22.0
 179 15.2 12.2 18.2

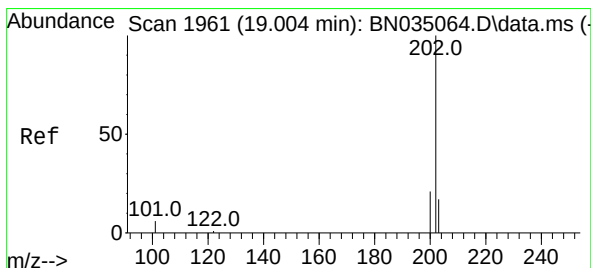
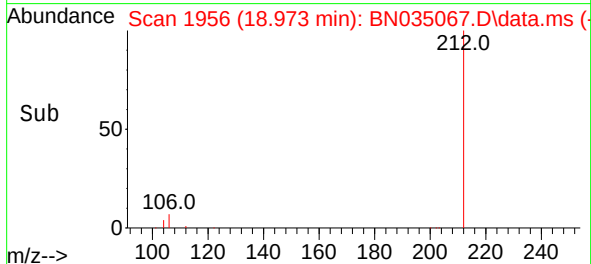
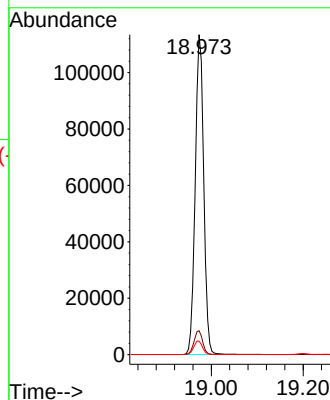
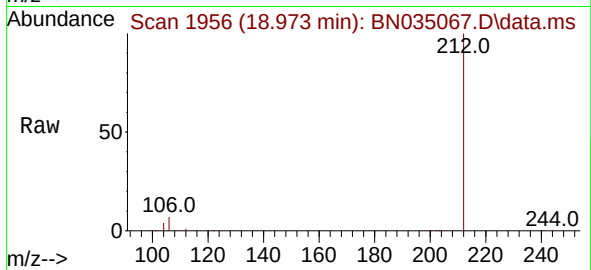




#27
Fluoranthene-d10
Concen: 3.191 ng
RT: 18.973 min Scan# 1955
Delta R.T. -0.002 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

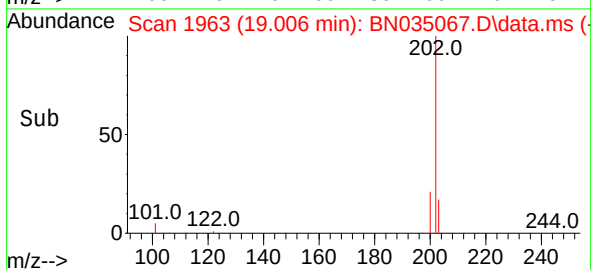
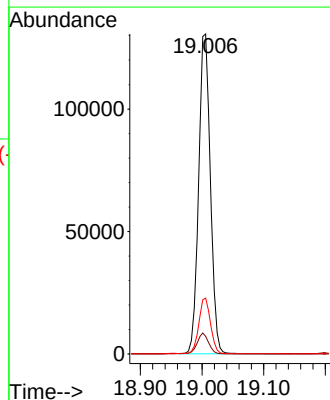
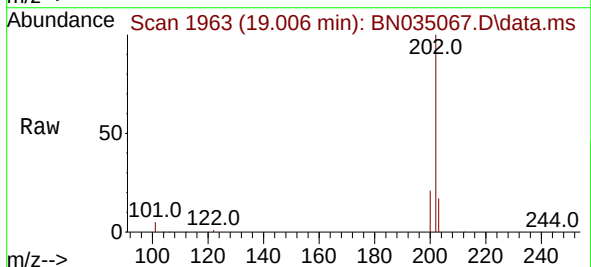
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

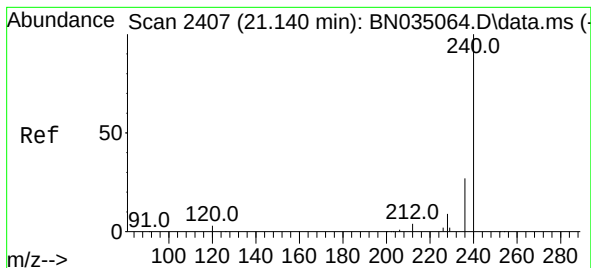
Tgt Ion:212 Resp: 145321
Ion Ratio Lower Upper
212 100
106 7.5 6.0 9.0
104 4.3 3.5 5.3



#28
Fluoranthene
Concen: 3.212 ng
RT: 19.006 min Scan# 1963
Delta R.T. 0.002 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:202 Resp: 172759
Ion Ratio Lower Upper
202 100
101 6.4 5.2 7.8
203 17.3 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.133 min Scan# 2408

Delta R.T. -0.007 min

Lab File: BN035067.D

Acq: 13 Nov 2024 15:39

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

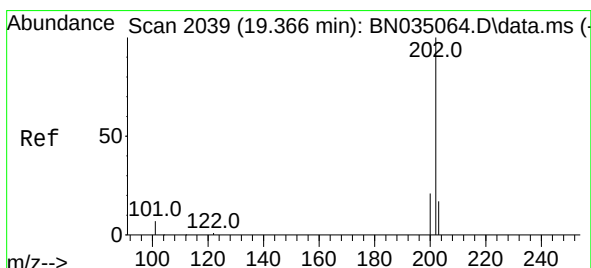
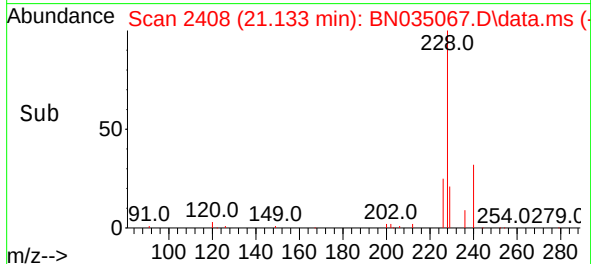
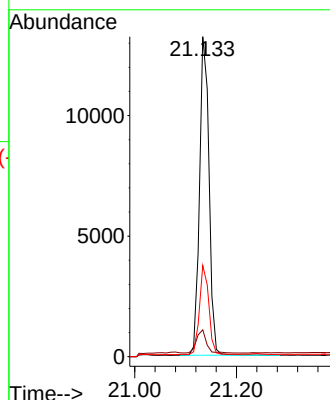
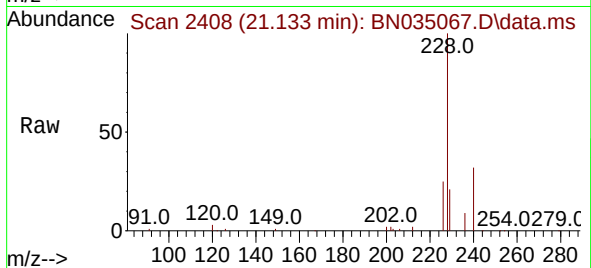
Tgt Ion:240 Resp: 17096

Ion Ratio Lower Upper

240 100

120 8.4 3.8 5.6#

236 28.5 22.2 33.2



#30

Pyrene

Concen: 3.125 ng

RT: 19.368 min Scan# 2041

Delta R.T. 0.002 min

Lab File: BN035067.D

Acq: 13 Nov 2024 15:39

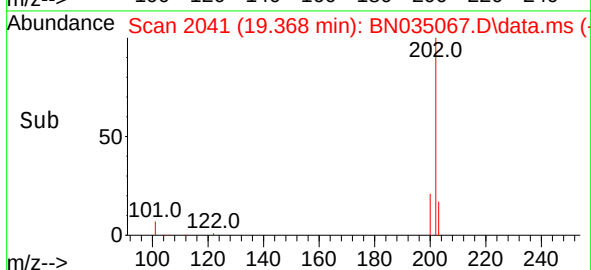
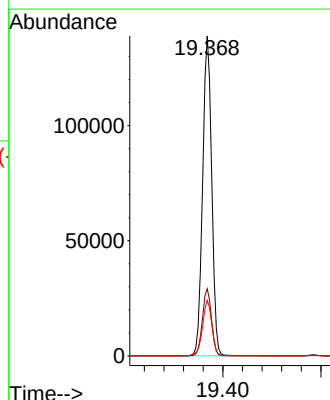
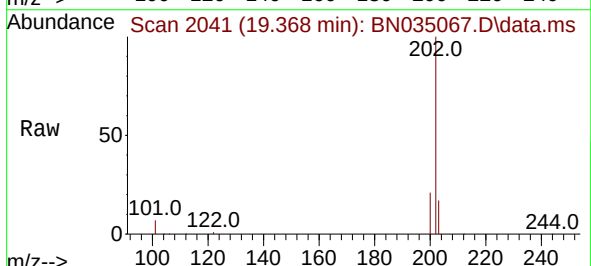
Tgt Ion:202 Resp: 177937

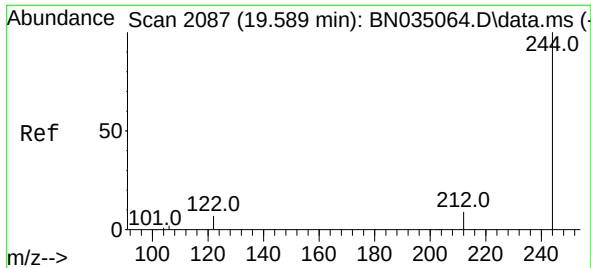
Ion Ratio Lower Upper

202 100

200 21.0 16.7 25.1

203 17.8 14.2 21.4

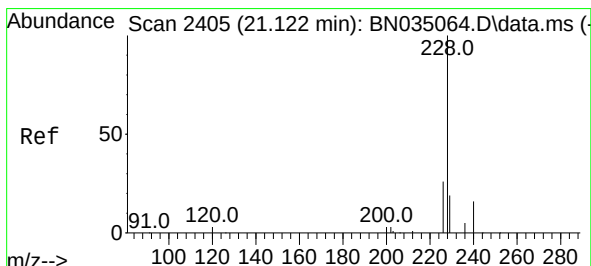
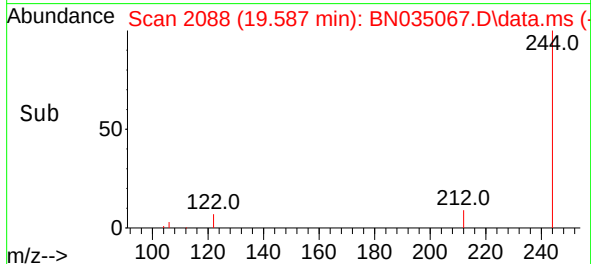
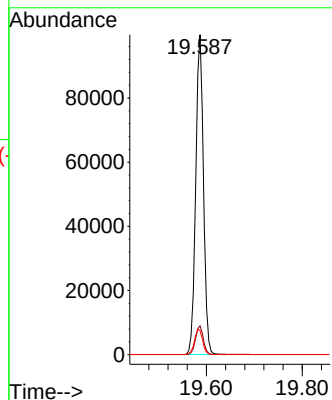
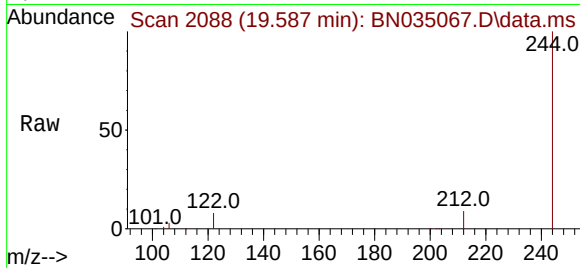




#31
Terphenyl-d14
Concen: 3.115 ng
RT: 19.587 min Scan# 2087
Delta R.T. -0.002 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

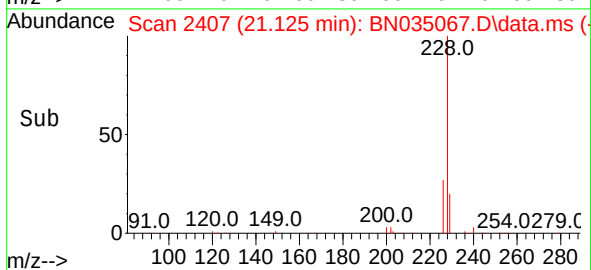
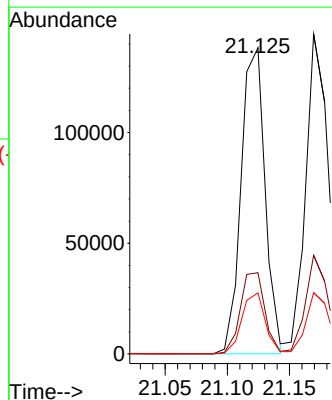
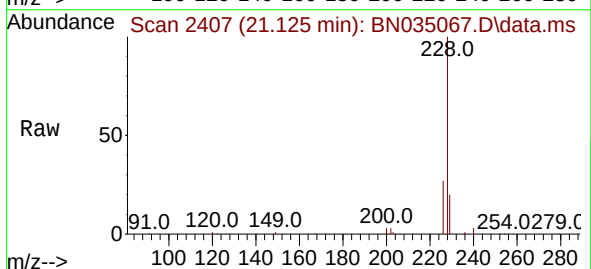
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

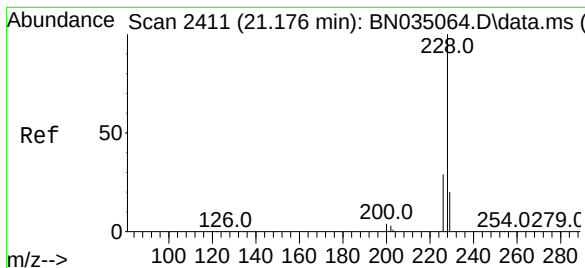
Tgt Ion:244 Resp: 111732
Ion Ratio Lower Upper
244 100
212 9.0 7.6 11.4
122 7.6 6.1 9.1



#32
Benzo(a)anthracene
Concen: 3.114 ng
RT: 21.125 min Scan# 2407
Delta R.T. 0.002 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:228 Resp: 185345
Ion Ratio Lower Upper
228 100
226 26.5 21.4 32.0
229 20.0 15.7 23.5





#33

Chrysene

Concen: 3.087 ng

RT: 21.169 min Scan# 2411

Delta R.T. -0.007 min

Lab File: BN035067.D

Acq: 13 Nov 2024 15:39

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

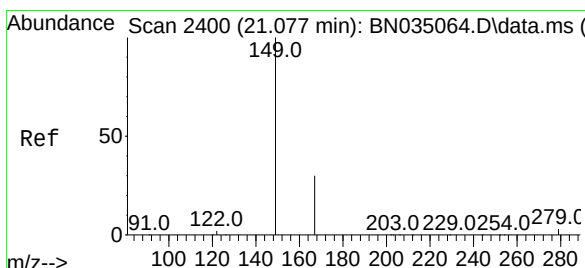
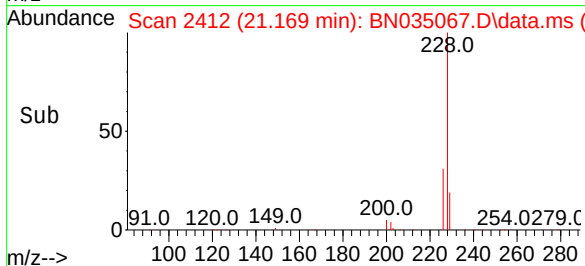
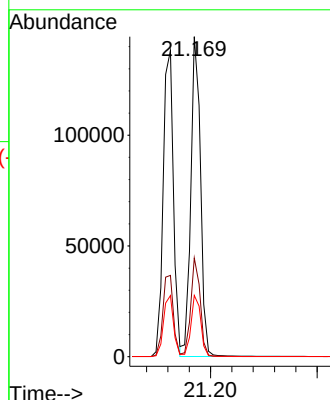
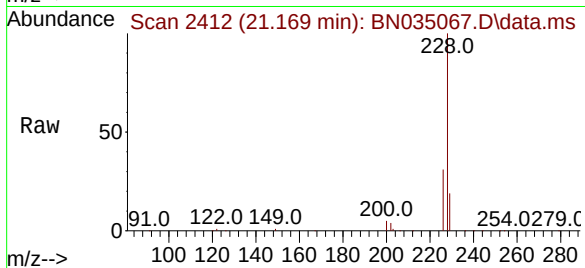
Tgt Ion:228 Resp: 182053

Ion Ratio Lower Upper

228 100

226 30.9 23.7 35.5

229 19.1 16.2 24.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 3.061 ng

RT: 21.080 min Scan# 2402

Delta R.T. 0.002 min

Lab File: BN035067.D

Acq: 13 Nov 2024 15:39

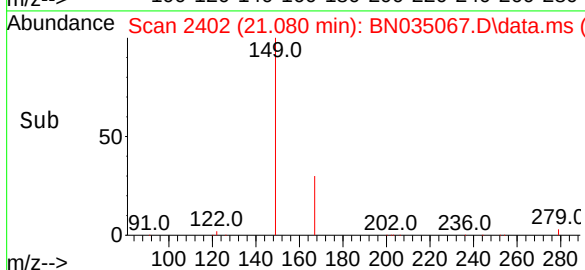
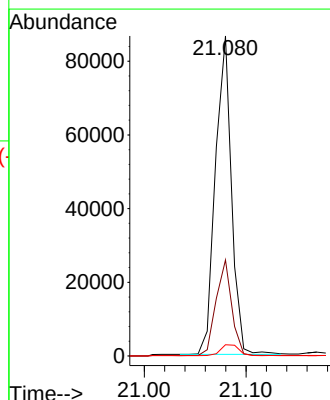
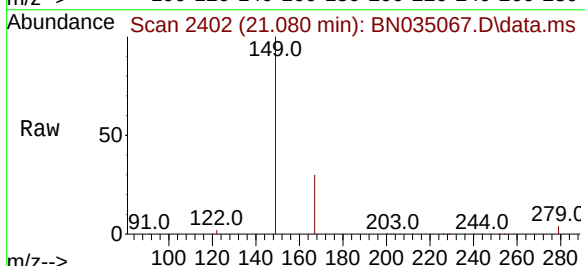
Tgt Ion:149 Resp: 94826

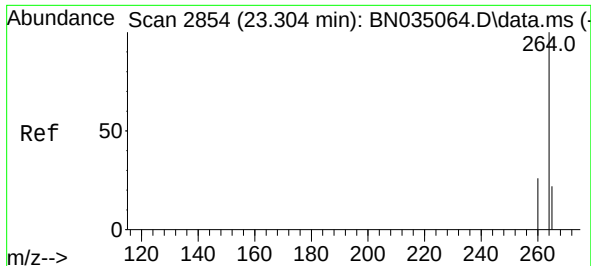
Ion Ratio Lower Upper

149 100

167 29.3 23.2 34.8

279 3.9 3.2 4.8

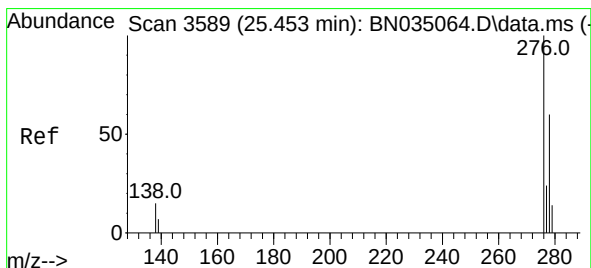
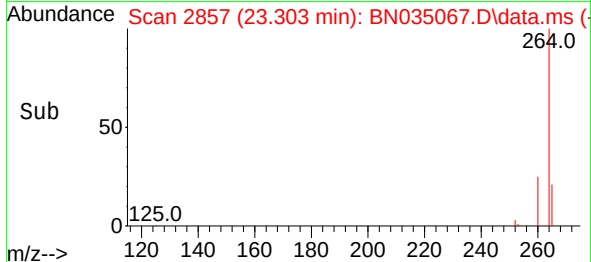
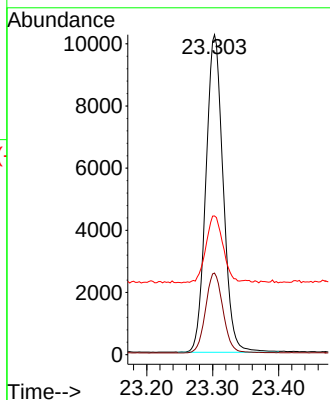
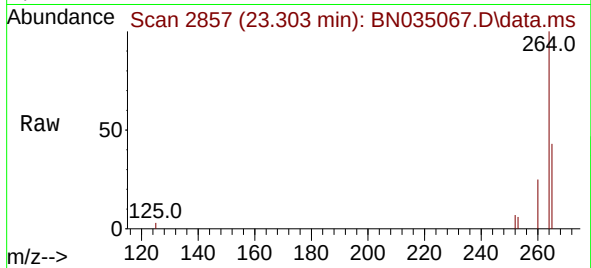




#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.303 min Scan# 21
 Delta R.T. -0.001 min
 Lab File: BN035067.D
 Acq: 13 Nov 2024 15:39

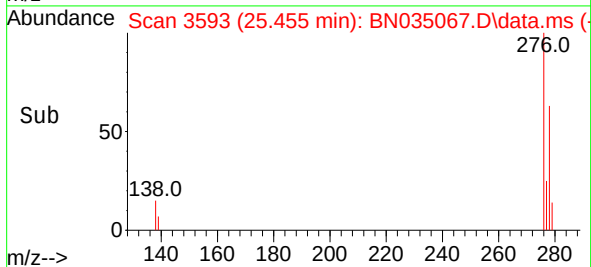
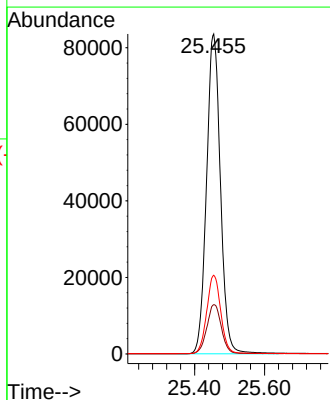
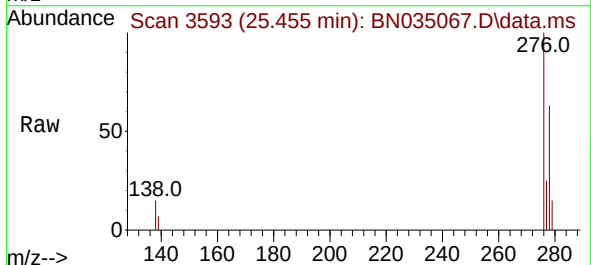
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

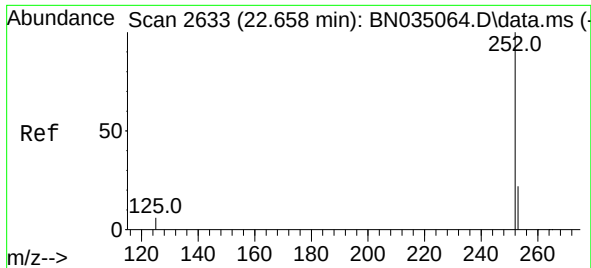
Tgt Ion:264 Resp: 18582
 Ion Ratio Lower Upper
 264 100
 260 25.5 20.9 31.3
 265 43.4 35.4 53.2



#36
 Indeno(1,2,3-cd)pyrene
 Concen: 3.108 ng
 RT: 25.455 min Scan# 3593
 Delta R.T. 0.002 min
 Lab File: BN035067.D
 Acq: 13 Nov 2024 15:39

Tgt Ion:276 Resp: 230419
 Ion Ratio Lower Upper
 276 100
 138 16.0 13.0 19.4
 277 24.8 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 3.146 ng

RT: 22.701 min Scan# 2651

Delta R.T. 0.043 min

Lab File: BN035067.D

Acq: 13 Nov 2024 15:39

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

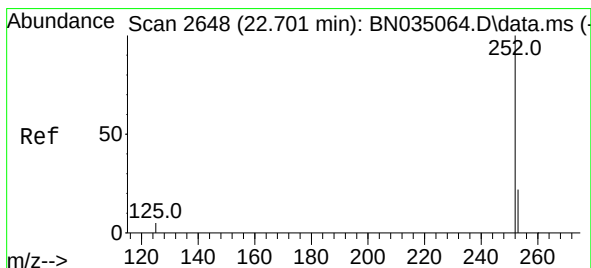
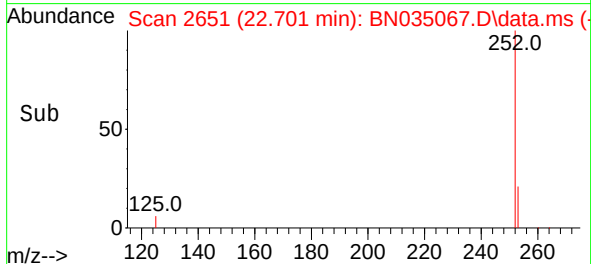
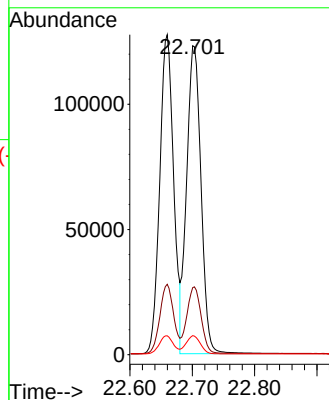
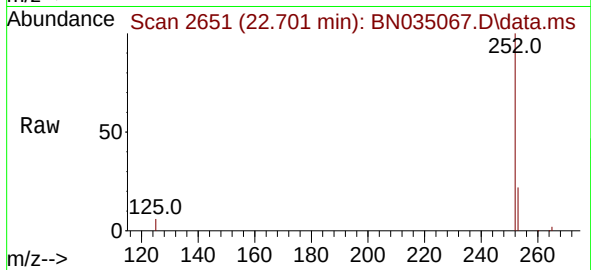
Tgt Ion:252 Resp: 196686

Ion Ratio Lower Upper

252 100

253 21.7 19.3 28.9

125 6.2 6.2 9.2



#38

Benzo(k)fluoranthene

Concen: 3.144 ng

RT: 22.701 min Scan# 2651

Delta R.T. -0.001 min

Lab File: BN035067.D

Acq: 13 Nov 2024 15:39

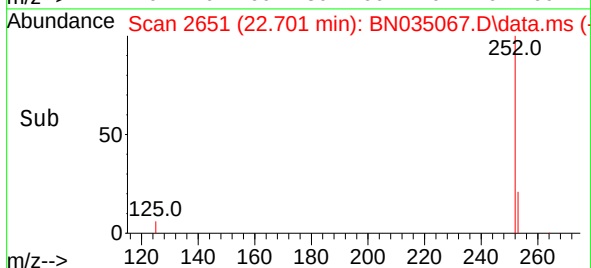
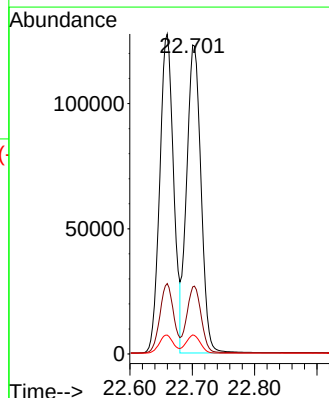
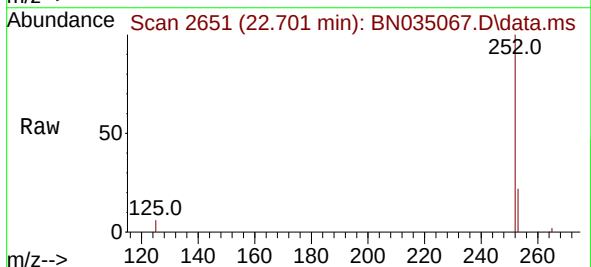
Tgt Ion:252 Resp: 196686

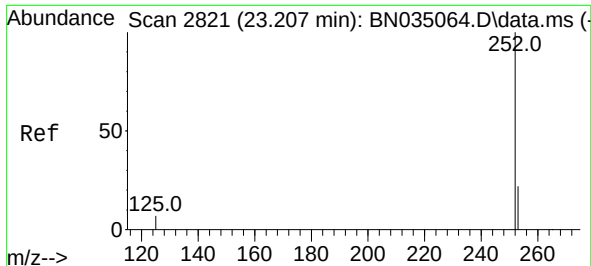
Ion Ratio Lower Upper

252 100

253 21.7 19.5 29.3

125 6.2 6.5 9.7#





#39

Benzo(a)pyrene

Concen: 3.155 ng

RT: 23.209 min Scan# 21

Delta R.T. 0.002 min

Lab File: BN035067.D

Acq: 13 Nov 2024 15:39

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

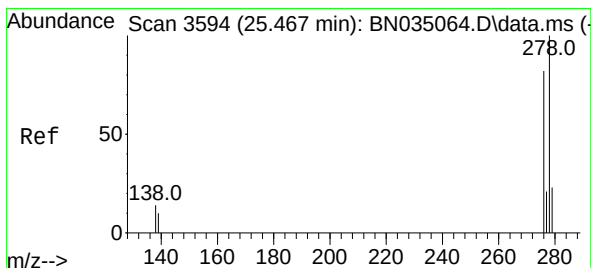
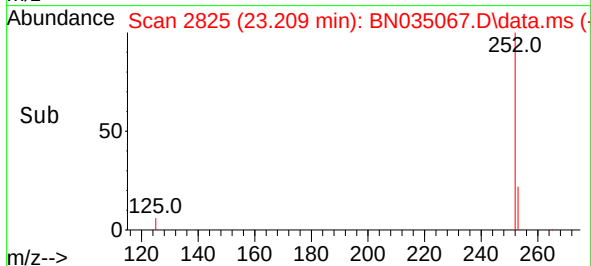
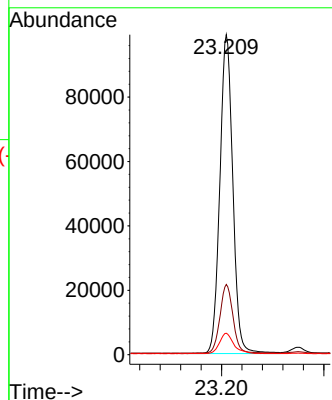
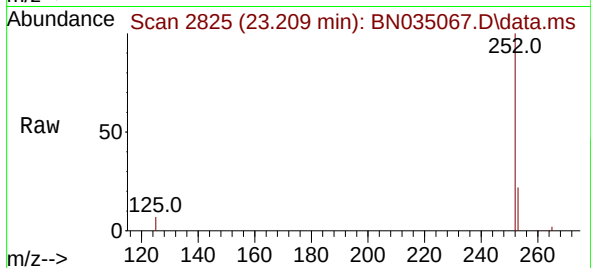
Tgt Ion:252 Resp: 173547

Ion Ratio Lower Upper

252 100

253 22.0 20.1 30.1

125 6.7 7.5 11.3#



#40

Dibenzo(a,h)anthracene

Concen: 3.127 ng

RT: 25.466 min Scan# 3597

Delta R.T. -0.001 min

Lab File: BN035067.D

Acq: 13 Nov 2024 15:39

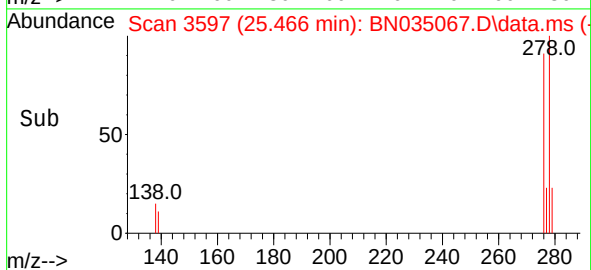
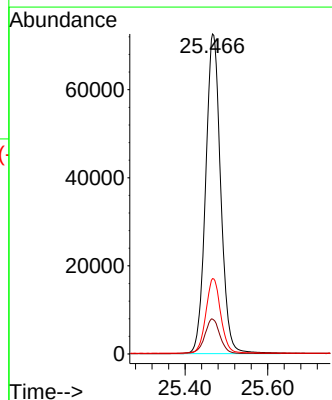
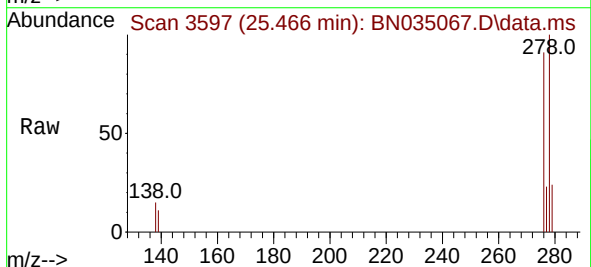
Tgt Ion:278 Resp: 183641

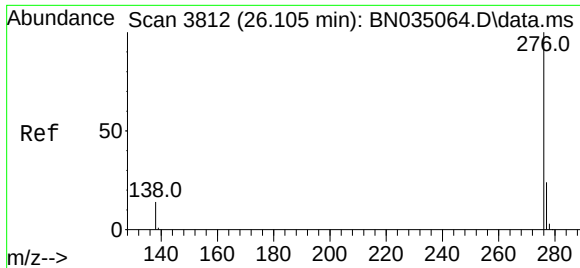
Ion Ratio Lower Upper

278 100

139 10.9 9.3 13.9

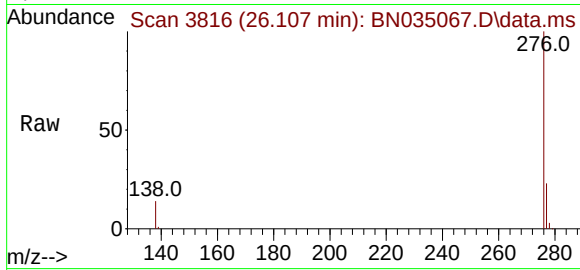
279 23.6 19.7 29.5



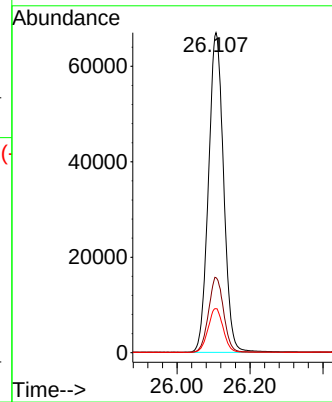
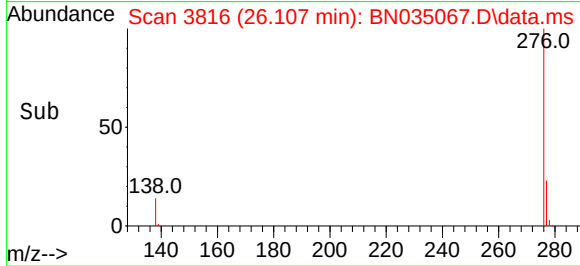


#41
Benzo(g,h,i)perylene
Concen: 3.079 ng
RT: 26.107 min Scan# 3816
Delta R.T. 0.002 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2



Tgt Ion:	276	Resp:	192341
Ion	Ratio	Lower	Upper
276	100		
277	23.4	19.9	29.9
138	13.8	11.6	17.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
 Data File : BN035069.D
 Acq On : 13 Nov 2024 16:51
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN111324

Quant Time: Nov 13 17:18:36 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 17:18:14 2024
 Response via : Initial Calibration

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

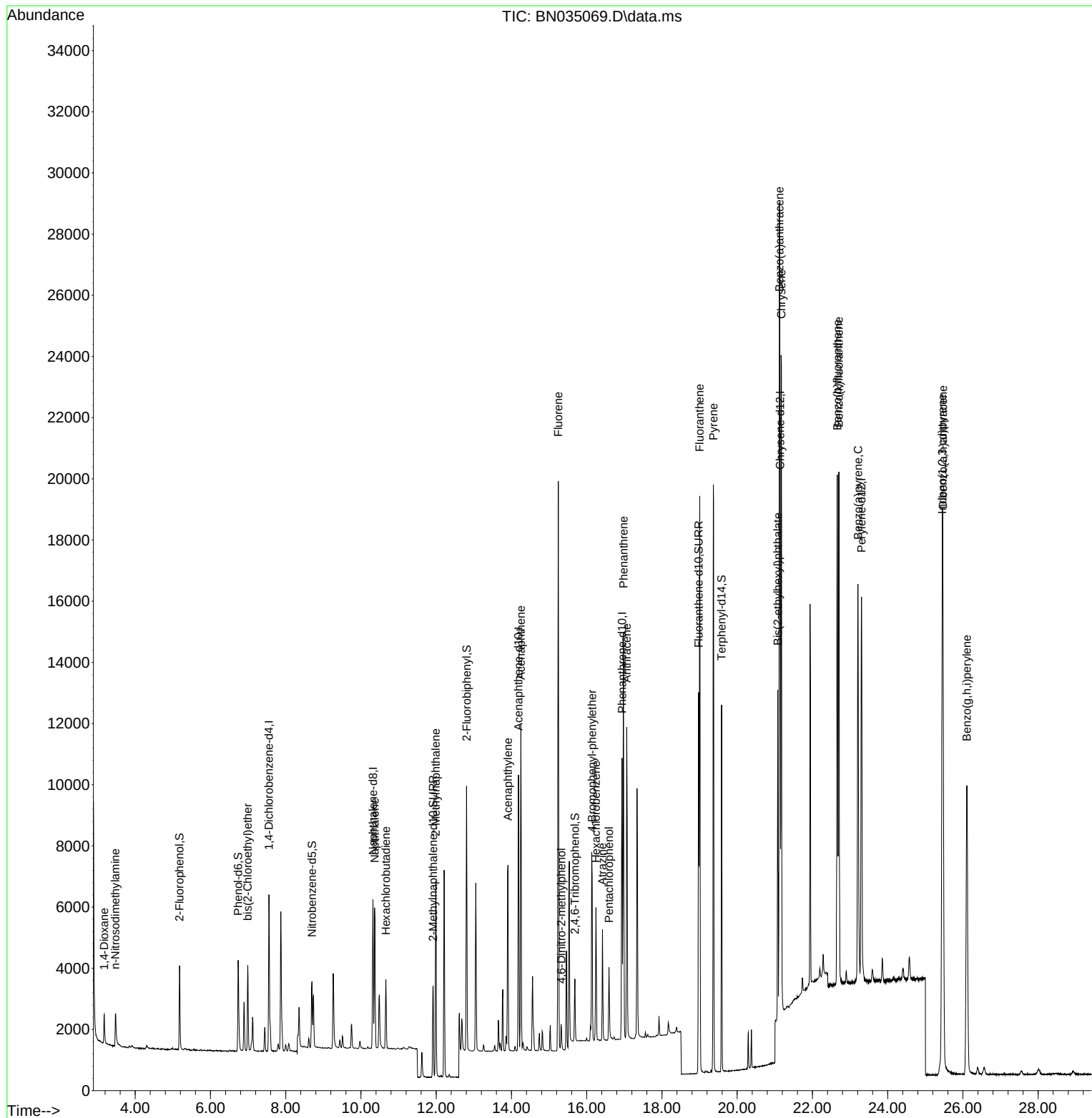
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.553	152	2509	0.400	ng	0.00
7) Naphthalene-d8	10.319	136	6367	0.400	ng	0.00
13) Acenaphthene-d10	14.186	164	4967	0.400	ng	0.00
19) Phenanthrene-d10	16.939	188	12682	0.400	ng	0.00
29) Chrysene-d12	21.140	240	14055	0.400	ng	0.00
35) Perylene-d12	23.304	264	15724	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	2342	0.368	ng	0.00
5) Phenol-d6	6.737	99	2867	0.359	ng	0.00
8) Nitrobenzene-d5	8.696	82	1983	0.358	ng	0.00
11) 2-Methylnaphthalene-d10	11.916	152	4166	0.367	ng	0.00
14) 2,4,6-Tribromophenol	15.686	330	1154	0.322	ng	0.00
15) 2-Fluorobiphenyl	12.807	172	7205	0.357	ng	0.00
27) Fluoranthene-d10	18.976	212	14530	0.374	ng	0.00
31) Terphenyl-d14	19.584	244	11240	0.381	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.177	88	845	0.371	ng	99
3) n-Nitrosodimethylamine	3.473	42	781	0.368	ng	# 94
6) bis(2-Chloroethyl)ether	6.990	93	2218	0.370	ng	98
9) Naphthalene	10.362	128	6092	0.366	ng	100
10) Hexachlorobutadiene	10.661	225	1817	0.373	ng	# 98
12) 2-Methylnaphthalene	11.988	142	4513	0.368	ng	99
16) Acenaphthylene	13.908	152	7387	0.348	ng	100
17) Acenaphthene	14.250	154	4995	0.359	ng	99
18) Fluorene	15.245	166	7206	0.352	ng	100
20) 4,6-Dinitro-2-methylph...	15.330	198	830	0.314	ng	# 90
21) 4-Bromophenyl-phenylether	16.145	248	3001	0.371	ng	98
22) Hexachlorobenzene	16.244	284	3175	0.379	ng	99
23) Atrazine	16.418	200	2682	0.370	ng	98
24) Pentachlorophenol	16.592	266	1269	0.324	ng	98
25) Phenanthrene	16.977	178	12517	0.375	ng	99
26) Anthracene	17.063	178	11219	0.366	ng	100
28) Fluoranthene	19.004	202	17084	0.372	ng	100
30) Pyrene	19.366	202	17580	0.376	ng	100
32) Benzo(a)anthracene	21.122	228	18406	0.376	ng	99
33) Chrysene	21.176	228	18693	0.386	ng	99
34) Bis(2-ethylhexyl)phtha...	21.077	149	8691	0.338	ng	100
36) Indeno(1,2,3-cd)pyrene	25.450	276	23546	0.375	ng	99
37) Benzo(b)fluoranthene	22.660	252	20039	0.379	ng	99
38) Benzo(k)fluoranthene	22.701	252	20114	0.380	ng	98
39) Benzo(a)pyrene	23.210	252	17596	0.378	ng	99
40) Dibenzo(a,h)anthracene	25.467	278	18547	0.373	ng	98
41) Benzo(g,h,i)perylene	26.104	276	19649	0.372	ng	99

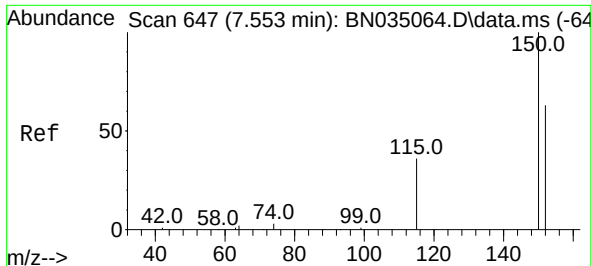
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
Data File : BN035069.D
Acq On : 13 Nov 2024 16:51
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN111324

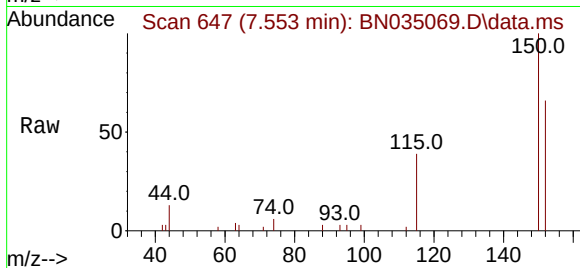
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Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 17:18:14 2024
Response via : Initial Calibration



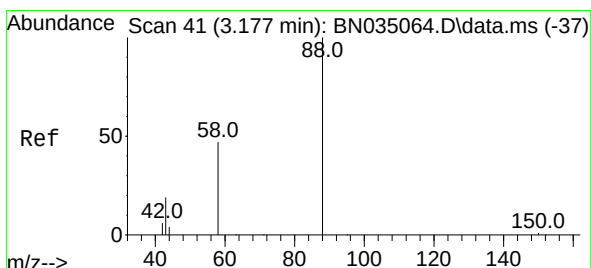
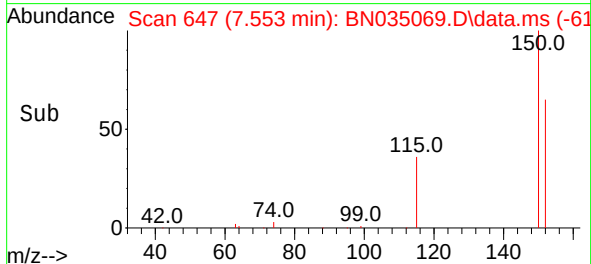
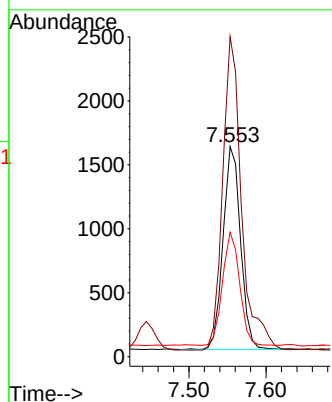


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.553 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Instrument :
BNA_N
ClientSampleId :
ICVBN111324

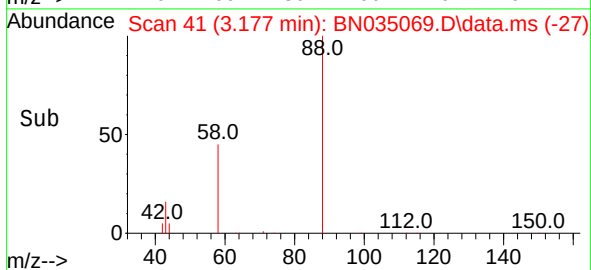
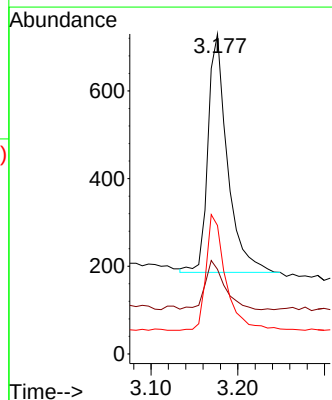
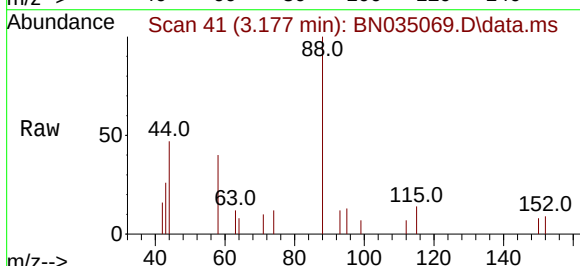


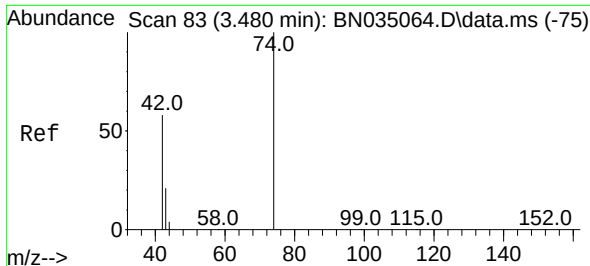
Tgt Ion:152 Resp: 2509
Ion Ratio Lower Upper
152 100
150 152.3 124.5 186.7
115 59.3 47.8 71.6



#2
1,4-Dioxane
Concen: 0.371 ng
RT: 3.177 min Scan# 41
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion: 88 Resp: 845
Ion Ratio Lower Upper
88 100
43 20.8 16.9 25.3
58 49.1 39.0 58.4

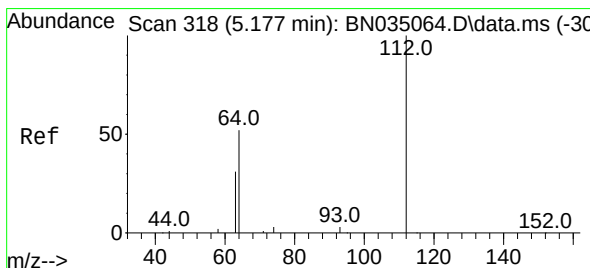
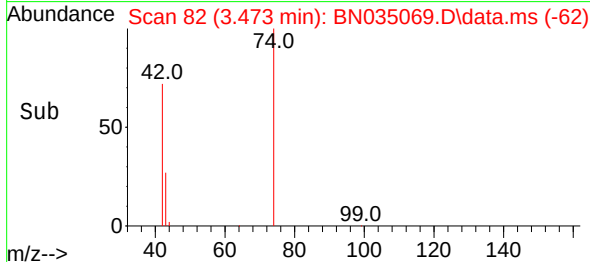
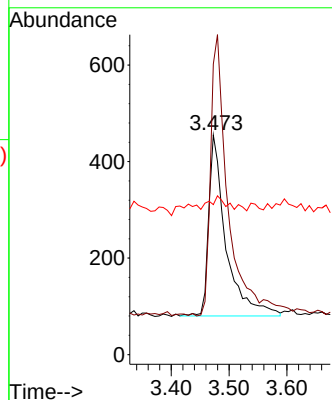
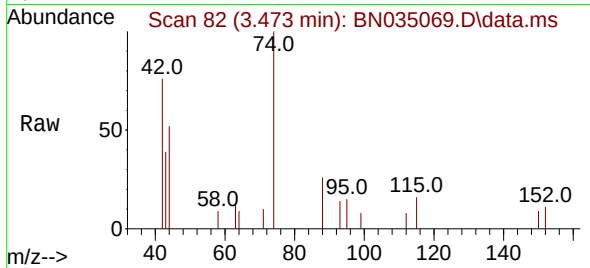




#3
 n-Nitrosodimethylamine
 Concen: 0.368 ng
 RT: 3.473 min Scan# 81
 Delta R.T. -0.007 min
 Lab File: BN035069.D
 Acq: 13 Nov 2024 16:51

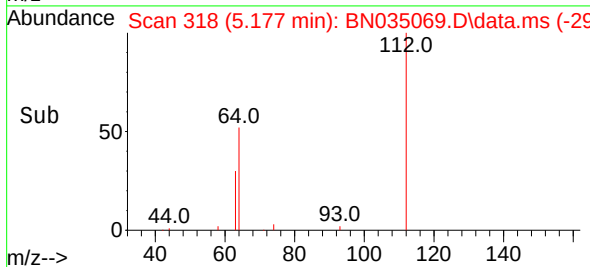
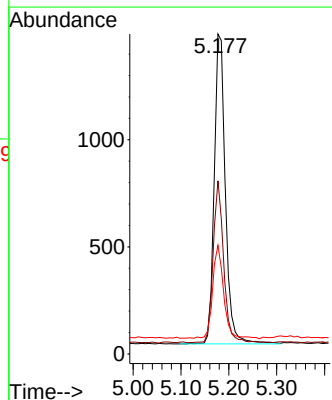
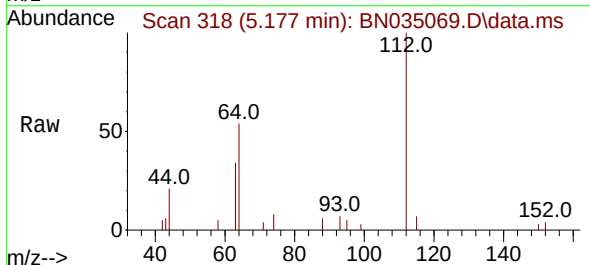
Instrument :
 BNA_N
 ClientSampleId :
 ICVBN111324

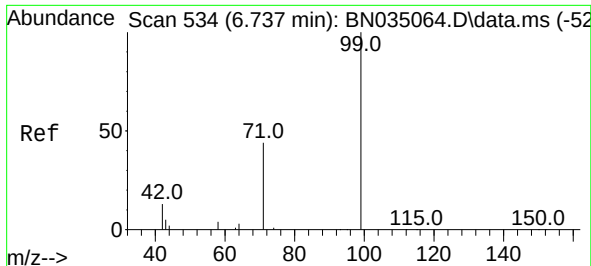
Tgt Ion: 42 Resp: 781
 Ion Ratio Lower Upper
 42 100
 74 158.6 120.8 181.2
 44 8.7 2.9 4.3#



#4
 2-Fluorophenol
 Concen: 0.368 ng
 RT: 5.177 min Scan# 318
 Delta R.T. -0.000 min
 Lab File: BN035069.D
 Acq: 13 Nov 2024 16:51

Tgt Ion: 112 Resp: 2342
 Ion Ratio Lower Upper
 112 100
 64 48.8 39.7 59.5
 63 30.1 23.0 34.4

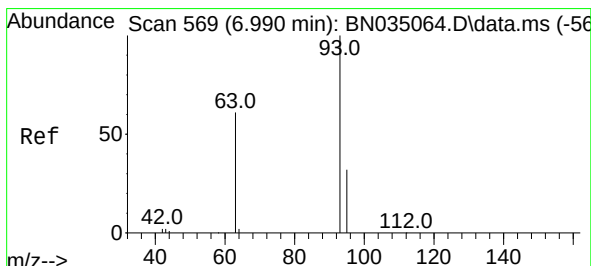
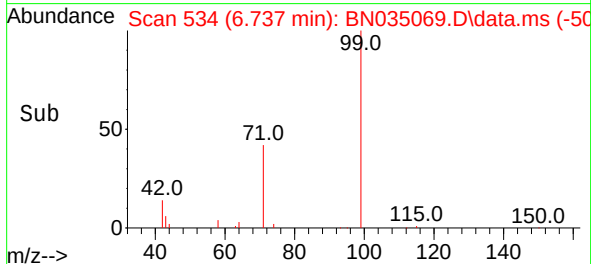
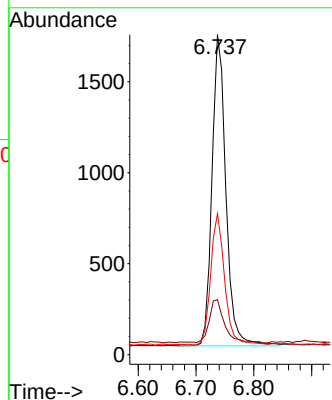
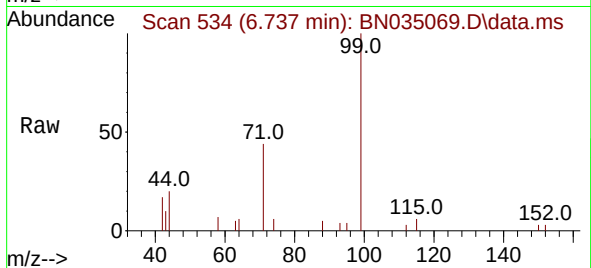




#5
Phenol-d6
Concen: 0.359 ng
RT: 6.737 min Scan# 534
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

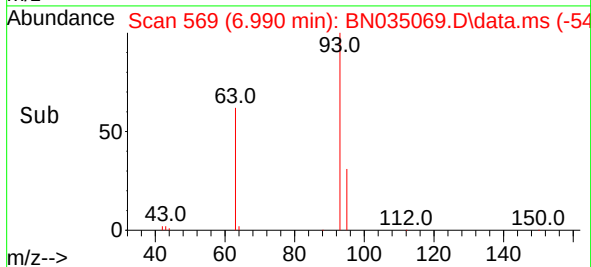
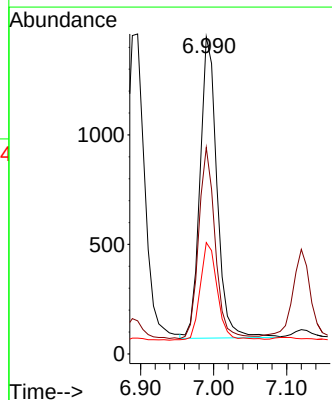
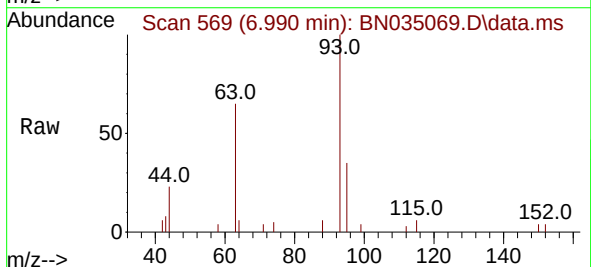
Instrument :
BNA_N
ClientSampleId :
ICVBN111324

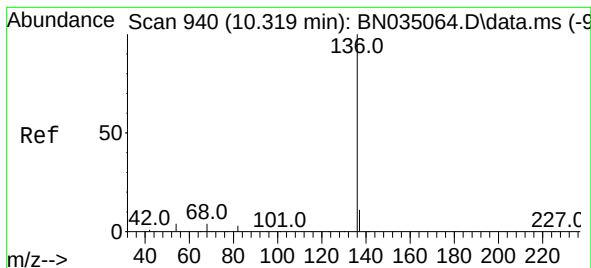
Tgt Ion: 99 Resp: 2867
Ion Ratio Lower Upper
99 100
42 14.4 11.4 17.0
71 42.1 34.6 51.8



#6
bis(2-Chloroethyl)ether
Concen: 0.370 ng
RT: 6.990 min Scan# 569
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion: 93 Resp: 2218
Ion Ratio Lower Upper
93 100
63 61.3 47.4 71.2
95 33.0 26.2 39.4

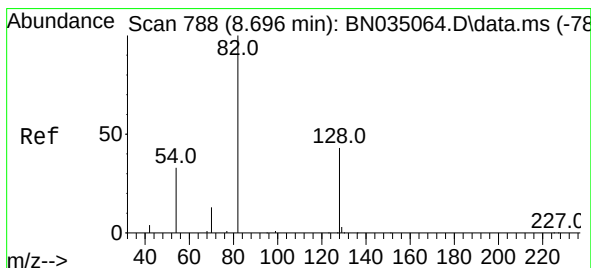
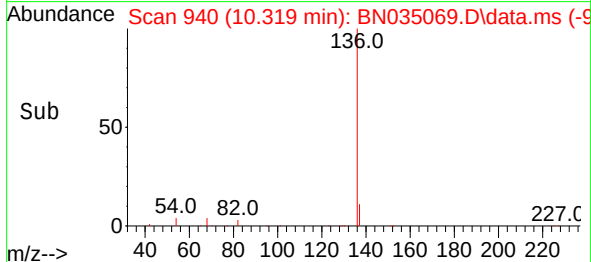
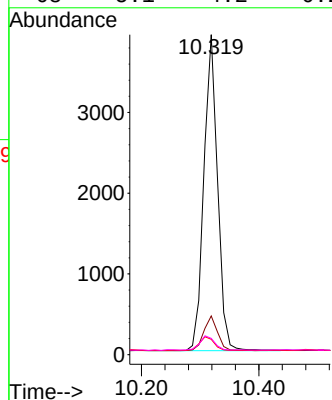
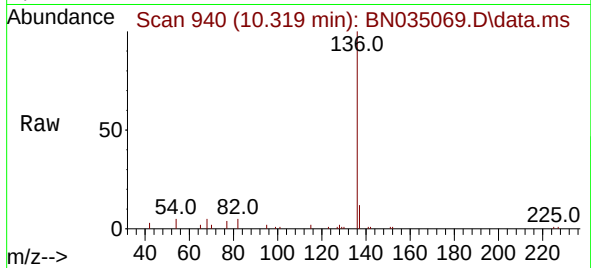




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.319 min Scan# 940
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

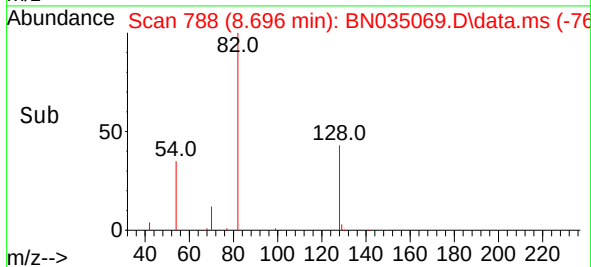
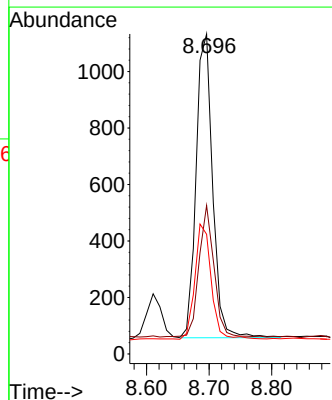
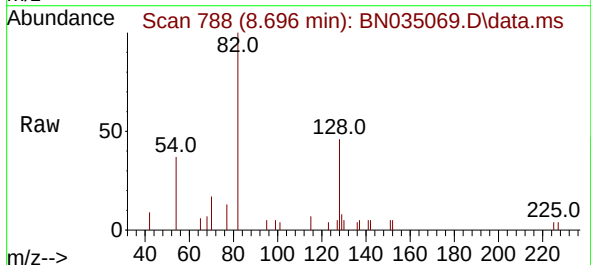
Instrument :
BNA_N
ClientSampleId :
ICVBN111324

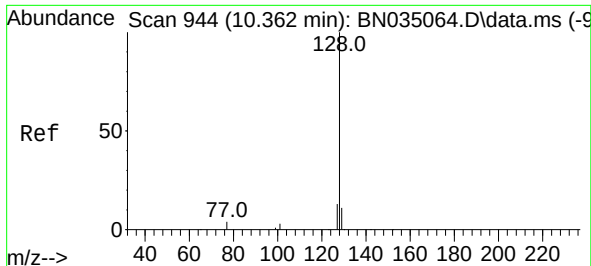
Tgt Ion:136 Resp: 6367
Ion Ratio Lower Upper
136 100
137 12.1 9.8 14.8
54 4.8 4.0 6.0
68 5.1 4.2 6.2



#8
Nitrobenzene-d5
Concen: 0.358 ng
RT: 8.696 min Scan# 788
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion: 82 Resp: 1983
Ion Ratio Lower Upper
82 100
128 46.4 36.5 54.7
54 37.4 28.7 43.1

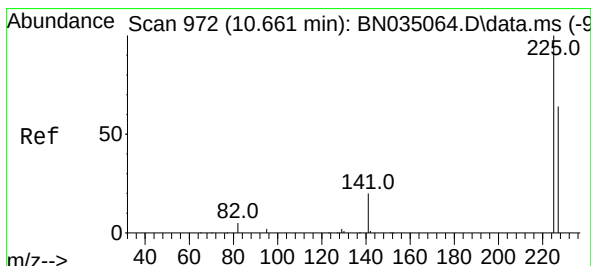
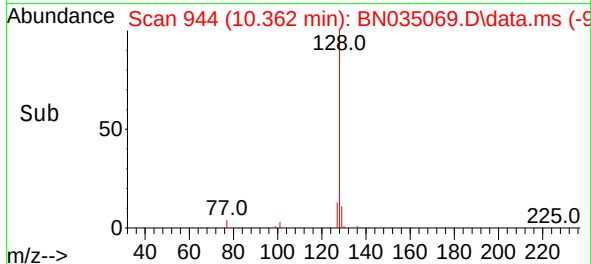
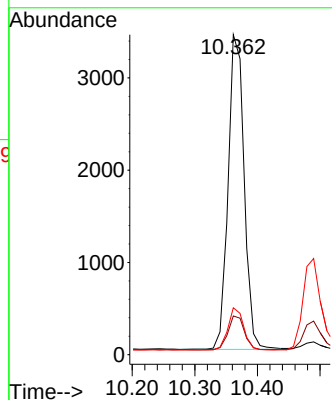
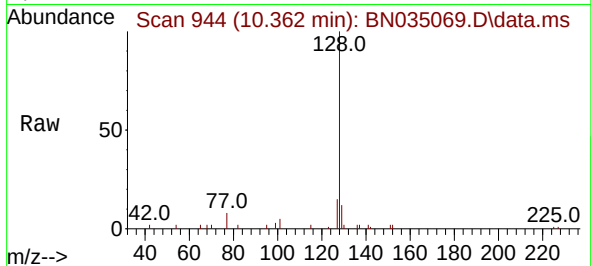




#9
Naphthalene
Concen: 0.366 ng
RT: 10.362 min Scan# 944
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

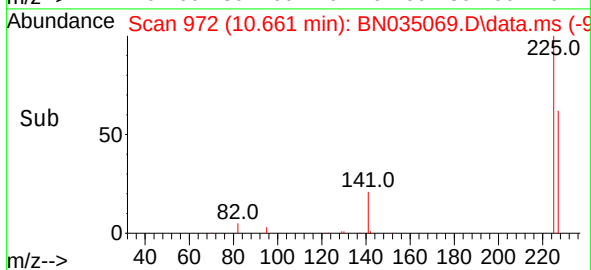
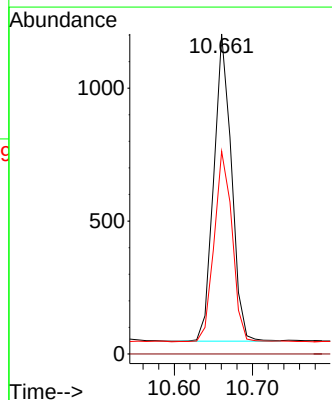
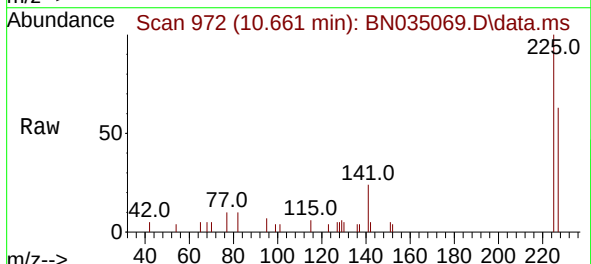
Instrument :
BNA_N
ClientSampleId :
ICVBN111324

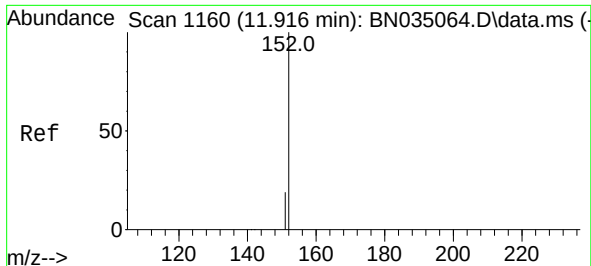
Tgt Ion:128 Resp: 6092
Ion Ratio Lower Upper
128 100
129 12.1 9.6 14.4
127 14.7 11.6 17.4



#10
Hexachlorobutadiene
Concen: 0.373 ng
RT: 10.661 min Scan# 972
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:225 Resp: 1817
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.2 51.5 77.3





#11

2-Methylnaphthalene-d10

Concen: 0.367 ng

RT: 11.916 min Scan# 1160

Delta R.T. -0.000 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

Instrument :

BNA_N

ClientSampleId :

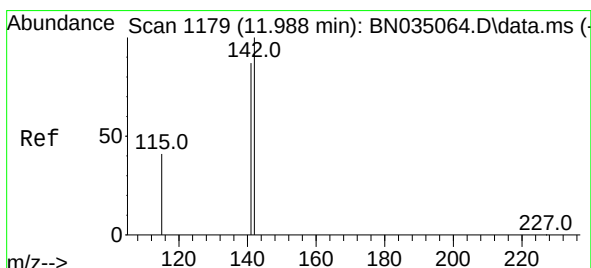
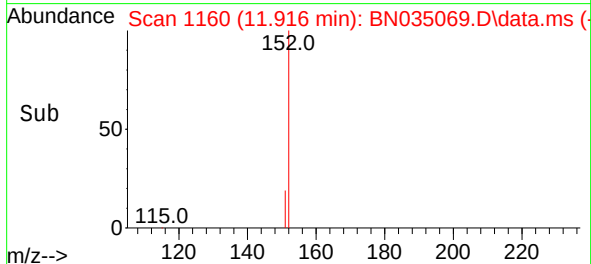
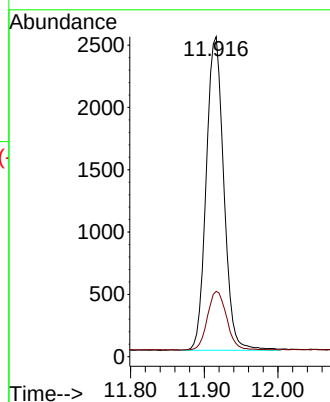
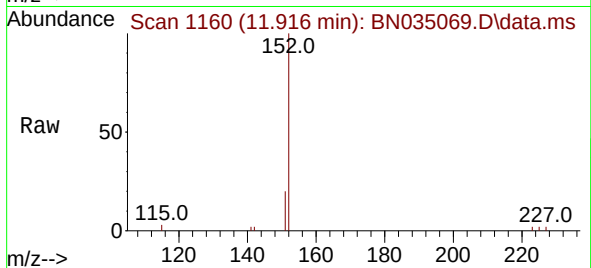
ICVBN111324

Tgt Ion:152 Resp: 4166

Ion Ratio Lower Upper

152 100

151 20.6 16.2 24.4



#12

2-Methylnaphthalene

Concen: 0.368 ng

RT: 11.988 min Scan# 1179

Delta R.T. -0.000 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

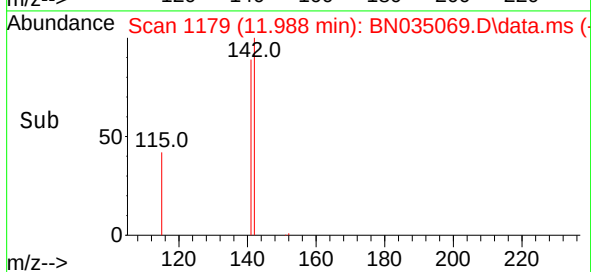
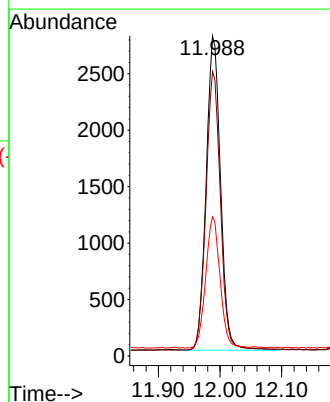
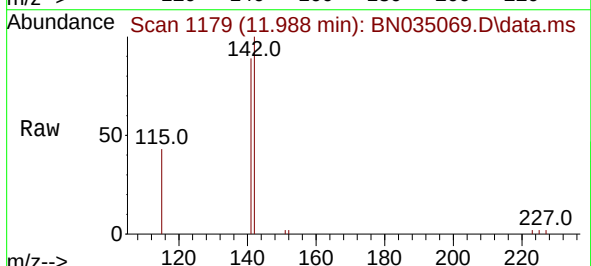
Tgt Ion:142 Resp: 4513

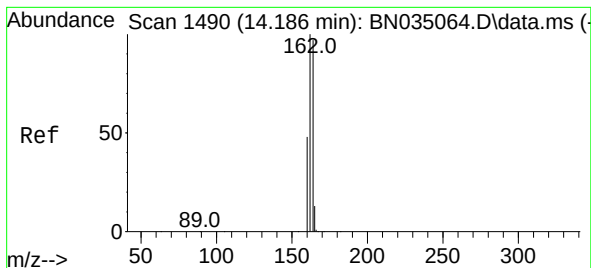
Ion Ratio Lower Upper

142 100

141 88.9 70.1 105.1

115 43.5 34.4 51.6





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.186 min Scan# 1490

Delta R.T. -0.000 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

Instrument :

BNA_N

ClientSampleId :

ICVBN111324

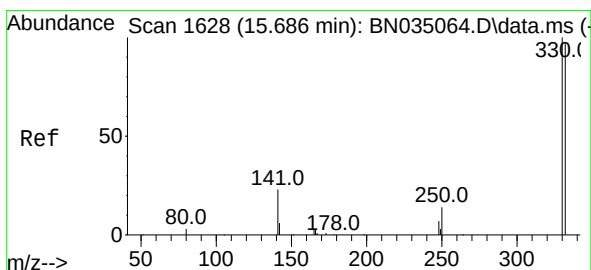
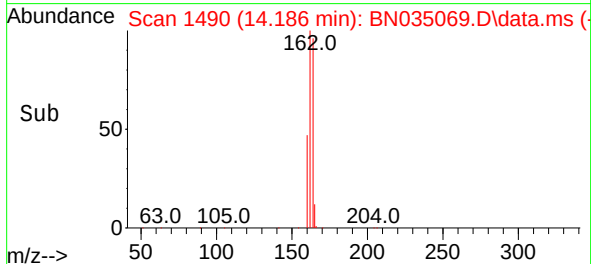
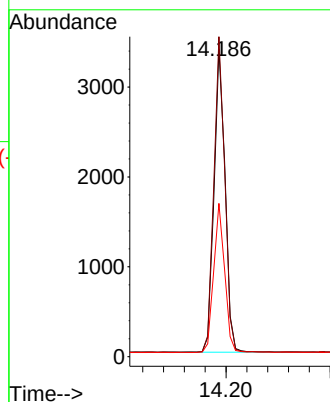
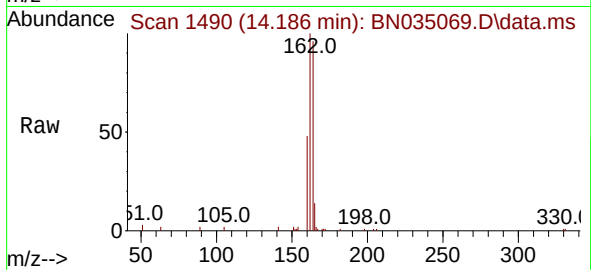
Tgt Ion:164 Resp: 4967

Ion Ratio Lower Upper

164 100

162 104.1 82.2 123.2

160 49.8 40.2 60.4



#14

2,4,6-Tribromophenol

Concen: 0.322 ng

RT: 15.686 min Scan# 1628

Delta R.T. -0.000 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

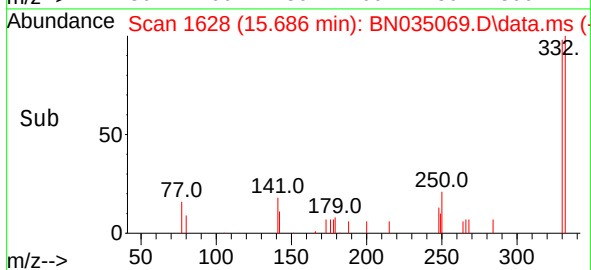
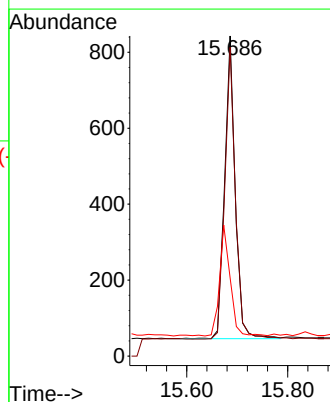
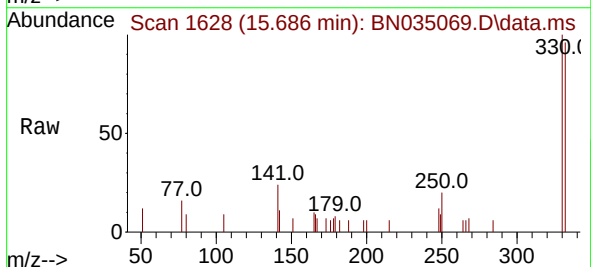
Tgt Ion:330 Resp: 1154

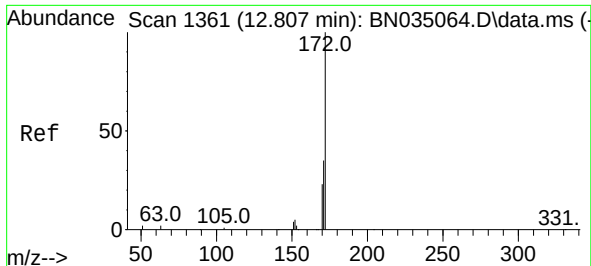
Ion Ratio Lower Upper

330 100

332 97.3 76.9 115.3

141 36.7 29.6 44.4

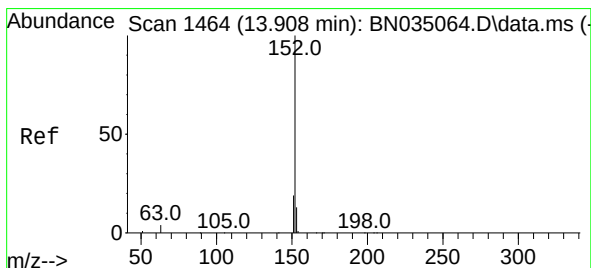
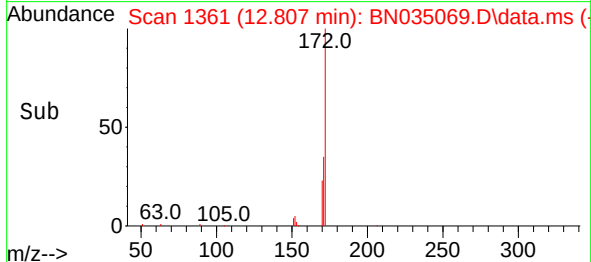
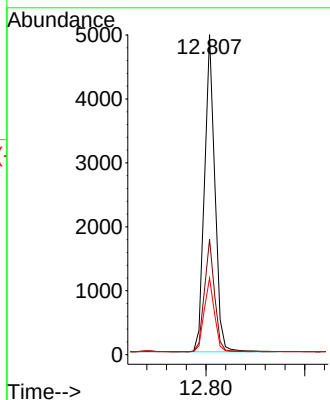
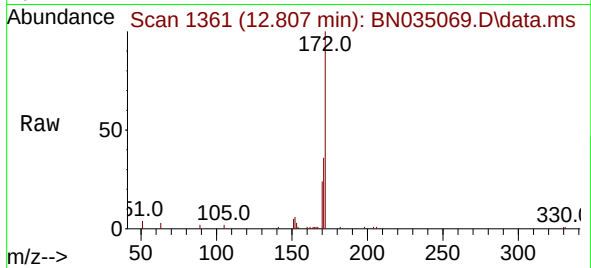




#15
2-Fluorobiphenyl
Concen: 0.357 ng
RT: 12.807 min Scan# 1361
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

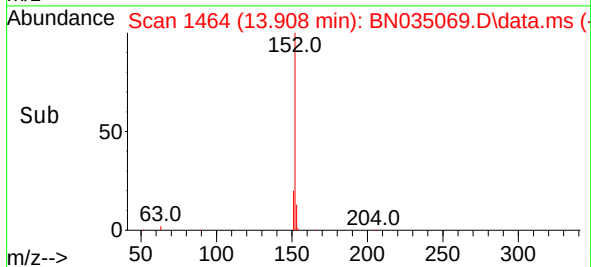
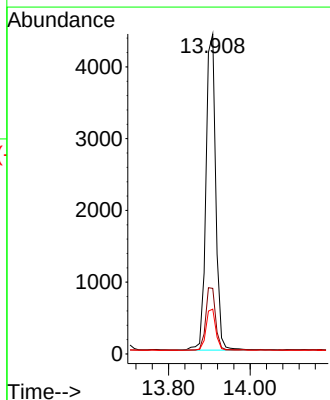
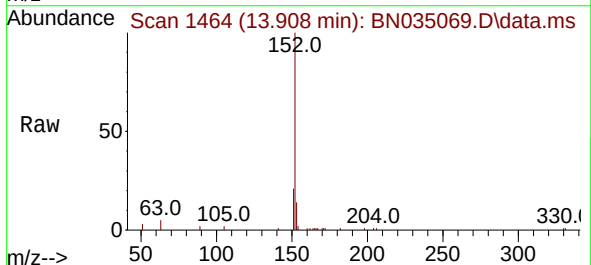
Instrument :
BNA_N
ClientSampleId :
ICVBN111324

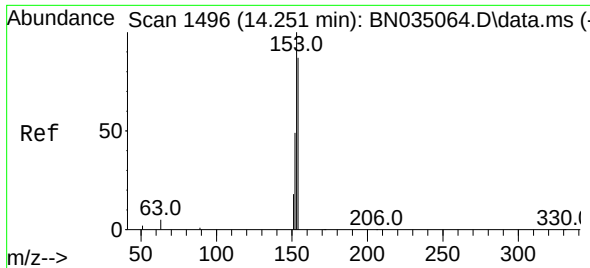
Tgt Ion:172 Resp: 7205
Ion Ratio Lower Upper
172 100
171 36.1 28.2 42.4
170 23.9 19.0 28.6



#16
Acenaphthylene
Concen: 0.348 ng
RT: 13.908 min Scan# 1464
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:152 Resp: 7387
Ion Ratio Lower Upper
152 100
151 20.0 15.8 23.8
153 13.0 10.2 15.4

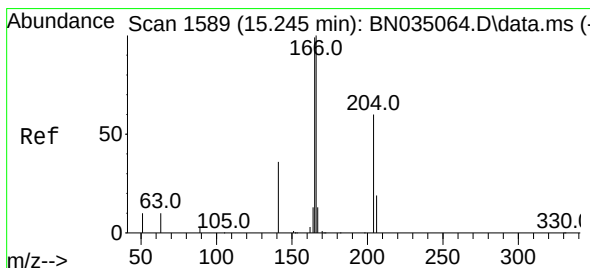
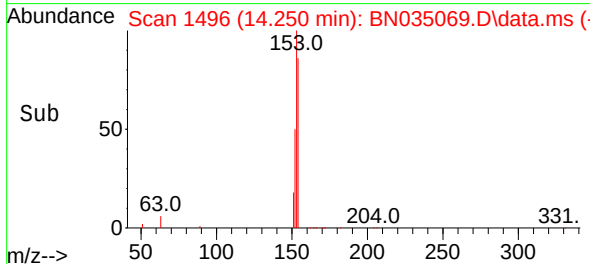
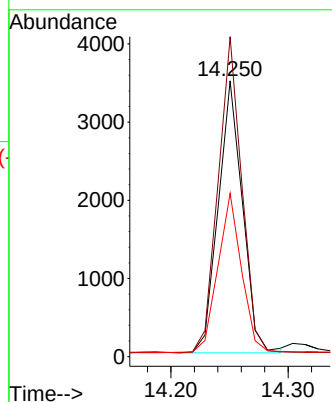
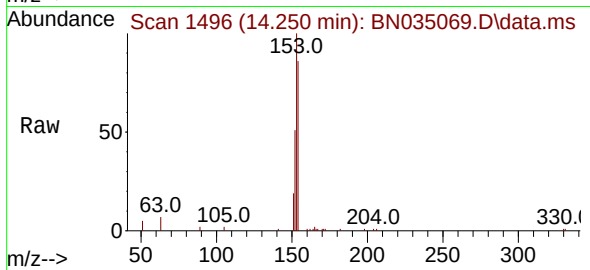




#17
Acenaphthene
Concen: 0.359 ng
RT: 14.250 min Scan# 1496
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

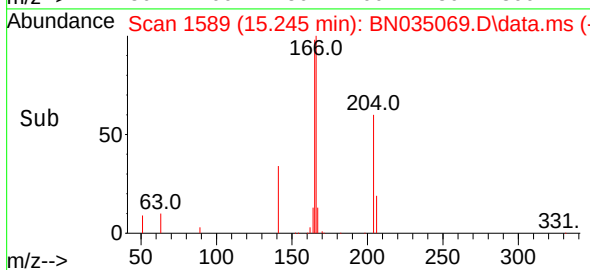
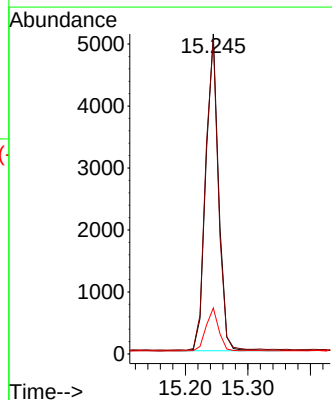
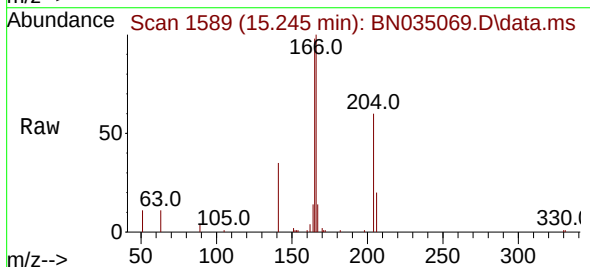
Instrument :
BNA_N
ClientSampleId :
ICVBN111324

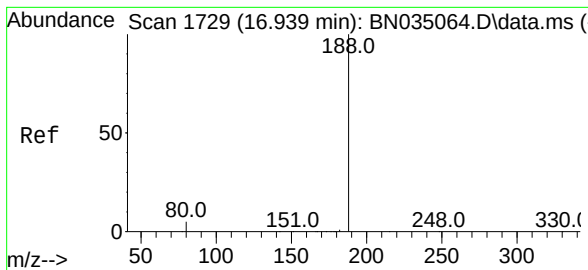
Tgt Ion:154 Resp: 4995
Ion Ratio Lower Upper
154 100
153 113.2 91.6 137.4
152 57.7 45.8 68.6



#18
Fluorene
Concen: 0.352 ng
RT: 15.245 min Scan# 1589
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:166 Resp: 7206
Ion Ratio Lower Upper
166 100
165 99.0 79.1 118.7
167 13.7 10.6 16.0

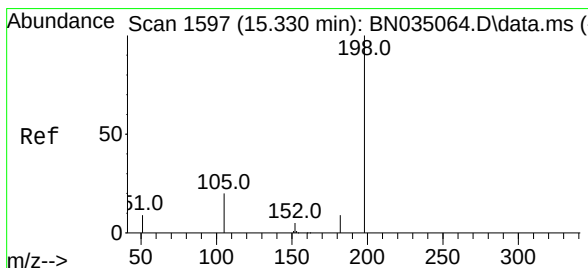
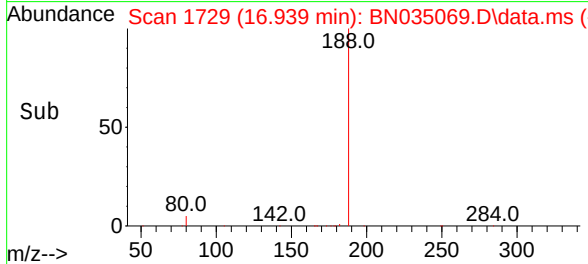
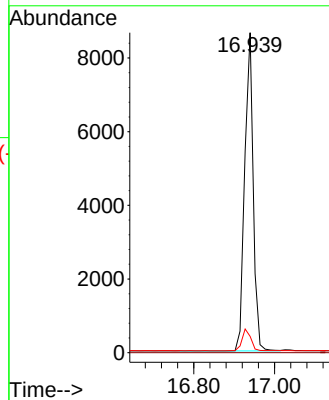
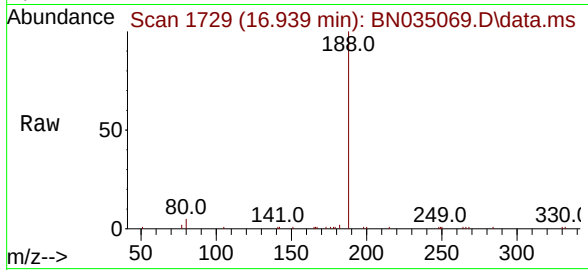




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.939 min Scan# 1729
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

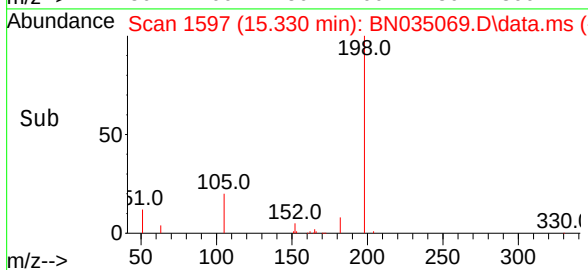
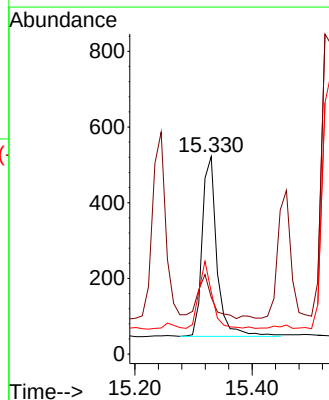
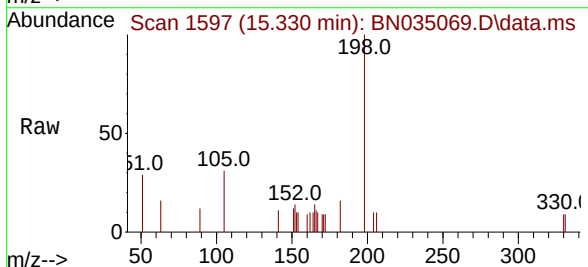
Instrument :
BNA_N
ClientSampleId :
ICVBN111324

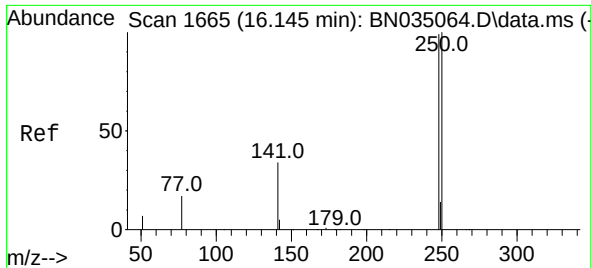
Tgt Ion:188 Resp: 12682
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 5.1 4.3 6.5



#20
4,6-Dinitro-2-methylphenol
Concen: 0.314 ng
RT: 15.330 min Scan# 1597
Delta R.T. 0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:198 Resp: 830
Ion Ratio Lower Upper
198 100
51 28.7 29.9 44.9#
105 31.4 23.7 35.5

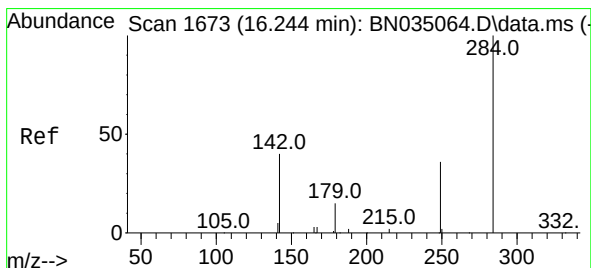
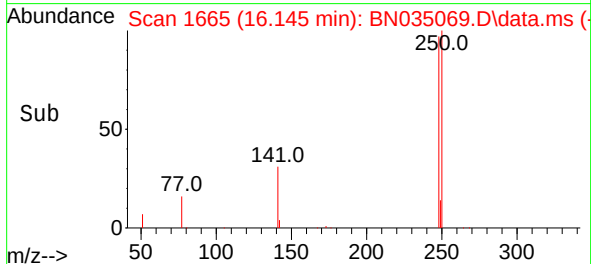
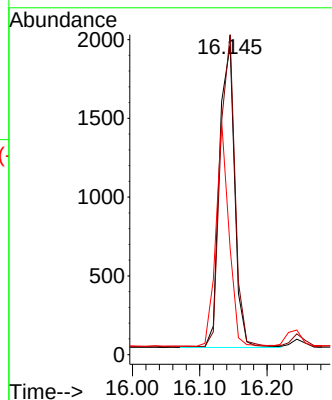
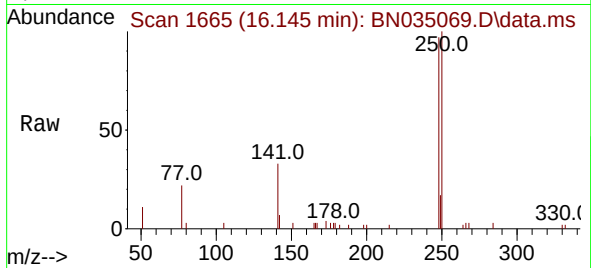




#21
4-Bromophenyl-phenylether
Concen: 0.371 ng
RT: 16.145 min Scan# 1665
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

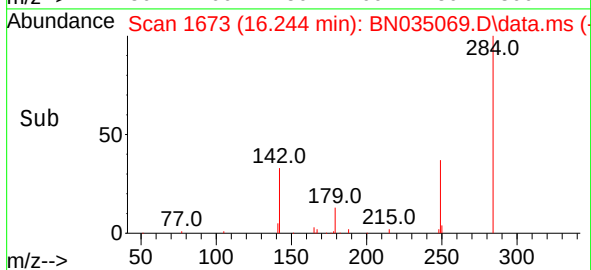
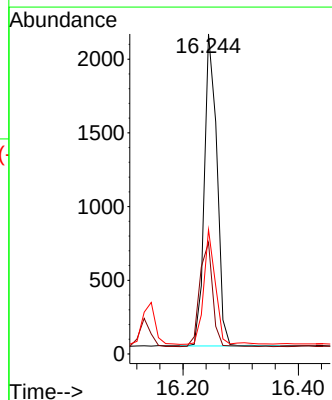
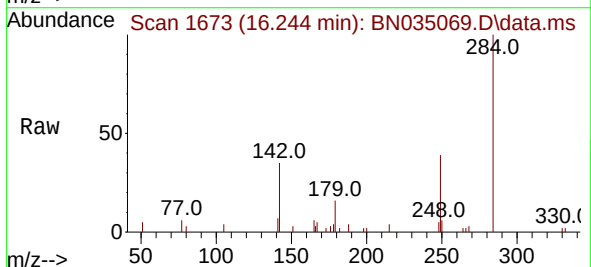
Instrument :
BNA_N
ClientSampleId :
ICVBN111324

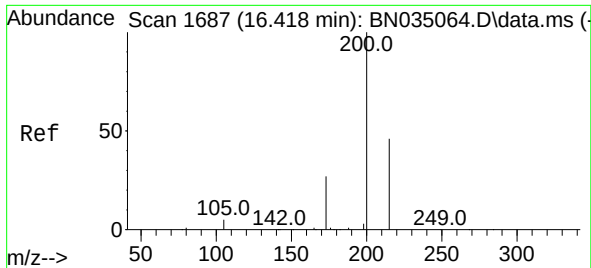
Tgt Ion:248 Resp: 3001
Ion Ratio Lower Upper
248 100
250 103.6 81.2 121.8
141 34.5 29.1 43.7



#22
Hexachlorobenzene
Concen: 0.379 ng
RT: 16.244 min Scan# 1673
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:284 Resp: 3175
Ion Ratio Lower Upper
284 100
142 34.7 28.2 42.4
249 33.7 26.2 39.2

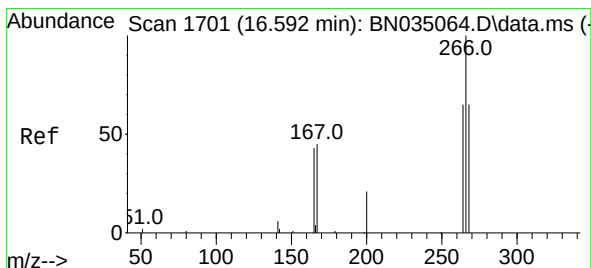
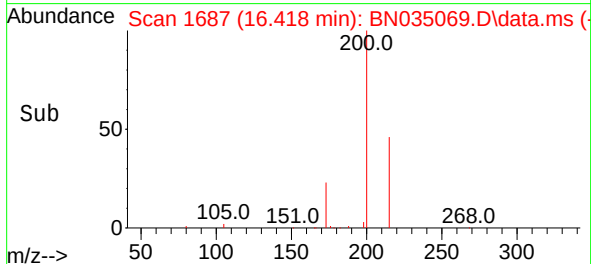
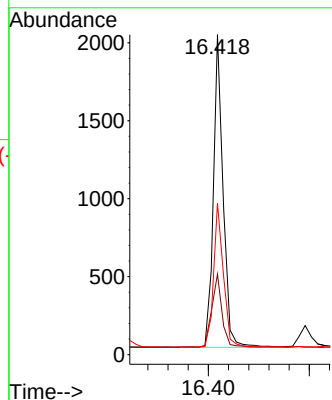
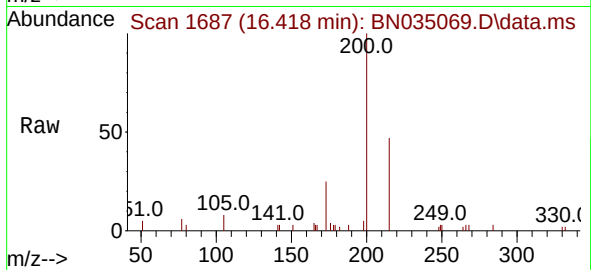




#23
Atrazine
Concen: 0.370 ng
RT: 16.418 min Scan# 1687
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

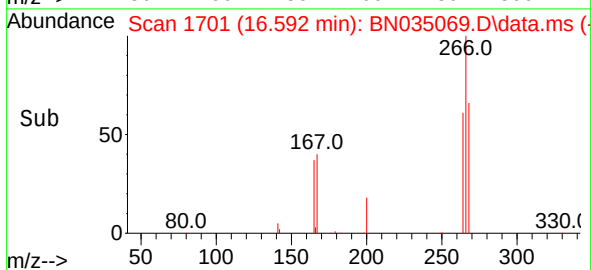
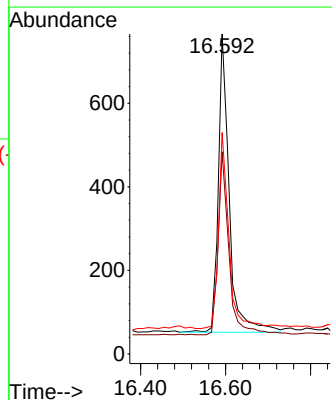
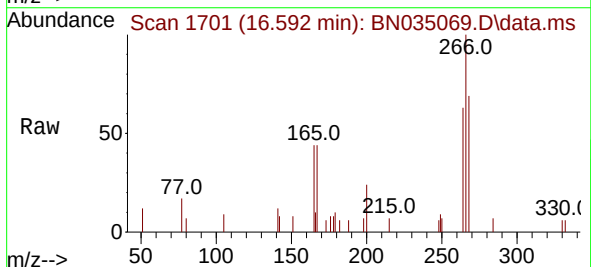
Instrument :
BNA_N
ClientSampleId :
ICVBN111324

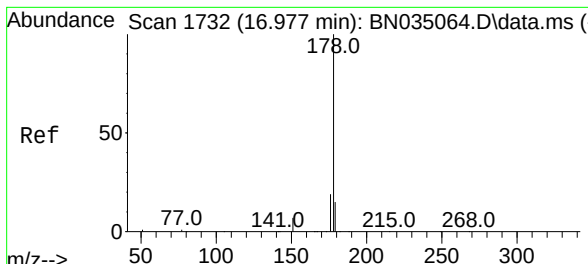
Tgt Ion:200 Resp: 2682
Ion Ratio Lower Upper
200 100
173 25.1 22.6 33.8
215 47.3 37.8 56.6



#24
Pentachlorophenol
Concen: 0.324 ng
RT: 16.592 min Scan# 1701
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:266 Resp: 1269
Ion Ratio Lower Upper
266 100
264 60.5 49.4 74.0
268 63.4 52.6 79.0

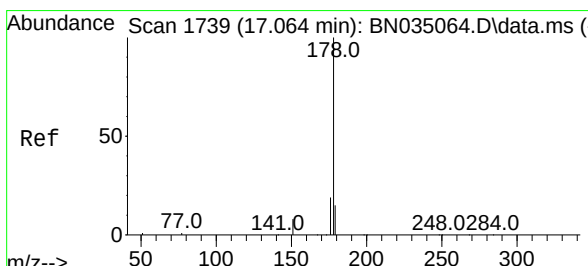
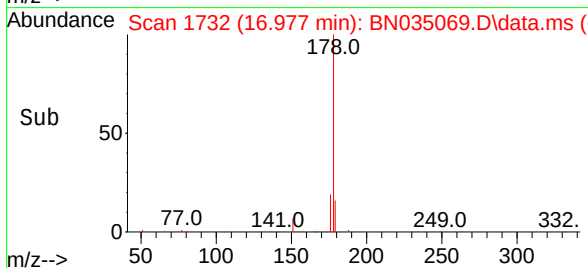
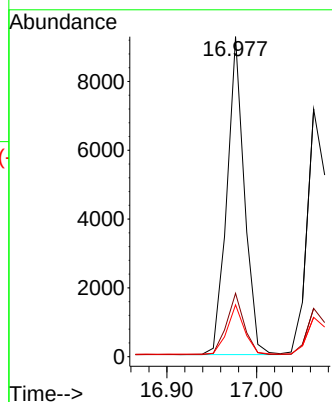
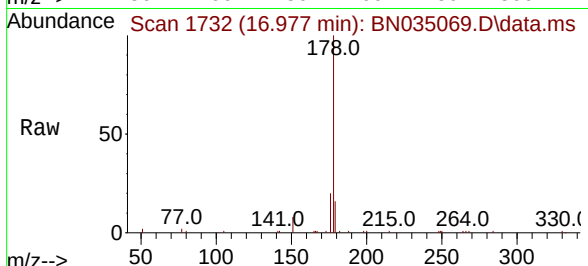




#25
 Phenanthrene
 Concen: 0.375 ng
 RT: 16.977 min Scan# 1732
 Delta R.T. -0.000 min
 Lab File: BN035069.D
 Acq: 13 Nov 2024 16:51

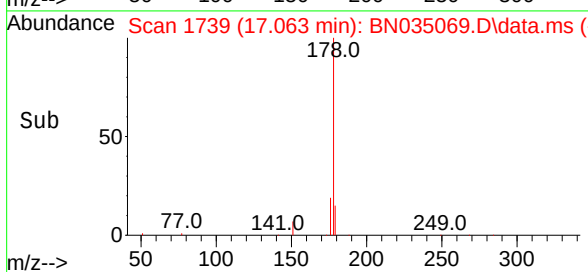
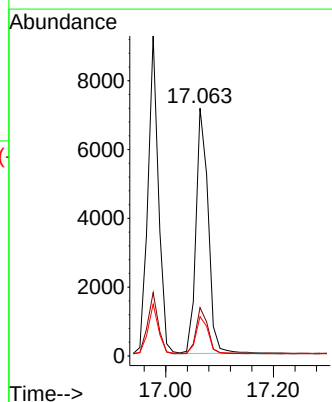
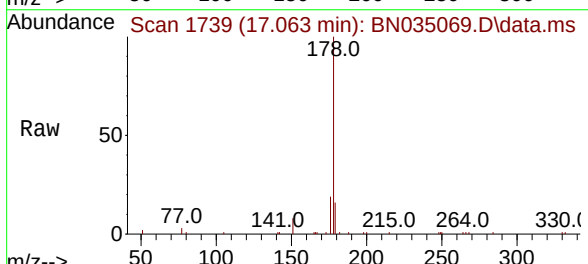
Instrument :
 BNA_N
 ClientSampleId :
 ICVBN111324

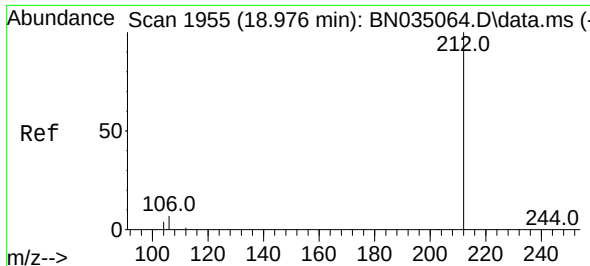
Tgt Ion:	178	Resp:	12517
Ion Ratio	Lower	Upper	
178	100		
176	19.5	15.2	22.8
179	15.6	12.6	18.8



#26
 Anthracene
 Concen: 0.366 ng
 RT: 17.063 min Scan# 1739
 Delta R.T. -0.000 min
 Lab File: BN035069.D
 Acq: 13 Nov 2024 16:51

Tgt Ion:	178	Resp:	11219
Ion Ratio	Lower	Upper	
178	100		
176	18.6	14.6	22.0
179	15.2	12.2	18.2

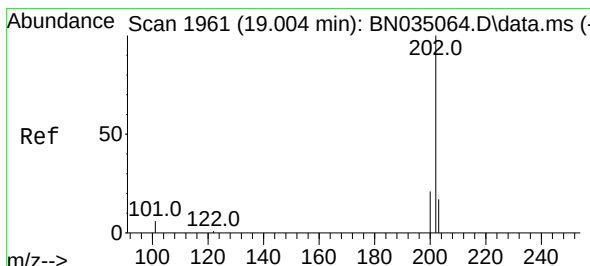
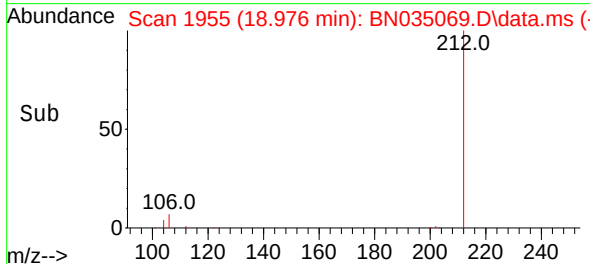
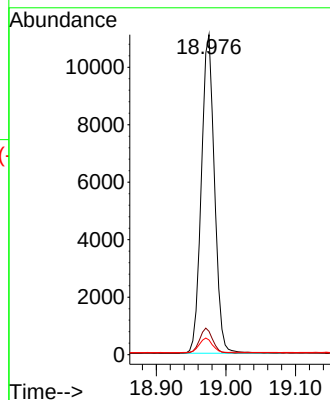
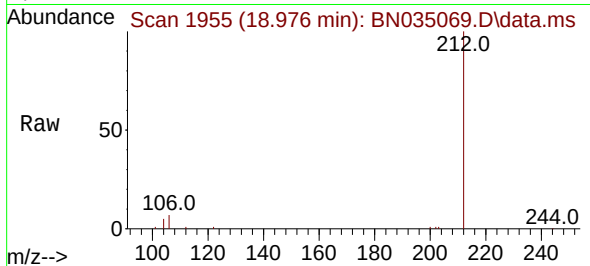




#27
Fluoranthene-d10
Concen: 0.374 ng
RT: 18.976 min Scan# 1955
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

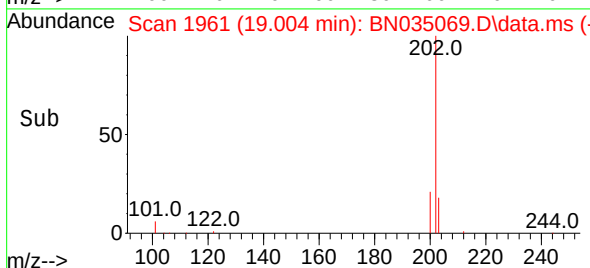
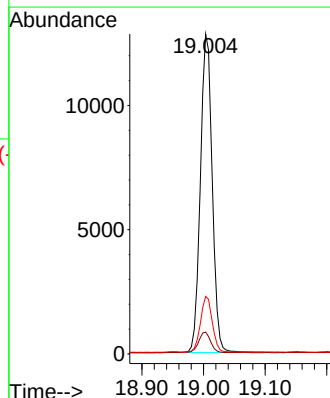
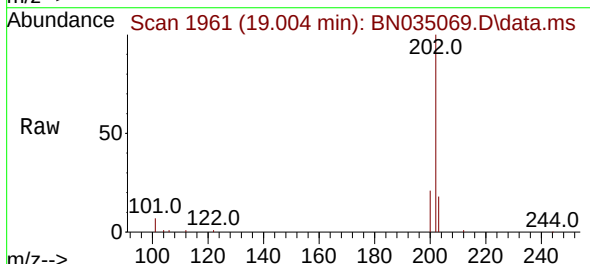
Instrument :
BNA_N
ClientSampleId :
ICVBN111324

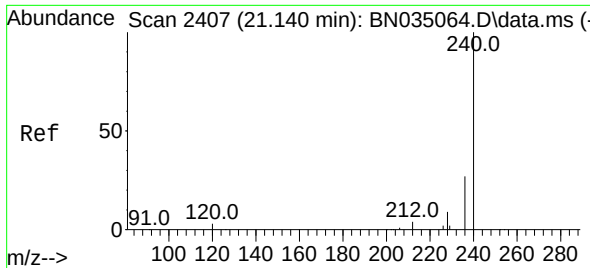
Tgt Ion:212 Resp: 14530
Ion Ratio Lower Upper
212 100
106 7.8 6.0 9.0
104 4.5 3.5 5.3



#28
Fluoranthene
Concen: 0.372 ng
RT: 19.004 min Scan# 1961
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:202 Resp: 17084
Ion Ratio Lower Upper
202 100
101 6.6 5.2 7.8
203 17.3 13.8 20.8

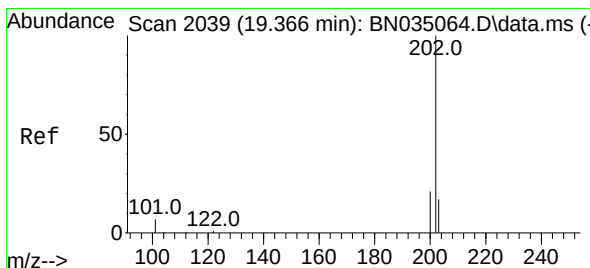
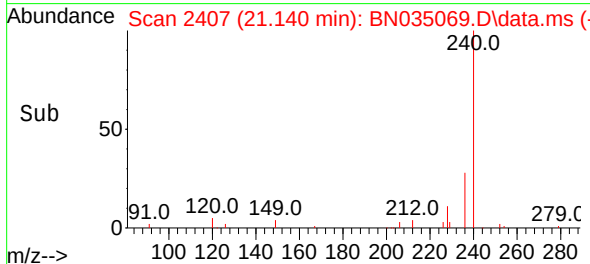
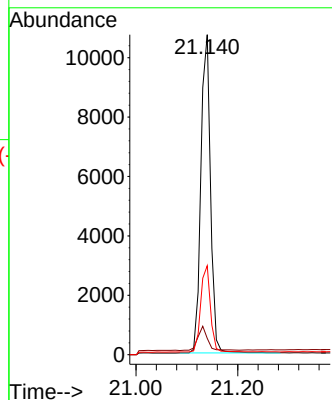
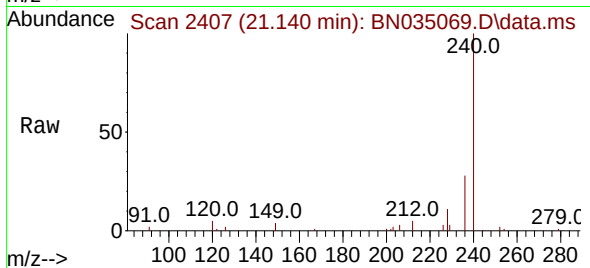




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.140 min Scan# 2407
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

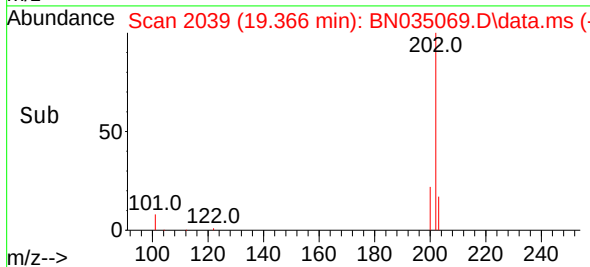
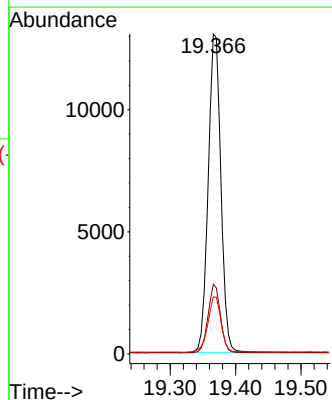
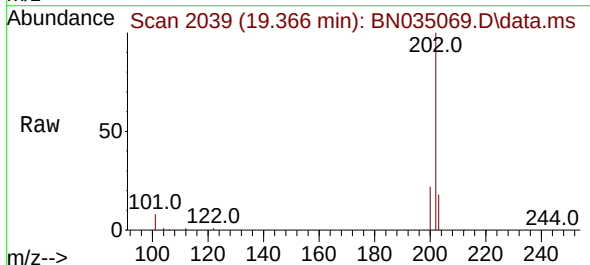
Instrument :
BNA_N
ClientSampleId :
ICVBN111324

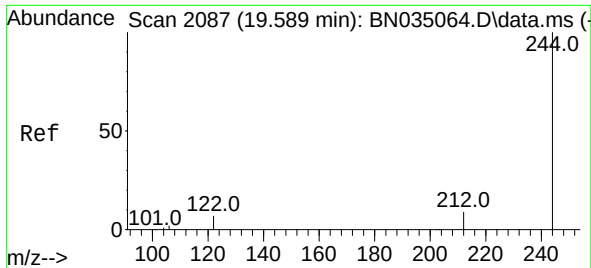
Tgt Ion:240 Resp: 14055
Ion Ratio Lower Upper
240 100
120 5.1 3.8 5.6
236 27.8 22.2 33.2



#30
Pyrene
Concen: 0.376 ng
RT: 19.366 min Scan# 2039
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:202 Resp: 17580
Ion Ratio Lower Upper
202 100
200 20.9 16.7 25.1
203 18.1 14.2 21.4

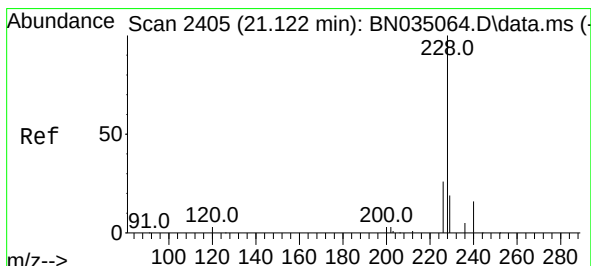
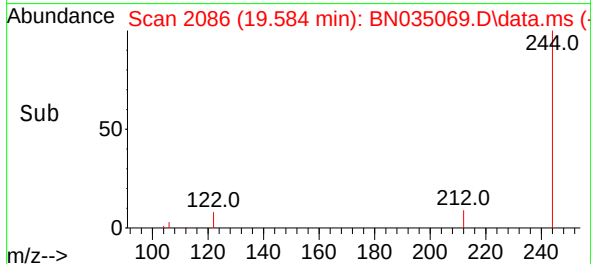
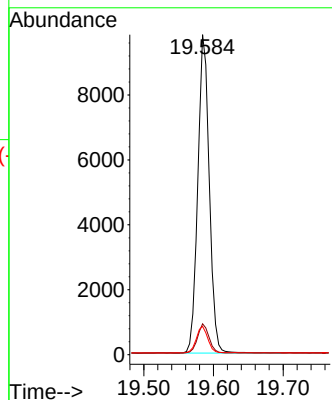
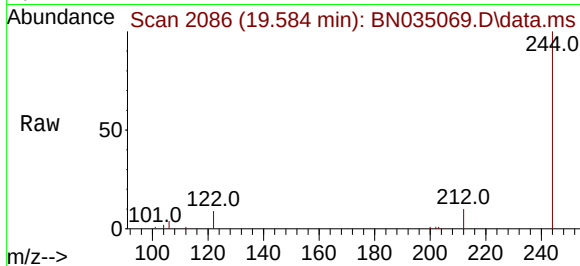




#31
 Terphenyl-d14
 Concen: 0.381 ng
 RT: 19.584 min Scan# 2086
 Delta R.T. -0.005 min
 Lab File: BN035069.D
 Acq: 13 Nov 2024 16:51

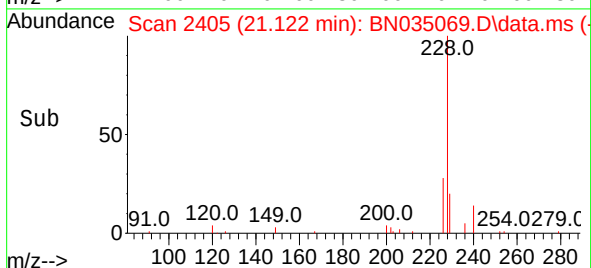
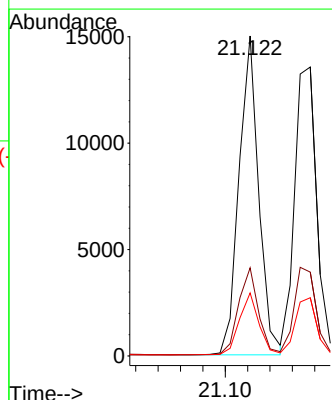
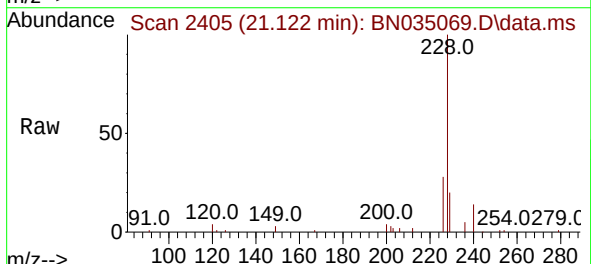
Instrument :
 BNA_N
 ClientSampleId :
 ICVBN111324

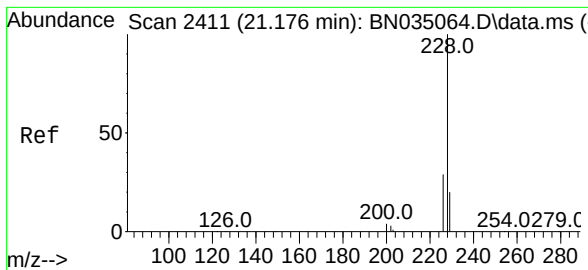
Tgt Ion:244 Resp: 11240
 Ion Ratio Lower Upper
 244 100
 212 9.6 7.6 11.4
 122 8.9 6.1 9.1



#32
 Benzo(a)anthracene
 Concen: 0.376 ng
 RT: 21.122 min Scan# 2405
 Delta R.T. -0.000 min
 Lab File: BN035069.D
 Acq: 13 Nov 2024 16:51

Tgt Ion:228 Resp: 18406
 Ion Ratio Lower Upper
 228 100
 226 27.6 21.4 32.0
 229 19.7 15.7 23.5





#33

Chrysene

Concen: 0.386 ng

RT: 21.176 min Scan# 2411

Delta R.T. -0.000 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

Instrument :

BNA_N

ClientSampleId :

ICVBN111324

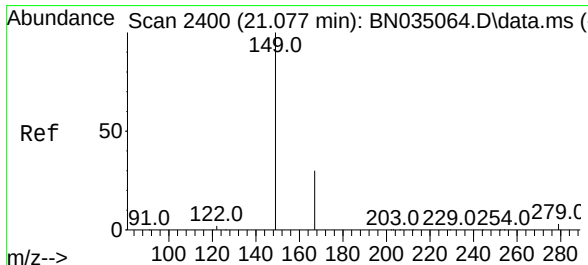
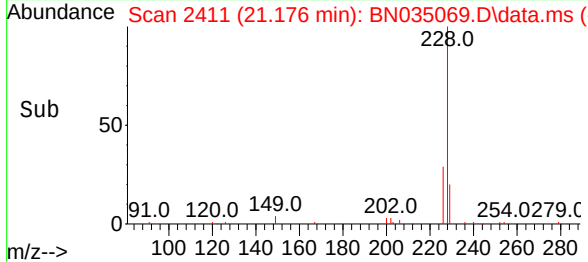
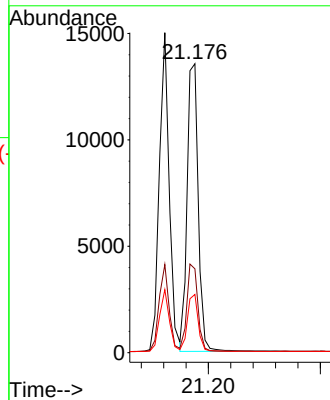
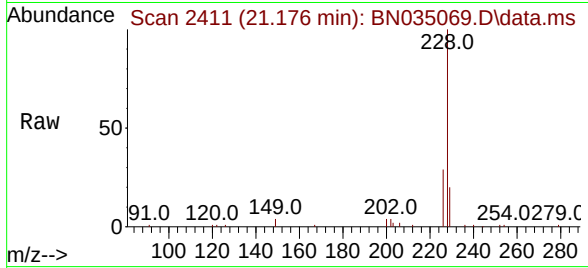
Tgt Ion:228 Resp: 18693

Ion Ratio Lower Upper

228 100

226 29.0 23.7 35.5

229 20.2 16.2 24.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.338 ng

RT: 21.077 min Scan# 2400

Delta R.T. -0.000 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

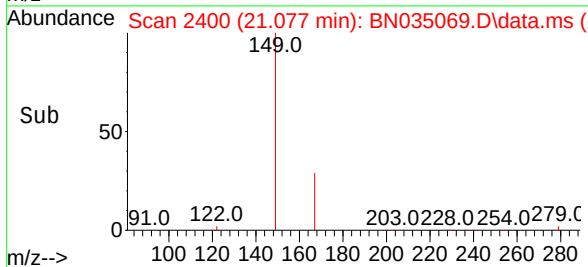
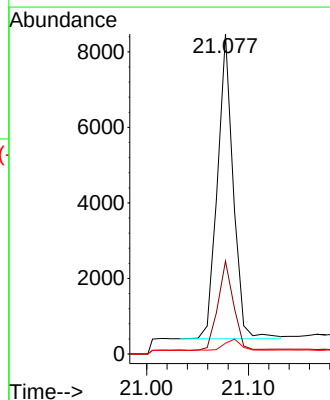
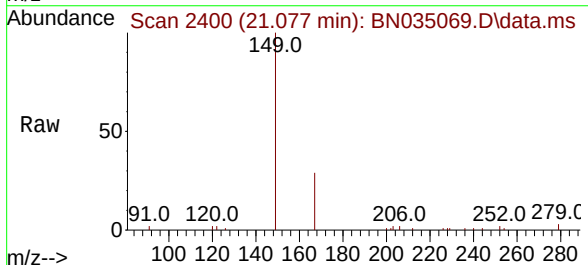
Tgt Ion:149 Resp: 8691

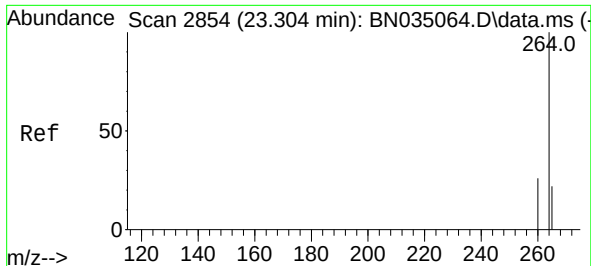
Ion Ratio Lower Upper

149 100

167 29.0 23.2 34.8

279 3.9 3.2 4.8

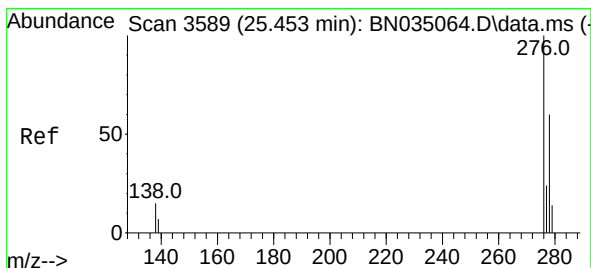
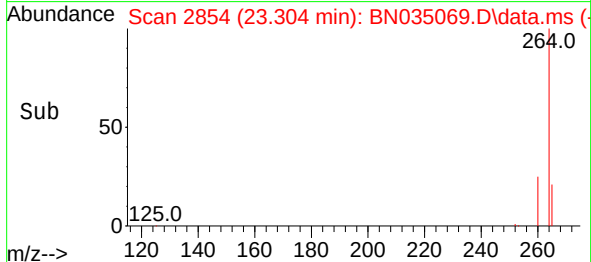
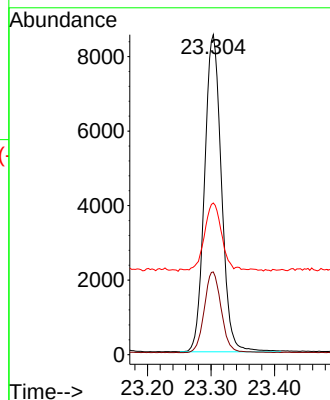
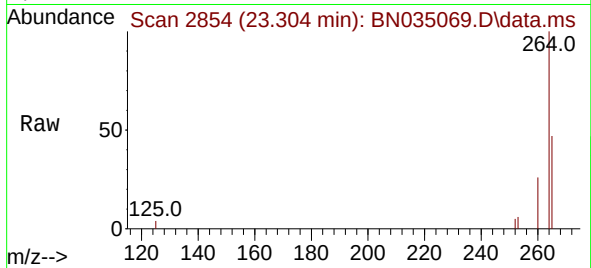




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.304 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

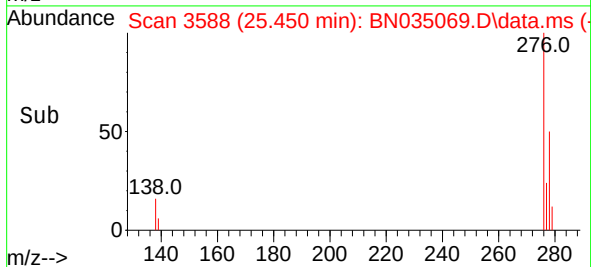
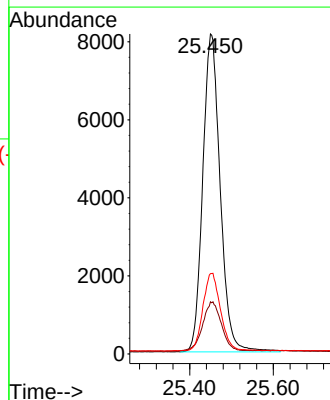
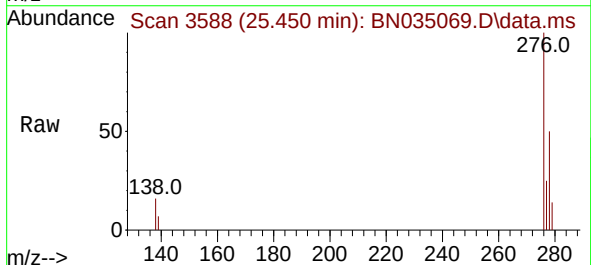
Instrument :
BNA_N
ClientSampleId :
ICVBN111324

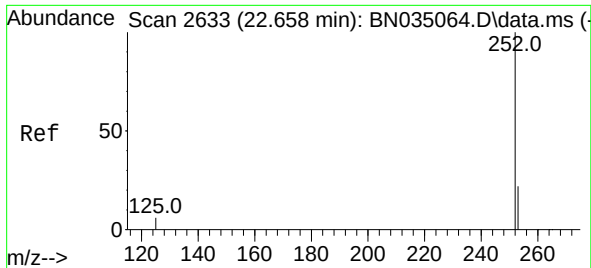
Tgt Ion:	264	Resp:	15724
Ion Ratio	Lower	Upper	
264	100		
260	25.8	20.9	31.3
265	47.4	35.4	53.2



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.375 ng
RT: 25.450 min Scan# 3588
Delta R.T. -0.003 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:	276	Resp:	23546
Ion Ratio	Lower	Upper	
276	100		
138	16.9	13.0	19.4
277	24.2	19.8	29.6

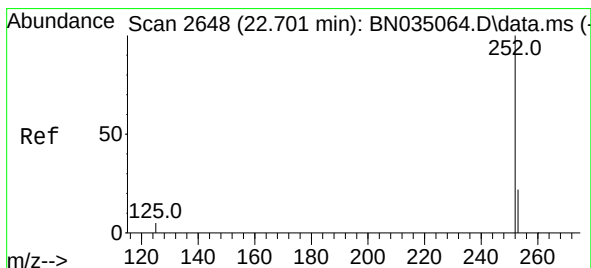
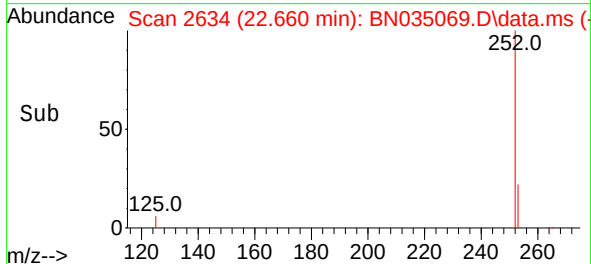
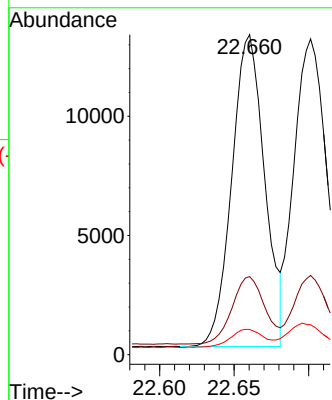
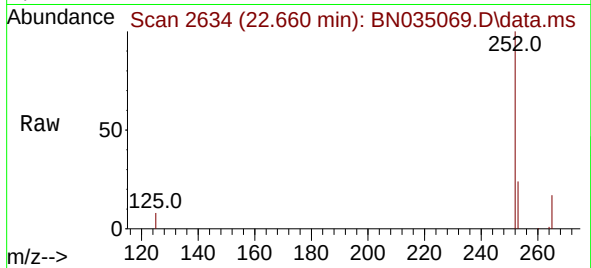




#37
Benzo(b)fluoranthene
Concen: 0.379 ng
RT: 22.660 min Scan# 2634
Delta R.T. 0.003 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

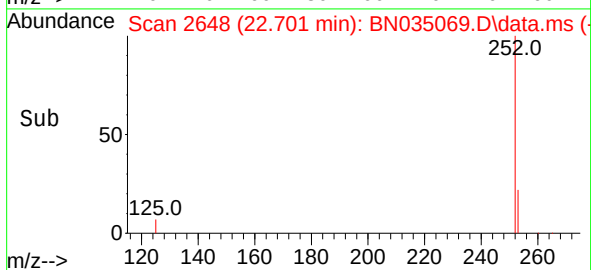
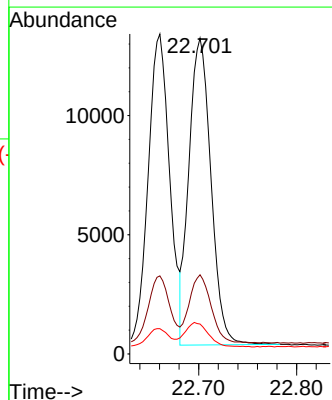
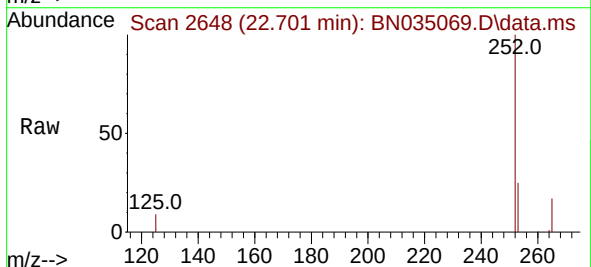
Instrument :
BNA_N
ClientSampleId :
ICVBN111324

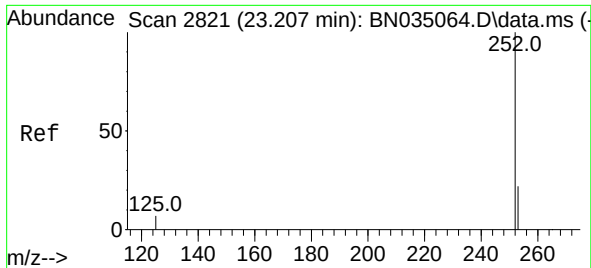
Tgt Ion:252 Resp: 20039
Ion Ratio Lower Upper
252 100
253 24.4 19.3 28.9
125 7.9 6.2 9.2



#38
Benzo(k)fluoranthene
Concen: 0.380 ng
RT: 22.701 min Scan# 2648
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:252 Resp: 20114
Ion Ratio Lower Upper
252 100
253 25.1 19.5 29.3
125 9.5 6.5 9.7





#39

Benzo(a)pyrene

Concen: 0.378 ng

RT: 23.210 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

Instrument :

BNA_N

ClientSampleId :

ICVBN111324

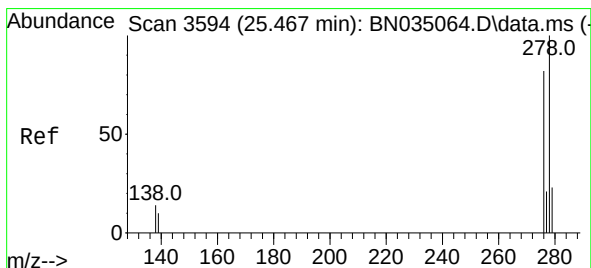
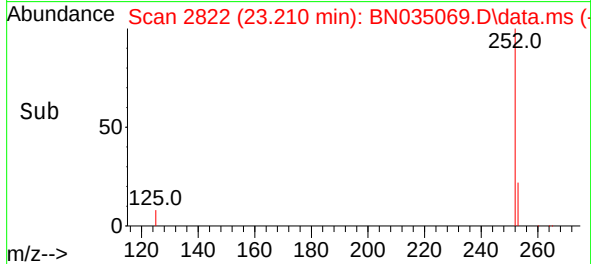
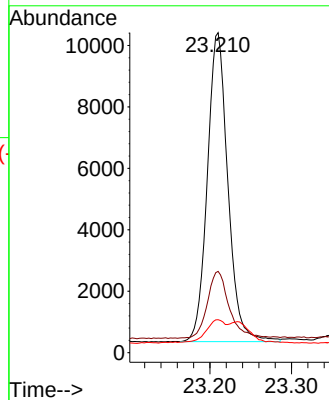
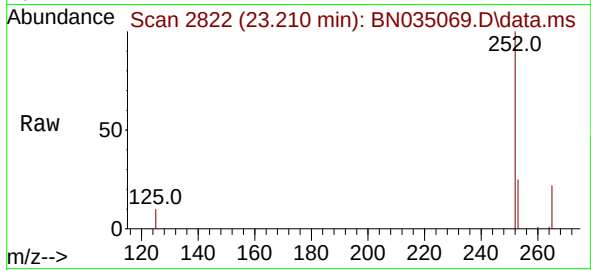
Tgt Ion:252 Resp: 17596

Ion Ratio Lower Upper

252 100

253 25.4 20.1 30.1

125 10.3 7.5 11.3



#40

Dibenzo(a,h)anthracene

Concen: 0.373 ng

RT: 25.467 min Scan# 3594

Delta R.T. -0.000 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

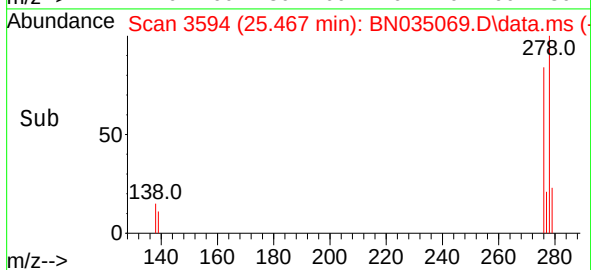
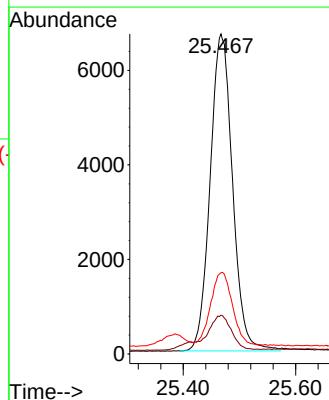
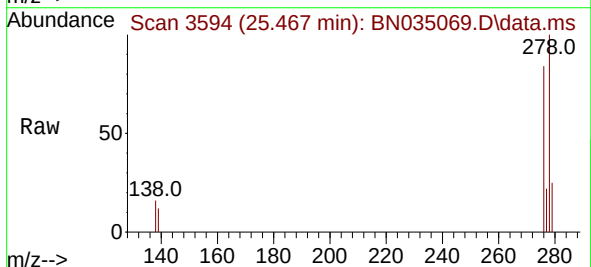
Tgt Ion:278 Resp: 18547

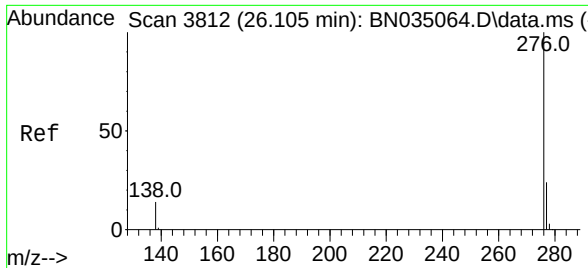
Ion Ratio Lower Upper

278 100

139 12.1 9.3 13.9

279 25.4 19.7 29.5





#41

Benzo(g,h,i)perylene

Concen: 0.372 ng

RT: 26.104 min Scan# 3812

Delta R.T. -0.000 min

Lab File: BN035069.D

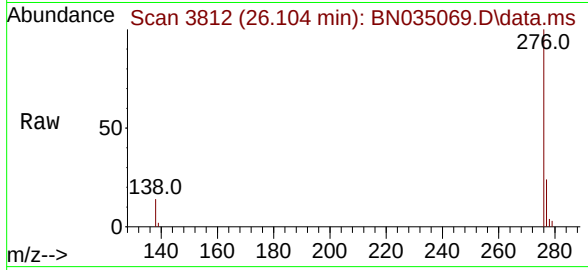
Acq: 13 Nov 2024 16:51

Instrument :

BNA_N

ClientSampleId :

ICVBN111324



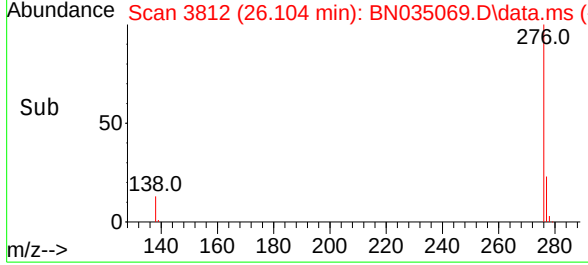
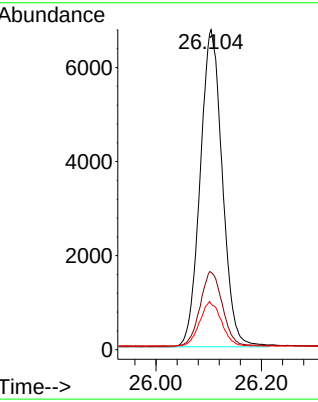
Tgt Ion:276 Resp: 19649

Ion Ratio Lower Upper

276 100

277 24.2 19.9 29.9

138 14.3 11.6 17.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112124\
 Data File : BN035219.D
 Acq On : 21 Nov 2024 13:22
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Nov 21 14:33:33 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 21 14:00:03 2024
 Response via : Initial Calibration

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

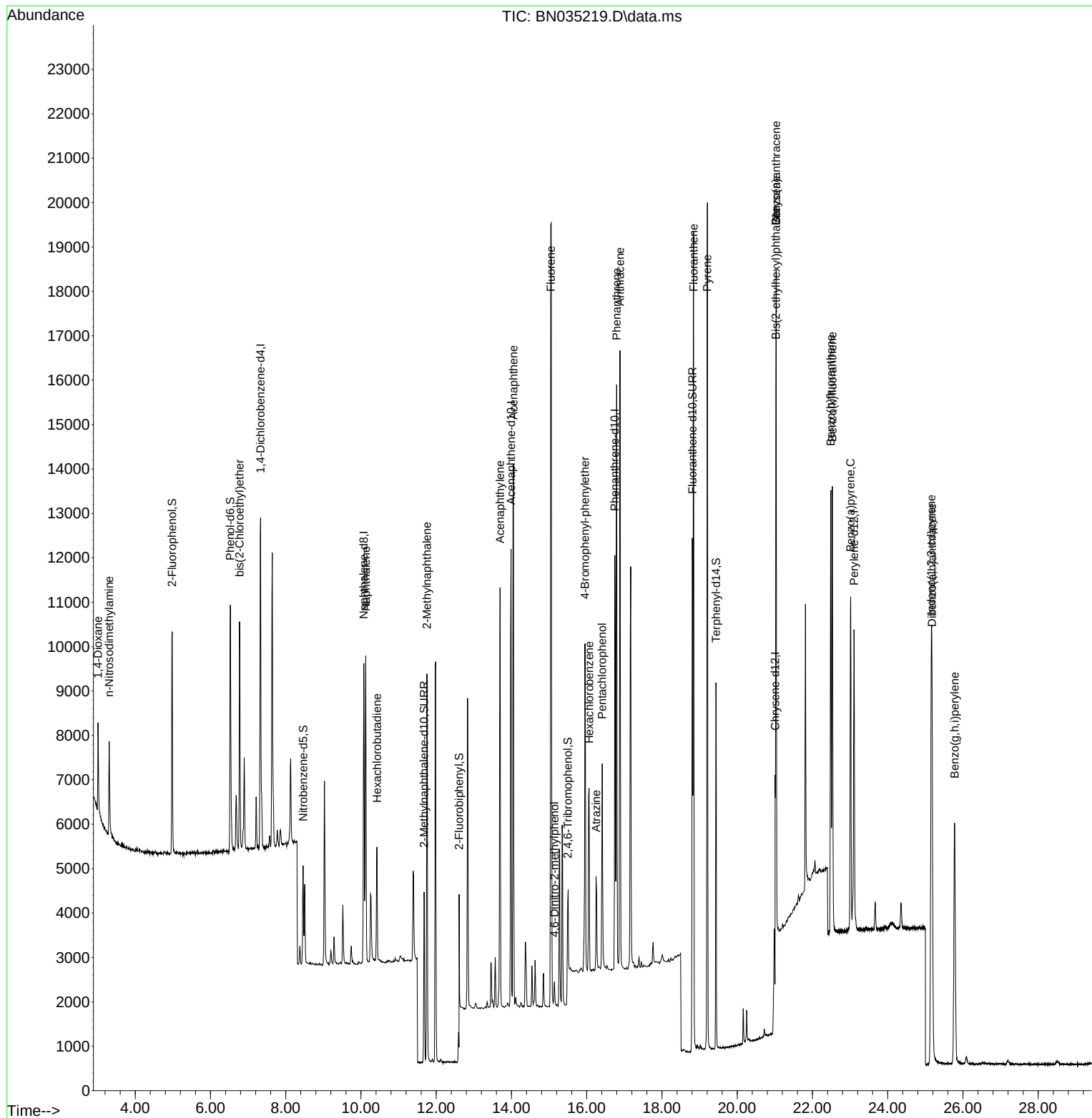
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.329	152	3553	0.400	ng	0.00
7) Naphthalene-d8	10.073	136	8594	0.400	ng	# 0.00
13) Acenaphthene-d10	13.987	164	5839	0.400	ng	0.00
19) Phenanthrene-d10	16.746	188	13132	0.400	ng	# 0.00
29) Chrysene-d12	21.008	240	2179	0.400	ng	# 0.00
35) Perylene-d12	23.104	264	7936	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.982	112	4170	0.462	ng	0.00
5) Phenol-d6	6.528	99	5231	0.463	ng	0.00
8) Nitrobenzene-d5	8.461	82	2473	0.331	ng	0.00
11) 2-Methylnaphthalene-d10	11.678	152	5187	0.339	ng	0.00
14) 2,4,6-Tribromophenol	15.494	330	1931	0.458	ng	0.00
15) 2-Fluorobiphenyl	12.608	172	1744	0.074	ng	0.00
27) Fluoranthene-d10	18.806	212	12553	0.312	ng	0.00
31) Terphenyl-d14	19.438	244	7908	1.730	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.011	88	1431	0.443	ng	# 85
3) n-Nitrosodimethylamine	3.307	42	1242	0.413	ng	# 97
6) bis(2-Chloroethyl)ether	6.773	93	3817	0.450	ng	95
9) Naphthalene	10.127	128	8813	0.393	ng	99
10) Hexachlorobutadiene	10.426	225	2134	0.324	ng	# 100
12) 2-Methylnaphthalene	11.754	142	6233	0.377	ng	97
16) Acenaphthylene	13.698	152	10404	0.417	ng	99
17) Acenaphthene	14.051	154	6430	0.393	ng	99
18) Fluorene	15.045	166	8973	0.373	ng	99
20) 4,6-Dinitro-2-methylph...	15.142	198	427	0.156	ng	# 31
21) 4-Bromophenyl-phenylether	15.952	248	3185	0.381	ng	# 73
22) Hexachlorobenzene	16.064	284	3749	0.432	ng	96
23) Atrazine	16.250	200	1902	0.253	ng	# 94
24) Pentachlorophenol	16.411	266	2236	0.551	ng	98
25) Phenanthrene	16.796	178	13999	0.405	ng	99
26) Anthracene	16.883	178	13479	0.425	ng	99
28) Fluoranthene	18.839	202	16410	0.345	ng	# 97
30) Pyrene	19.206	202	16732	2.306	ng	100
32) Benzo(a)anthracene	21.035	228	12666	1.669	ng	95
33) Chrysene	21.035	228	12666	1.685	ng	98
34) Bis(2-ethylhexyl)phtha...	21.026	149	1204	0.302	ng	# 93
36) Indeno(1,2,3-cd)pyrene	25.157	276	12159	0.384	ng	# 90
37) Benzo(b)fluoranthene	22.487	252	11451	0.429	ng	# 95
38) Benzo(k)fluoranthene	22.528	252	11422	0.428	ng	# 95
39) Benzo(a)pyrene	23.014	252	9865	0.420	ng	# 94
40) Dibenzo(a,h)anthracene	25.177	278	9332	0.372	ng	# 89
41) Benzo(g,h,i)perylene	25.776	276	10046	0.377	ng	# 89

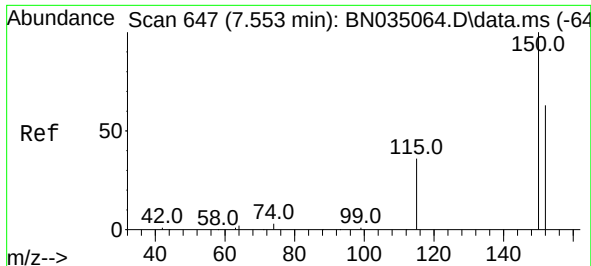
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112124\
Data File : BN035219.D
Acq On : 21 Nov 2024 13:22
Operator : RC/JU
Sample : SSTCCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTCCCC0.4

Quant Time: Nov 21 14:33:33 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 14:00:03 2024
Response via : Initial Calibration

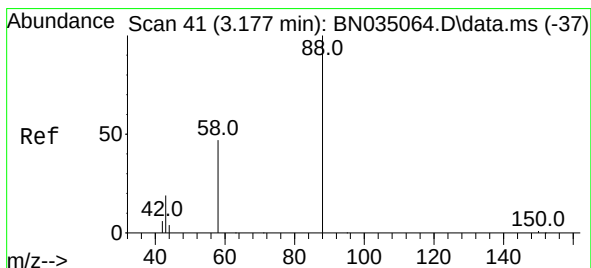
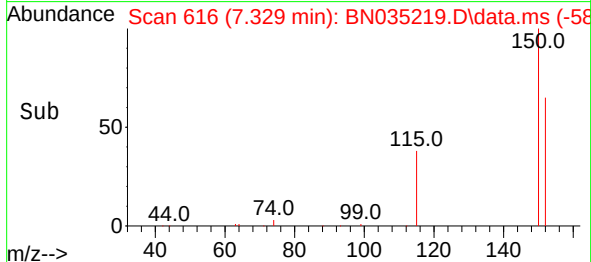
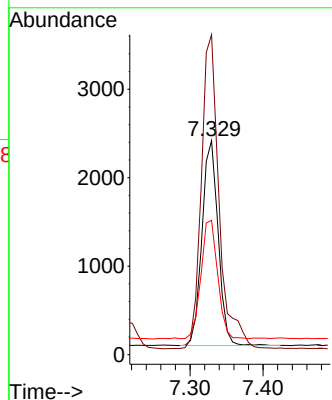
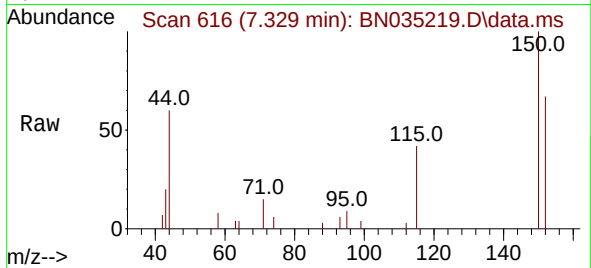




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.329 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

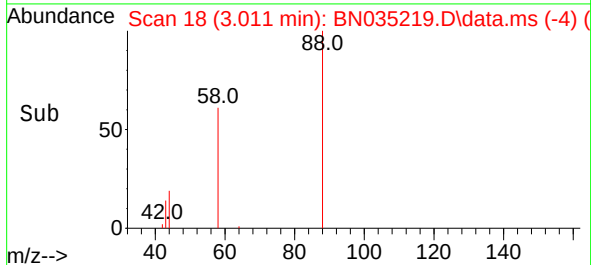
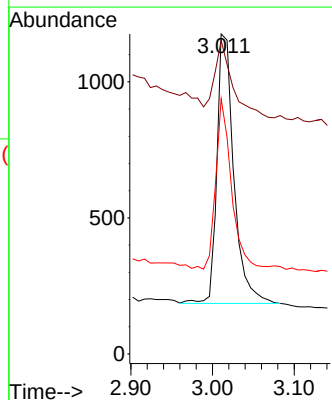
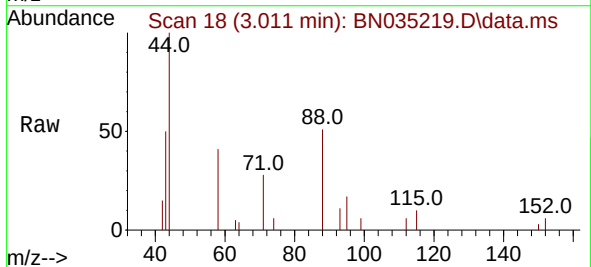
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

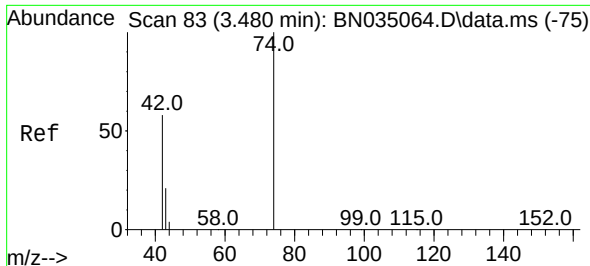
Tgt Ion:152 Resp: 3553
Ion Ratio Lower Upper
152 100
150 149.5 124.5 186.7
115 62.8 47.8 71.6



#2
1,4-Dioxane
Concen: 0.443 ng
RT: 3.011 min Scan# 18
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

Tgt Ion: 88 Resp: 1431
Ion Ratio Lower Upper
88 100
43 30.7 16.9 25.3#
58 57.5 39.0 58.4

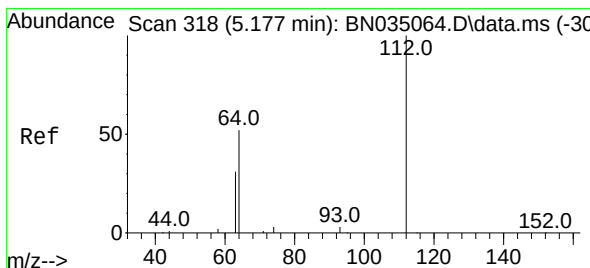
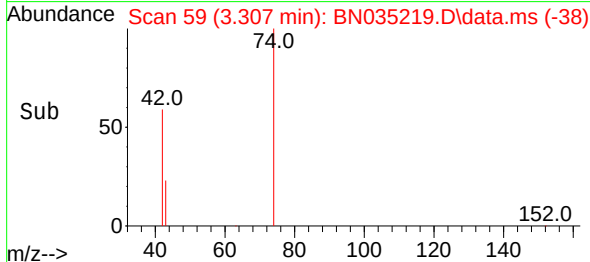
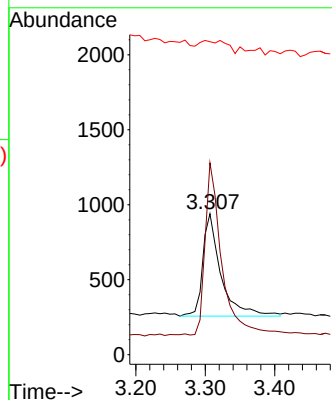
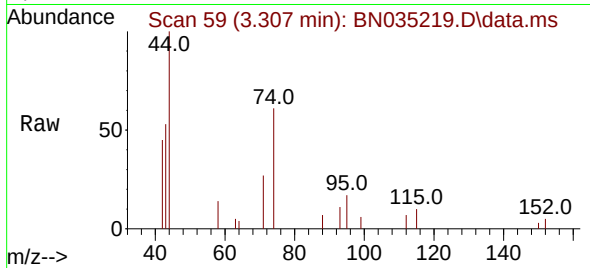




#3
n-Nitrosodimethylamine
Concen: 0.413 ng
RT: 3.307 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

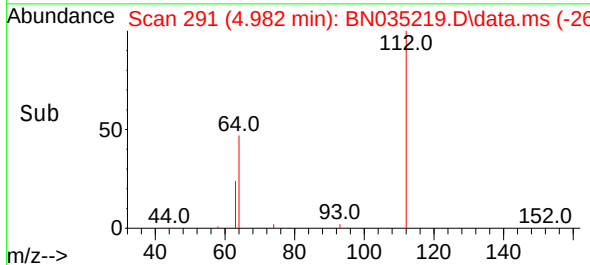
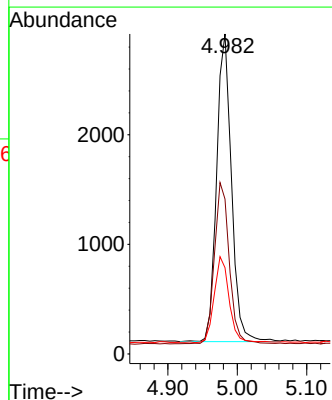
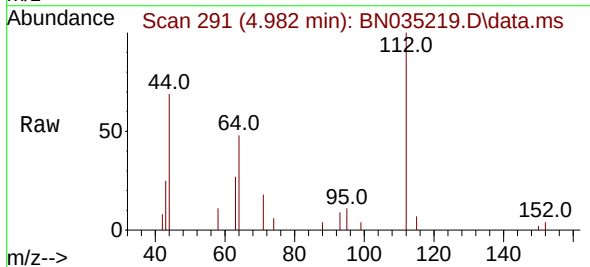
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

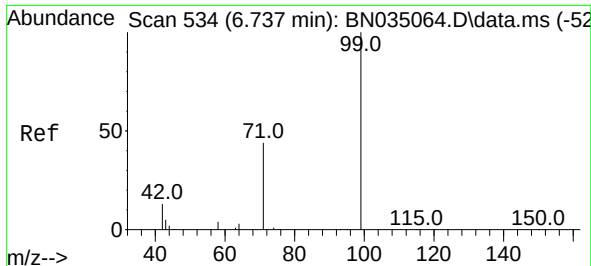
Tgt Ion: 42 Resp: 1242
Ion Ratio Lower Upper
42 100
74 153.3 120.8 181.2
44 18.3 2.9 4.3#



#4
2-Fluorophenol
Concen: 0.462 ng
RT: 4.982 min Scan# 291
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

Tgt Ion: 112 Resp: 4170
Ion Ratio Lower Upper
112 100
64 52.4 39.7 59.5
63 27.9 23.0 34.4

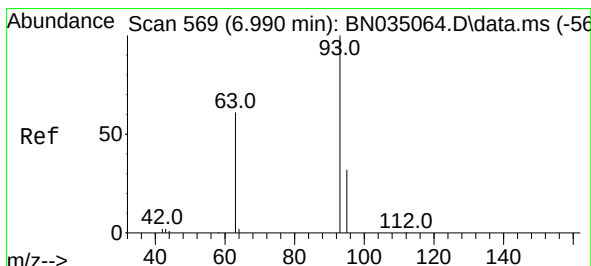
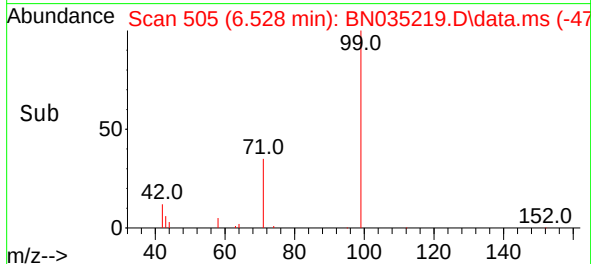
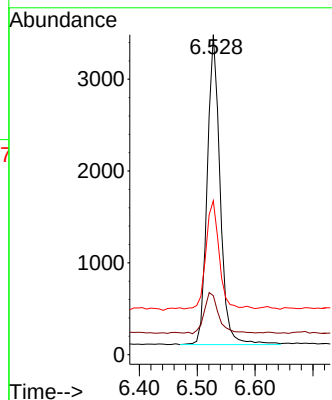
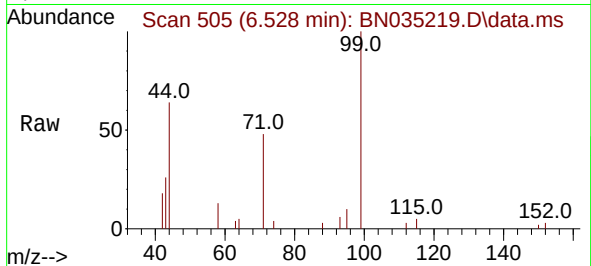




#5
Phenol-d6
Concen: 0.463 ng
RT: 6.528 min Scan# 505
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

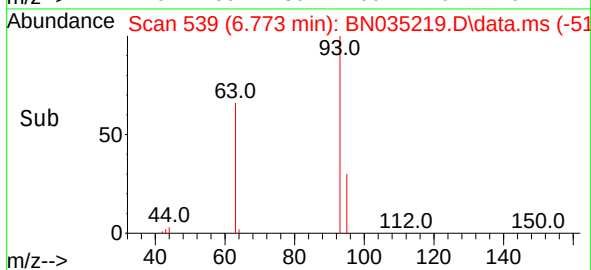
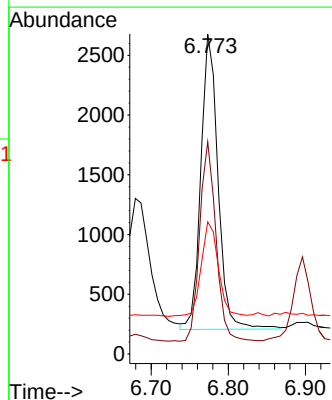
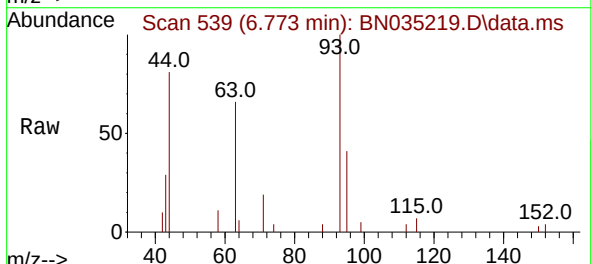
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

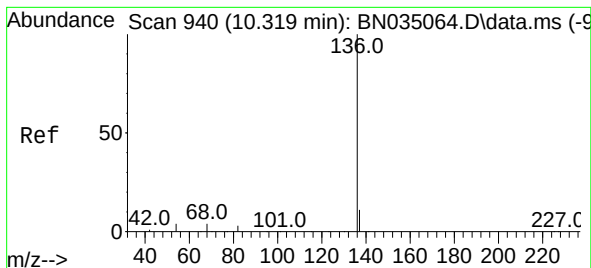
Tgt Ion: 99 Resp: 5231
Ion Ratio Lower Upper
99 100
42 14.2 11.4 17.0
71 37.0 34.6 51.8



#6
bis(2-Chloroethyl)ether
Concen: 0.450 ng
RT: 6.773 min Scan# 539
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

Tgt Ion: 93 Resp: 3817
Ion Ratio Lower Upper
93 100
63 63.9 47.4 71.2
95 31.9 26.2 39.4





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.073 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN035219.D

Acq: 21 Nov 2024 13:22

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion:136 Resp: 8594

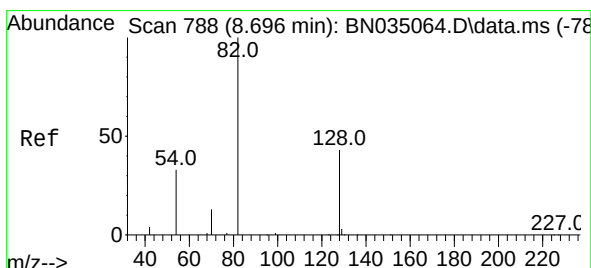
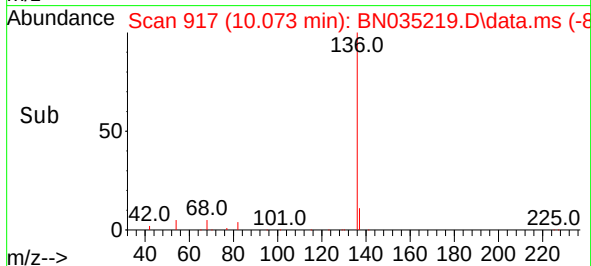
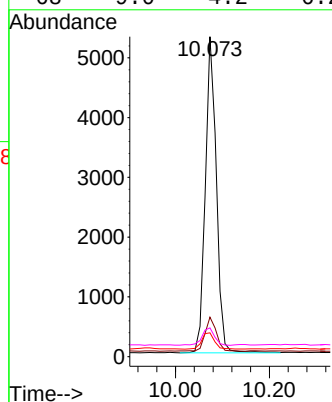
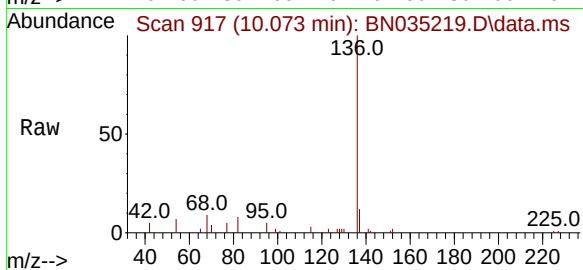
Ion Ratio Lower Upper

136 100

137 12.3 9.8 14.8

54 7.4 4.0 6.0#

68 9.0 4.2 6.2#



#8

Nitrobenzene-d5

Concen: 0.331 ng

RT: 8.461 min Scan# 766

Delta R.T. 0.000 min

Lab File: BN035219.D

Acq: 21 Nov 2024 13:22

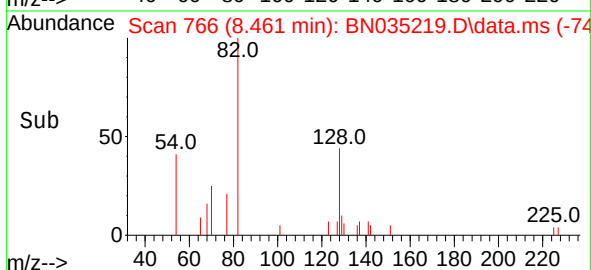
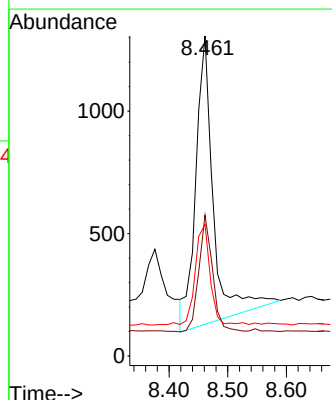
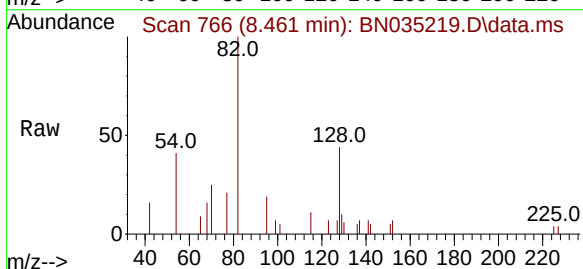
Tgt Ion: 82 Resp: 2473

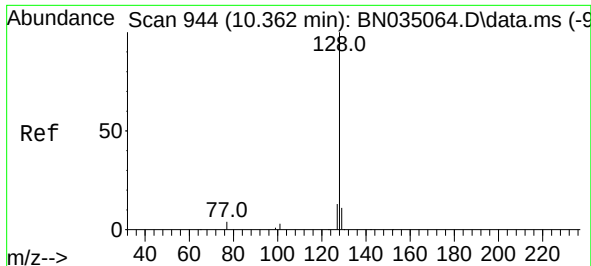
Ion Ratio Lower Upper

82 100

128 44.0 36.5 54.7

54 41.2 28.7 43.1

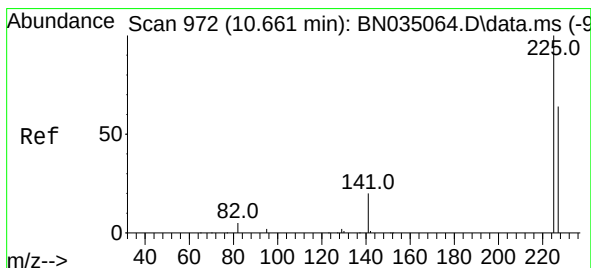
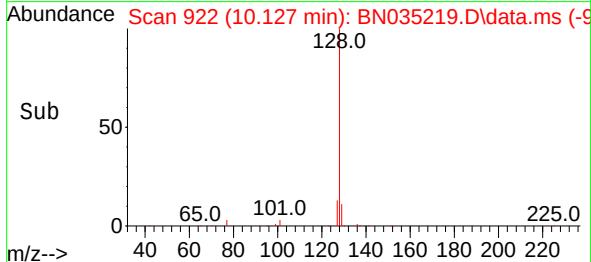
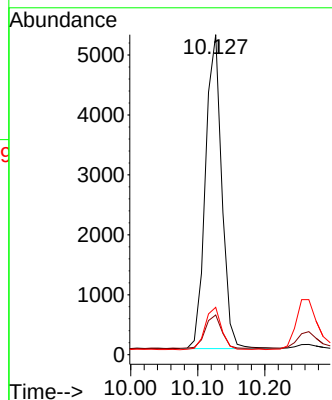
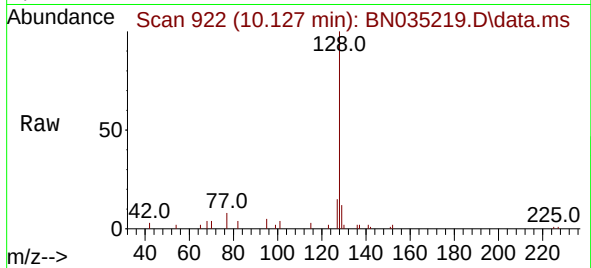




#9
Naphthalene
Concen: 0.393 ng
RT: 10.127 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

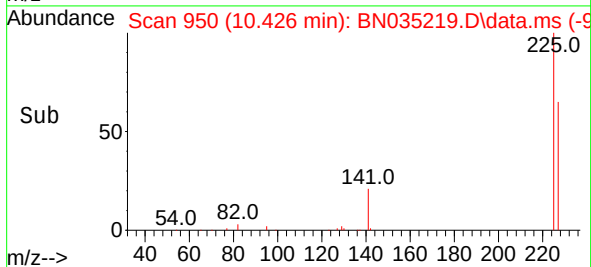
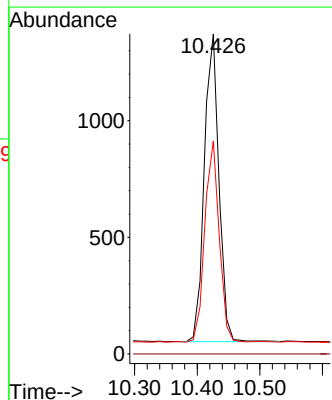
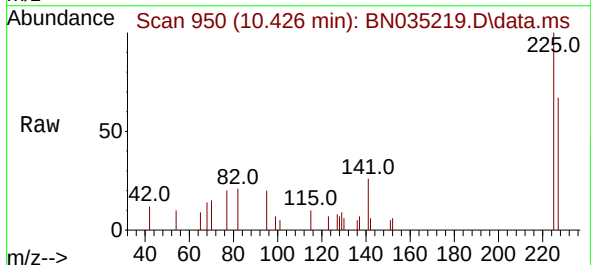
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

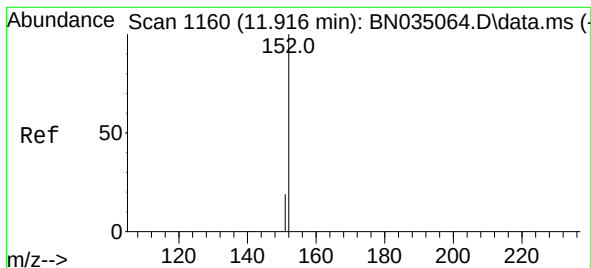
Tgt Ion:128 Resp: 8813
Ion Ratio Lower Upper
128 100
129 12.4 9.6 14.4
127 14.8 11.6 17.4



#10
Hexachlorobutadiene
Concen: 0.324 ng
RT: 10.426 min Scan# 950
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

Tgt Ion:225 Resp: 2134
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.4 51.5 77.3





#11

2-Methylnaphthalene-d10

Concen: 0.339 ng

RT: 11.678 min Scan# 1109

Delta R.T. 0.000 min

Lab File: BN035219.D

Acq: 21 Nov 2024 13:22

Instrument :

BNA_N

ClientSampleId :

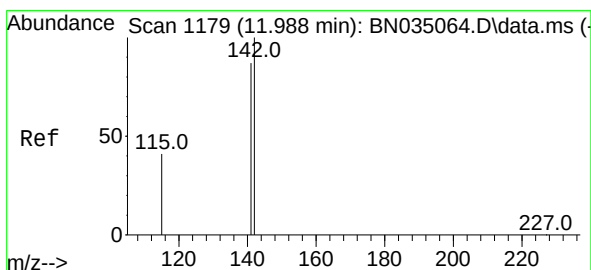
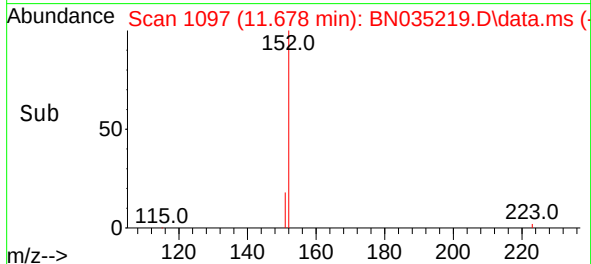
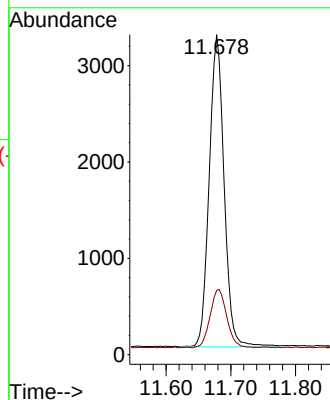
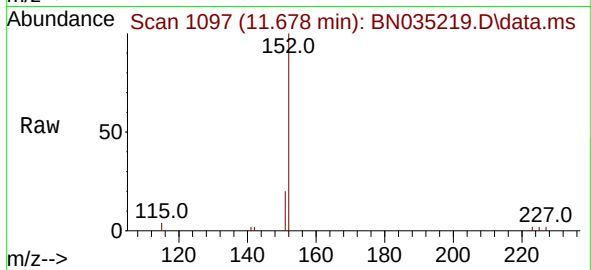
SSTDCCC0.4

Tgt Ion:152 Resp: 5187

Ion Ratio Lower Upper

152 100

151 21.0 16.2 24.4



#12

2-Methylnaphthalene

Concen: 0.377 ng

RT: 11.754 min Scan# 1117

Delta R.T. 0.000 min

Lab File: BN035219.D

Acq: 21 Nov 2024 13:22

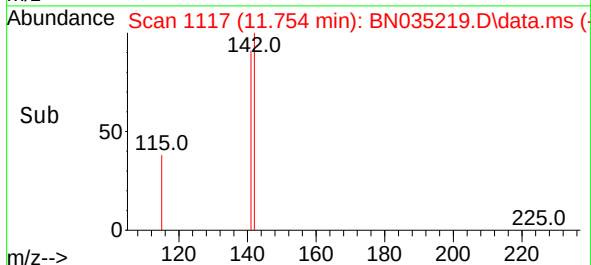
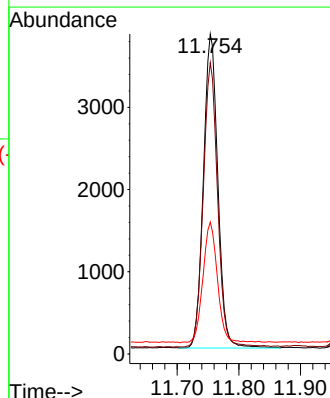
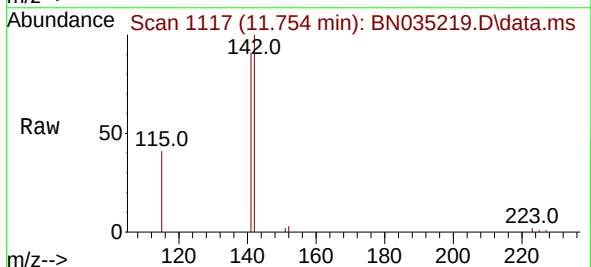
Tgt Ion:142 Resp: 6233

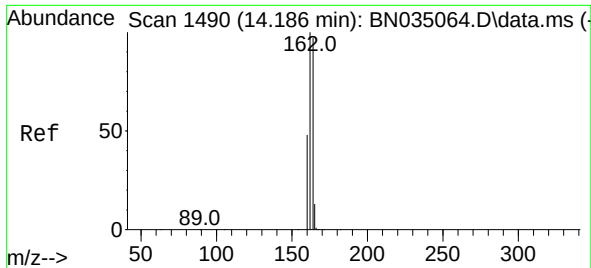
Ion Ratio Lower Upper

142 100

141 91.0 70.1 105.1

115 41.2 34.4 51.6

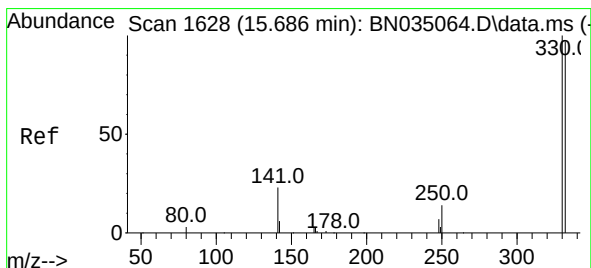
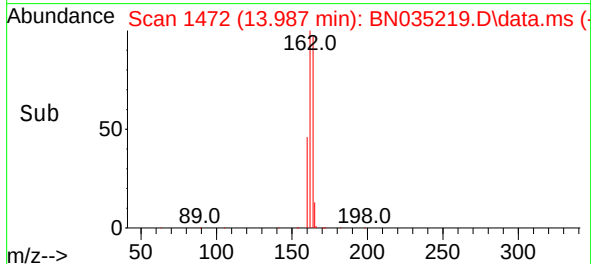
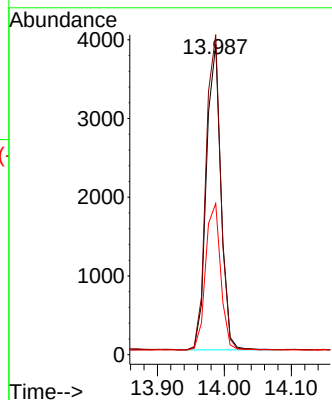
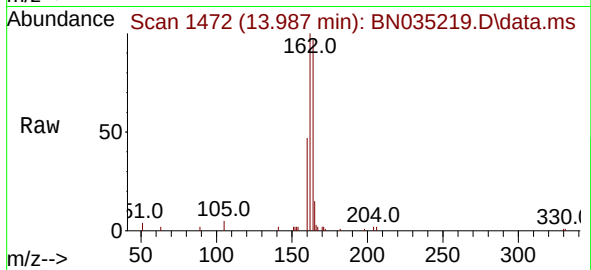




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.987 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

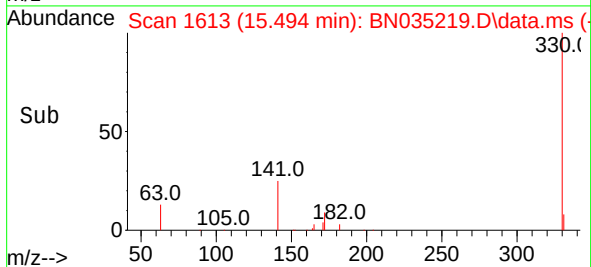
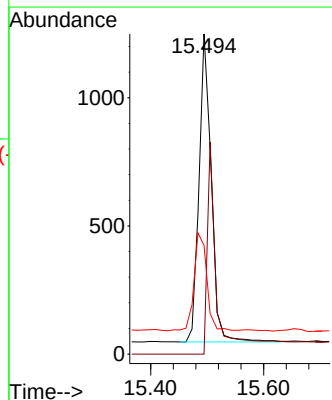
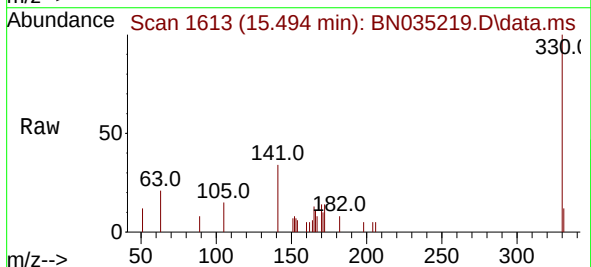
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

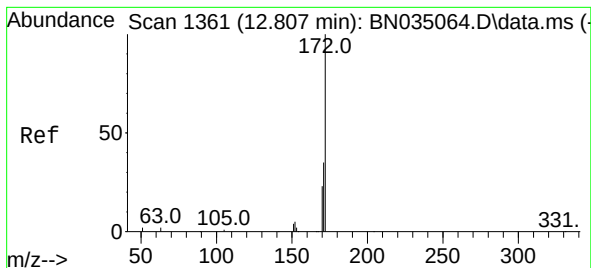
Tgt Ion:164 Resp: 5839
Ion Ratio Lower Upper
164 100
162 103.1 82.2 123.2
160 48.7 40.2 60.4



#14
2,4,6-Tribromophenol
Concen: 0.458 ng
RT: 15.494 min Scan# 1613
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

Tgt Ion:330 Resp: 1931
Ion Ratio Lower Upper
330 100
332 57.9 76.9 115.3#
141 0.0 29.6 44.4#





#15

2-Fluorobiphenyl

Concen: 0.074 ng

RT: 12.608 min Scan# 1443

Delta R.T. 0.000 min

Lab File: BN035219.D

Acq: 21 Nov 2024 13:22

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

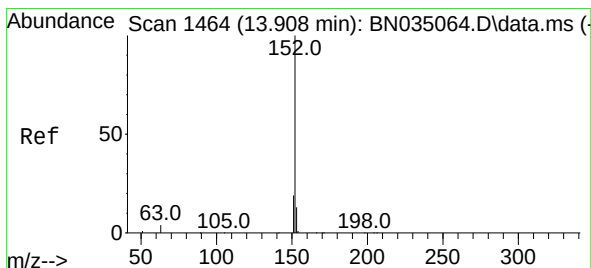
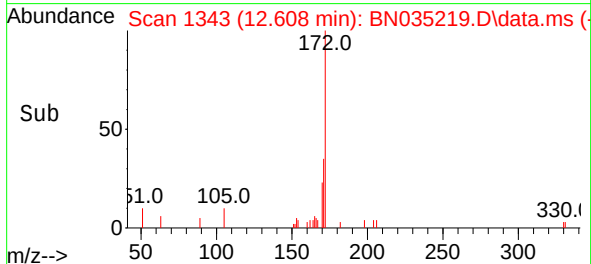
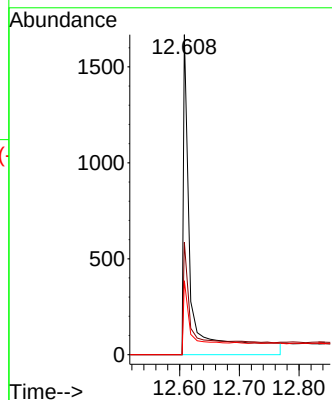
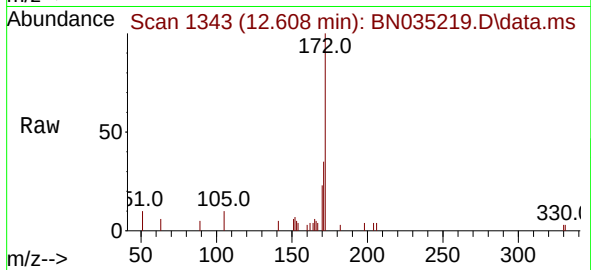
Tgt Ion:172 Resp: 1744

Ion Ratio Lower Upper

172 100

171 35.1 28.2 42.4

170 23.1 19.0 28.6



#16

Acenaphthylene

Concen: 0.417 ng

RT: 13.698 min Scan# 1445

Delta R.T. 0.000 min

Lab File: BN035219.D

Acq: 21 Nov 2024 13:22

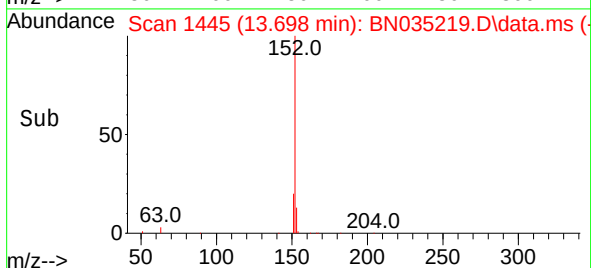
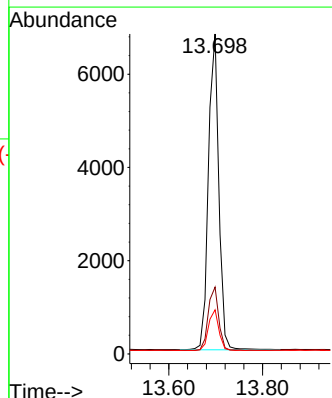
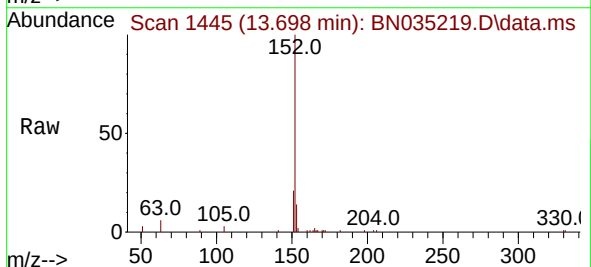
Tgt Ion:152 Resp: 10404

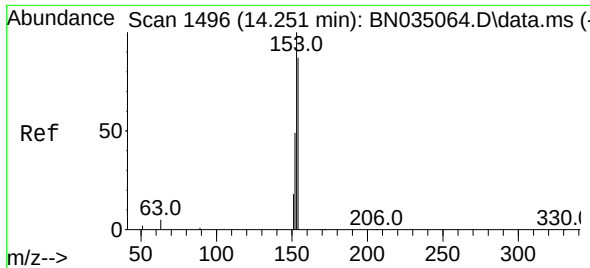
Ion Ratio Lower Upper

152 100

151 20.4 15.8 23.8

153 12.8 10.2 15.4

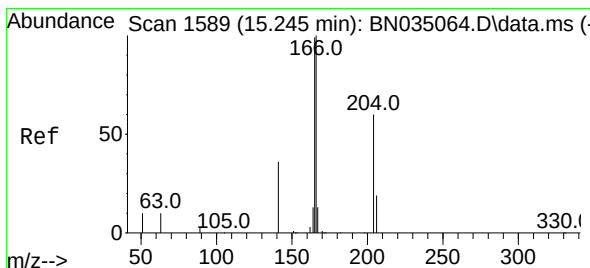
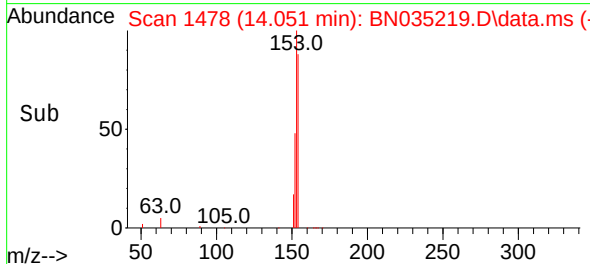
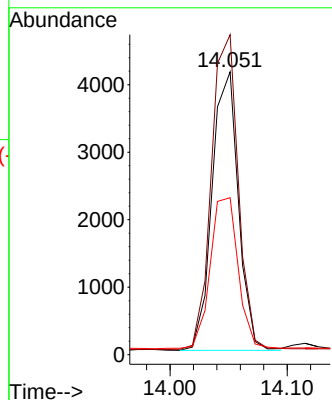
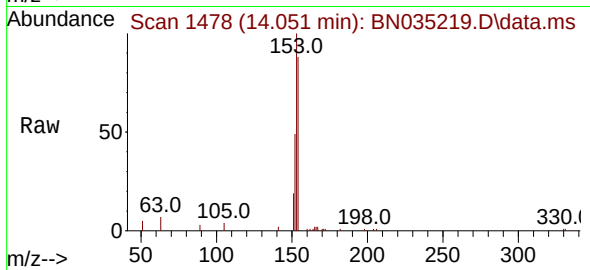




#17
Acenaphthene
Concen: 0.393 ng
RT: 14.051 min Scan# 1496
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

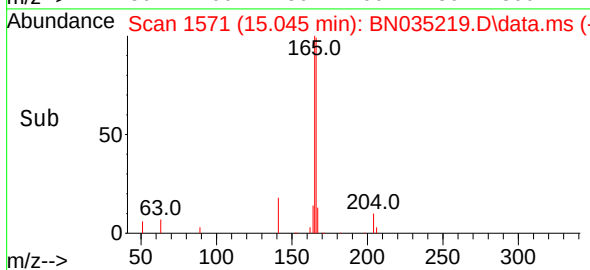
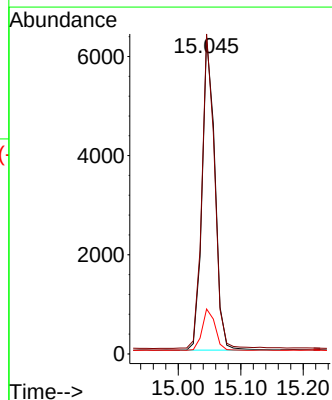
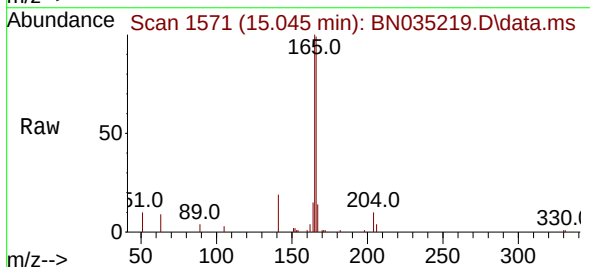
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

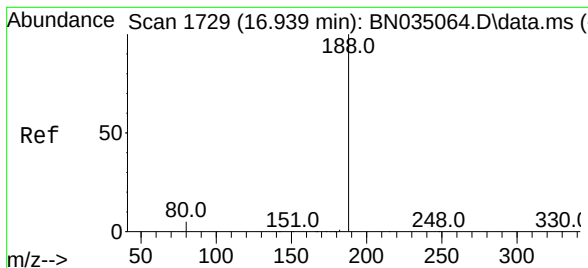
Tgt Ion:154 Resp: 6430
Ion Ratio Lower Upper
154 100
153 115.4 91.6 137.4
152 58.0 45.8 68.6



#18
Fluorene
Concen: 0.373 ng
RT: 15.045 min Scan# 1571
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

Tgt Ion:166 Resp: 8973
Ion Ratio Lower Upper
166 100
165 99.7 79.1 118.7
167 13.4 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.746 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN035219.D

Acq: 21 Nov 2024 13:22

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

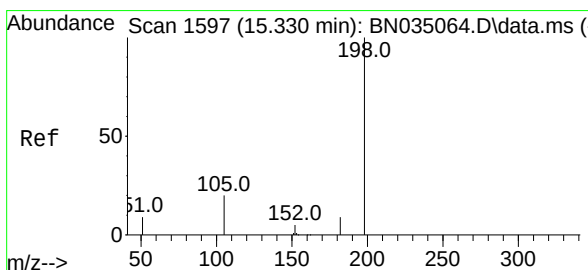
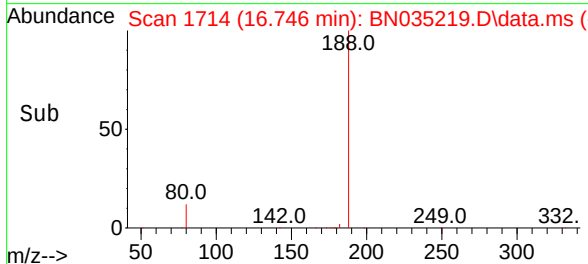
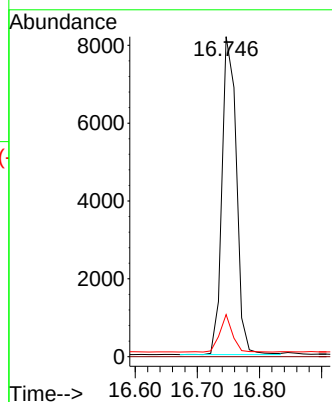
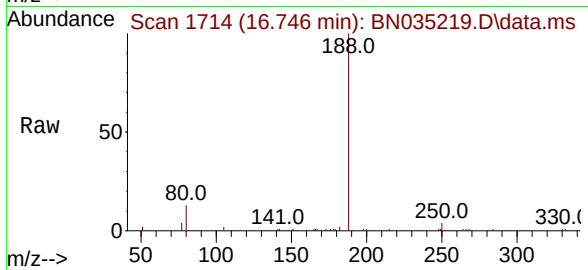
Tgt Ion:188 Resp: 13132

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.2 4.3 6.5#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.156 ng

RT: 15.142 min Scan# 1580

Delta R.T. 0.000 min

Lab File: BN035219.D

Acq: 21 Nov 2024 13:22

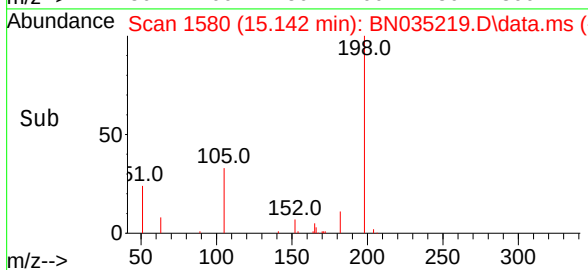
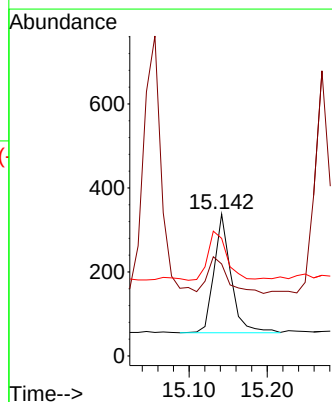
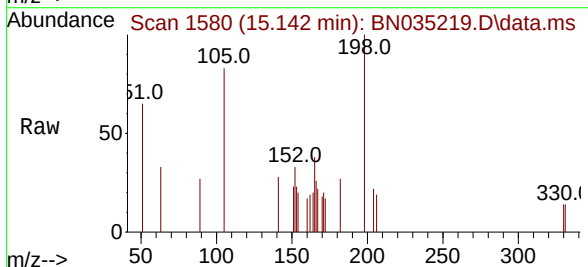
Tgt Ion:198 Resp: 427

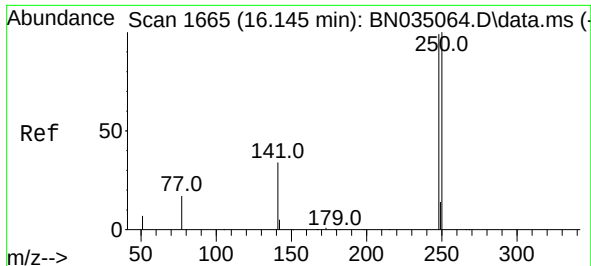
Ion Ratio Lower Upper

198 100

51 64.8 29.9 44.9#

105 82.8 23.7 35.5#

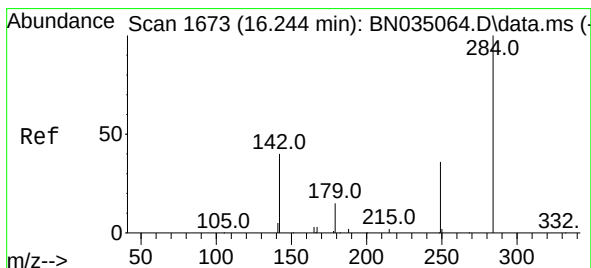
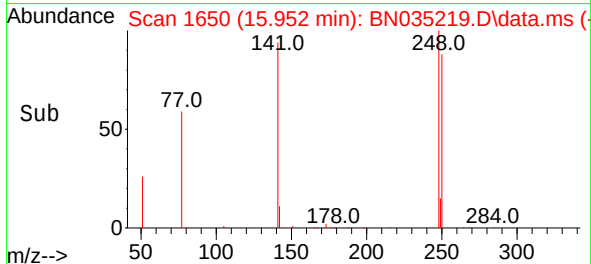
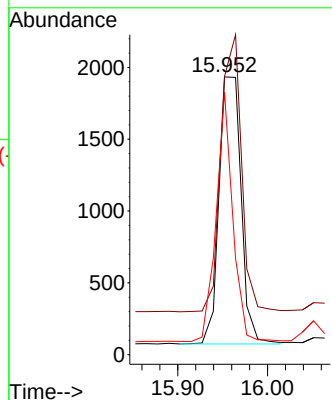
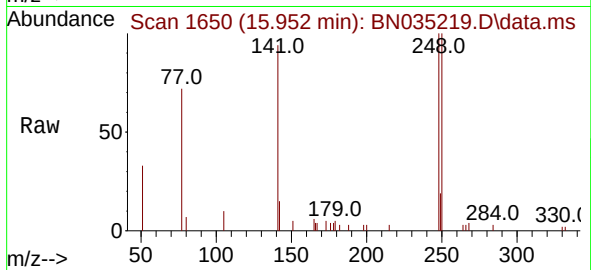




#21
4-Bromophenyl-phenylether
Concen: 0.381 ng
RT: 15.952 min Scan# 1650
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

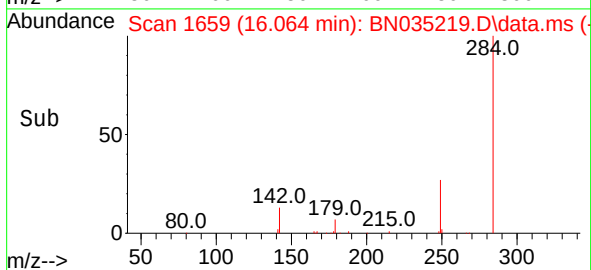
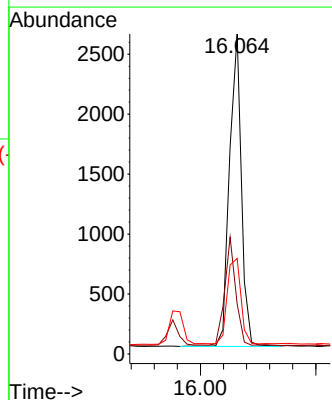
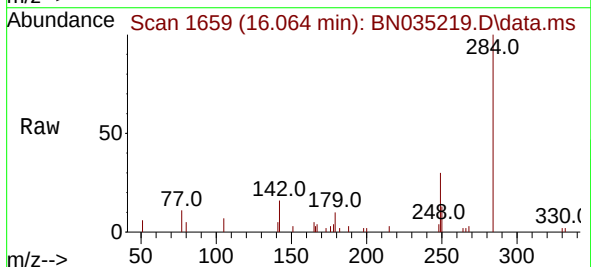
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

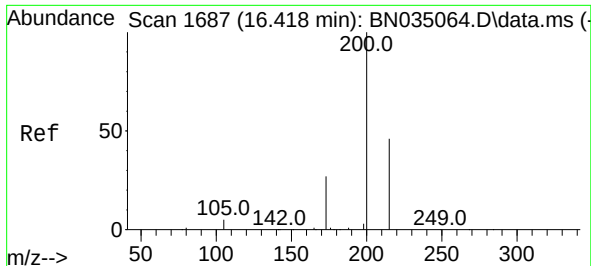
Tgt Ion:248 Resp: 3185
Ion Ratio Lower Upper
248 100
250 100.2 81.2 121.8
141 94.6 29.1 43.7#



#22
Hexachlorobenzene
Concen: 0.432 ng
RT: 16.064 min Scan# 1659
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

Tgt Ion:284 Resp: 3749
Ion Ratio Lower Upper
284 100
142 32.4 28.2 42.4
249 31.3 26.2 39.2

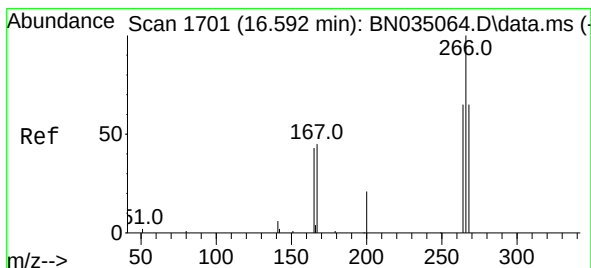
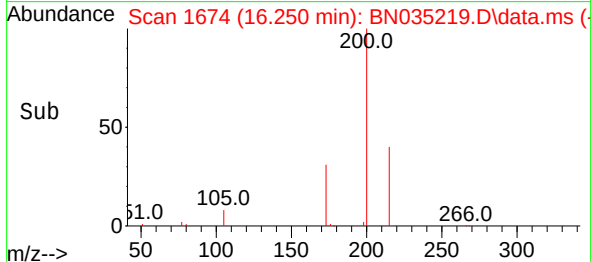
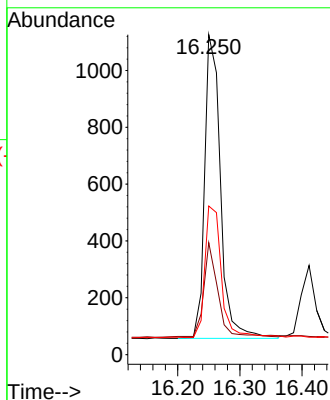
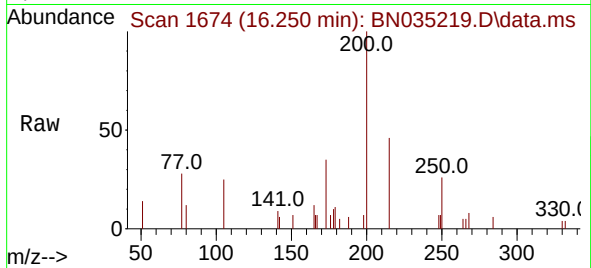




#23
Atrazine
Concen: 0.253 ng
RT: 16.250 min Scan# 1687
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

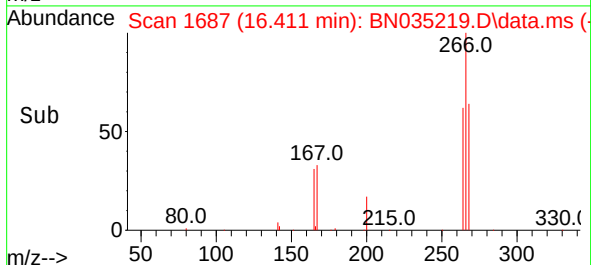
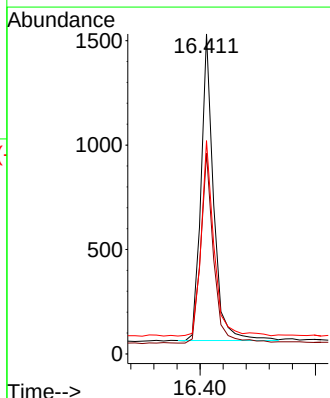
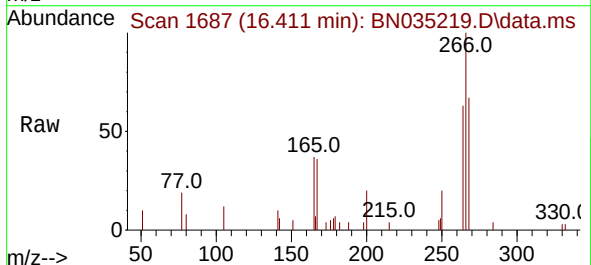
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

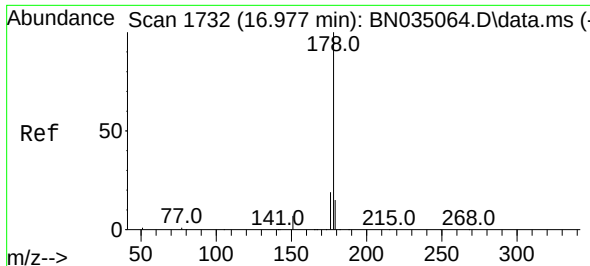
Tgt Ion:200 Resp: 1902
Ion Ratio Lower Upper
200 100
173 35.0 22.6 33.8#
215 46.4 37.8 56.6



#24
Pentachlorophenol
Concen: 0.551 ng
RT: 16.411 min Scan# 1687
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

Tgt Ion:266 Resp: 2236
Ion Ratio Lower Upper
266 100
264 63.4 49.4 74.0
268 64.6 52.6 79.0





#25

Phenanthrene

Concen: 0.405 ng

RT: 16.796 min Scan# 1725

Delta R.T. 0.000 min

Lab File: BN035219.D

Acq: 21 Nov 2024 13:22

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

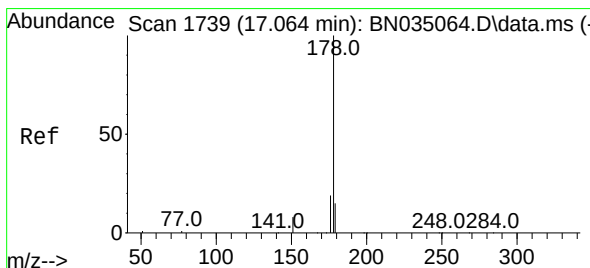
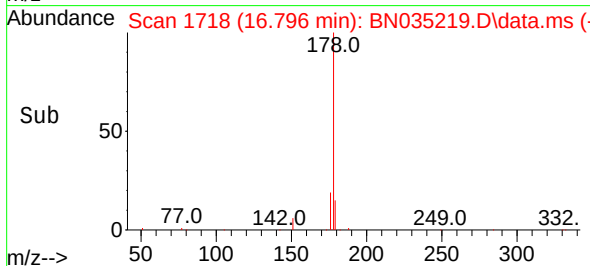
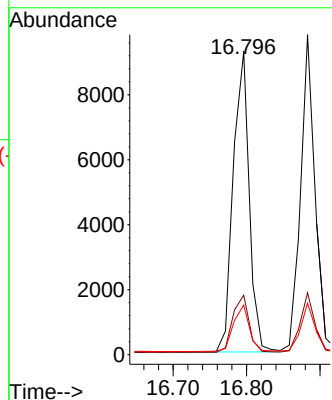
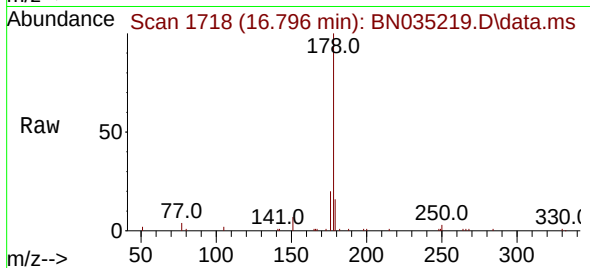
Tgt Ion:178 Resp: 13999

Ion Ratio Lower Upper

178 100

176 19.4 15.2 22.8

179 15.5 12.6 18.8



#26

Anthracene

Concen: 0.425 ng

RT: 16.883 min Scan# 1725

Delta R.T. 0.000 min

Lab File: BN035219.D

Acq: 21 Nov 2024 13:22

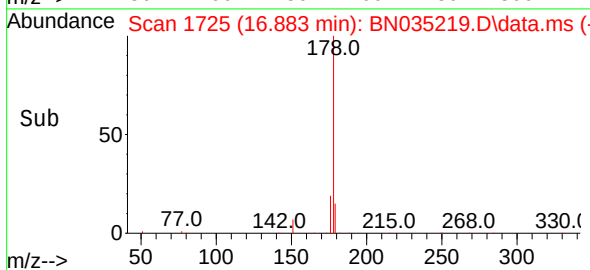
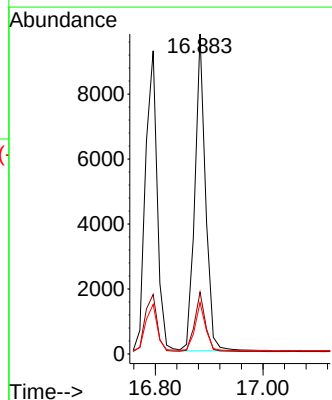
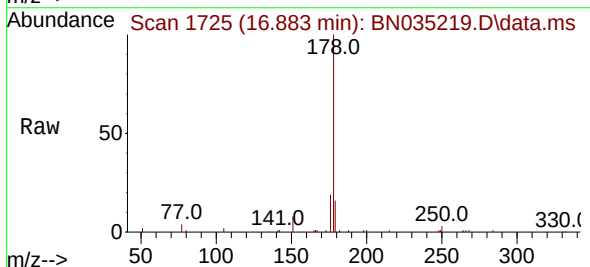
Tgt Ion:178 Resp: 13479

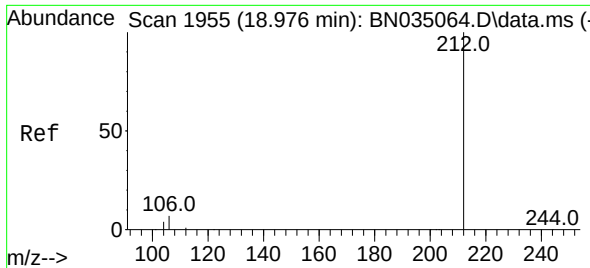
Ion Ratio Lower Upper

178 100

176 18.8 14.6 22.0

179 15.2 12.2 18.2

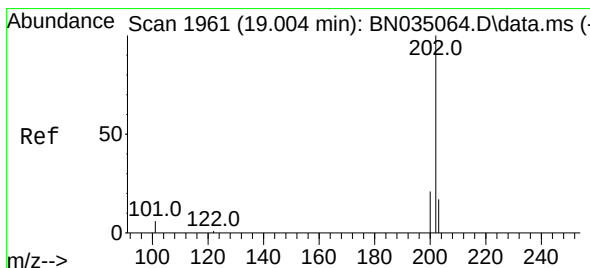
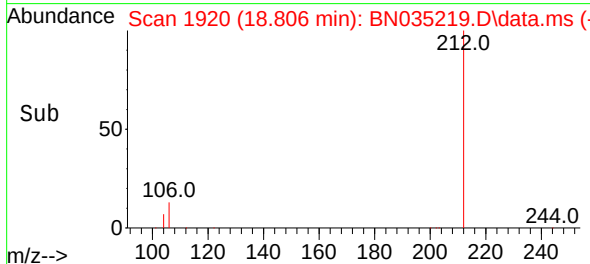
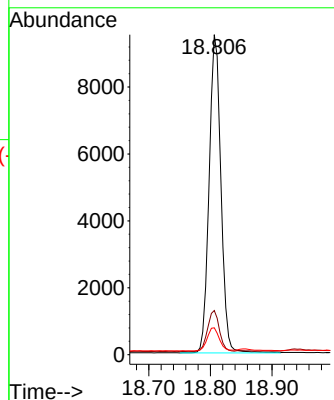
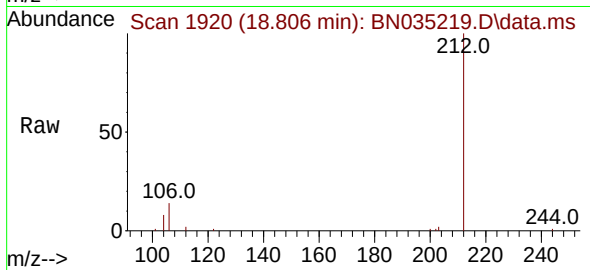




#27
Fluoranthene-d10
Concen: 0.312 ng
RT: 18.806 min Scan# 1920
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

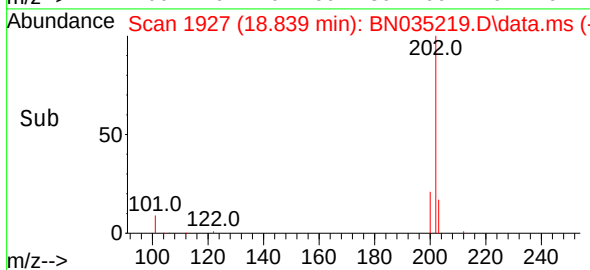
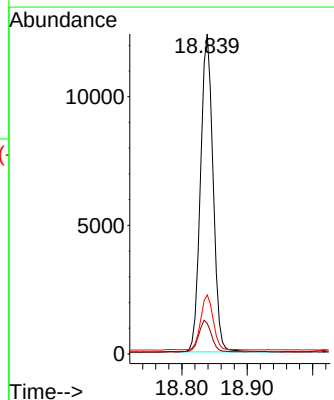
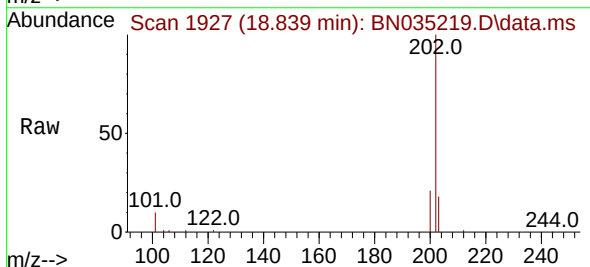
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

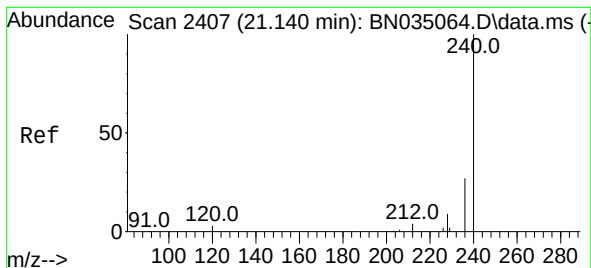
Tgt Ion:212 Resp: 12553
Ion Ratio Lower Upper
212 100
106 13.0 6.0 9.0#
104 7.5 3.5 5.3#



#28
Fluoranthene
Concen: 0.345 ng
RT: 18.839 min Scan# 1927
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

Tgt Ion:202 Resp: 16410
Ion Ratio Lower Upper
202 100
101 10.1 5.2 7.8#
203 17.3 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.008 min Scan# 2407

Delta R.T. 0.000 min

Lab File: BN035219.D

Acq: 21 Nov 2024 13:22

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

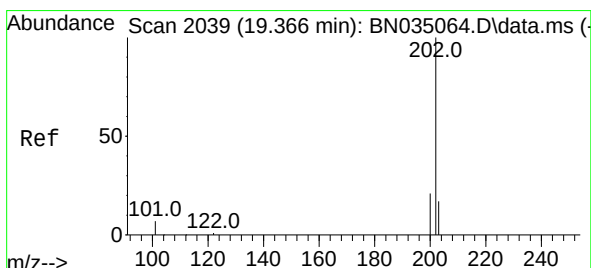
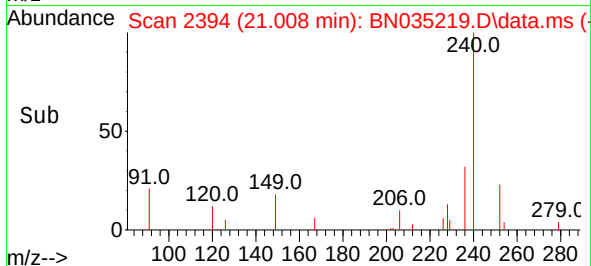
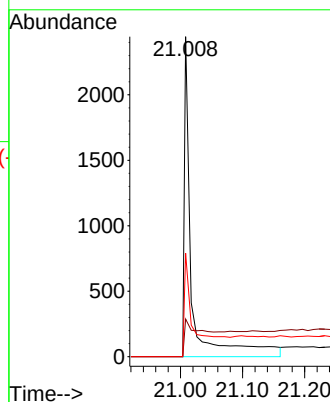
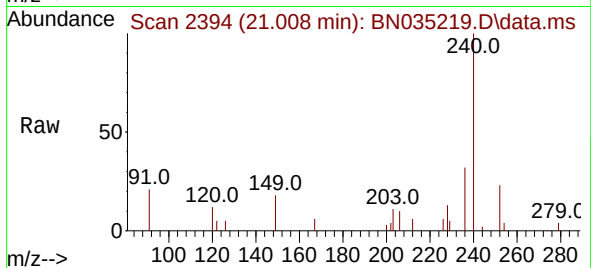
Tgt Ion:240 Resp: 2179

Ion Ratio Lower Upper

240 100

120 11.7 3.8 5.6#

236 32.4 22.2 33.2



#30

Pyrene

Concen: 2.306 ng

RT: 19.206 min Scan# 2006

Delta R.T. 0.000 min

Lab File: BN035219.D

Acq: 21 Nov 2024 13:22

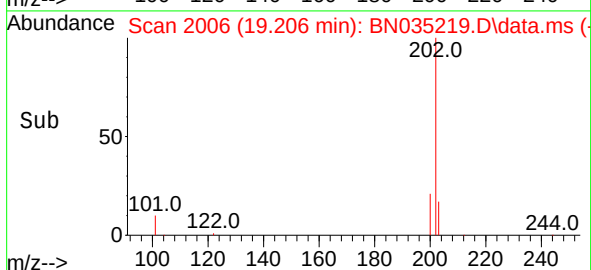
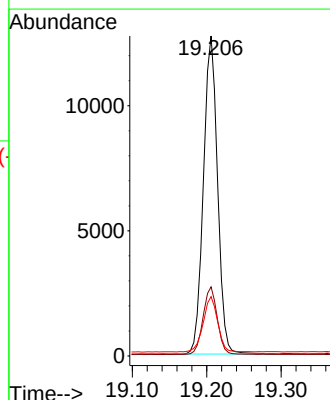
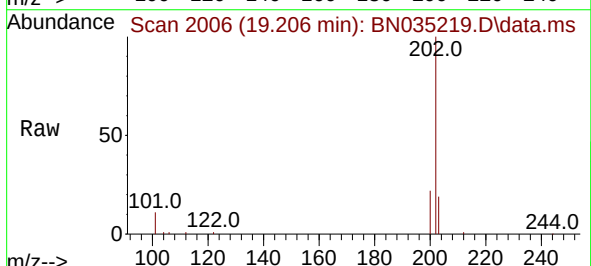
Tgt Ion:202 Resp: 16732

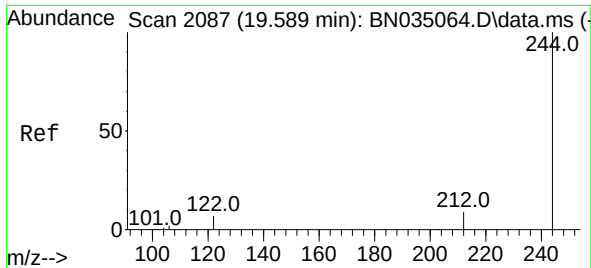
Ion Ratio Lower Upper

202 100

200 21.3 16.7 25.1

203 17.8 14.2 21.4

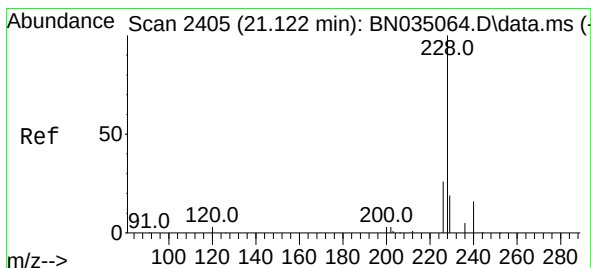
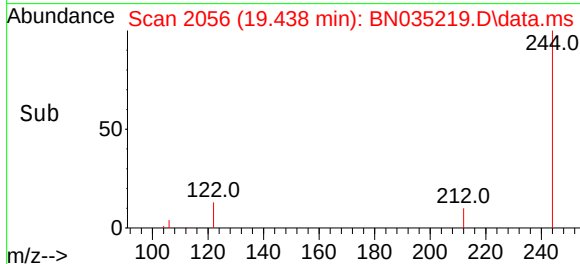
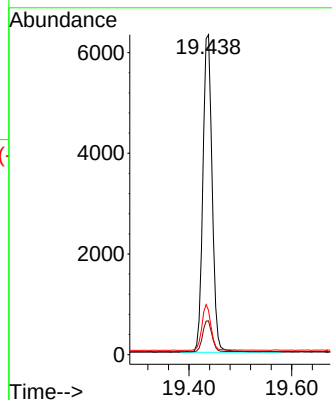
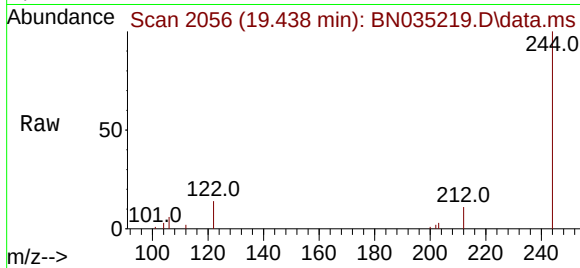




#31
 Terphenyl-d14
 Concen: 1.730 ng
 RT: 19.438 min Scan# 2087
 Delta R.T. 0.000 min
 Lab File: BN035219.D
 Acq: 21 Nov 2024 13:22

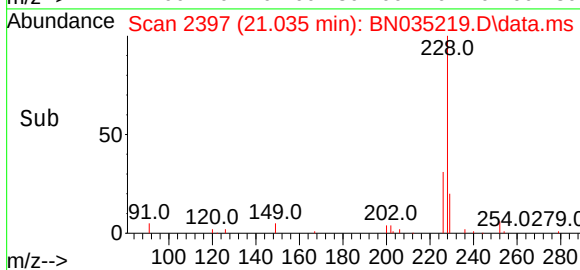
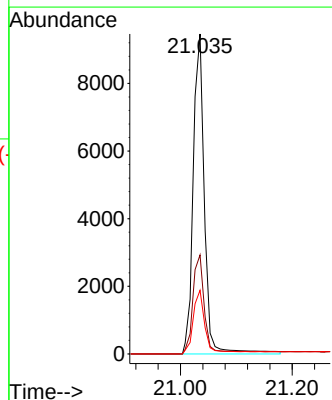
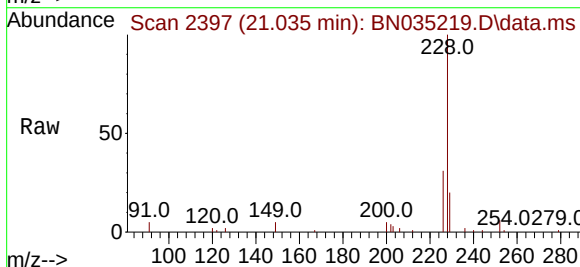
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

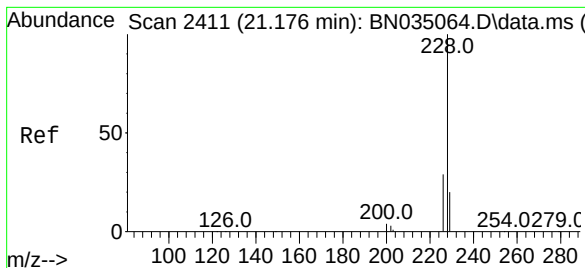
Tgt Ion:244 Resp: 7908
 Ion Ratio Lower Upper
 244 100
 212 10.5 7.6 11.4
 122 13.8 6.1 9.1#



#32
 Benzo(a)anthracene
 Concen: 1.669 ng
 RT: 21.035 min Scan# 2397
 Delta R.T. 0.000 min
 Lab File: BN035219.D
 Acq: 21 Nov 2024 13:22

Tgt Ion:228 Resp: 12666
 Ion Ratio Lower Upper
 228 100
 226 30.9 21.4 32.0
 229 19.9 15.7 23.5





#33

Chrysene

Concen: 1.685 ng

RT: 21.035 min Scan# 2411

Delta R.T. 0.000 min

Lab File: BN035219.D

Acq: 21 Nov 2024 13:22

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

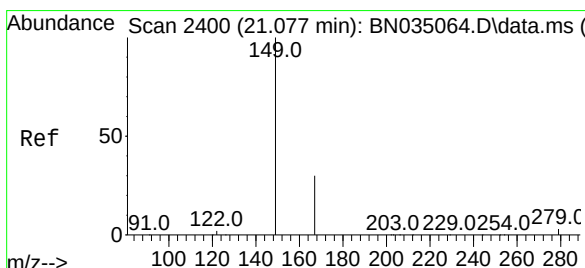
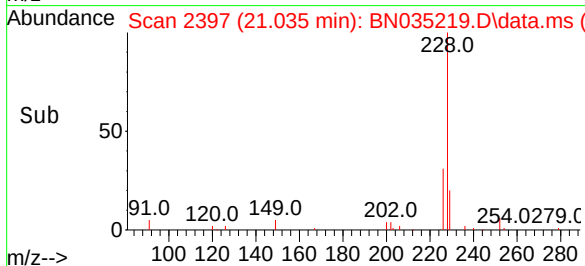
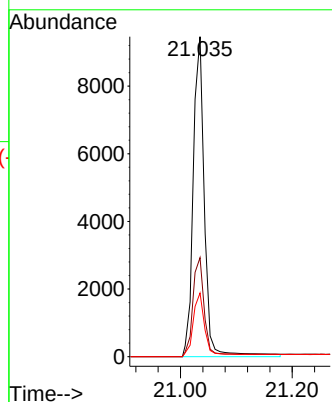
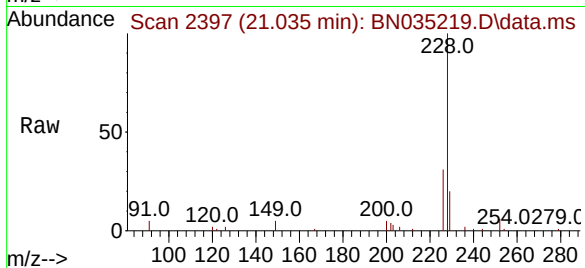
Tgt Ion:228 Resp: 12666

Ion Ratio Lower Upper

228 100

226 30.9 23.7 35.5

229 19.9 16.2 24.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.302 ng

RT: 21.026 min Scan# 2396

Delta R.T. 0.000 min

Lab File: BN035219.D

Acq: 21 Nov 2024 13:22

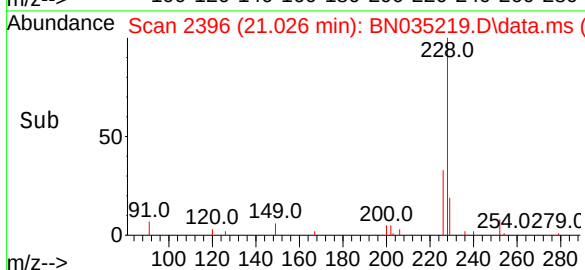
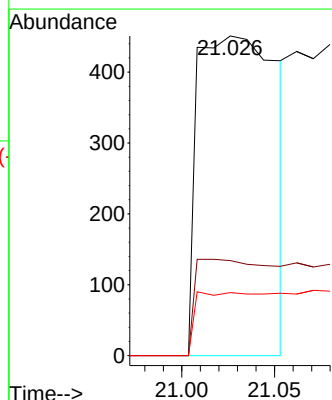
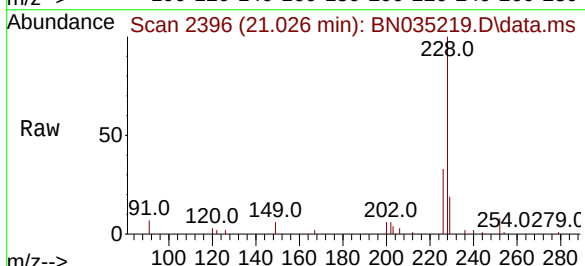
Tgt Ion:149 Resp: 1204

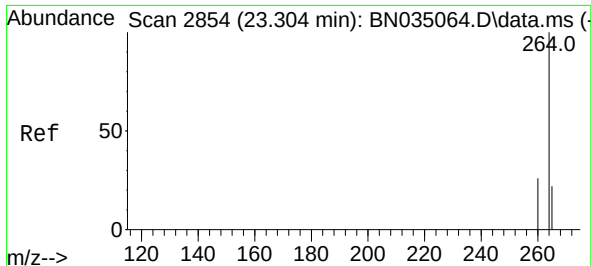
Ion Ratio Lower Upper

149 100

167 30.3 23.2 34.8

279 16.4 3.2 4.8#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.104 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN035219.D

Acq: 21 Nov 2024 13:22

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

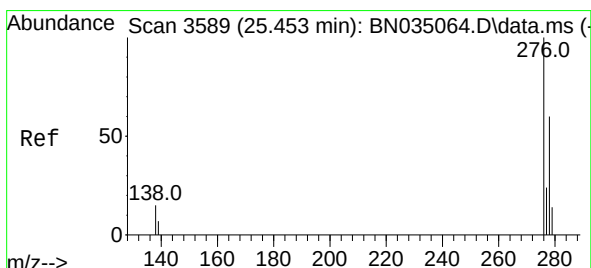
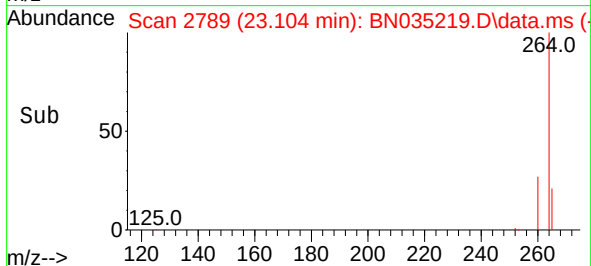
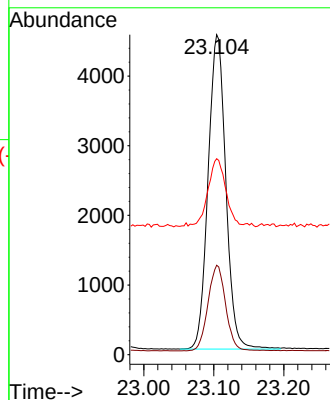
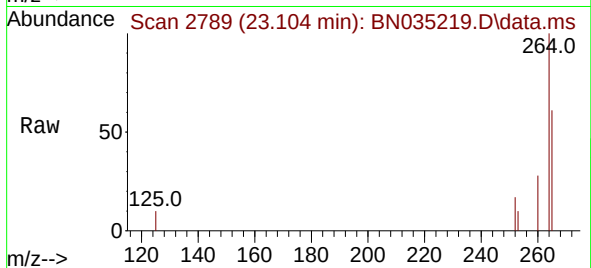
Tgt Ion:264 Resp: 7936

Ion Ratio Lower Upper

264 100

260 27.9 20.9 31.3

265 61.2 35.4 53.2#



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.384 ng

RT: 25.157 min Scan# 3491

Delta R.T. 0.000 min

Lab File: BN035219.D

Acq: 21 Nov 2024 13:22

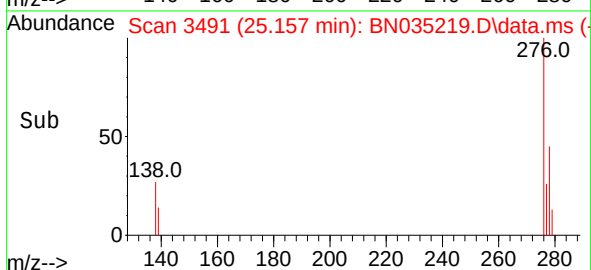
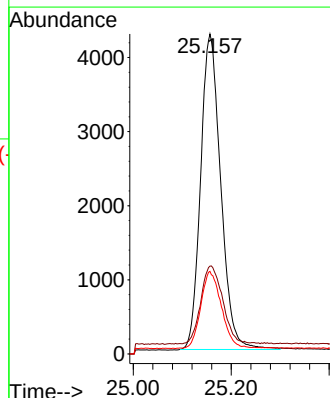
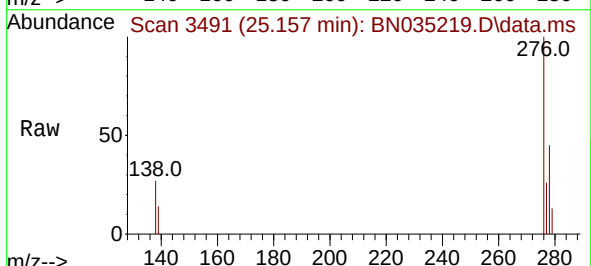
Tgt Ion:276 Resp: 12159

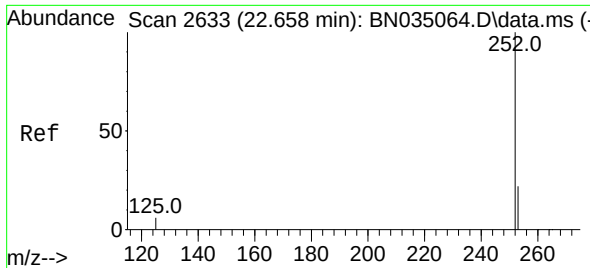
Ion Ratio Lower Upper

276 100

138 25.9 13.0 19.4#

277 24.1 19.8 29.6

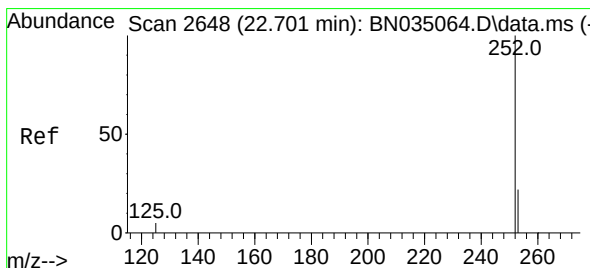
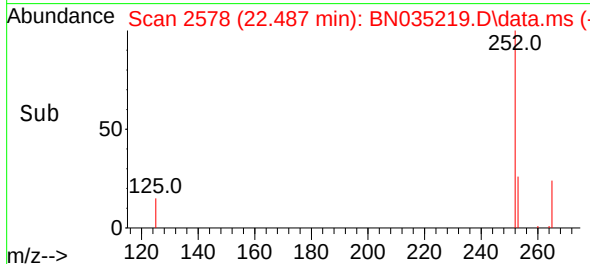
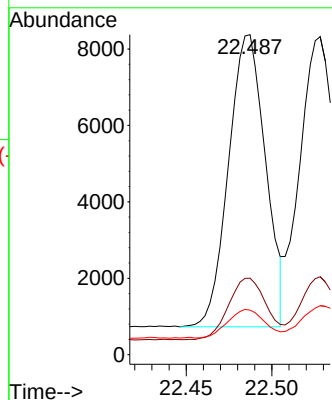
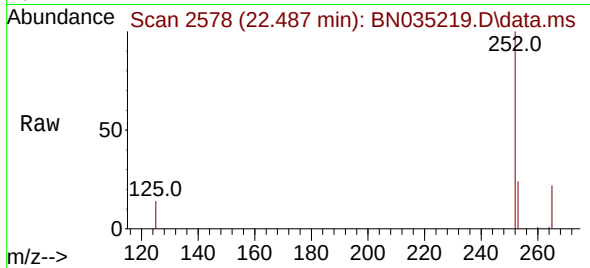




#37
Benzo(b)fluoranthene
Concen: 0.429 ng
RT: 22.487 min Scan# 2592
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

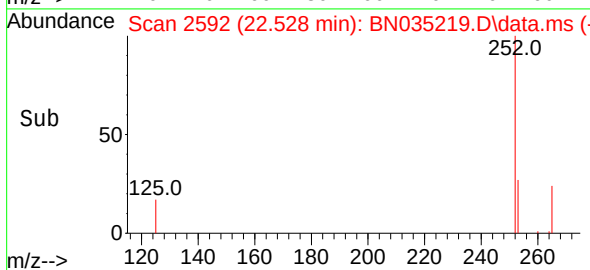
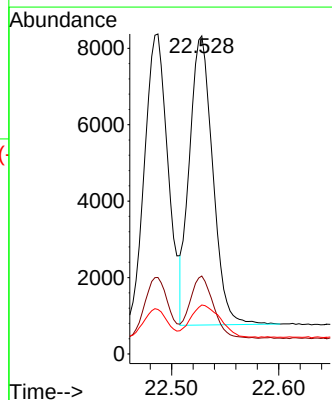
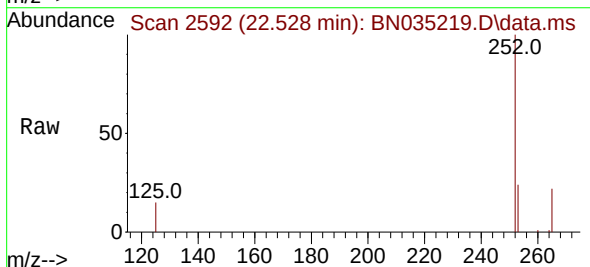
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

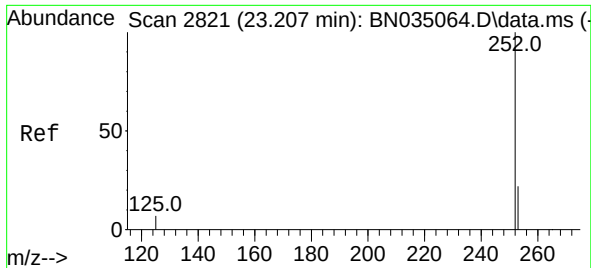
Tgt Ion:252 Resp: 11451
Ion Ratio Lower Upper
252 100
253 23.9 19.3 28.9
125 13.9 6.2 9.2#



#38
Benzo(k)fluoranthene
Concen: 0.428 ng
RT: 22.528 min Scan# 2592
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

Tgt Ion:252 Resp: 11422
Ion Ratio Lower Upper
252 100
253 24.5 19.5 29.3
125 15.4 6.5 9.7#





#39

Benzo(a)pyrene

Concen: 0.420 ng

RT: 23.014 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN035219.D

Acq: 21 Nov 2024 13:22

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

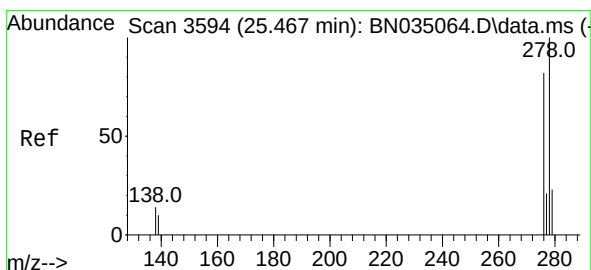
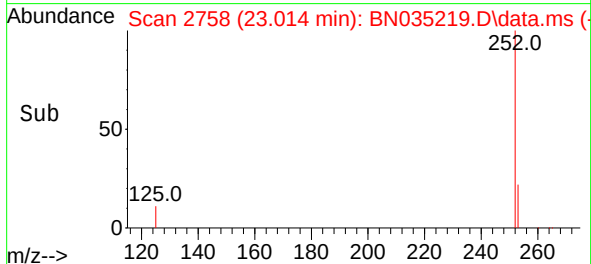
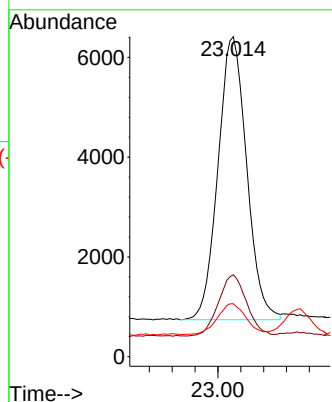
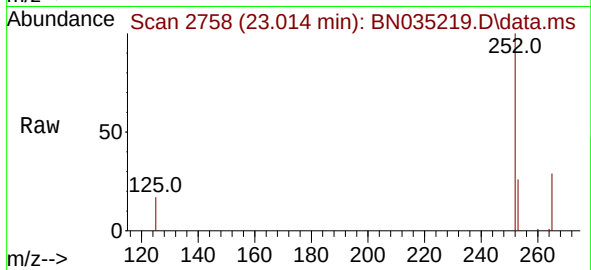
Tgt Ion:252 Resp: 9865

Ion Ratio Lower Upper

252 100

253 25.6 20.1 30.1

125 16.6 7.5 11.3#



#40

Dibenzo(a,h)anthracene

Concen: 0.372 ng

RT: 25.177 min Scan# 3498

Delta R.T. 0.000 min

Lab File: BN035219.D

Acq: 21 Nov 2024 13:22

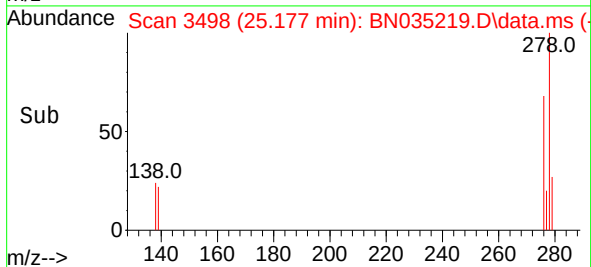
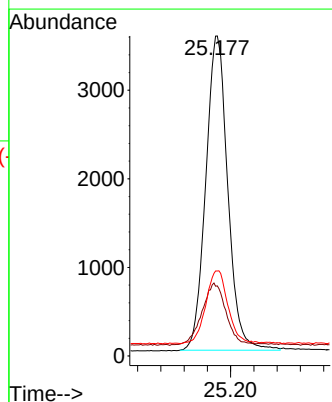
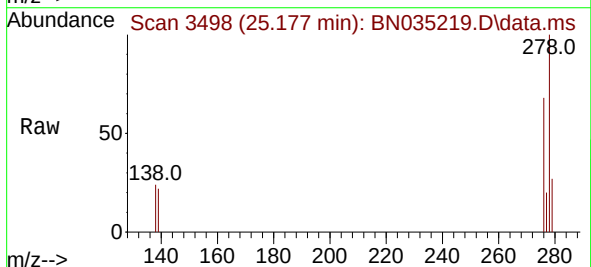
Tgt Ion:278 Resp: 9332

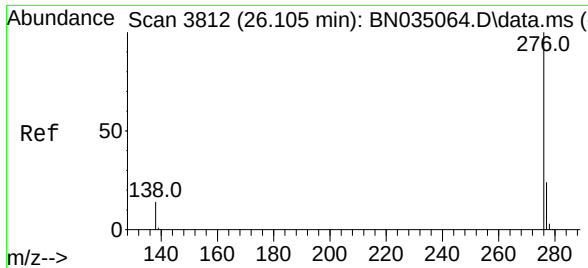
Ion Ratio Lower Upper

278 100

139 21.9 9.3 13.9#

279 26.5 19.7 29.5





#41

Benzo(g,h,i)perylene

Concen: 0.377 ng

RT: 25.776 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN035219.D

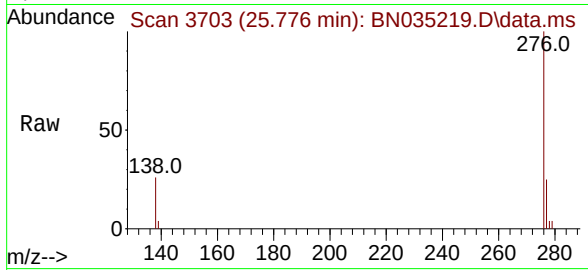
Acq: 21 Nov 2024 13:22

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



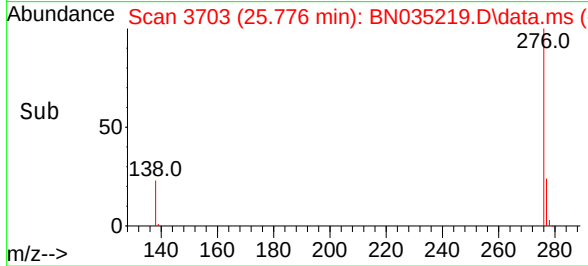
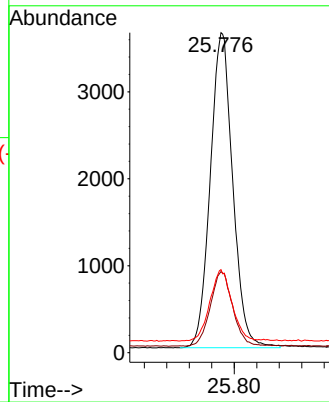
Tgt Ion:276 Resp: 10046

Ion Ratio Lower Upper

276 100

277 25.4 19.9 29.9

138 26.0 11.6 17.4#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112124\
 Data File : BN035228.D
 Acq On : 21 Nov 2024 18:48
 Operator : RC/JU
 Sample : P4934-03
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

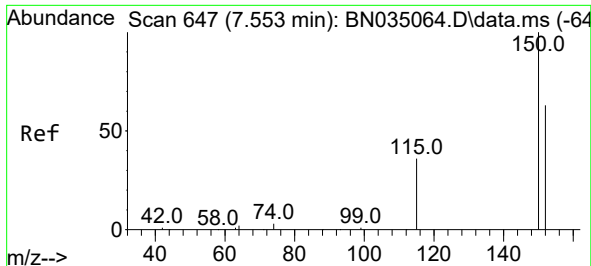
Instrument :
 BNA_N
 ClientSampleId :
 BPOW6-7-20241118

Quant Time: Nov 21 23:05:16 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 21 14:00:03 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.322	152	2646	0.400	ng	0.00
7) Naphthalene-d8	10.073	136	6014	0.400	ng	# 0.00
13) Acenaphthene-d10	13.987	164	3783	0.400	ng	0.00
19) Phenanthrene-d10	16.746	188	8215	0.400	ng	# 0.00
29) Chrysene-d12	21.008	240	1596	0.400	ng	# 0.00
35) Perylene-d12	23.098	264	7371	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.982	112	1293	0.192	ng	0.00
5) Phenol-d6	6.528	99	953	0.113	ng	0.00
8) Nitrobenzene-d5	8.461	82	1364	0.261	ng	0.00
11) 2-Methylnaphthalene-d10	11.678	152	3149	0.294	ng	0.00
14) 2,4,6-Tribromophenol	15.494	330	726	0.266	ng	0.00
15) 2-Fluorobiphenyl	12.608	172	1325	0.086	ng	0.00
27) Fluoranthene-d10	18.801	212	9699	0.385	ng	0.00
31) Terphenyl-d14	19.433	244	8802	2.628	ng	0.00
Target Compounds						
30) Pyrene	19.201	202	275	0.052	ng	Qvalue 97
32) Benzo(a)anthracene	21.026	228	526	0.095	ng	# 49
33) Chrysene	21.026	228	526	0.096	ng	# 55
34) Bis(2-ethylhexyl)phtha...	21.017	149	456	0.156	ng	# 84

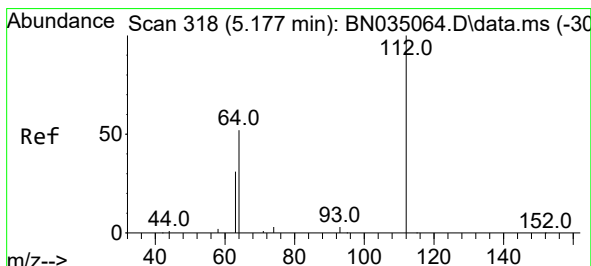
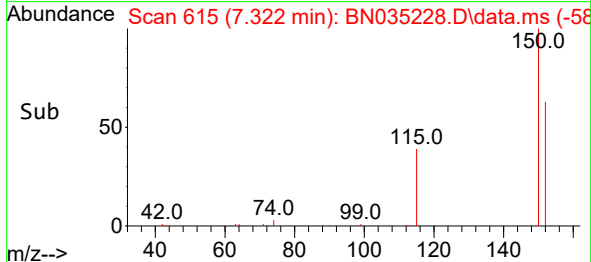
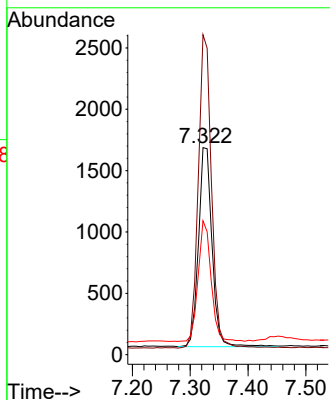
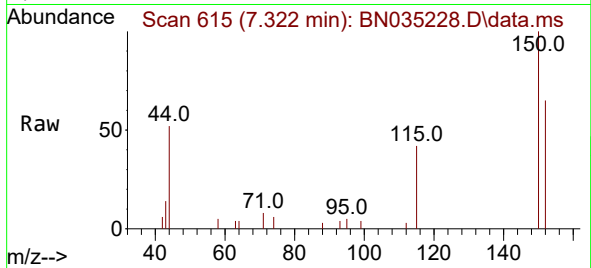
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.322 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN035228.D
Acq: 21 Nov 2024 18:48

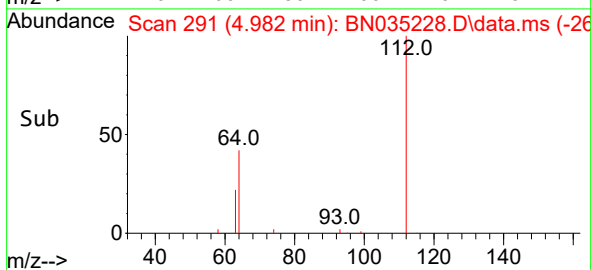
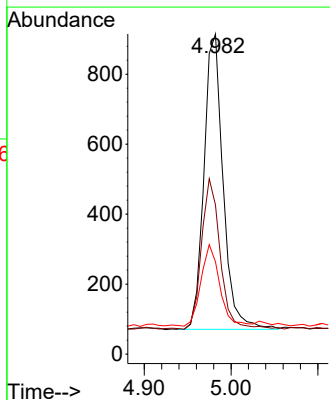
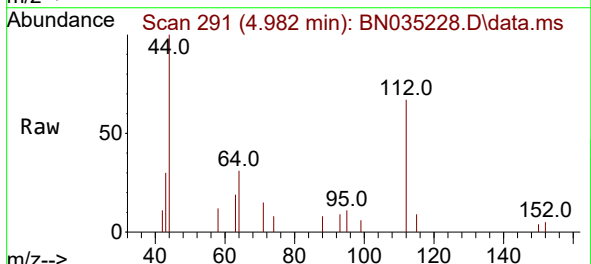
Instrument :
BNA_N
ClientSampleId :
BPOW6-7-20241118

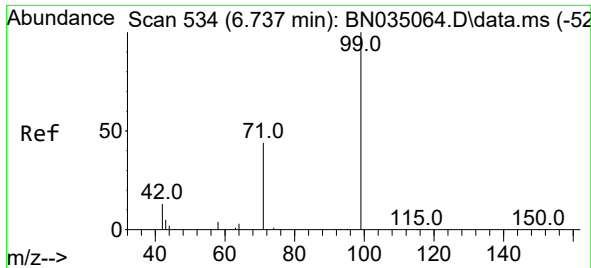
Tgt Ion:152 Resp: 2646
Ion Ratio Lower Upper
152 100
150 154.6 124.5 186.7
115 64.7 47.8 71.6



#4
2-Fluorophenol
Concen: 0.192 ng
RT: 4.982 min Scan# 291
Delta R.T. -0.000 min
Lab File: BN035228.D
Acq: 21 Nov 2024 18:48

Tgt Ion:112 Resp: 1293
Ion Ratio Lower Upper
112 100
64 49.4 39.7 59.5
63 27.3 23.0 34.4

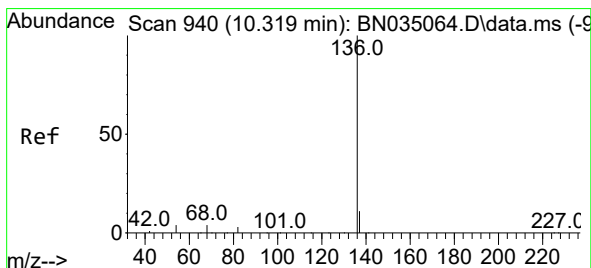
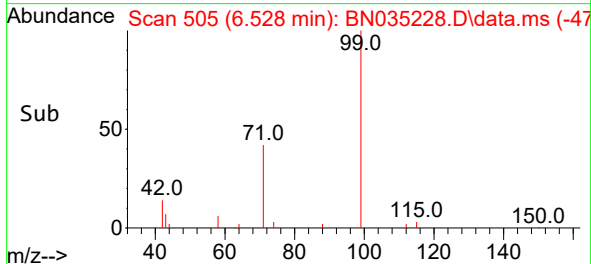
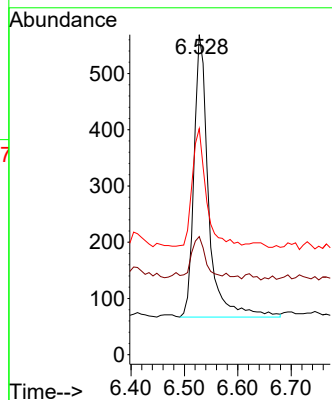
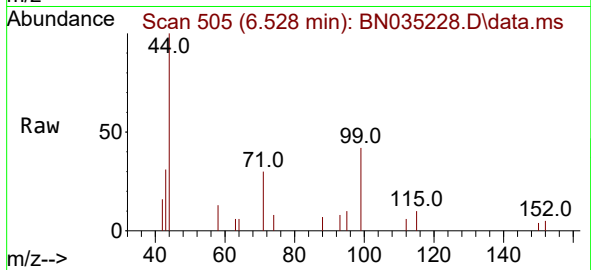




#5
Phenol-d6
Concen: 0.113 ng
RT: 6.528 min Scan# 505
Delta R.T. -0.000 min
Lab File: BN035228.D
Acq: 21 Nov 2024 18:48

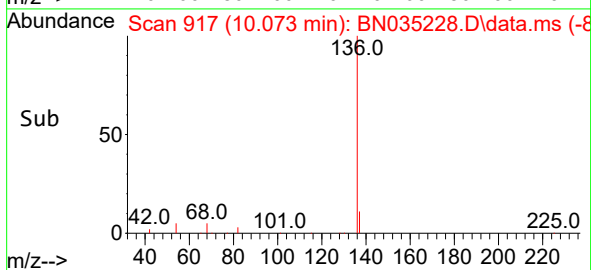
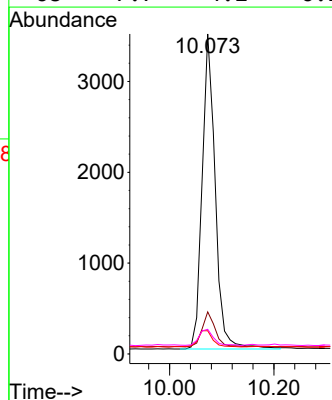
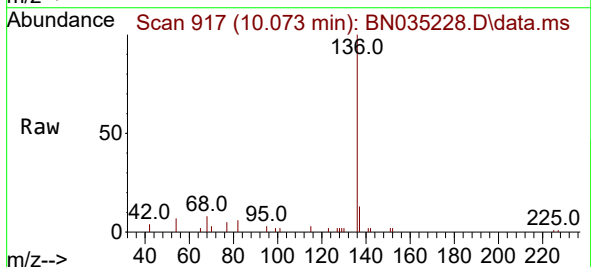
Instrument :
BNA_N
ClientSampleId :
BPOW6-7-20241118

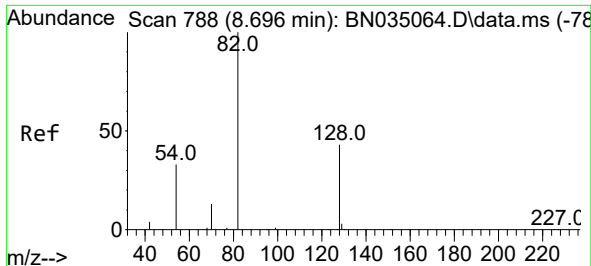
Tgt Ion: 99 Resp: 953
Ion Ratio Lower Upper
99 100
42 12.1 11.4 17.0
71 40.7 34.6 51.8



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.073 min Scan# 917
Delta R.T. -0.000 min
Lab File: BN035228.D
Acq: 21 Nov 2024 18:48

Tgt Ion: 136 Resp: 6014
Ion Ratio Lower Upper
136 100
137 13.1 9.8 14.8
54 7.3 4.0 6.0#
68 7.7 4.2 6.2#

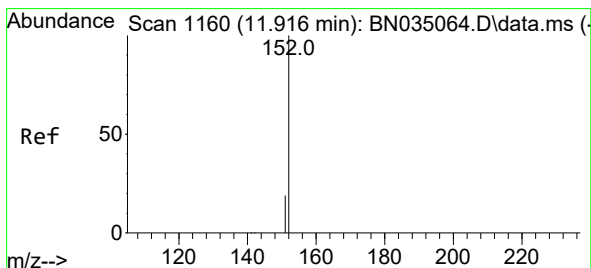
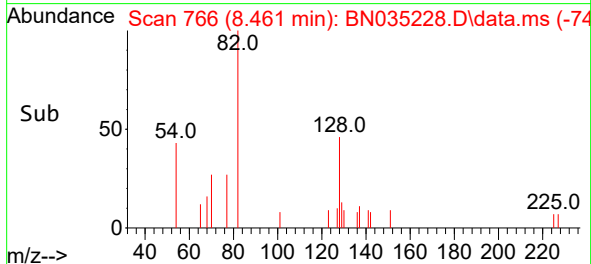
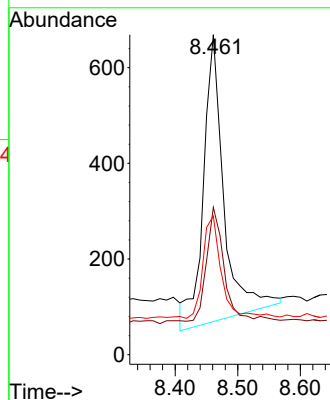
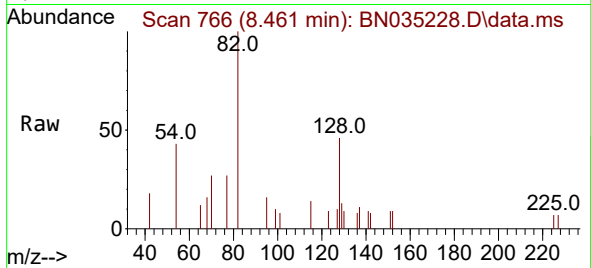




#8
Nitrobenzene-d5
Concen: 0.261 ng
RT: 8.461 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN035228.D
Acq: 21 Nov 2024 18:48

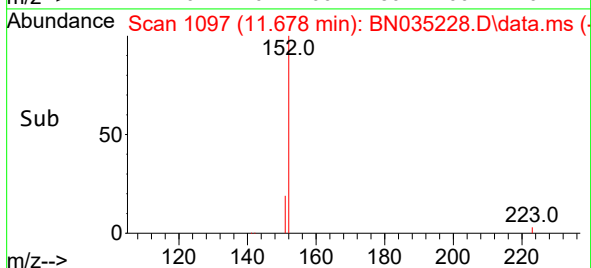
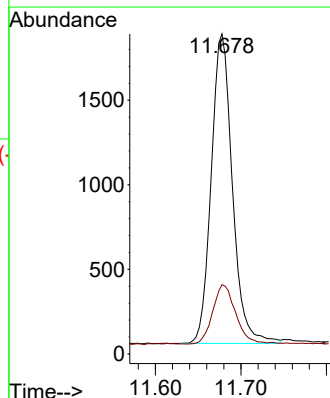
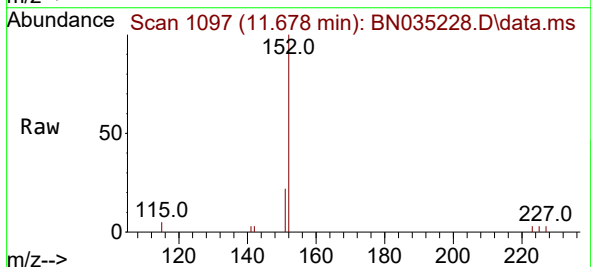
Instrument :
BNA_N
ClientSampleId :
BPOW6-7-20241118

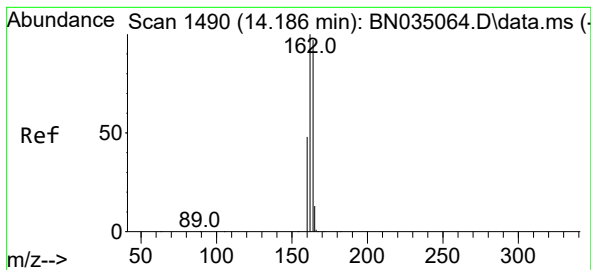
Tgt Ion: 82 Resp: 1364
Ion Ratio Lower Upper
82 100
128 46.0 36.5 54.7
54 43.3 28.7 43.1#



#11
2-Methylnaphthalene-d10
Concen: 0.294 ng
RT: 11.678 min Scan# 1097
Delta R.T. -0.000 min
Lab File: BN035228.D
Acq: 21 Nov 2024 18:48

Tgt Ion:152 Resp: 3149
Ion Ratio Lower Upper
152 100
151 21.0 16.2 24.4





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 13.987 min Scan# 14

Delta R.T. -0.000 min

Lab File: BN035228.D

Acq: 21 Nov 2024 18:48

Instrument :

BNA_N

ClientSampleId :

BPOW6-7-20241118

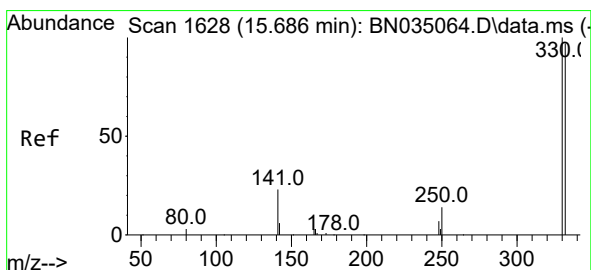
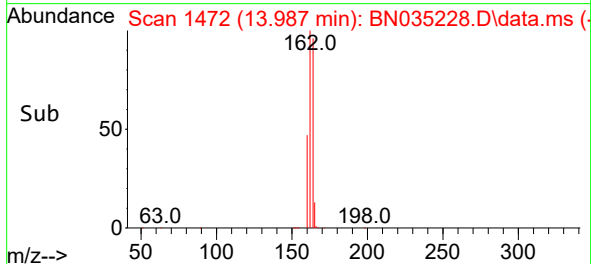
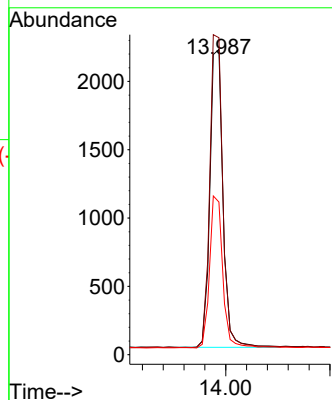
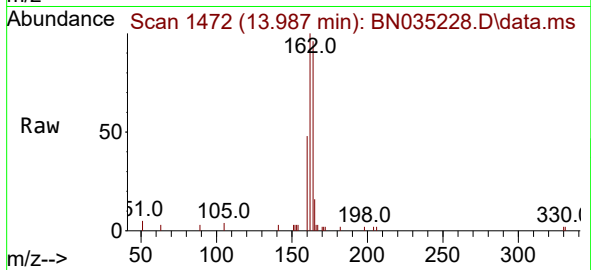
Tgt Ion:164 Resp: 3783

Ion Ratio Lower Upper

164 100

162 103.8 82.2 123.2

160 50.0 40.2 60.4



#14

2,4,6-Tribromophenol

Concen: 0.266 ng

RT: 15.494 min Scan# 1613

Delta R.T. -0.000 min

Lab File: BN035228.D

Acq: 21 Nov 2024 18:48

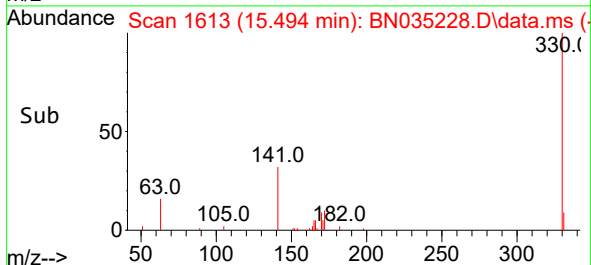
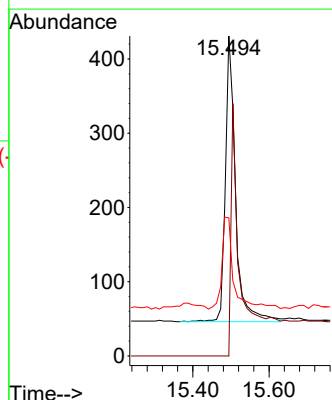
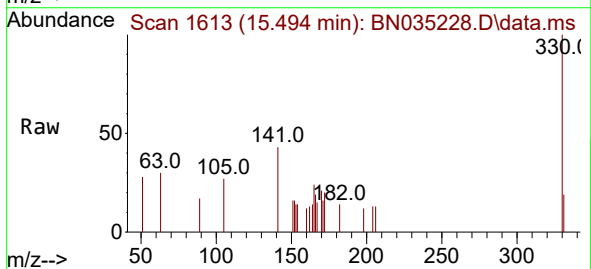
Tgt Ion:330 Resp: 726

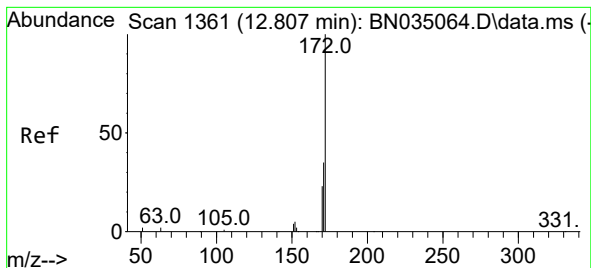
Ion Ratio Lower Upper

330 100

332 0.0 76.9 115.3#

141 39.0 29.6 44.4





#15

2-Fluorobiphenyl

Concen: 0.086 ng

RT: 12.608 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN035228.D

Acq: 21 Nov 2024 18:48

Instrument :

BNA_N

ClientSampleId :

BPOW6-7-20241118

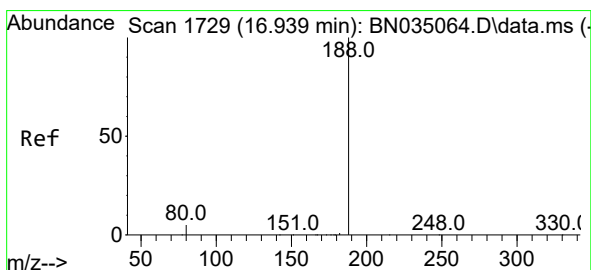
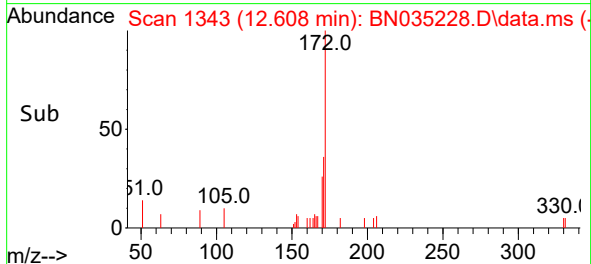
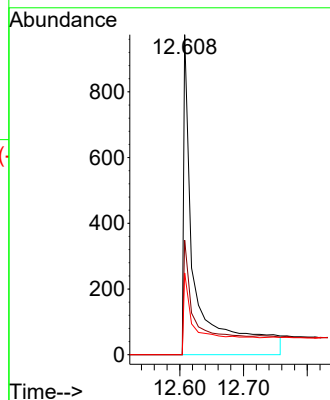
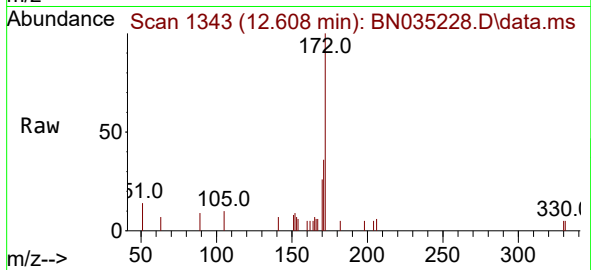
Tgt Ion:172 Resp: 1325

Ion Ratio Lower Upper

172 100

171 35.8 28.2 42.4

170 25.6 19.0 28.6



#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.746 min Scan# 1714

Delta R.T. -0.000 min

Lab File: BN035228.D

Acq: 21 Nov 2024 18:48

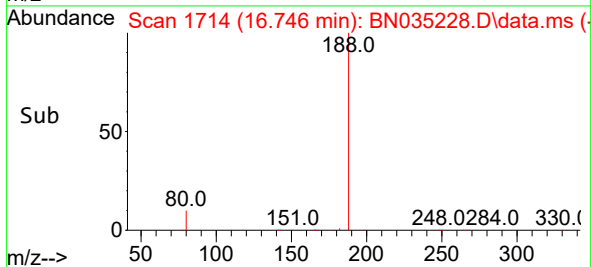
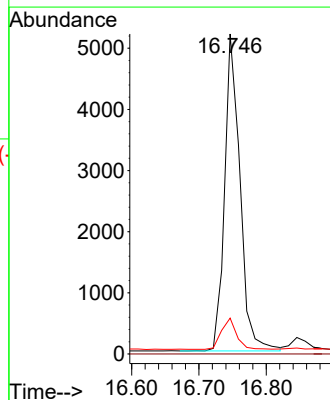
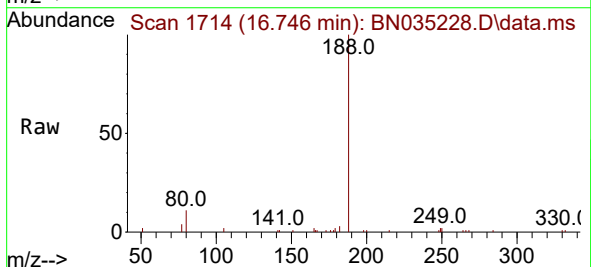
Tgt Ion:188 Resp: 8215

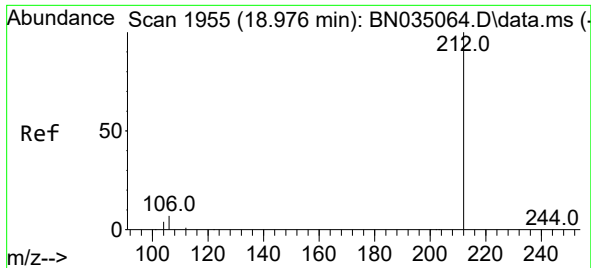
Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.2 4.3 6.5#

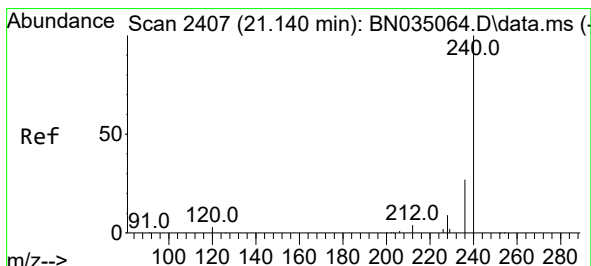
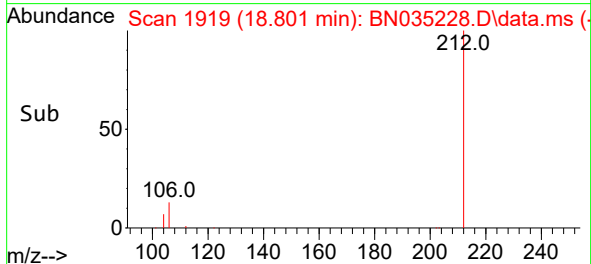
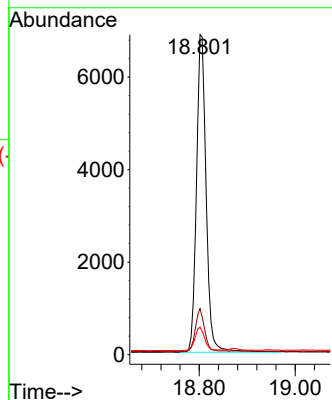
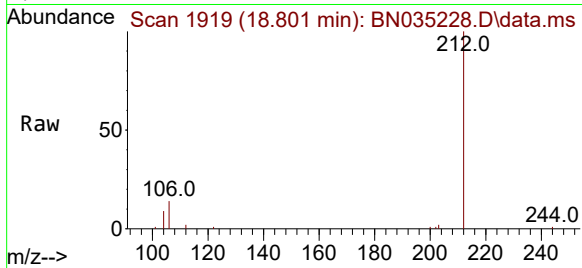




#27
Fluoranthene-d10
Concen: 0.385 ng
RT: 18.801 min Scan# 1955
Delta R.T. -0.005 min
Lab File: BN035228.D
Acq: 21 Nov 2024 18:48

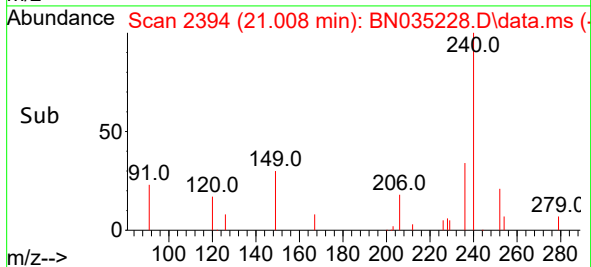
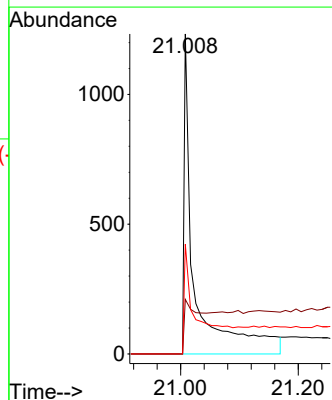
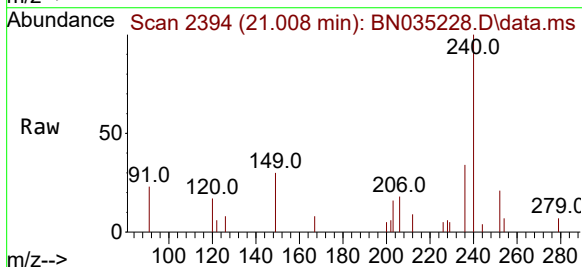
Instrument :
BNA_N
ClientSampleId :
BPOW6-7-20241118

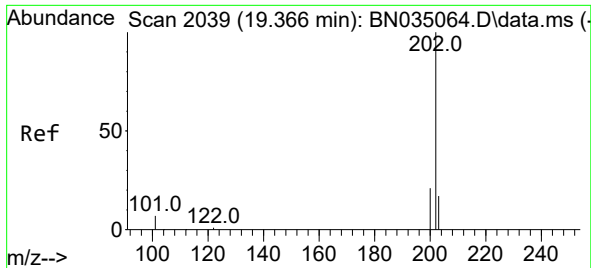
Tgt Ion:212 Resp: 9699
Ion Ratio Lower Upper
212 100
106 12.7 6.0 9.0#
104 7.2 3.5 5.3#



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.008 min Scan# 2394
Delta R.T. -0.000 min
Lab File: BN035228.D
Acq: 21 Nov 2024 18:48

Tgt Ion:240 Resp: 1596
Ion Ratio Lower Upper
240 100
120 17.0 3.8 5.6#
236 34.3 22.2 33.2#

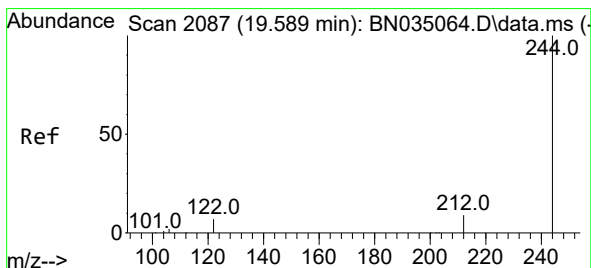
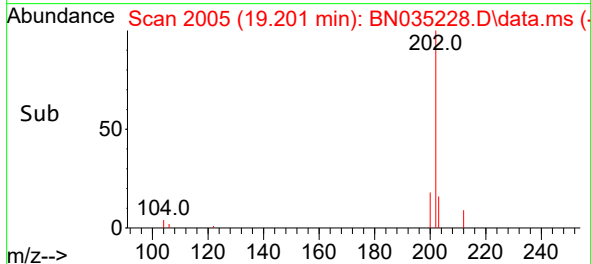
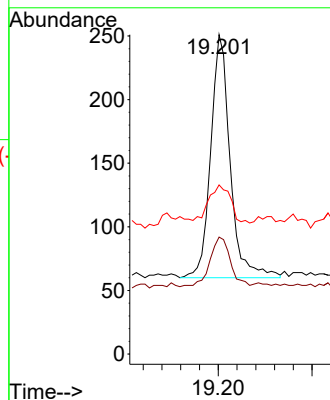
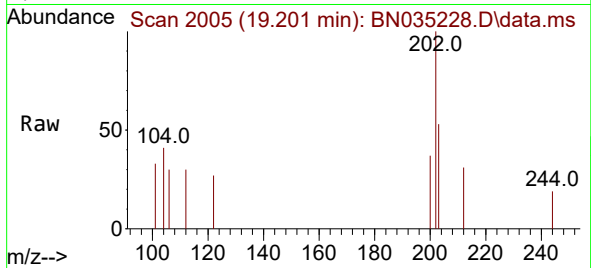




#30
Pyrene
Concen: 0.052 ng
RT: 19.201 min Scan# 2005
Delta R.T. -0.005 min
Lab File: BN035228.D
Acq: 21 Nov 2024 18:48

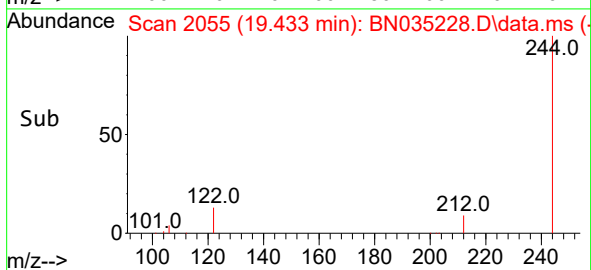
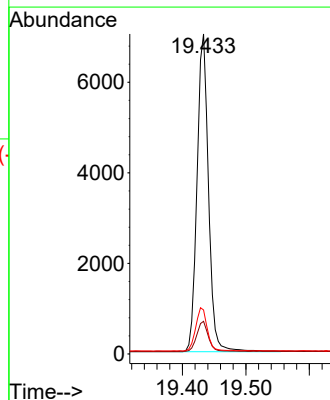
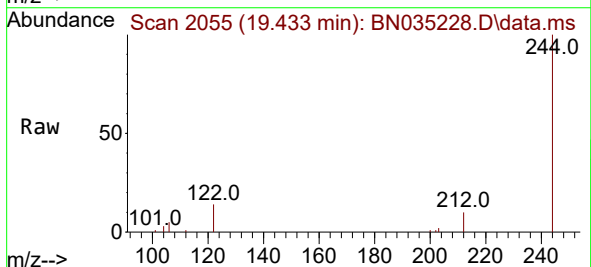
Instrument :
BNA_N
ClientSampleId :
BPOW6-7-20241118

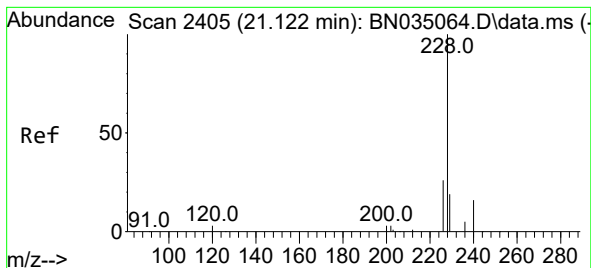
Tgt Ion:202 Resp: 275
Ion Ratio Lower Upper
202 100
200 21.5 16.7 25.1
203 19.6 14.2 21.4



#31
Terphenyl-d14
Concen: 2.628 ng
RT: 19.433 min Scan# 2055
Delta R.T. -0.005 min
Lab File: BN035228.D
Acq: 21 Nov 2024 18:48

Tgt Ion:244 Resp: 8802
Ion Ratio Lower Upper
244 100
212 10.2 7.6 11.4
122 13.7 6.1 9.1#





#32

Benzo(a)anthracene

Concen: 0.095 ng

RT: 21.026 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035228.D

Acq: 21 Nov 2024 18:48

Instrument :

BNA_N

ClientSampleId :

BPOW6-7-20241118

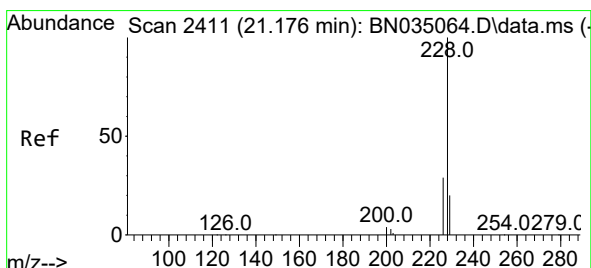
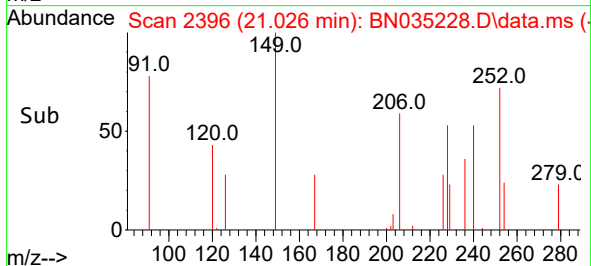
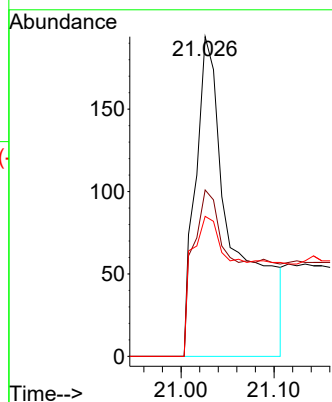
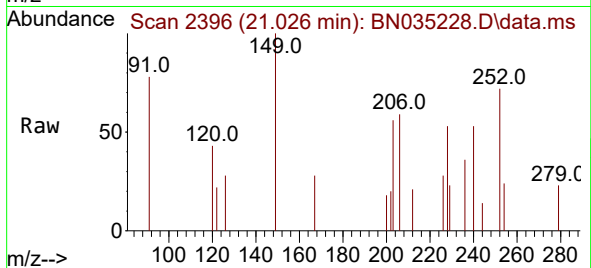
Tgt Ion:228 Resp: 526

Ion Ratio Lower Upper

228 100

226 52.1 21.4 32.0#

229 43.8 15.7 23.5#



#33

Chrysene

Concen: 0.096 ng

RT: 21.026 min Scan# 2396

Delta R.T. -0.009 min

Lab File: BN035228.D

Acq: 21 Nov 2024 18:48

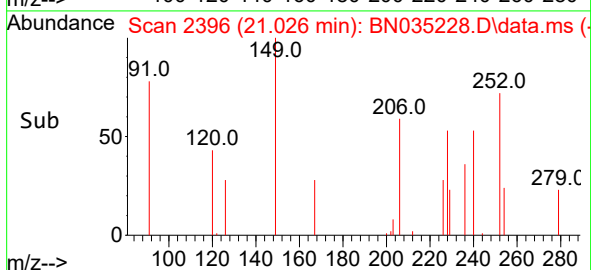
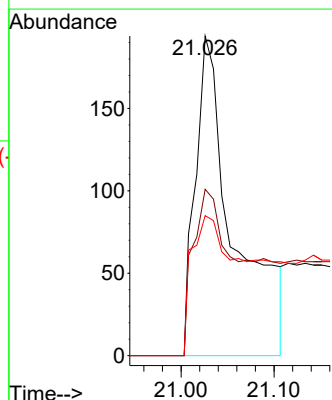
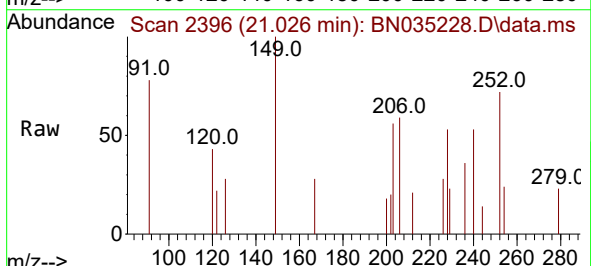
Tgt Ion:228 Resp: 526

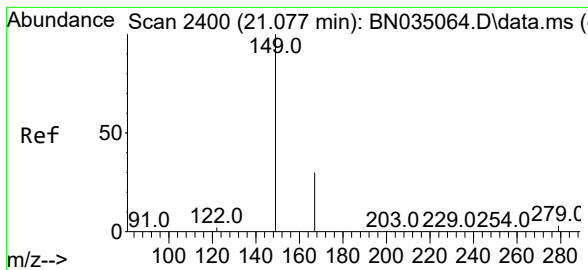
Ion Ratio Lower Upper

228 100

226 52.1 23.7 35.5#

229 43.8 16.2 24.4#

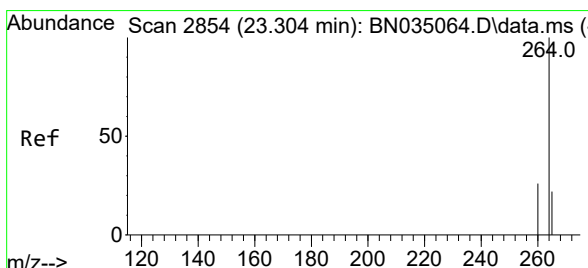
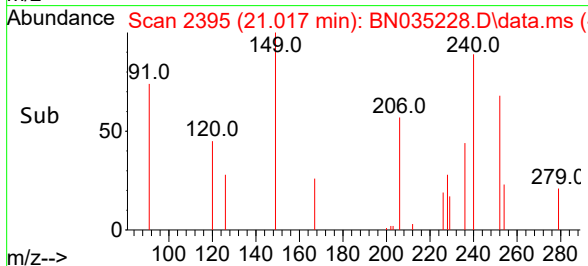
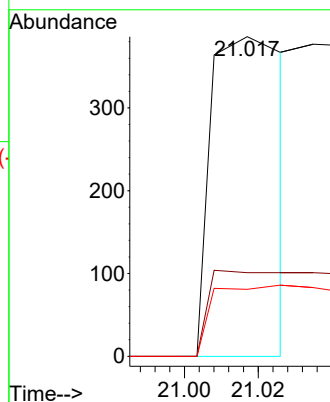
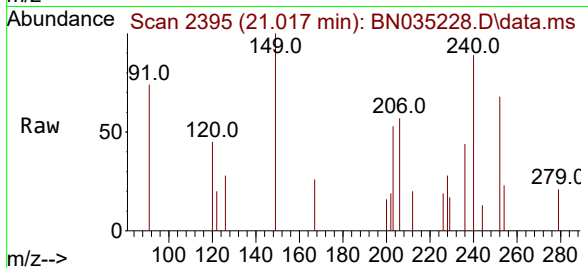




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.156 ng
RT: 21.017 min Scan# 2101
Delta R.T. -0.009 min
Lab File: BN035228.D
Acq: 21 Nov 2024 18:48

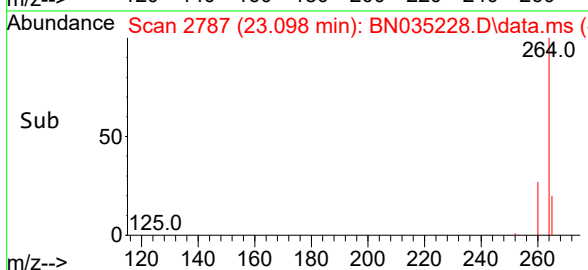
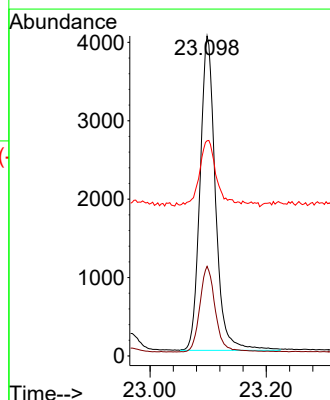
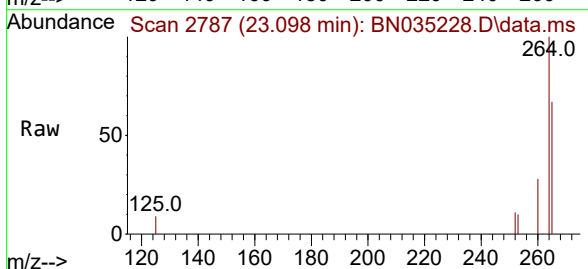
Instrument :
BNA_N
ClientSampleId :
BPOW6-7-20241118

Tgt Ion:149 Resp: 456
Ion Ratio Lower Upper
149 100
167 27.4 23.2 34.8
279 40.8 3.2 4.8#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.098 min Scan# 2787
Delta R.T. -0.006 min
Lab File: BN035228.D
Acq: 21 Nov 2024 18:48

Tgt Ion:264 Resp: 7371
Ion Ratio Lower Upper
264 100
260 28.0 20.9 31.3
265 67.3 35.4 53.2#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112124\
 Data File : BN035229.D
 Acq On : 21 Nov 2024 19:24
 Operator : RC/JU
 Sample : P4934-04
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 DUP01-20241118

Quant Time: Nov 21 23:05:29 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 21 14:00:03 2024
 Response via : Initial Calibration

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

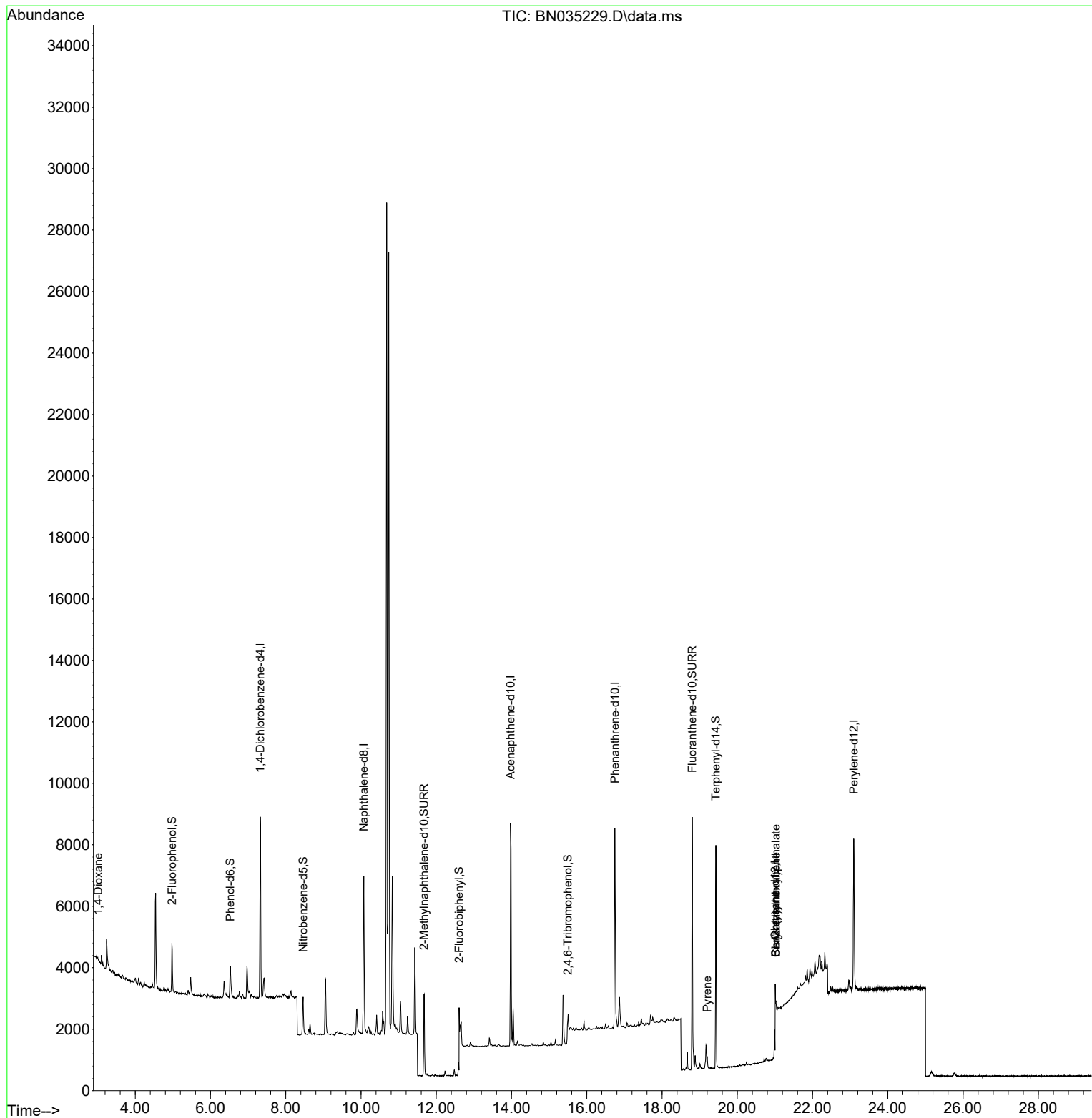
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.322	152	2749	0.400	ng	0.00
7) Naphthalene-d8	10.073	136	6688	0.400	ng	# 0.00
13) Acenaphthene-d10	13.976	164	4330	0.400	ng	-0.01
19) Phenanthrene-d10	16.746	188	8619	0.400	ng	# 0.00
29) Chrysene-d12	21.008	240	1170	0.400	ng	# 0.00
35) Perylene-d12	23.095	264	5974	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.982	112	1267	0.182	ng	0.00
5) Phenol-d6	6.528	99	948	0.108	ng	0.00
8) Nitrobenzene-d5	8.461	82	1311	0.225	ng	0.00
11) 2-Methylnaphthalene-d10	11.674	152	3299	0.277	ng	0.00
14) 2,4,6-Tribromophenol	15.494	330	730	0.234	ng	0.00
15) 2-Fluorobiphenyl	12.608	172	1072	0.061	ng	0.00
27) Fluoranthene-d10	18.802	212	8814	0.334	ng	0.00
31) Terphenyl-d14	19.429	244	6893	2.808	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.018	88	52	0.021	ng	# 1
30) Pyrene	19.201	202	326	0.084	ng	# 95
32) Benzo(a)anthracene	21.026	228	520	0.128	ng	# 52
33) Chrysene	21.026	228	520	0.129	ng	# 57
34) Bis(2-ethylhexyl)phtha...	21.026	149	663	0.310	ng	# 93

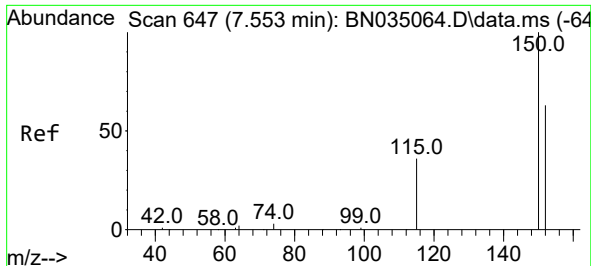
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112124\
Data File : BN035229.D
Acq On : 21 Nov 2024 19:24
Operator : RC/JU
Sample : P4934-04
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DUP01-20241118

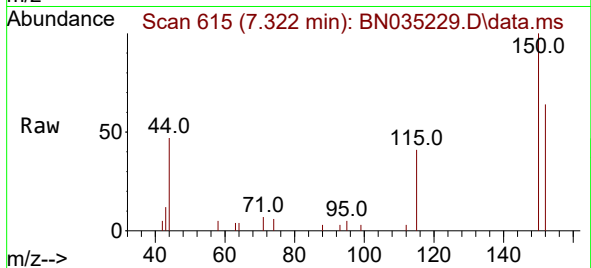
Quant Time: Nov 21 23:05:29 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 14:00:03 2024
Response via : Initial Calibration



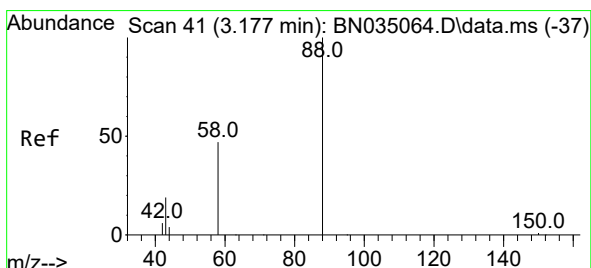
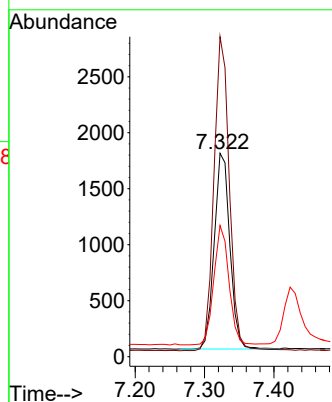
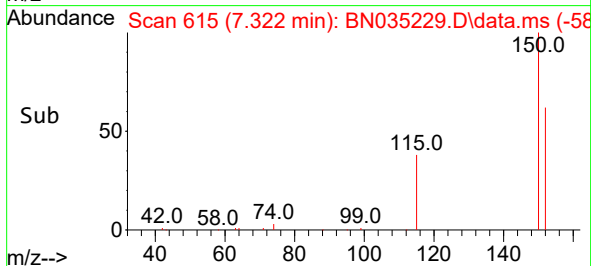


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.322 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN035229.D
Acq: 21 Nov 2024 19:24

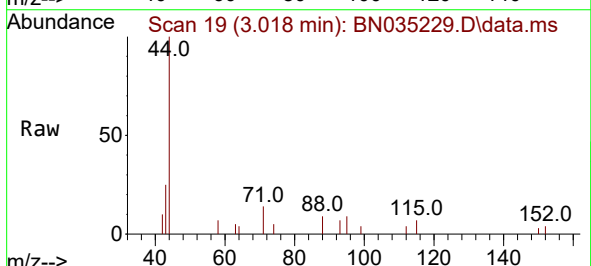
Instrument :
BNA_N
ClientSampleId :
DUP01-20241118



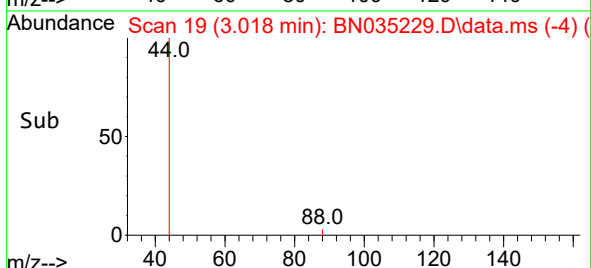
Tgt Ion:152 Resp: 2749
Ion Ratio Lower Upper
152 100
150 157.4 124.5 186.7
115 64.5 47.8 71.6

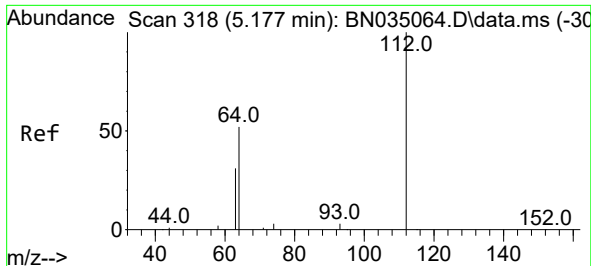


#2
1,4-Dioxane
Concen: 0.021 ng
RT: 3.018 min Scan# 19
Delta R.T. 0.007 min
Lab File: BN035229.D
Acq: 21 Nov 2024 19:24



Tgt Ion: 88 Resp: 52
Ion Ratio Lower Upper
88 100
43 203.8 16.9 25.3#
58 32.7 39.0 58.4#

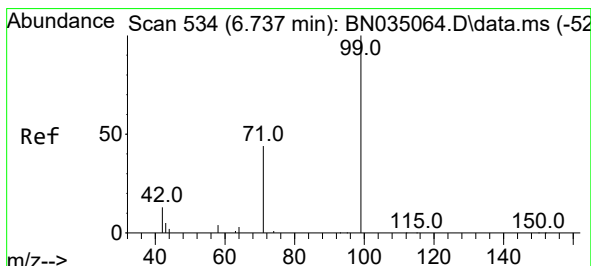
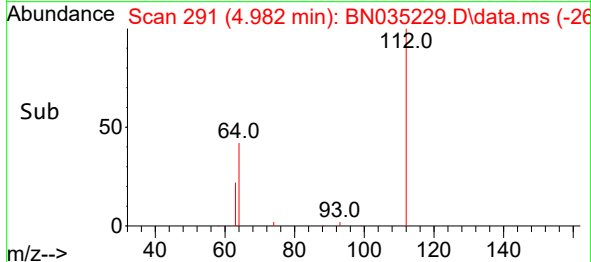
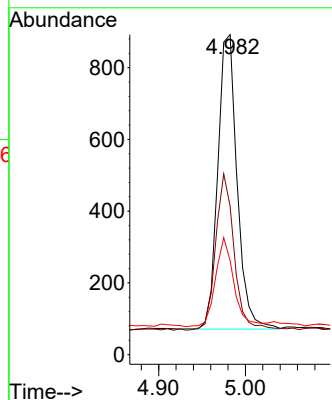
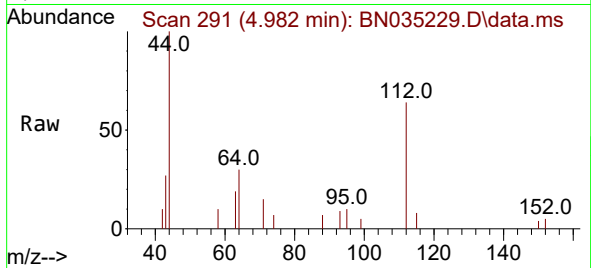




#4
2-Fluorophenol
Concen: 0.182 ng
RT: 4.982 min Scan# 24
Delta R.T. 0.000 min
Lab File: BN035229.D
Acq: 21 Nov 2024 19:24

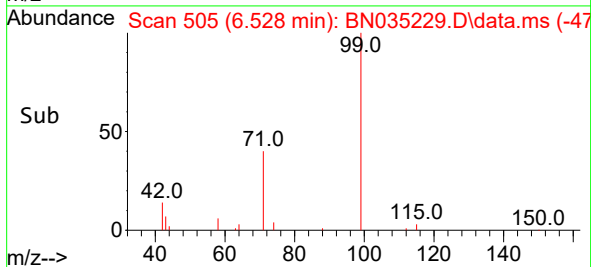
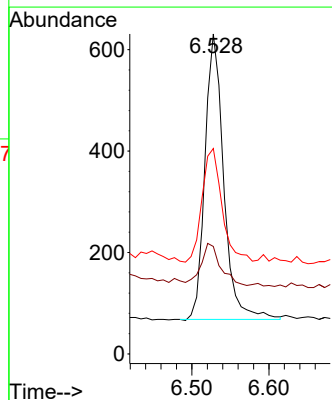
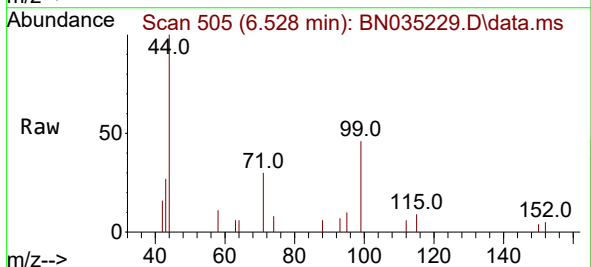
Instrument :
BNA_N
ClientSampleId :
DUP01-20241118

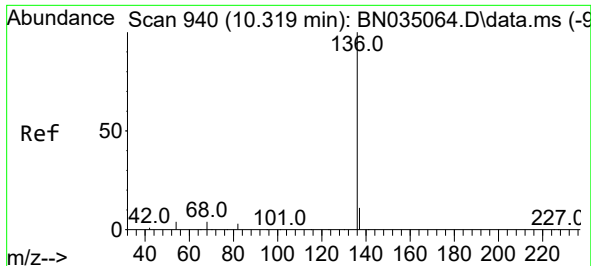
Tgt Ion:112 Resp: 1267
Ion Ratio Lower Upper
112 100
64 51.4 39.7 59.5
63 28.6 23.0 34.4



#5
Phenol-d6
Concen: 0.108 ng
RT: 6.528 min Scan# 505
Delta R.T. 0.000 min
Lab File: BN035229.D
Acq: 21 Nov 2024 19:24

Tgt Ion: 99 Resp: 948
Ion Ratio Lower Upper
99 100
42 15.2 11.4 17.0
71 42.5 34.6 51.8

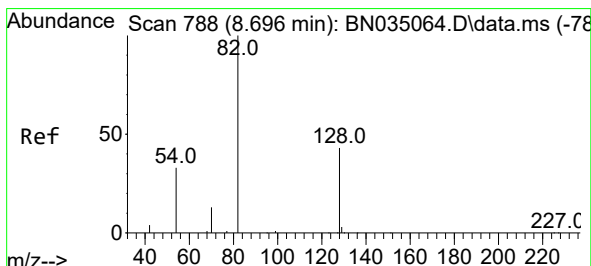
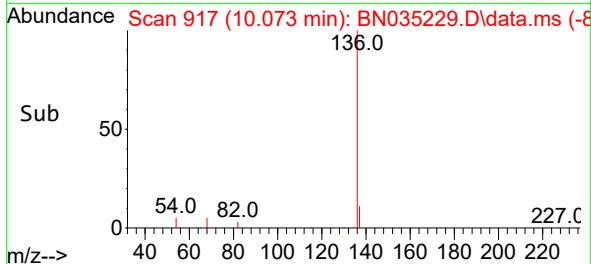
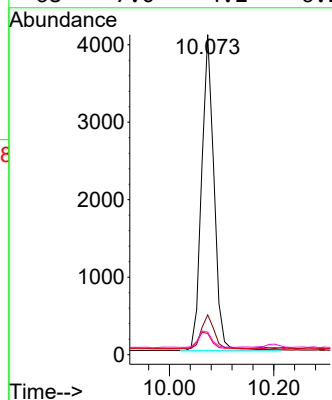
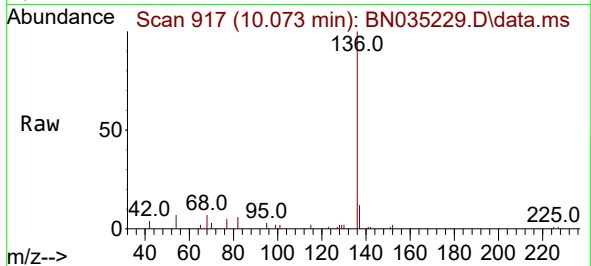




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.073 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN035229.D
Acq: 21 Nov 2024 19:24

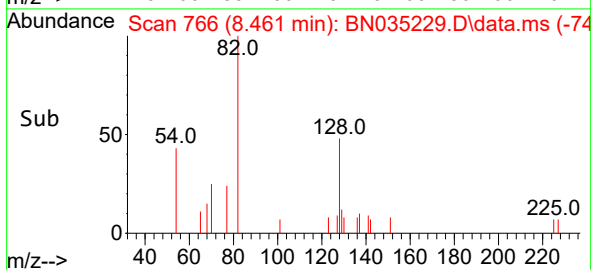
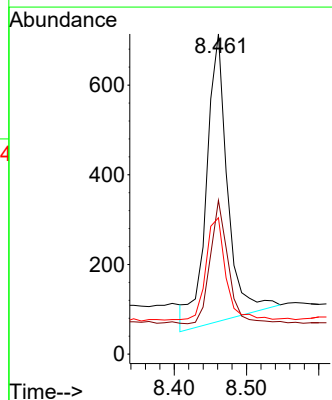
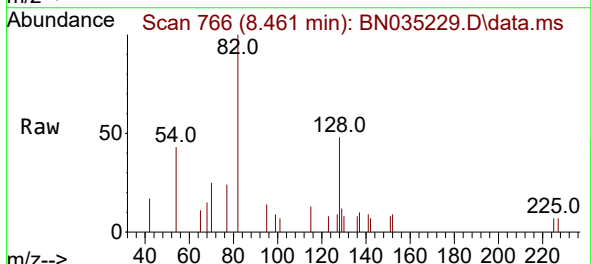
Instrument :
BNA_N
ClientSampleId :
DUP01-20241118

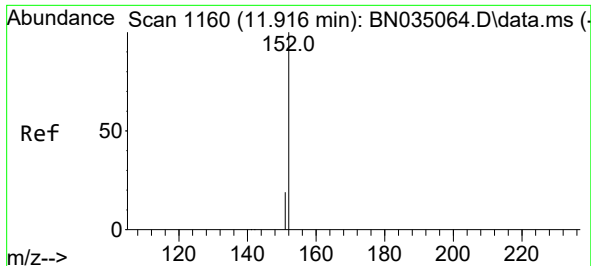
Tgt Ion:	136	Resp:	6688
Ion	Ratio	Lower	Upper
136	100		
137	12.5	9.8	14.8
54	6.6	4.0	6.0#
68	7.0	4.2	6.2#



#8
Nitrobenzene-d5
Concen: 0.225 ng
RT: 8.461 min Scan# 766
Delta R.T. 0.000 min
Lab File: BN035229.D
Acq: 21 Nov 2024 19:24

Tgt Ion:	82	Resp:	1311
Ion	Ratio	Lower	Upper
82	100		
128	48.0	36.5	54.7
54	42.6	28.7	43.1

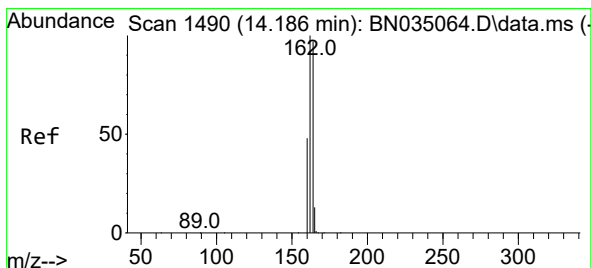
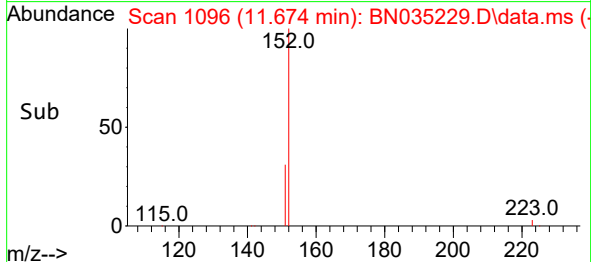
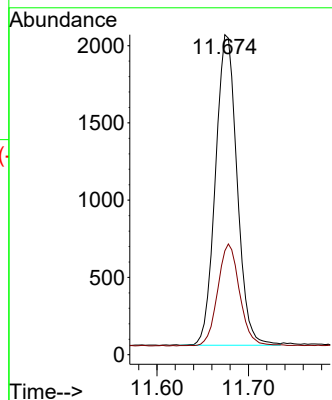
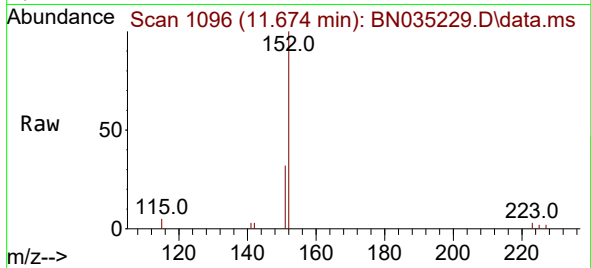




#11
2-Methylnaphthalene-d10
Concen: 0.277 ng
RT: 11.674 min Scan# 1096
Delta R.T. -0.004 min
Lab File: BN035229.D
Acq: 21 Nov 2024 19:24

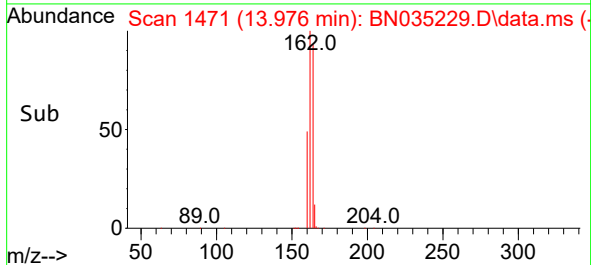
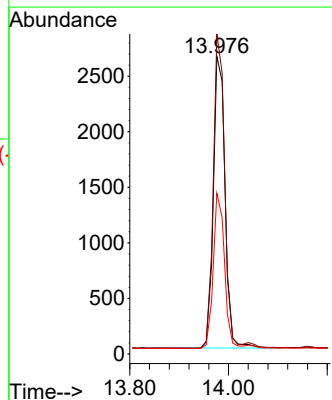
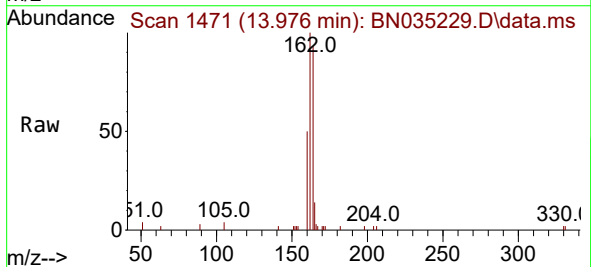
Instrument :
BNA_N
ClientSampleId :
DUP01-20241118

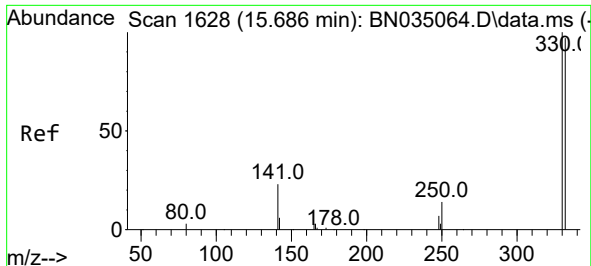
Tgt Ion:152 Resp: 3299
Ion Ratio Lower Upper
152 100
151 33.4 16.2 24.4#



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.976 min Scan# 1471
Delta R.T. -0.011 min
Lab File: BN035229.D
Acq: 21 Nov 2024 19:24

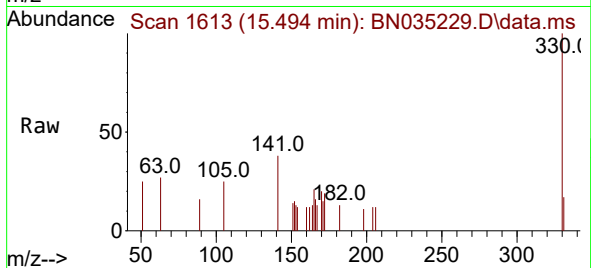
Tgt Ion:164 Resp: 4330
Ion Ratio Lower Upper
164 100
162 107.6 82.2 123.2
160 54.1 40.2 60.4



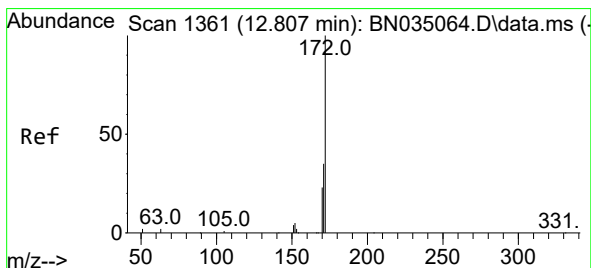
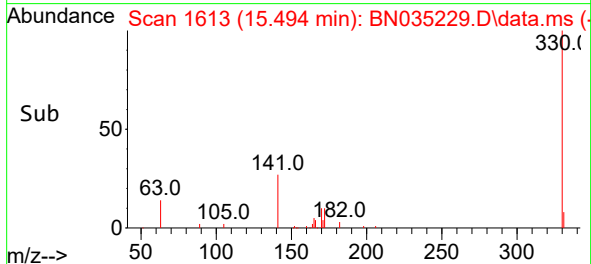
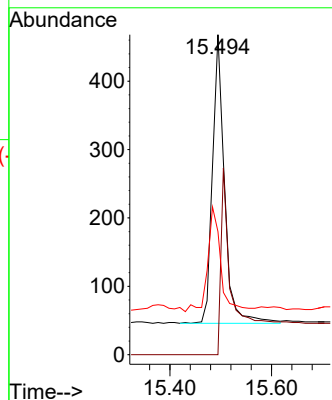


#14
2,4,6-Tribromophenol
Concen: 0.234 ng
RT: 15.494 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035229.D
Acq: 21 Nov 2024 19:24

Instrument :
BNA_N
ClientSampleId :
DUP01-20241118

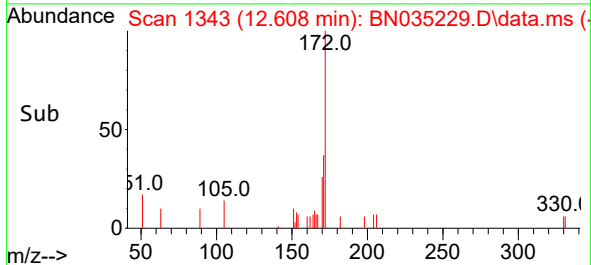
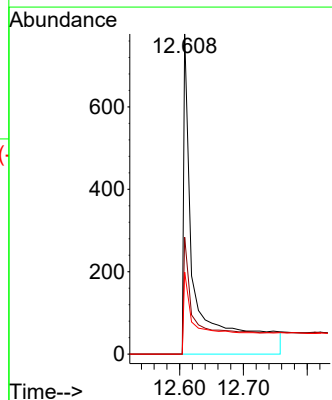
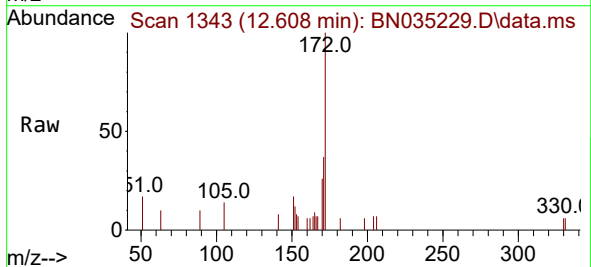


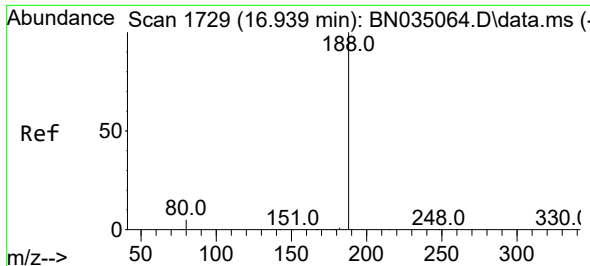
Tgt Ion:330 Resp: 730
Ion Ratio Lower Upper
330 100
332 0.0 76.9 115.3#
141 38.4 29.6 44.4



#15
2-Fluorobiphenyl
Concen: 0.061 ng
RT: 12.608 min Scan# 1343
Delta R.T. 0.000 min
Lab File: BN035229.D
Acq: 21 Nov 2024 19:24

Tgt Ion:172 Resp: 1072
Ion Ratio Lower Upper
172 100
171 36.6 28.2 42.4
170 25.6 19.0 28.6





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.746 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN035229.D

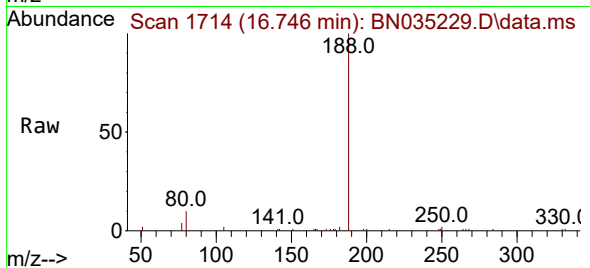
Acq: 21 Nov 2024 19:24

Instrument :

BNA_N

ClientSampleId :

DUP01-20241118



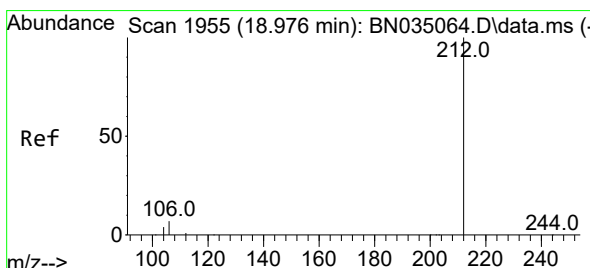
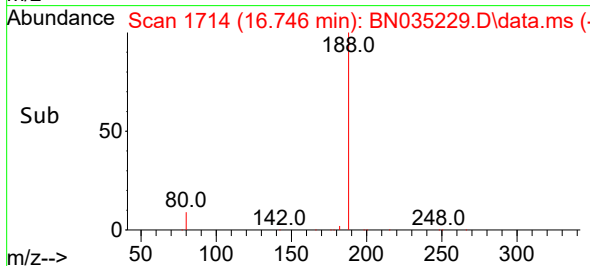
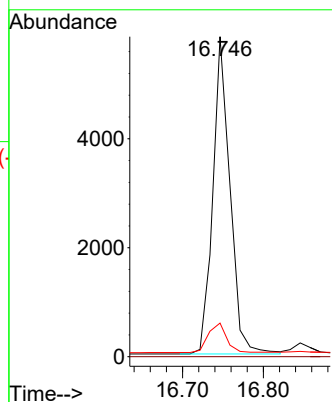
Tgt Ion:188 Resp: 8619

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.5 4.3 6.5#



#27

Fluoranthene-d10

Concen: 0.334 ng

RT: 18.802 min Scan# 1919

Delta R.T. -0.005 min

Lab File: BN035229.D

Acq: 21 Nov 2024 19:24

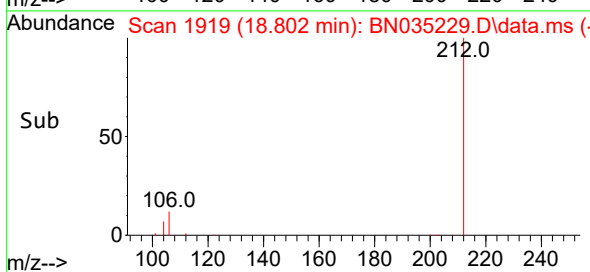
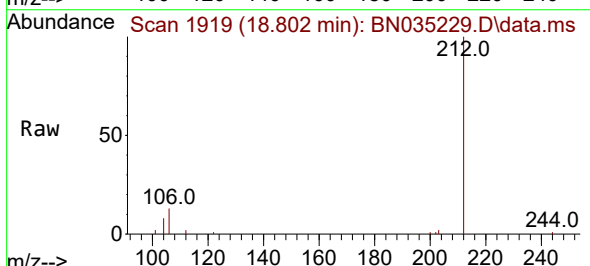
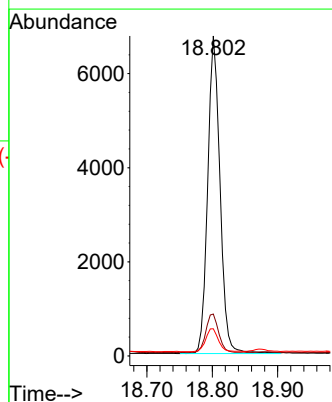
Tgt Ion:212 Resp: 8814

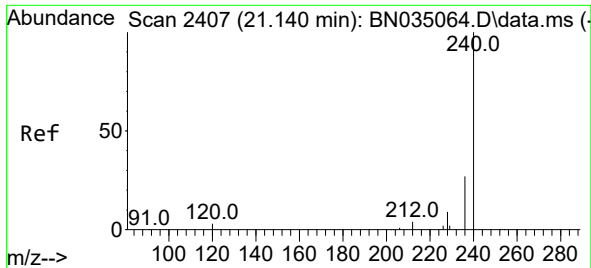
Ion Ratio Lower Upper

212 100

106 12.6 6.0 9.0#

104 7.3 3.5 5.3#

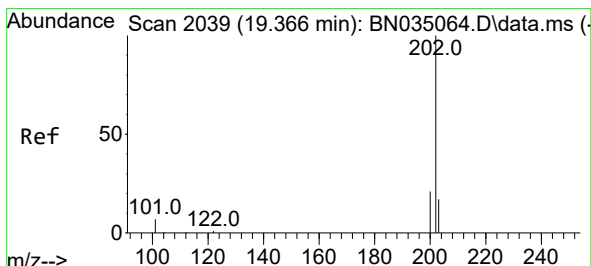
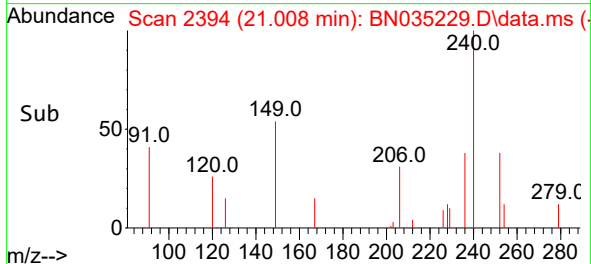
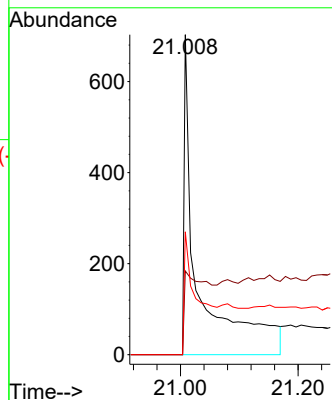
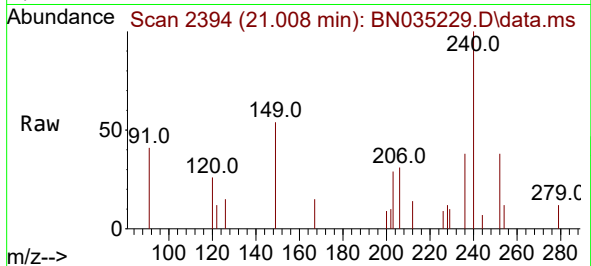




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.008 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN035229.D
Acq: 21 Nov 2024 19:24

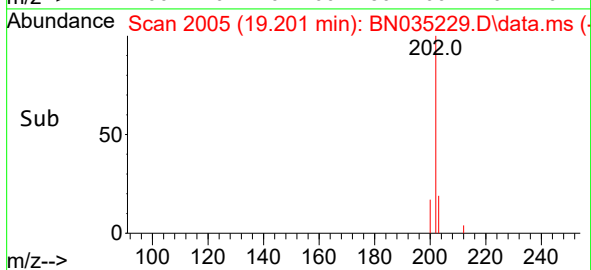
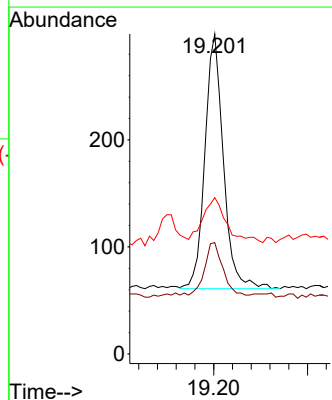
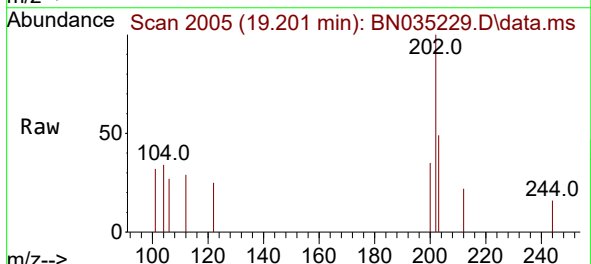
Instrument :
BNA_N
ClientSampleId :
DUP01-20241118

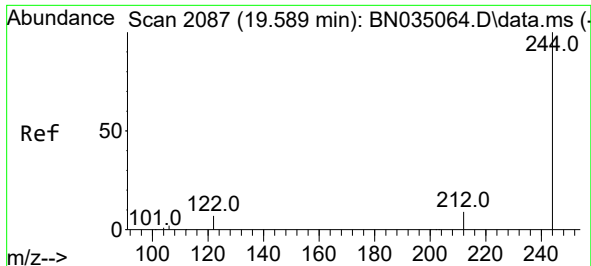
Tgt Ion:240 Resp: 1170
Ion Ratio Lower Upper
240 100
120 26.2 3.8 5.6#
236 38.4 22.2 33.2#



#30
Pyrene
Concen: 0.084 ng
RT: 19.201 min Scan# 2005
Delta R.T. -0.005 min
Lab File: BN035229.D
Acq: 21 Nov 2024 19:24

Tgt Ion:202 Resp: 326
Ion Ratio Lower Upper
202 100
200 20.9 16.7 25.1
203 22.1 14.2 21.4#

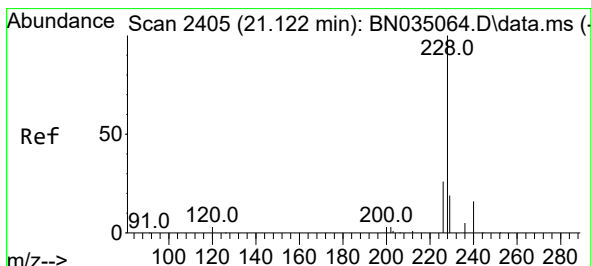
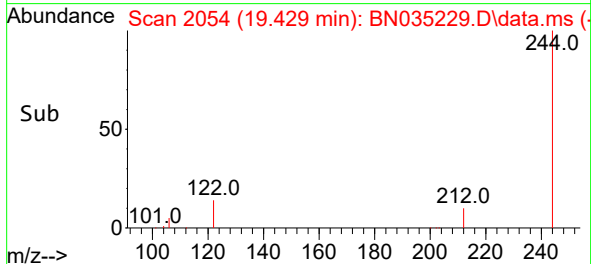
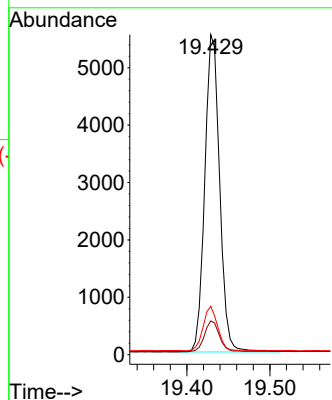
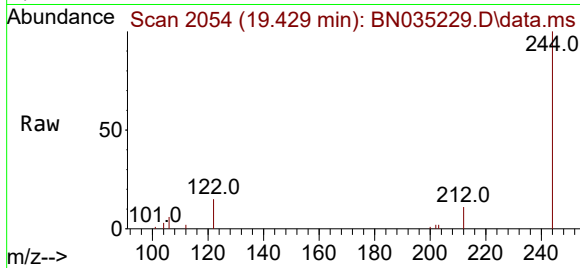




#31
 Terphenyl-d14
 Concen: 2.808 ng
 RT: 19.429 min Scan# 2087
 Delta R.T. -0.009 min
 Lab File: BN035229.D
 Acq: 21 Nov 2024 19:24

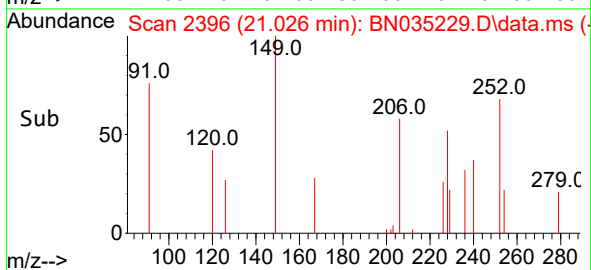
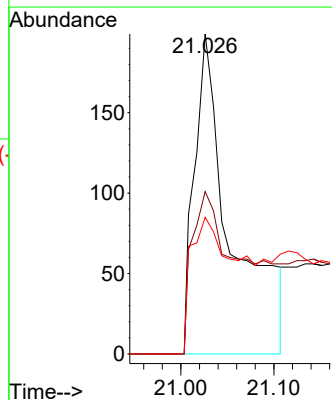
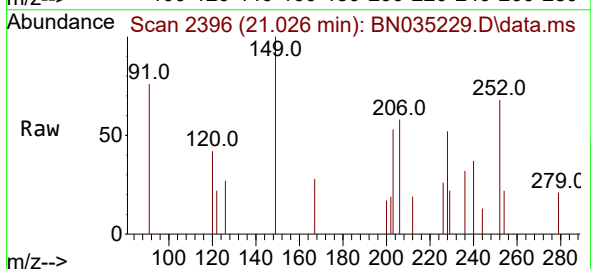
Instrument :
 BNA_N
 ClientSampleId :
 DUP01-20241118

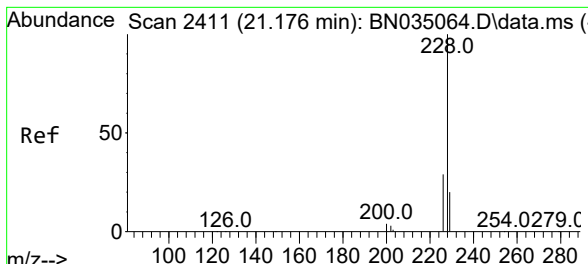
Tgt Ion:244 Resp: 6893
 Ion Ratio Lower Upper
 244 100
 212 10.5 7.6 11.4
 122 15.1 6.1 9.1#



#32
 Benzo(a)anthracene
 Concen: 0.128 ng
 RT: 21.026 min Scan# 2396
 Delta R.T. -0.009 min
 Lab File: BN035229.D
 Acq: 21 Nov 2024 19:24

Tgt Ion:228 Resp: 520
 Ion Ratio Lower Upper
 228 100
 226 50.8 21.4 32.0#
 229 42.7 15.7 23.5#

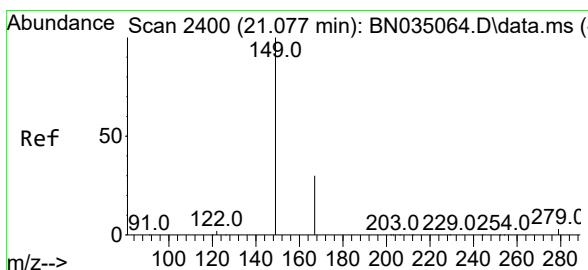
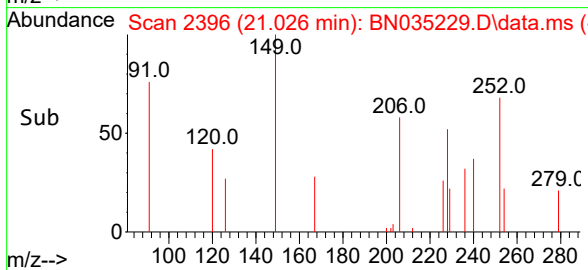
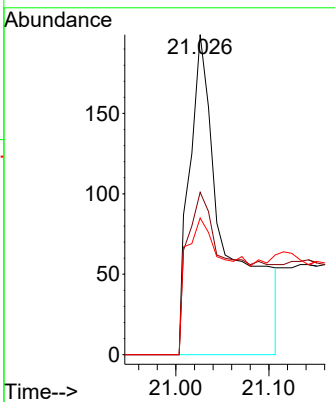
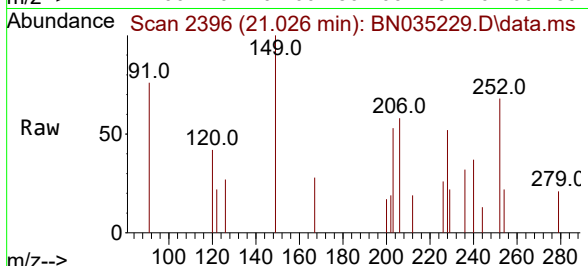




#33
 Chrysene
 Concen: 0.129 ng
 RT: 21.026 min Scan# 21
 Delta R.T. -0.009 min
 Lab File: BN035229.D
 Acq: 21 Nov 2024 19:24

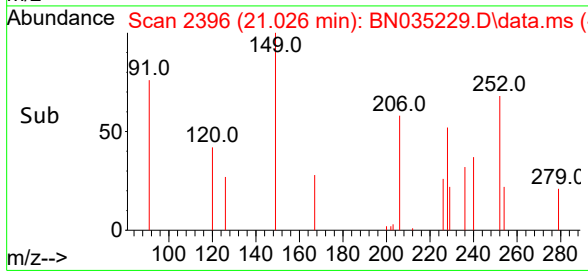
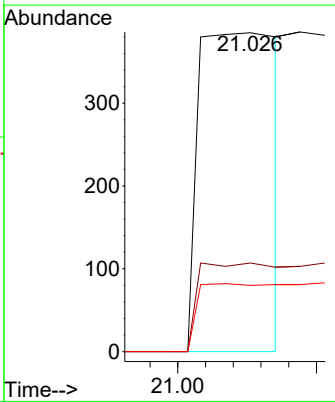
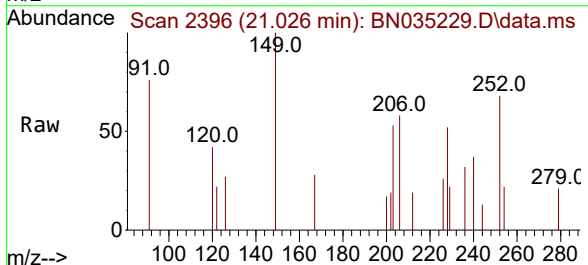
Instrument :
 BNA_N
 ClientSampleId :
 DUP01-20241118

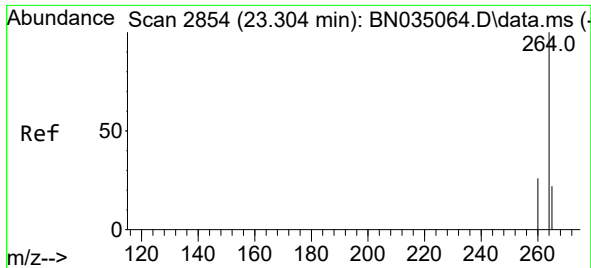
Tgt Ion:	228	Resp:	520
Ion Ratio	Lower	Upper	
228	100		
226	50.8	23.7	35.5#
229	42.7	16.2	24.4#



#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.310 ng
 RT: 21.026 min Scan# 2396
 Delta R.T. 0.000 min
 Lab File: BN035229.D
 Acq: 21 Nov 2024 19:24

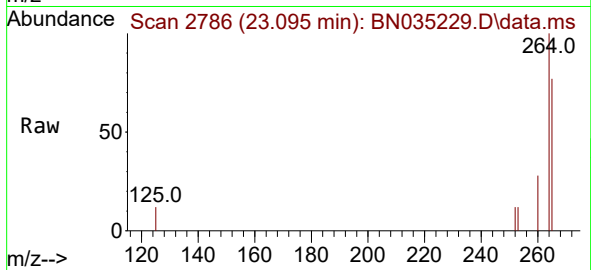
Tgt Ion:	149	Resp:	663
Ion Ratio	Lower	Upper	
149	100		
167	27.5	23.2	34.8
279	14.9	3.2	4.8#



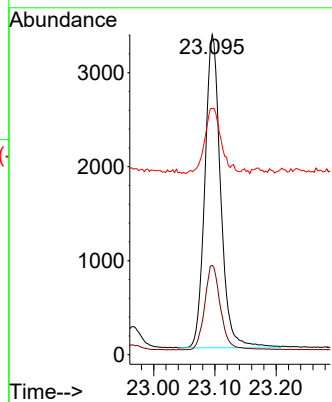
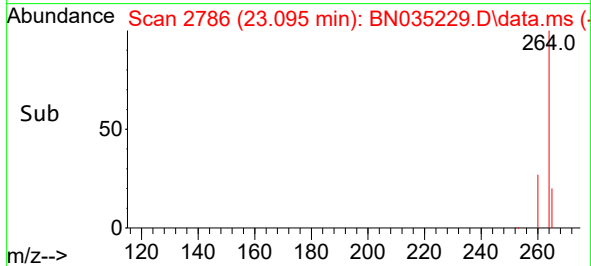


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.095 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN035229.D
Acq: 21 Nov 2024 19:24

Instrument :
BNA_N
ClientSampleId :
DUP01-20241118



Tgt Ion:264 Resp: 5974
Ion Ratio Lower Upper
264 100
260 27.9 20.9 31.3
265 77.0 35.4 53.2#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112124\
 Data File : BN035232.D
 Acq On : 21 Nov 2024 21:12
 Operator : RC/JU
 Sample : P4934-11
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RB01-20241119

Quant Time: Nov 21 23:06:07 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 21 14:00:03 2024
 Response via : Initial Calibration

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

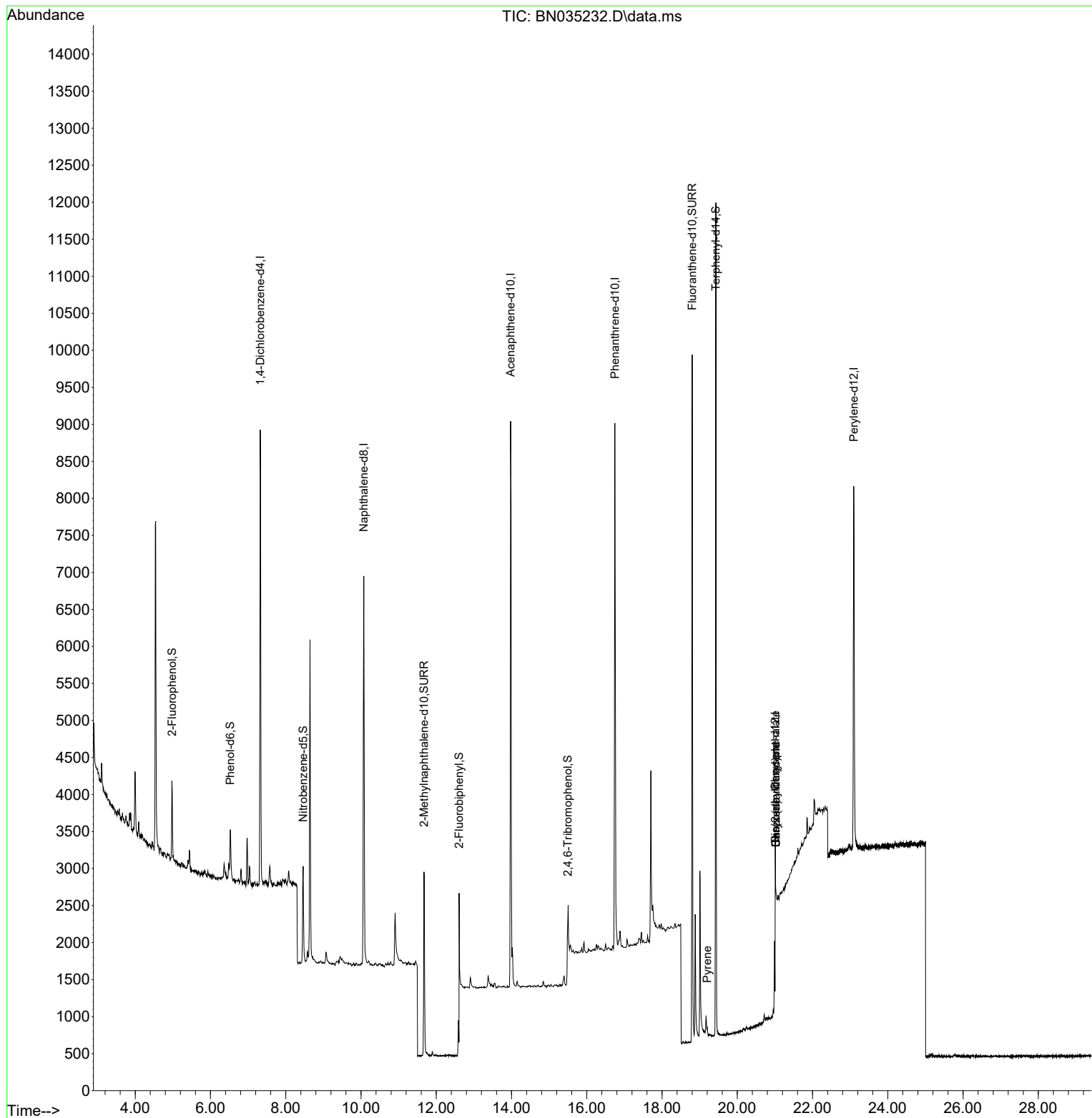
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.322	152	2945	0.400	ng	0.00
7) Naphthalene-d8	10.073	136	7124	0.400	ng	# 0.00
13) Acenaphthene-d10	13.976	164	4659	0.400	ng	-0.01
19) Phenanthrene-d10	16.746	188	9464	0.400	ng	# 0.00
29) Chrysene-d12	21.008	240	1183	0.400	ng	# 0.00
35) Perylene-d12	23.095	264	6123	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.975	112	880	0.118	ng	0.00
5) Phenol-d6	6.528	99	602	0.064	ng	0.00
8) Nitrobenzene-d5	8.461	82	1543	0.249	ng	0.00
11) 2-Methylnaphthalene-d10	11.674	152	3635	0.286	ng	0.00
14) 2,4,6-Tribromophenol	15.494	330	812	0.242	ng	0.00
15) 2-Fluorobiphenyl	12.608	172	1183	0.063	ng	0.00
27) Fluoranthene-d10	18.801	212	10201	0.352	ng	0.00
31) Terphenyl-d14	19.429	244	10405	4.192	ng	0.00
Target Compounds						Qvalue
30) Pyrene	19.201	202	94	0.024	ng	# 86
32) Benzo(a)anthracene	21.026	228	328	0.080	ng	# 1
33) Chrysene	21.026	228	328	0.080	ng	# 1
34) Bis(2-ethylhexyl)phtha...	21.017	149	470	0.217	ng	# 68

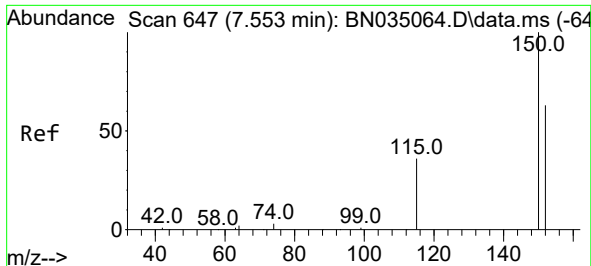
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112124\
Data File : BN035232.D
Acq On : 21 Nov 2024 21:12
Operator : RC/JU
Sample : P4934-11
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RB01-20241119

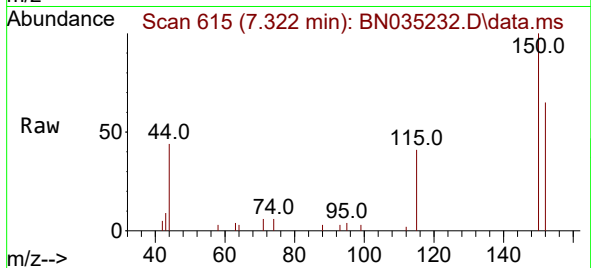
Quant Time: Nov 21 23:06:07 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 14:00:03 2024
Response via : Initial Calibration



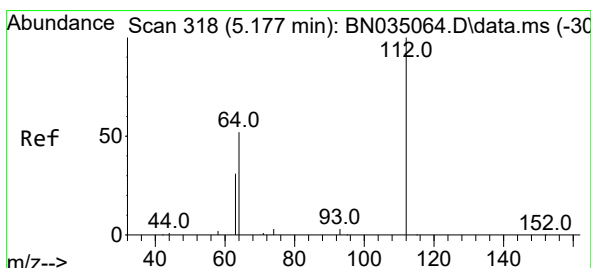
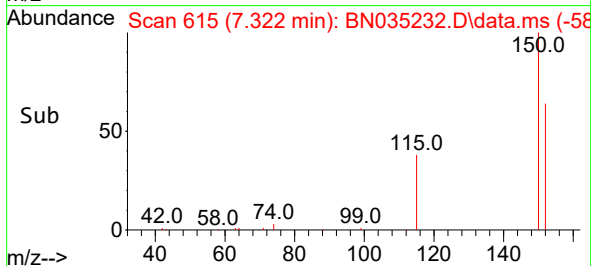
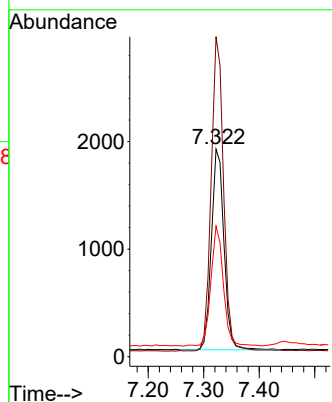


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.322 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN035232.D
Acq: 21 Nov 2024 21:12

Instrument :
BNA_N
ClientSampleId :
RB01-20241119

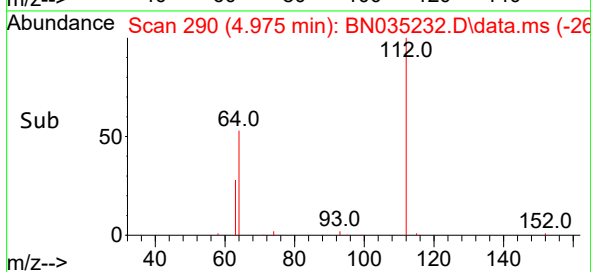
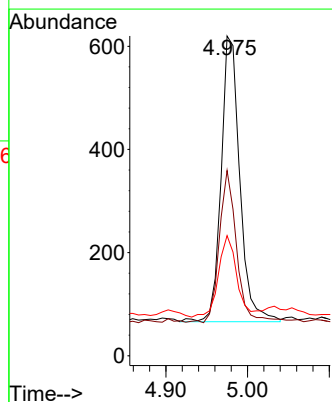
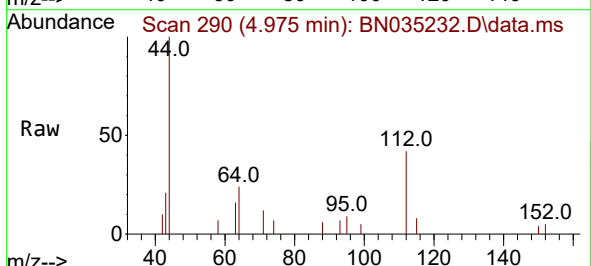


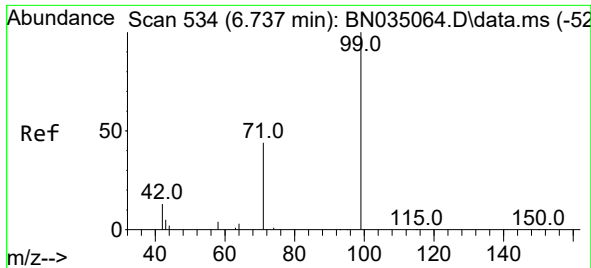
Tgt Ion:152 Resp: 2945
Ion Ratio Lower Upper
152 100
150 154.2 124.5 186.7
115 62.9 47.8 71.6



#4
2-Fluorophenol
Concen: 0.118 ng
RT: 4.975 min Scan# 290
Delta R.T. -0.007 min
Lab File: BN035232.D
Acq: 21 Nov 2024 21:12

Tgt Ion:112 Resp: 880
Ion Ratio Lower Upper
112 100
64 48.5 39.7 59.5
63 28.0 23.0 34.4

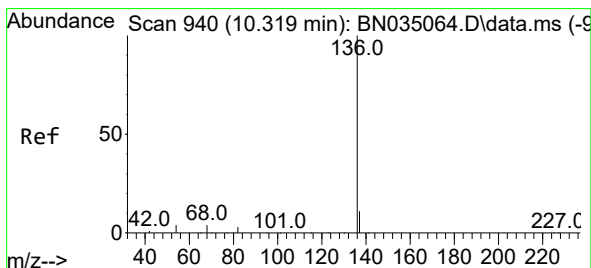
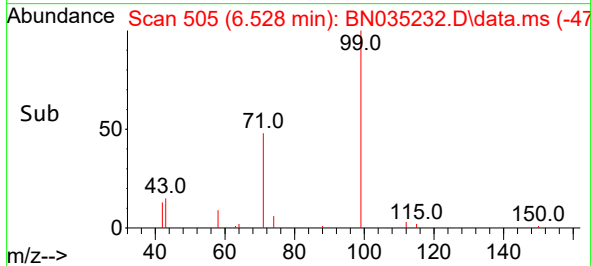
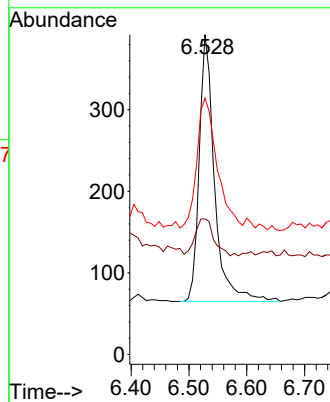
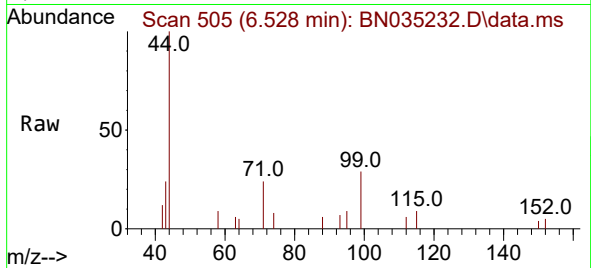




#5
Phenol-d6
Concen: 0.064 ng
RT: 6.528 min Scan# 50
Delta R.T. -0.000 min
Lab File: BN035232.D
Acq: 21 Nov 2024 21:12

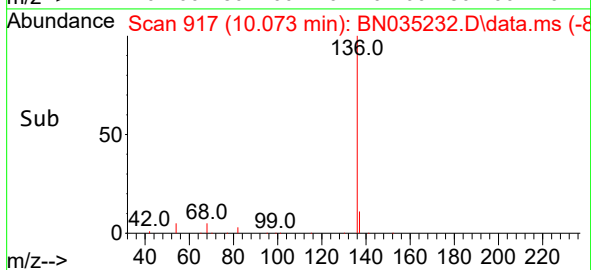
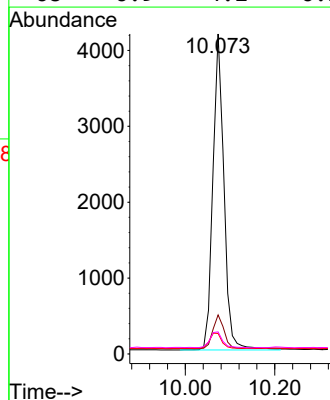
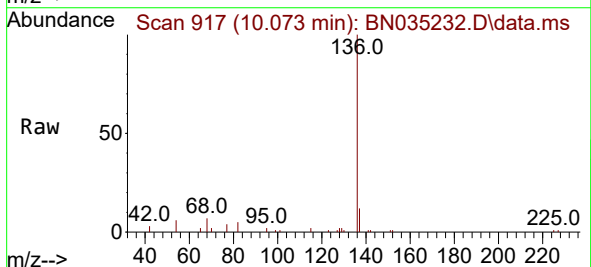
Instrument :
BNA_N
ClientSampleId :
RB01-20241119

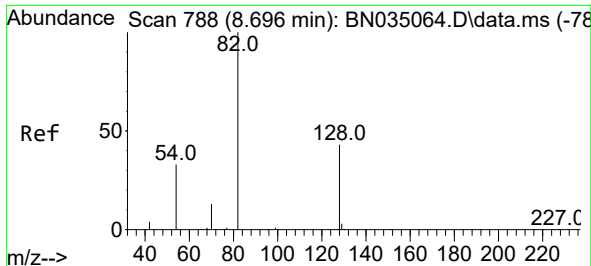
Tgt Ion: 99 Resp: 602
Ion Ratio Lower Upper
99 100
42 16.9 11.4 17.0
71 63.8 34.6 51.8#



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.073 min Scan# 917
Delta R.T. -0.000 min
Lab File: BN035232.D
Acq: 21 Nov 2024 21:12

Tgt Ion: 136 Resp: 7124
Ion Ratio Lower Upper
136 100
137 12.2 9.8 14.8
54 6.4 4.0 6.0#
68 6.9 4.2 6.2#

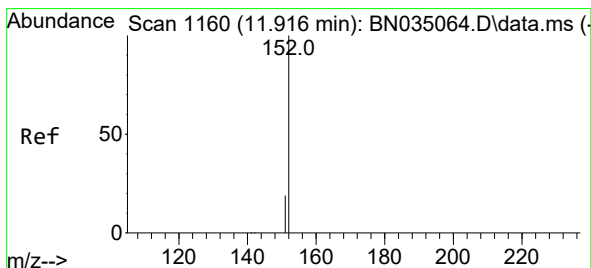
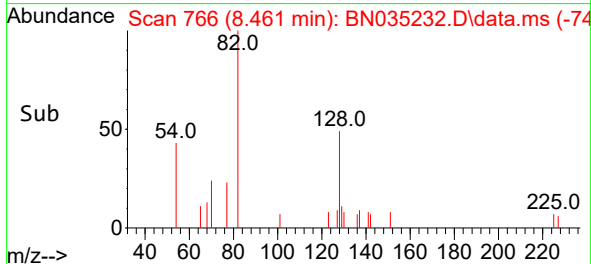
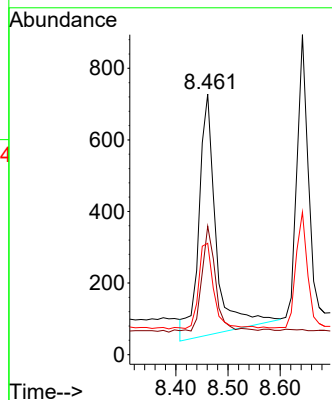
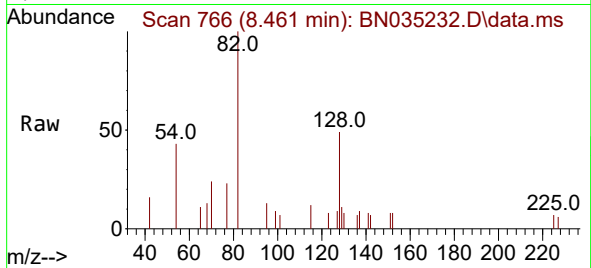




#8
Nitrobenzene-d5
Concen: 0.249 ng
RT: 8.461 min Scan# 70
Delta R.T. -0.000 min
Lab File: BN035232.D
Acq: 21 Nov 2024 21:12

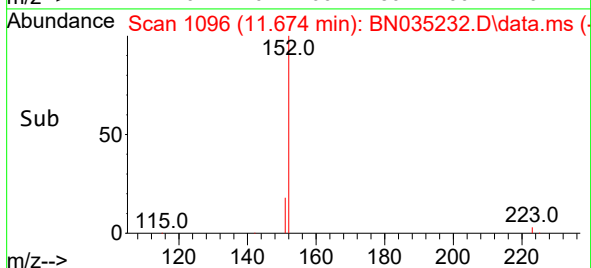
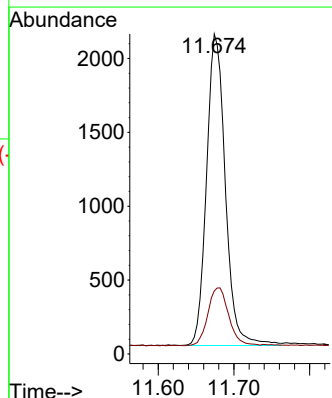
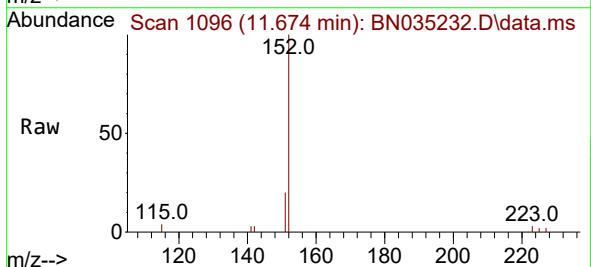
Instrument :
BNA_N
ClientSampleId :
RB01-20241119

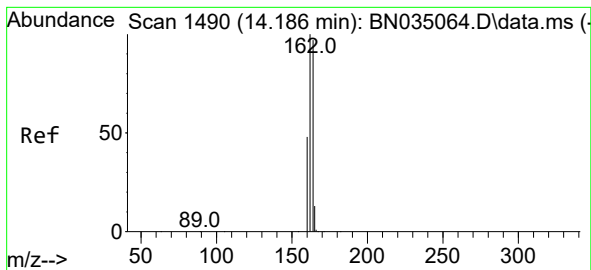
Tgt Ion: 82 Resp: 1543
Ion Ratio Lower Upper
82 100
128 49.3 36.5 54.7
54 42.7 28.7 43.1



#11
2-Methylnaphthalene-d10
Concen: 0.286 ng
RT: 11.674 min Scan# 1096
Delta R.T. -0.004 min
Lab File: BN035232.D
Acq: 21 Nov 2024 21:12

Tgt Ion:152 Resp: 3635
Ion Ratio Lower Upper
152 100
151 20.6 16.2 24.4





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 13.976 min Scan# 14

Delta R.T. -0.011 min

Lab File: BN035232.D

Acq: 21 Nov 2024 21:12

Instrument :

BNA_N

ClientSampleId :

RB01-20241119

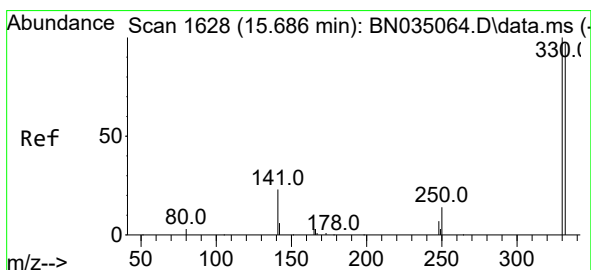
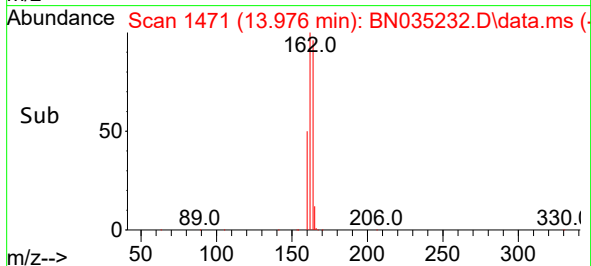
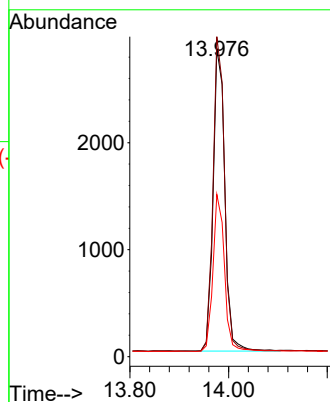
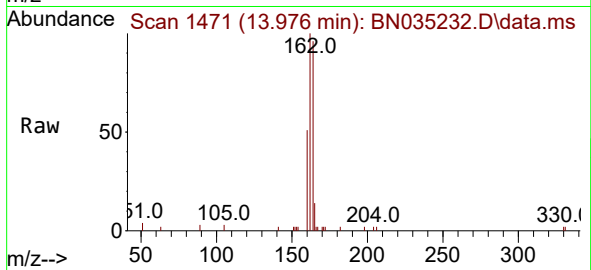
Tgt Ion:164 Resp: 4659

Ion Ratio Lower Upper

164 100

162 103.9 82.2 123.2

160 52.7 40.2 60.4



#14

2,4,6-Tribromophenol

Concen: 0.242 ng

RT: 15.494 min Scan# 1613

Delta R.T. -0.000 min

Lab File: BN035232.D

Acq: 21 Nov 2024 21:12

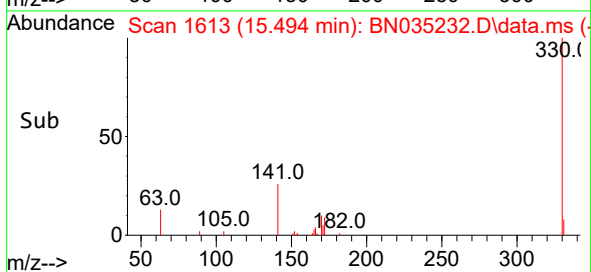
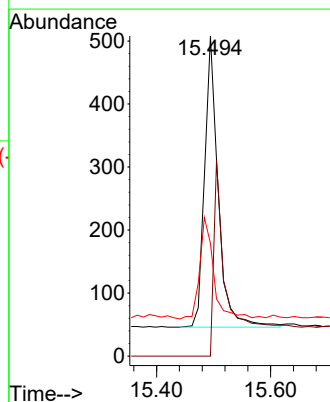
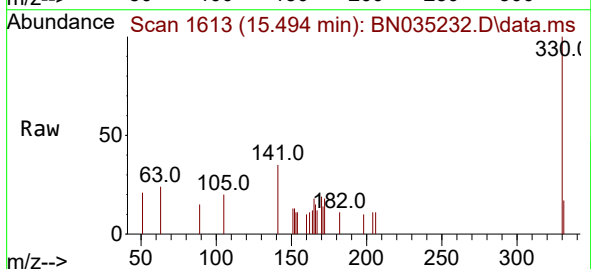
Tgt Ion:330 Resp: 812

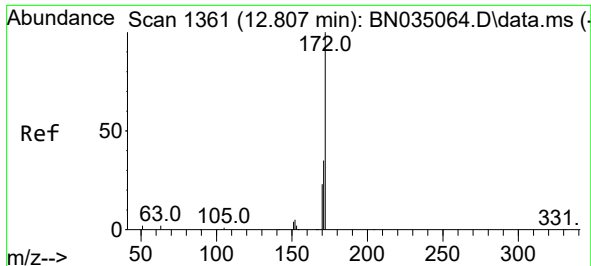
Ion Ratio Lower Upper

330 100

332 0.0 76.9 115.3#

141 36.2 29.6 44.4

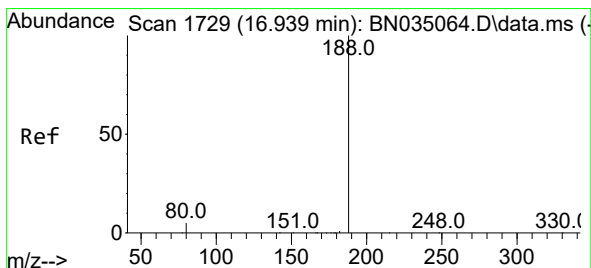
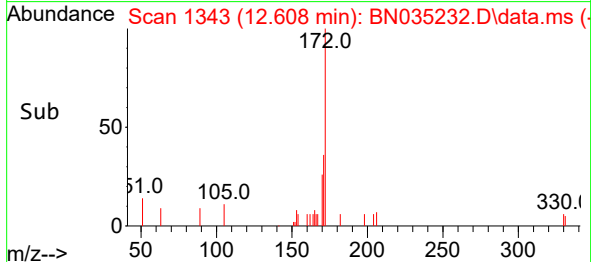
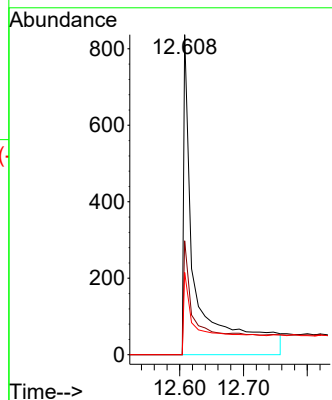
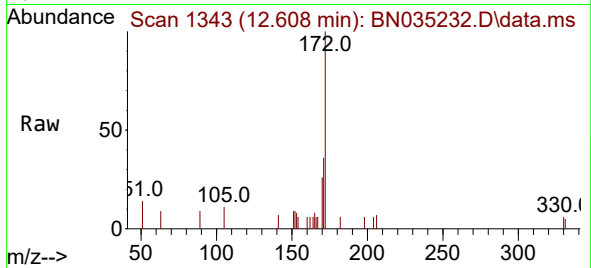




#15
2-Fluorobiphenyl
Concen: 0.063 ng
RT: 12.608 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN035232.D
Acq: 21 Nov 2024 21:12

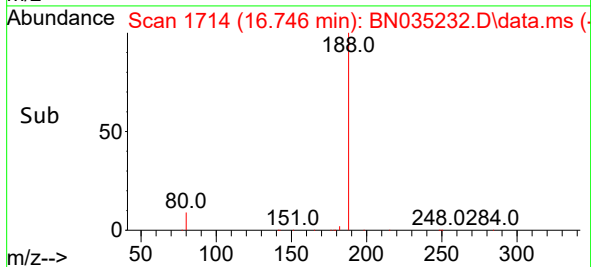
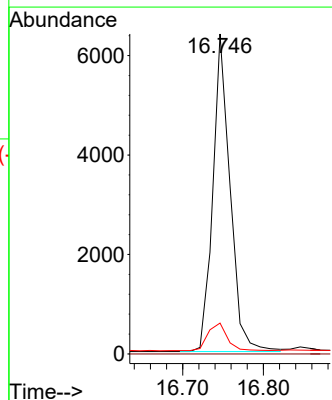
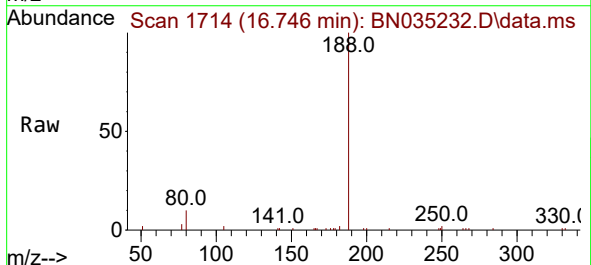
Instrument :
BNA_N
ClientSampleId :
RB01-20241119

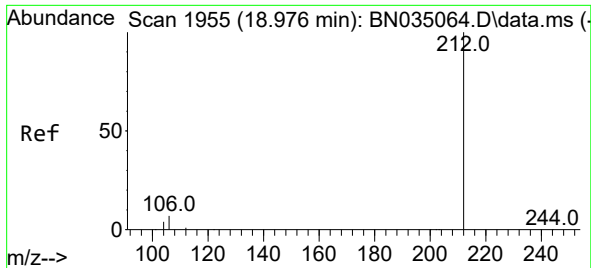
Tgt Ion:172 Resp: 1183
Ion Ratio Lower Upper
172 100
171 35.6 28.2 42.4
170 25.7 19.0 28.6



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.746 min Scan# 1714
Delta R.T. -0.000 min
Lab File: BN035232.D
Acq: 21 Nov 2024 21:12

Tgt Ion:188 Resp: 9464
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 9.6 4.3 6.5





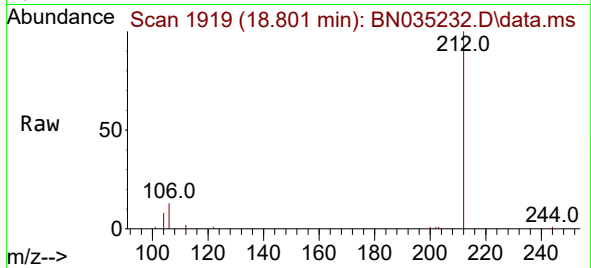
#27
Fluoranthene-d10
Concen: 0.352 ng
RT: 18.801 min Scan# 1919
Delta R.T. -0.005 min
Lab File: BN035232.D
Acq: 21 Nov 2024 21:12

Instrument :

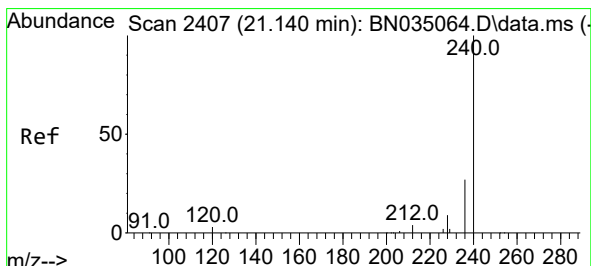
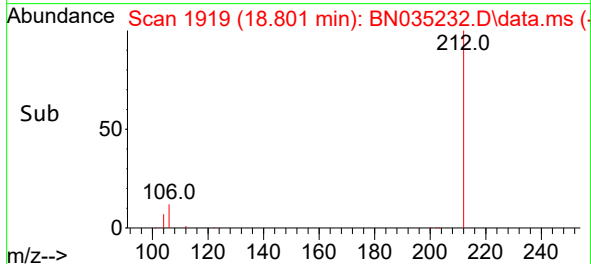
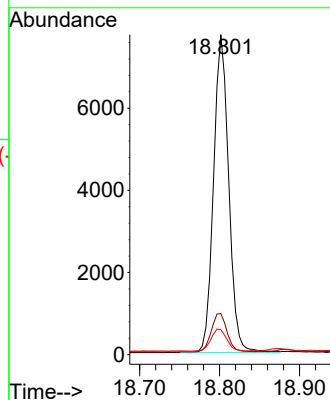
BNA_N

ClientSampleId :

RB01-20241119

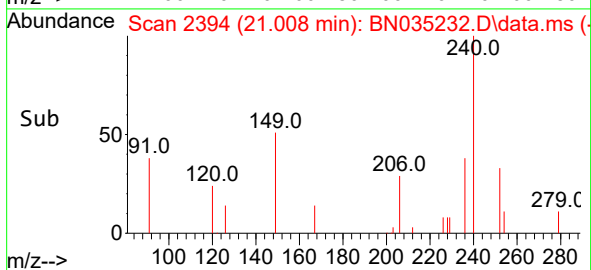
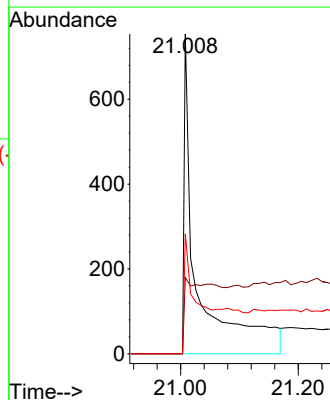
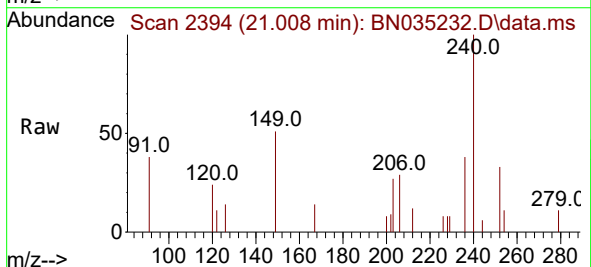


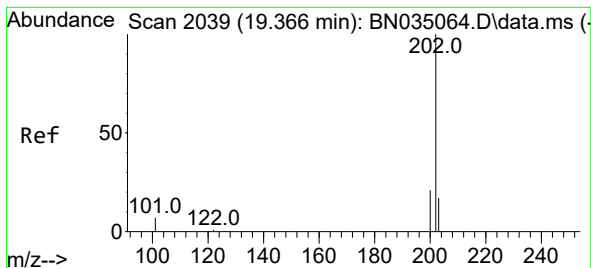
Tgt Ion:212 Resp: 10201
Ion Ratio Lower Upper
212 100
106 12.7 6.0 9.0#
104 7.2 3.5 5.3#



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.008 min Scan# 2394
Delta R.T. -0.000 min
Lab File: BN035232.D
Acq: 21 Nov 2024 21:12

Tgt Ion:240 Resp: 1183
Ion Ratio Lower Upper
240 100
120 23.9 3.8 5.6#
236 37.5 22.2 33.2#





#30

Pyrene

Concen: 0.024 ng

RT: 19.201 min Scan# 2005

Delta R.T. -0.005 min

Lab File: BN035232.D

Acq: 21 Nov 2024 21:12

Instrument :

BNA_N

ClientSampleId :

RB01-20241119

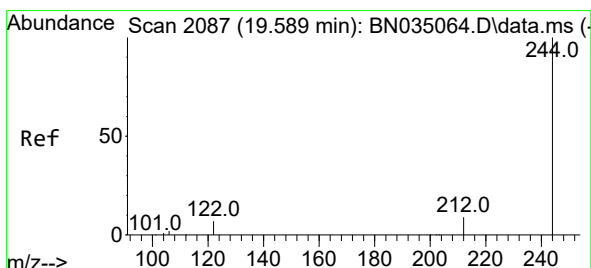
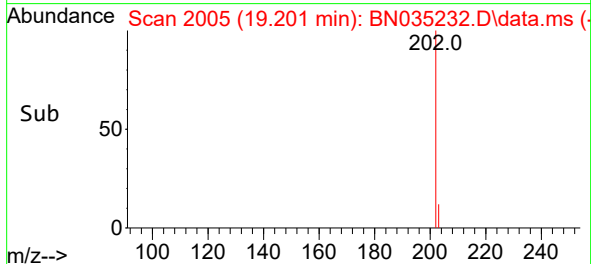
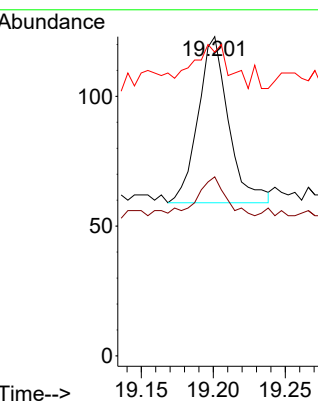
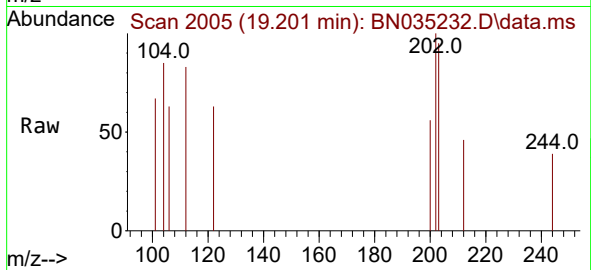
Tgt Ion:202 Resp: 94

Ion Ratio Lower Upper

202 100

200 21.3 16.7 25.1

203 30.9 14.2 21.4#



#31

Terphenyl-d14

Concen: 4.192 ng

RT: 19.429 min Scan# 2054

Delta R.T. -0.009 min

Lab File: BN035232.D

Acq: 21 Nov 2024 21:12

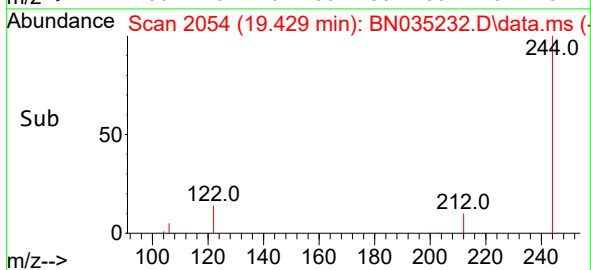
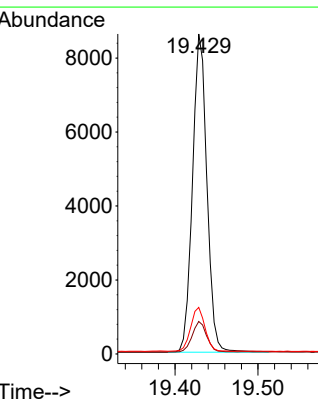
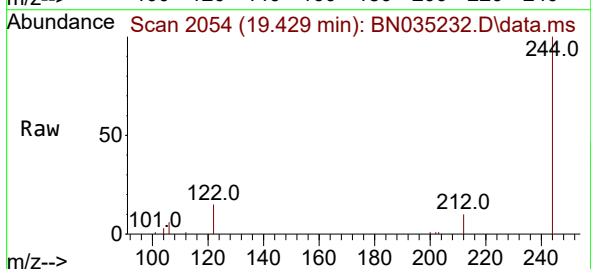
Tgt Ion:244 Resp: 10405

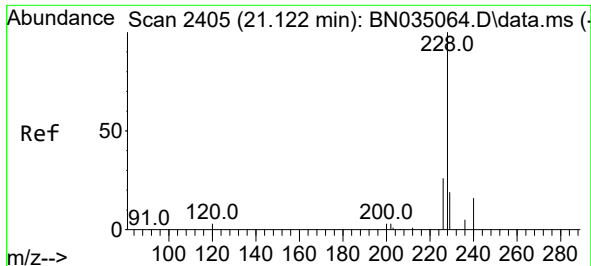
Ion Ratio Lower Upper

244 100

212 10.1 7.6 11.4

122 14.5 6.1 9.1#

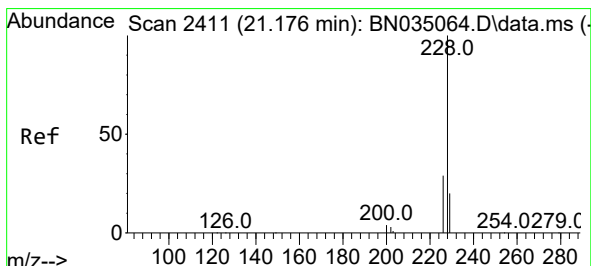
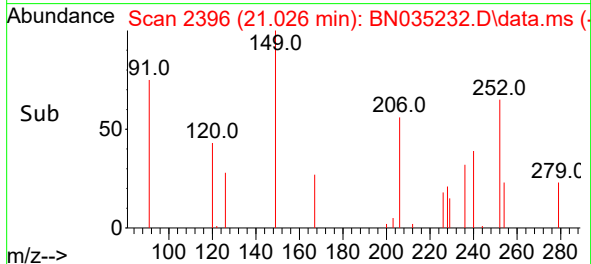
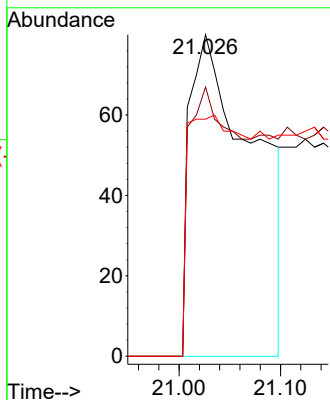
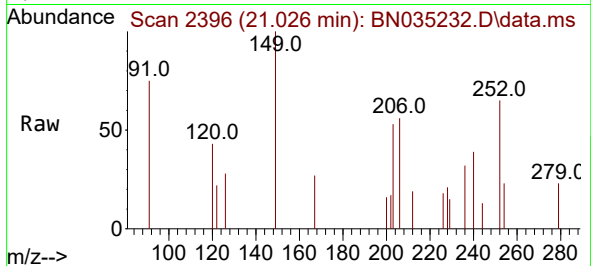




#32
Benzo(a)anthracene
Concen: 0.080 ng
RT: 21.026 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN035232.D
Acq: 21 Nov 2024 21:12

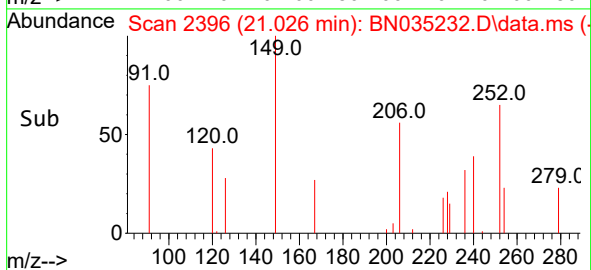
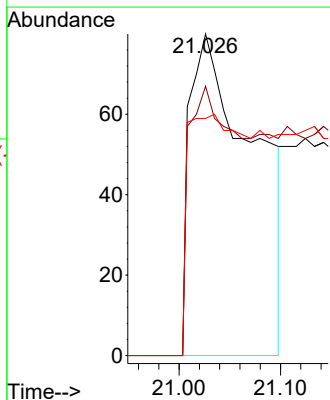
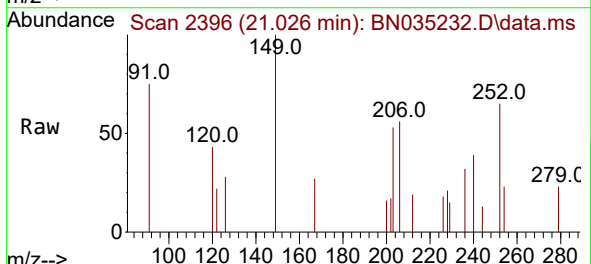
Instrument :
BNA_N
ClientSampleId :
RB01-20241119

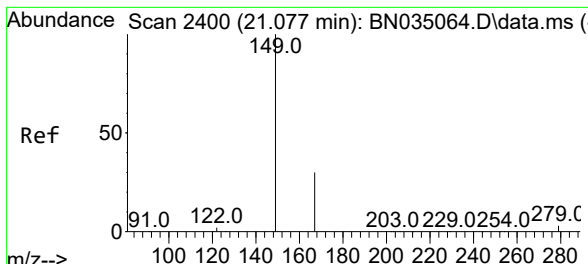
Tgt Ion:228 Resp: 328
Ion Ratio Lower Upper
228 100
226 83.7 21.4 32.0#
229 73.8 15.7 23.5#



#33
Chrysene
Concen: 0.080 ng
RT: 21.026 min Scan# 2396
Delta R.T. -0.009 min
Lab File: BN035232.D
Acq: 21 Nov 2024 21:12

Tgt Ion:228 Resp: 328
Ion Ratio Lower Upper
228 100
226 83.7 23.7 35.5#
229 73.8 16.2 24.4#

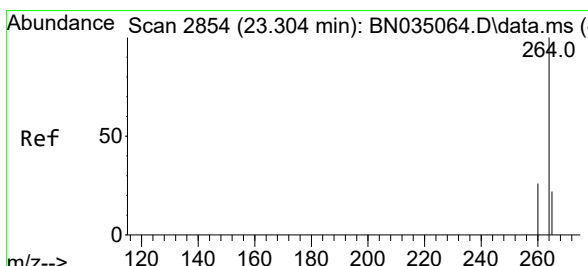
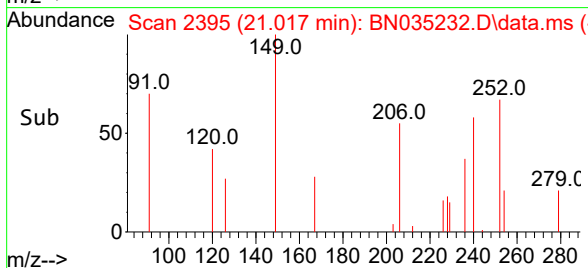
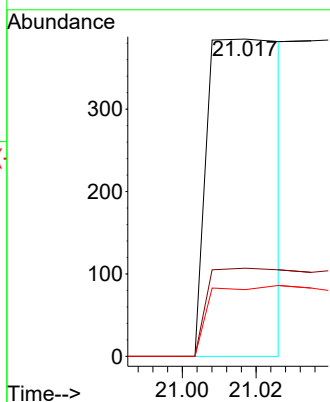
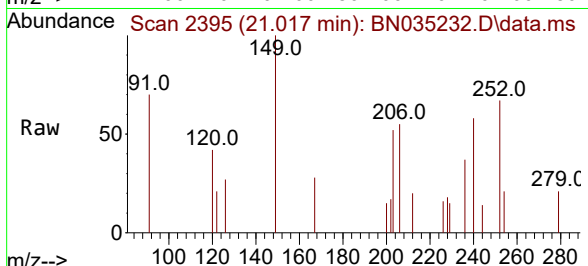




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.217 ng
RT: 21.017 min Scan# 2100
Delta R.T. -0.009 min
Lab File: BN035232.D
Acq: 21 Nov 2024 21:12

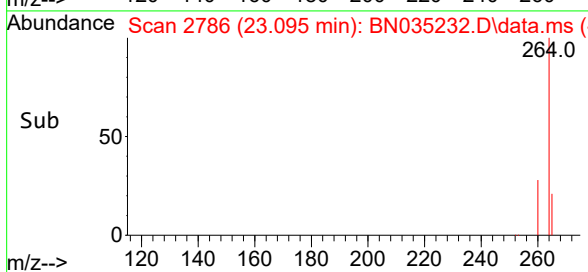
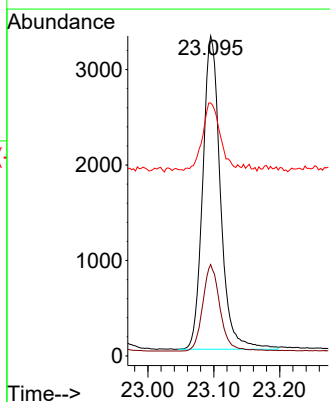
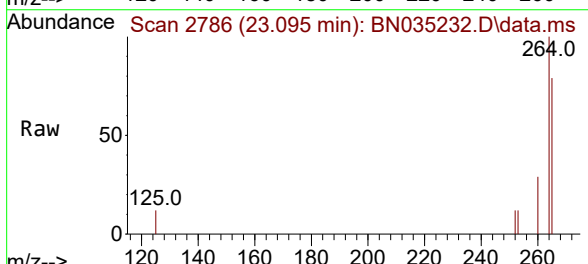
Instrument :
BNA_N
ClientSampleId :
RB01-20241119

Tgt Ion:149 Resp: 470
Ion Ratio Lower Upper
149 100
167 38.7 23.2 34.8#
279 48.5 3.2 4.8#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.095 min Scan# 2786
Delta R.T. -0.009 min
Lab File: BN035232.D
Acq: 21 Nov 2024 21:12

Tgt Ion:264 Resp: 6123
Ion Ratio Lower Upper
264 100
260 28.5 20.9 31.3
265 79.1 35.4 53.2#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112124\
 Data File : BN035233.D
 Acq On : 21 Nov 2024 21:49
 Operator : RC/JU
 Sample : P4934-10
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 BPOW6-8-20241119

Quant Time: Nov 21 23:06:19 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 21 14:00:03 2024
 Response via : Initial Calibration

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

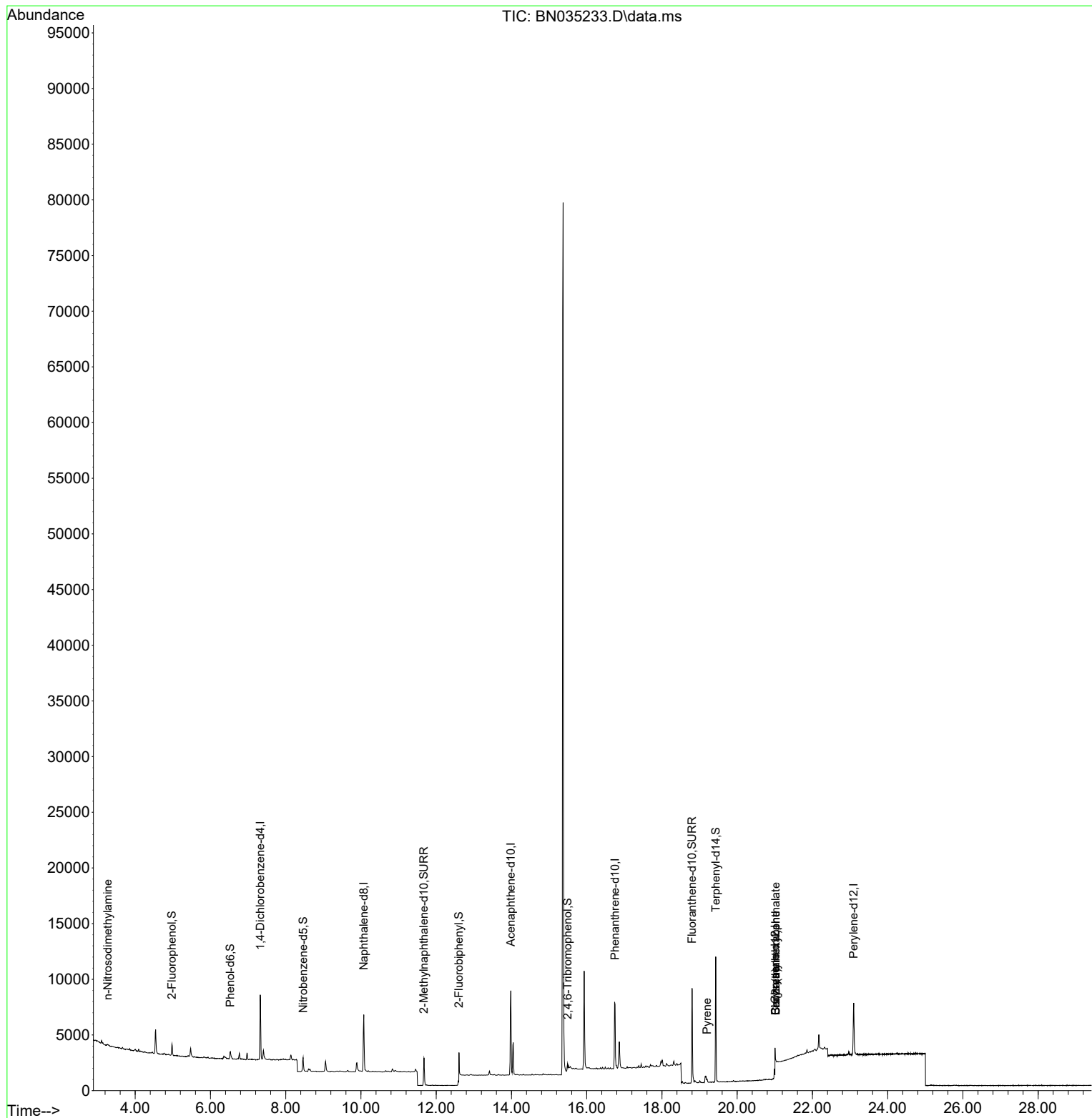
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.322	152	2753	0.400	ng	0.00
7) Naphthalene-d8	10.073	136	6705	0.400	ng	# 0.00
13) Acenaphthene-d10	13.983	164	4351	0.400	ng	0.00
19) Phenanthrene-d10	16.753	188	9377	0.400	ng	# 0.00
29) Chrysene-d12	21.006	240	1394	0.400	ng	# 0.00
35) Perylene-d12	23.096	264	5766	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.975	112	841	0.120	ng	0.00
5) Phenol-d6	6.528	99	609	0.069	ng	0.00
8) Nitrobenzene-d5	8.461	82	1366	0.234	ng	0.00
11) 2-Methylnaphthalene-d10	11.674	152	3417	0.286	ng	0.00
14) 2,4,6-Tribromophenol	15.491	330	728	0.232	ng	0.00
15) 2-Fluorobiphenyl	12.604	172	1463	0.083	ng	0.00
27) Fluoranthene-d10	18.799	212	9717	0.338	ng	0.00
31) Terphenyl-d14	19.431	244	10756	3.677	ng	0.00
Target Compounds						
3) n-Nitrosodimethylamine	3.271	42	67	0.029	ng	# 1
30) Pyrene	19.199	202	259	0.056	ng	# 94
32) Benzo(a)anthracene	21.024	228	401	0.083	ng	# 25
33) Chrysene	21.024	228	401	0.083	ng	# 31
34) Bis(2-ethylhexyl)phtha...	21.024	149	679	0.267	ng	# 59

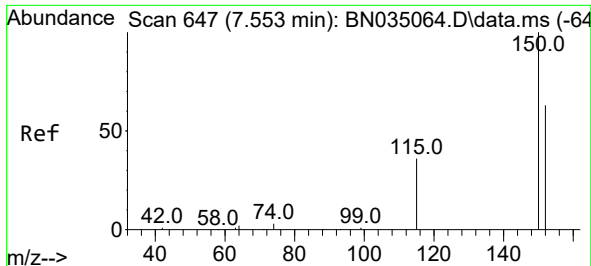
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112124\
Data File : BN035233.D
Acq On : 21 Nov 2024 21:49
Operator : RC/JU
Sample : P4934-10
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BPOW6-8-20241119

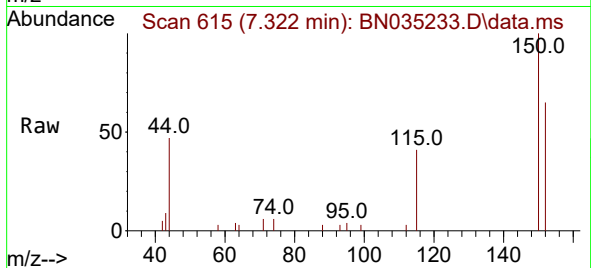
Quant Time: Nov 21 23:06:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 14:00:03 2024
Response via : Initial Calibration



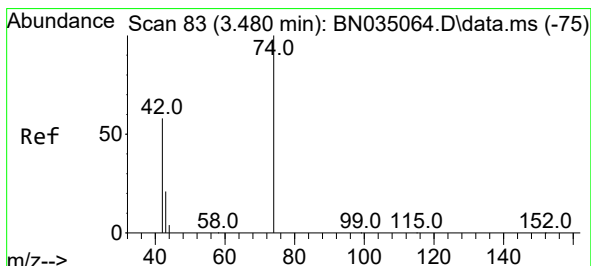
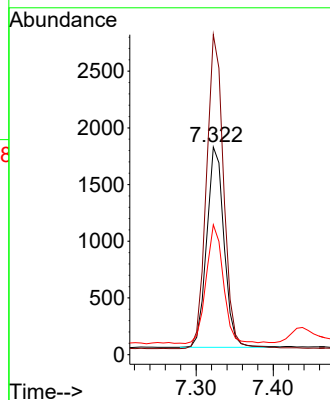
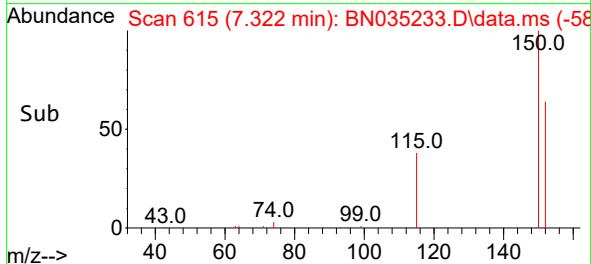


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.322 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN035233.D
Acq: 21 Nov 2024 21:49

Instrument :
BNA_N
ClientSampleId :
BPOW6-8-20241119

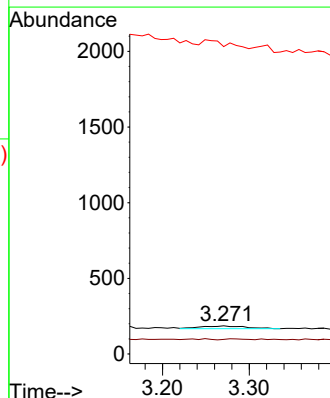
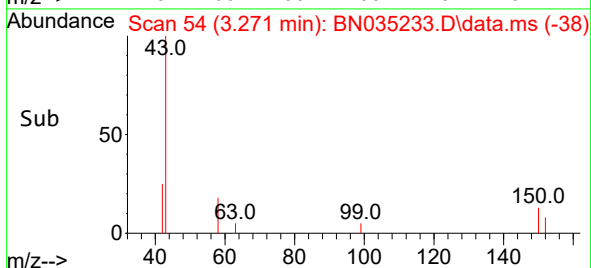
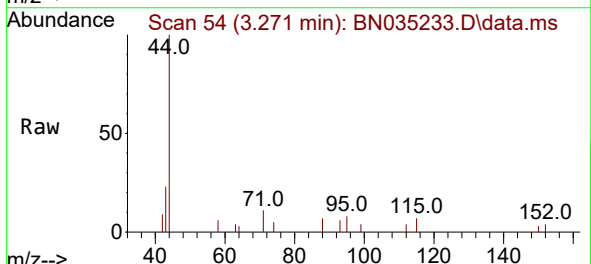


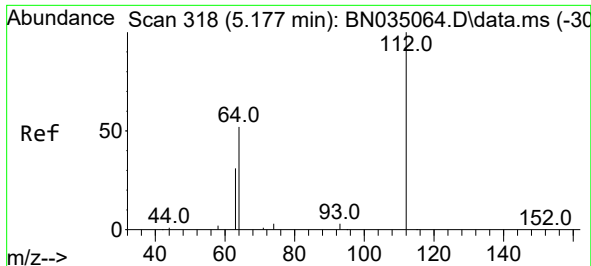
Tgt Ion:152 Resp: 2753
Ion Ratio Lower Upper
152 100
150 154.1 124.5 186.7
115 62.5 47.8 71.6



#3
n-Nitrosodimethylamine
Concen: 0.029 ng
RT: 3.271 min Scan# 54
Delta R.T. -0.036 min
Lab File: BN035233.D
Acq: 21 Nov 2024 21:49

Tgt Ion: 42 Resp: 67
Ion Ratio Lower Upper
42 100
74 14.9 120.8 181.2#
44 0.0 2.9 4.3#

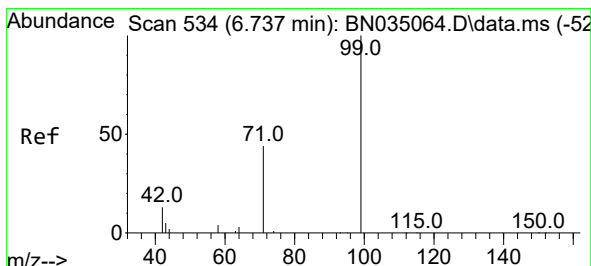
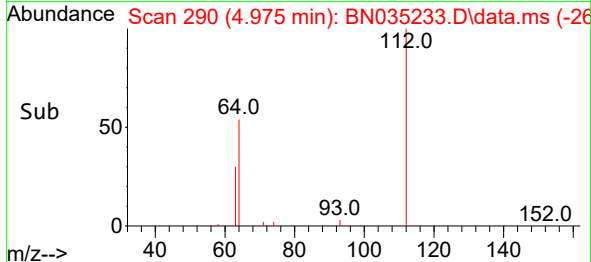
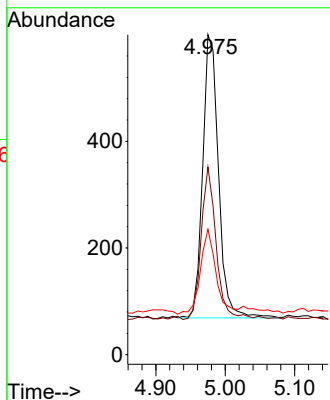
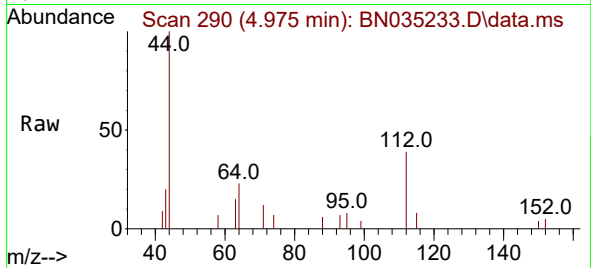




#4
2-Fluorophenol
Concen: 0.120 ng
RT: 4.975 min Scan# 24
Delta R.T. -0.007 min
Lab File: BN035233.D
Acq: 21 Nov 2024 21:49

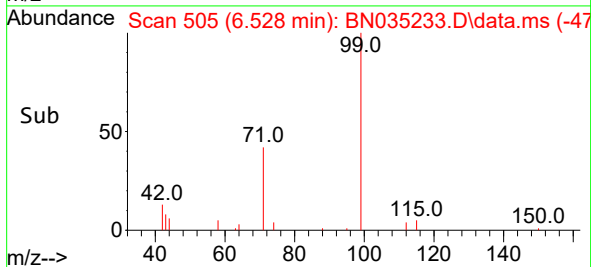
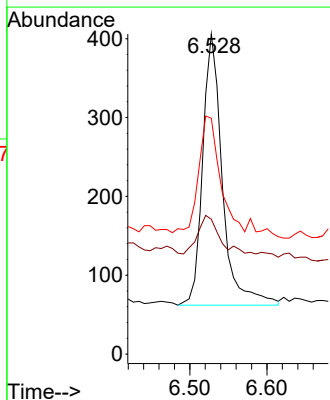
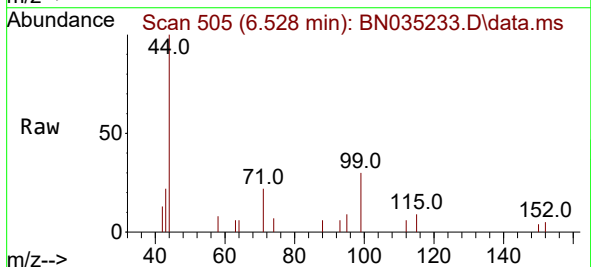
Instrument :
BNA_N
ClientSampleId :
BPOW6-8-20241119

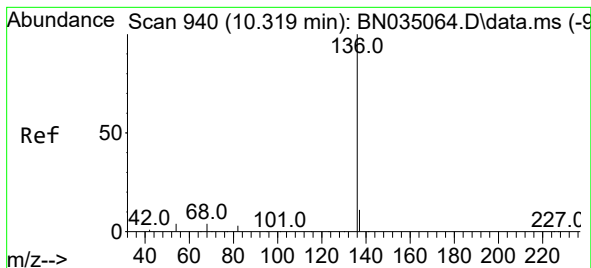
Tgt Ion:112 Resp: 841
Ion Ratio Lower Upper
112 100
64 51.7 39.7 59.5
63 29.6 23.0 34.4



#5
Phenol-d6
Concen: 0.069 ng
RT: 6.528 min Scan# 505
Delta R.T. 0.000 min
Lab File: BN035233.D
Acq: 21 Nov 2024 21:49

Tgt Ion: 99 Resp: 609
Ion Ratio Lower Upper
99 100
42 15.3 11.4 17.0
71 45.8 34.6 51.8





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.073 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN035233.D

Acq: 21 Nov 2024 21:49

Instrument :

BNA_N

ClientSampleId :

BPOW6-8-20241119

Tgt Ion:136 Resp: 6705

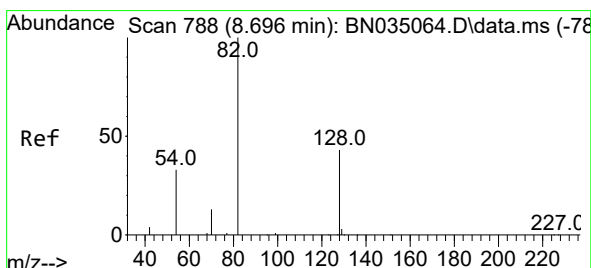
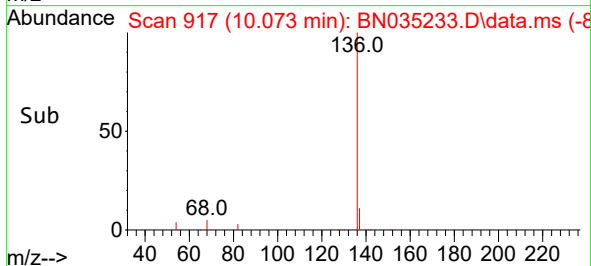
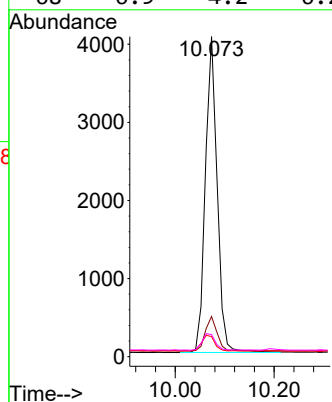
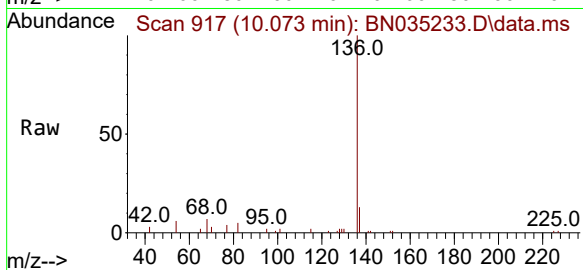
Ion Ratio Lower Upper

136 100

137 12.5 9.8 14.8

54 6.3 4.0 6.0#

68 6.9 4.2 6.2#



#8

Nitrobenzene-d5

Concen: 0.234 ng

RT: 8.461 min Scan# 766

Delta R.T. 0.000 min

Lab File: BN035233.D

Acq: 21 Nov 2024 21:49

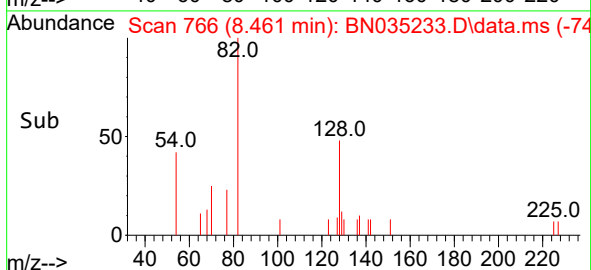
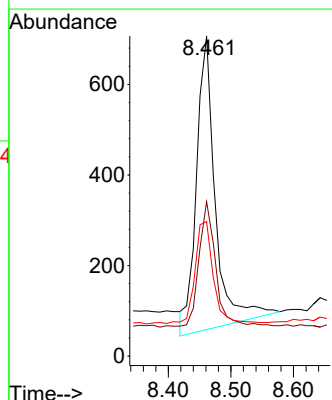
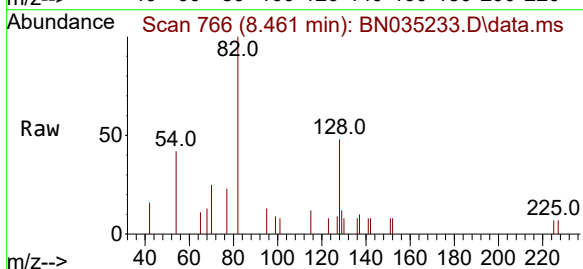
Tgt Ion: 82 Resp: 1366

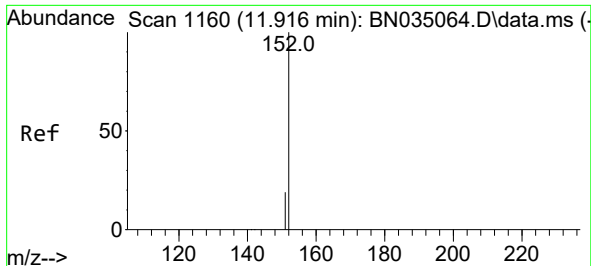
Ion Ratio Lower Upper

82 100

128 48.2 36.5 54.7

54 42.0 28.7 43.1

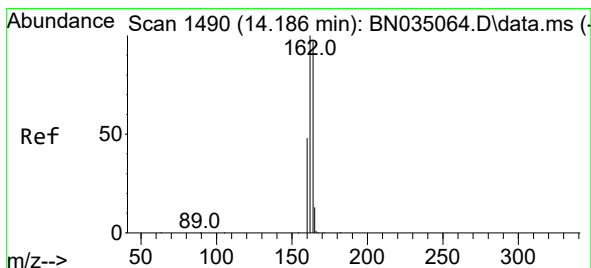
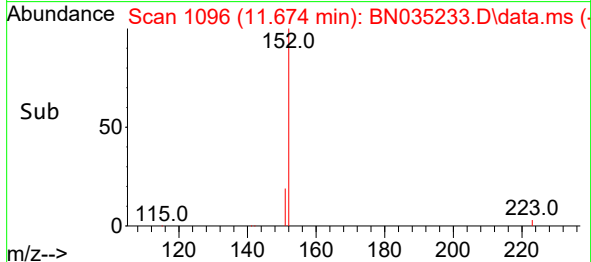
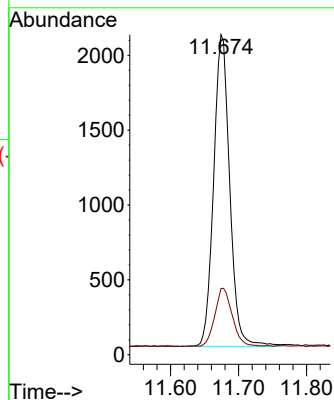
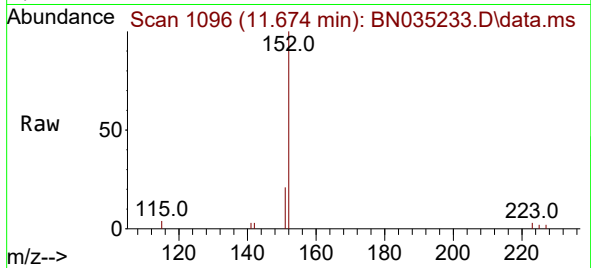




#11
2-Methylnaphthalene-d10
Concen: 0.286 ng
RT: 11.674 min Scan# 1096
Delta R.T. -0.004 min
Lab File: BN035233.D
Acq: 21 Nov 2024 21:49

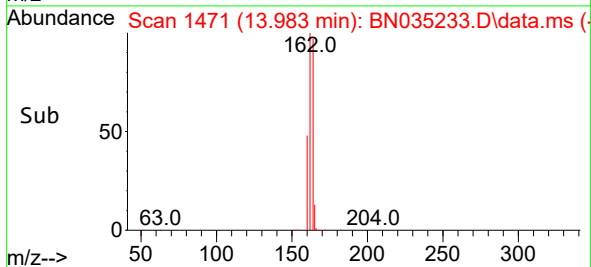
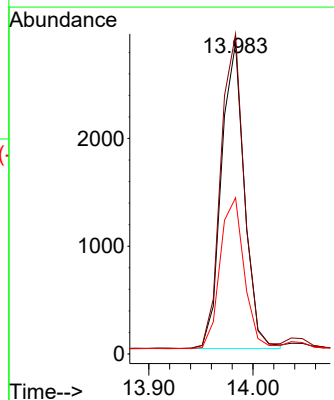
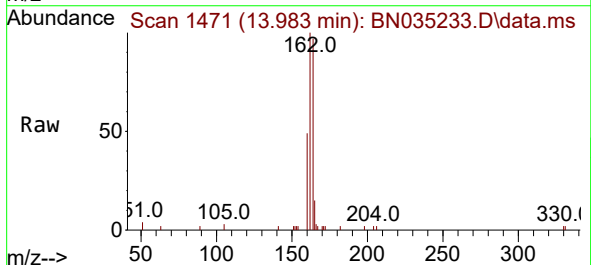
Instrument :
BNA_N
ClientSampleId :
BPOW6-8-20241119

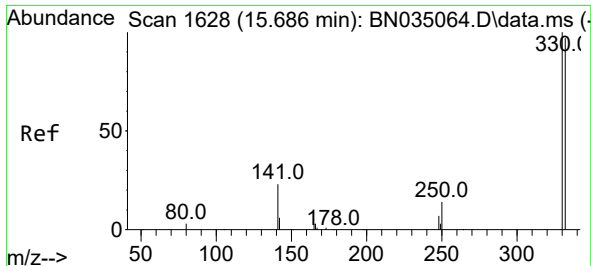
Tgt Ion:152 Resp: 3417
Ion Ratio Lower Upper
152 100
151 20.3 16.2 24.4



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.983 min Scan# 1471
Delta R.T. -0.004 min
Lab File: BN035233.D
Acq: 21 Nov 2024 21:49

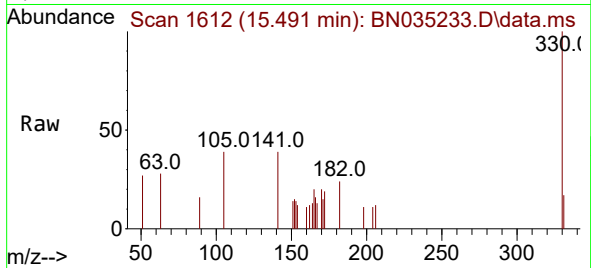
Tgt Ion:164 Resp: 4351
Ion Ratio Lower Upper
164 100
162 102.9 82.2 123.2
160 50.2 40.2 60.4



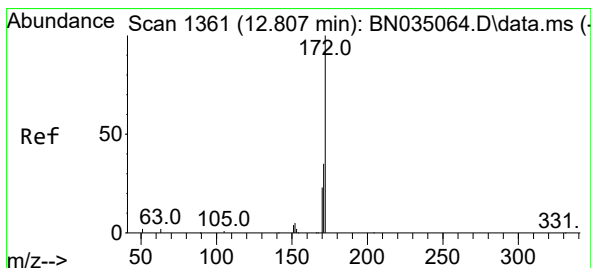
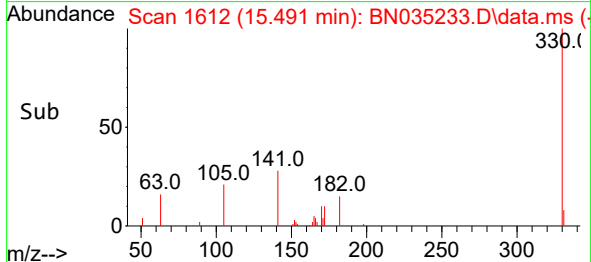
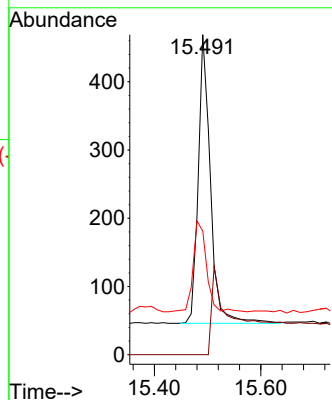


#14
2,4,6-Tribromophenol
Concen: 0.232 ng
RT: 15.491 min Scan# 1
Delta R.T. -0.004 min
Lab File: BN035233.D
Acq: 21 Nov 2024 21:49

Instrument :
BNA_N
ClientSampleId :
BPOW6-8-20241119

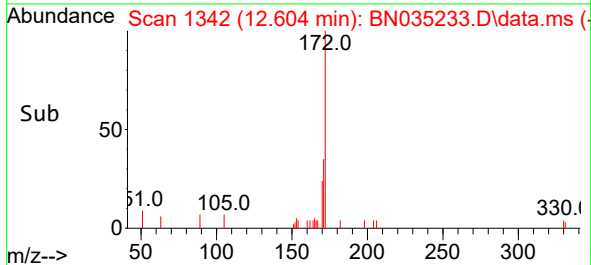
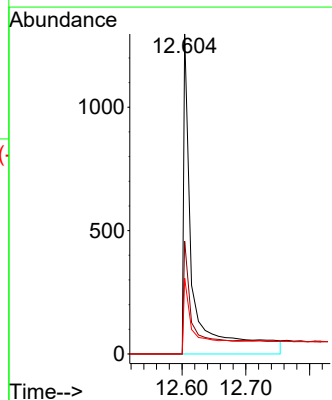
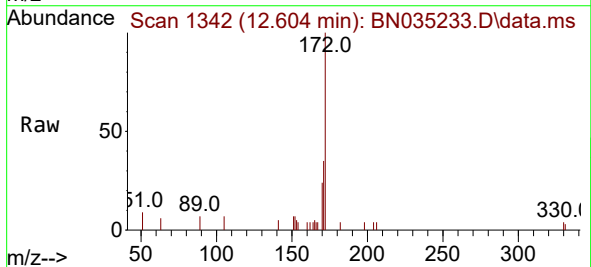


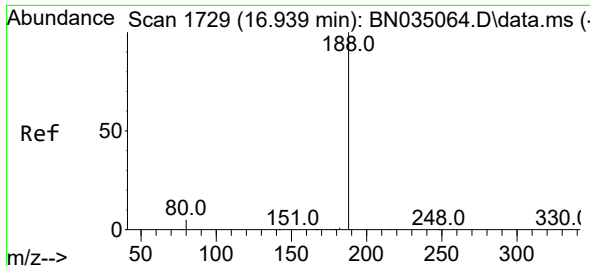
Tgt Ion:330 Resp: 728
Ion Ratio Lower Upper
330 100
332 0.0 76.9 115.3#
141 34.3 29.6 44.4



#15
2-Fluorobiphenyl
Concen: 0.083 ng
RT: 12.604 min Scan# 1342
Delta R.T. -0.004 min
Lab File: BN035233.D
Acq: 21 Nov 2024 21:49

Tgt Ion:172 Resp: 1463
Ion Ratio Lower Upper
172 100
171 35.2 28.2 42.4
170 23.7 19.0 28.6

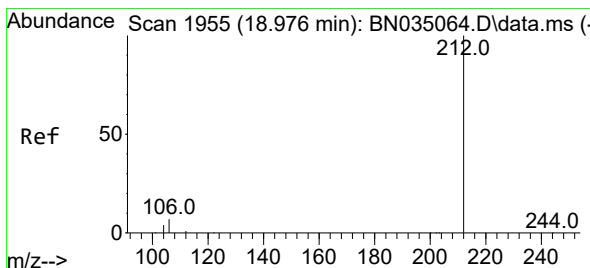
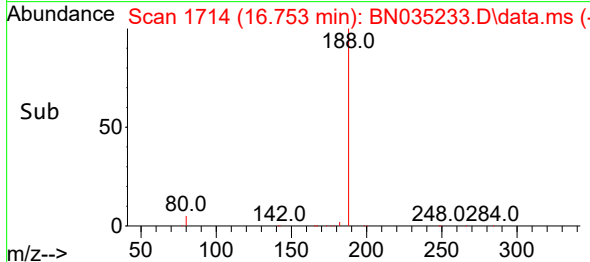
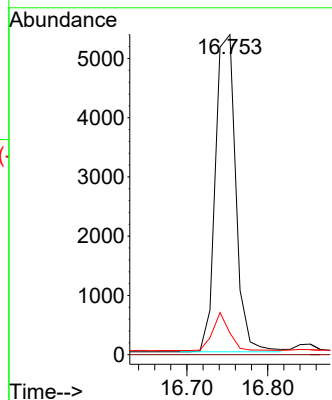
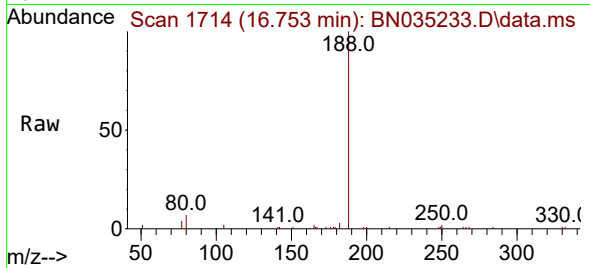




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.753 min Scan# 11
Delta R.T. 0.007 min
Lab File: BN035233.D
Acq: 21 Nov 2024 21:49

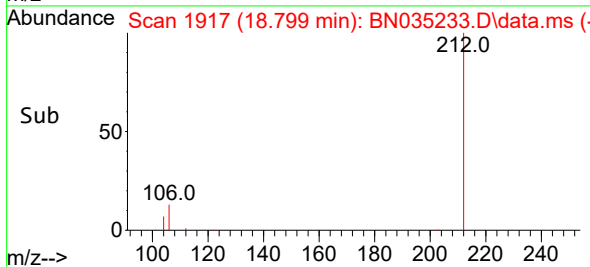
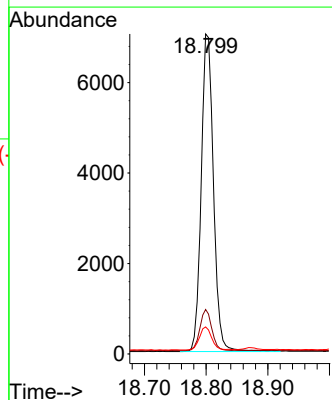
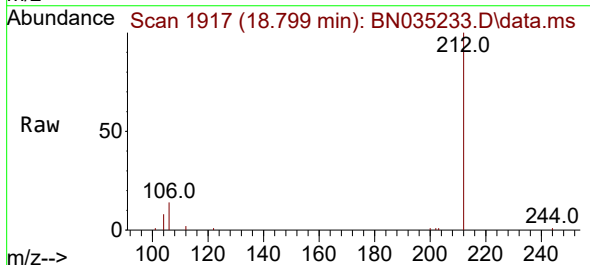
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ClientSampleId :
BPOW6-8-20241119

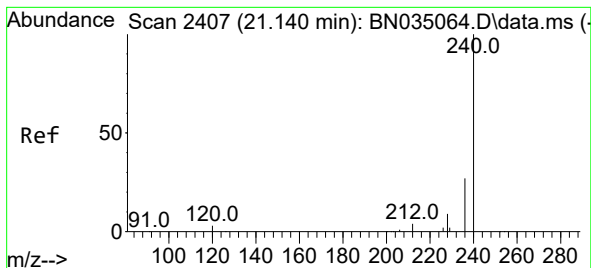
Tgt Ion:188 Resp: 9377
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 6.7 4.3 6.5#



#27
Fluoranthene-d10
Concen: 0.338 ng
RT: 18.799 min Scan# 1917
Delta R.T. -0.007 min
Lab File: BN035233.D
Acq: 21 Nov 2024 21:49

Tgt Ion:212 Resp: 9717
Ion Ratio Lower Upper
212 100
106 12.6 6.0 9.0#
104 7.3 3.5 5.3#





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.006 min Scan# 21

Delta R.T. -0.002 min

Lab File: BN035233.D

Acq: 21 Nov 2024 21:49

Instrument :

BNA_N

ClientSampleId :

BPOW6-8-20241119

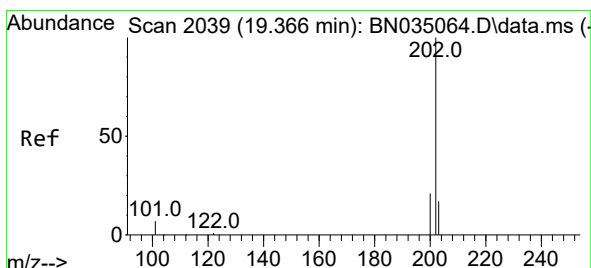
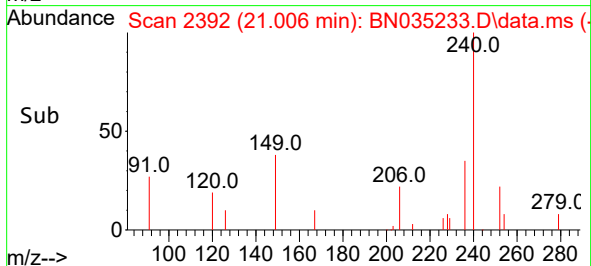
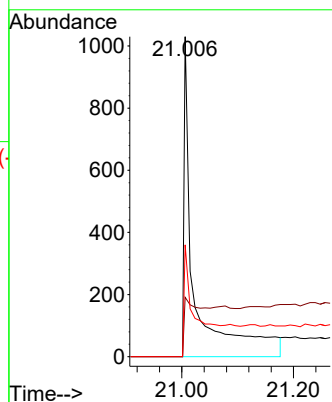
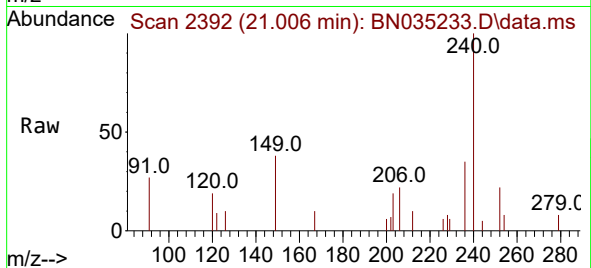
Tgt Ion:240 Resp: 1394

Ion Ratio Lower Upper

240 100

120 18.5 3.8 5.6#

236 35.0 22.2 33.2#



#30

Pyrene

Concen: 0.056 ng

RT: 19.199 min Scan# 2003

Delta R.T. -0.007 min

Lab File: BN035233.D

Acq: 21 Nov 2024 21:49

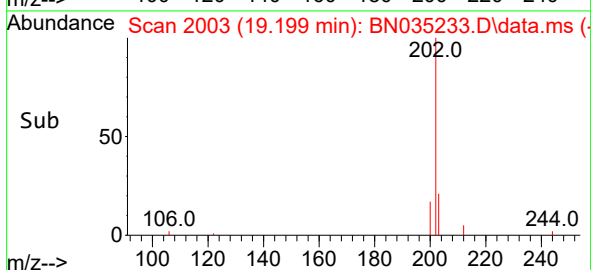
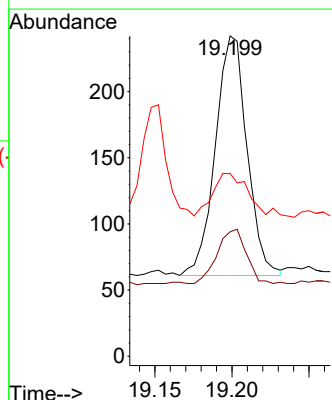
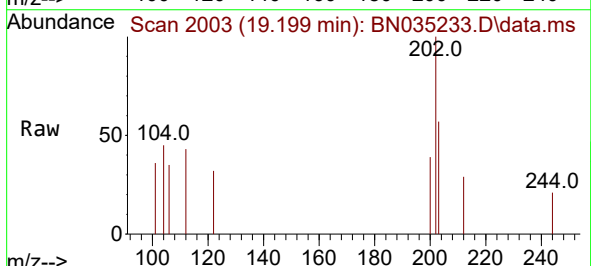
Tgt Ion:202 Resp: 259

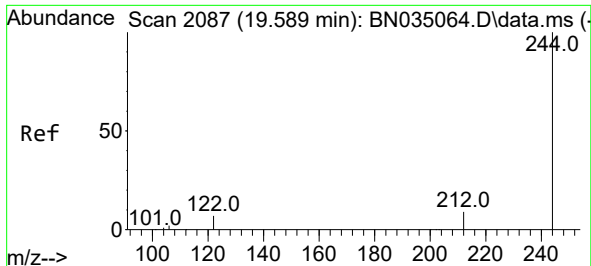
Ion Ratio Lower Upper

202 100

200 20.8 16.7 25.1

203 23.9 14.2 21.4#

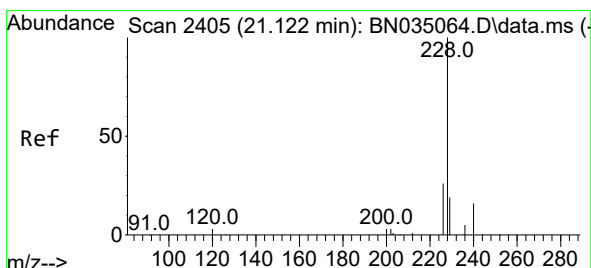
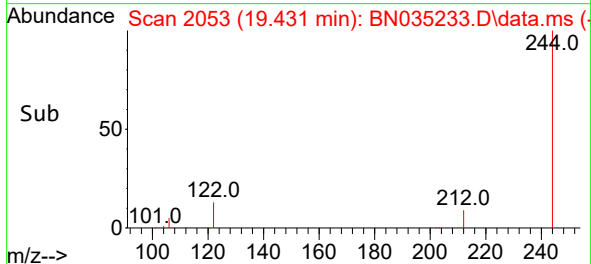
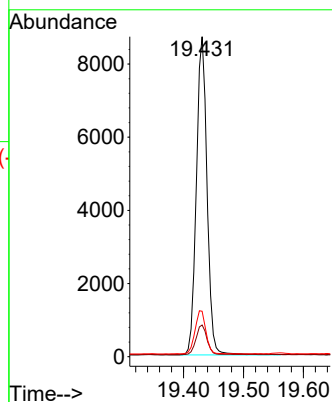
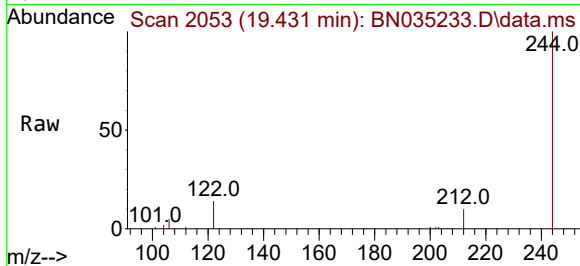




#31
 Terphenyl-d14
 Concen: 3.677 ng
 RT: 19.431 min Scan# 2087
 Delta R.T. -0.007 min
 Lab File: BN035233.D
 Acq: 21 Nov 2024 21:49

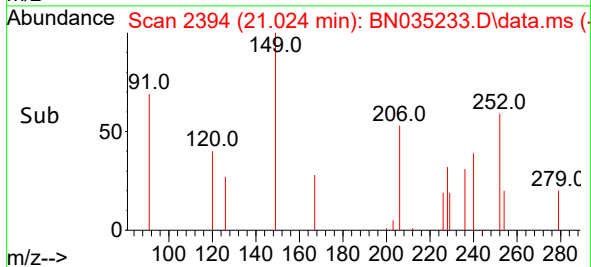
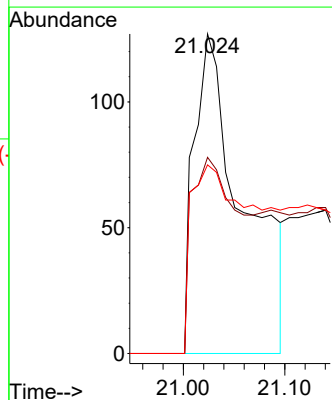
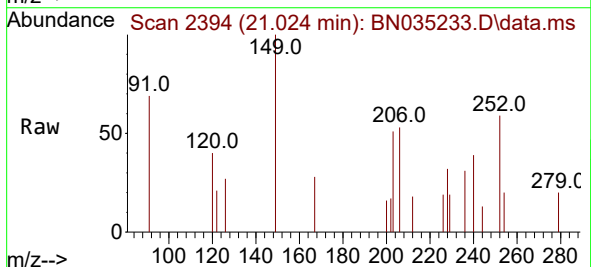
Instrument :
 BNA_N
 ClientSampleId :
 BPOW6-8-20241119

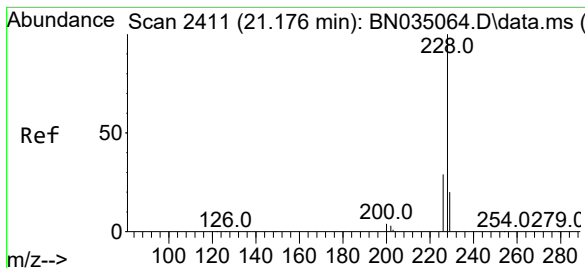
Tgt Ion:244 Resp: 10756
 Ion Ratio Lower Upper
 244 100
 212 9.9 7.6 11.4
 122 14.2 6.1 9.1#



#32
 Benzo(a)anthracene
 Concen: 0.083 ng
 RT: 21.024 min Scan# 2394
 Delta R.T. -0.011 min
 Lab File: BN035233.D
 Acq: 21 Nov 2024 21:49

Tgt Ion:228 Resp: 401
 Ion Ratio Lower Upper
 228 100
 226 61.4 21.4 32.0#
 229 59.1 15.7 23.5#





#33

Chrysene

Concen: 0.083 ng

RT: 21.024 min Scan# 21

Delta R.T. -0.011 min

Lab File: BN035233.D

Acq: 21 Nov 2024 21:49

Instrument :

BNA_N

ClientSampleId :

BPOW6-8-20241119

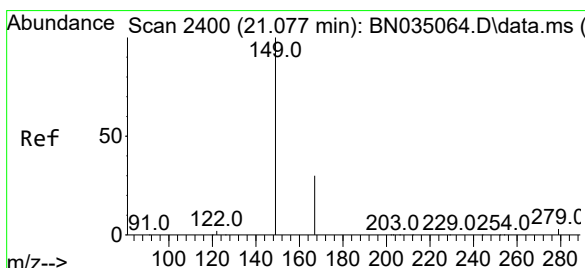
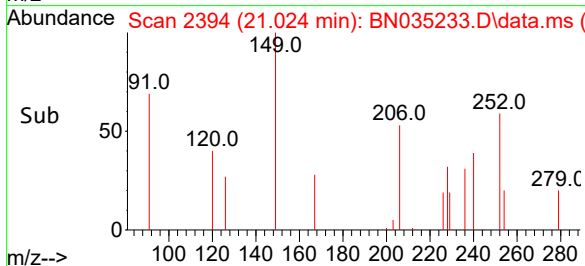
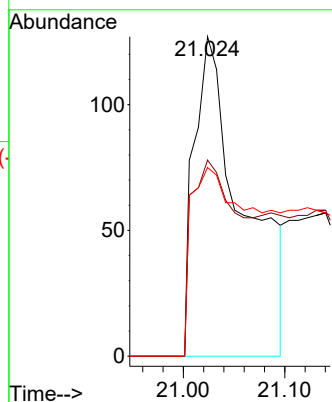
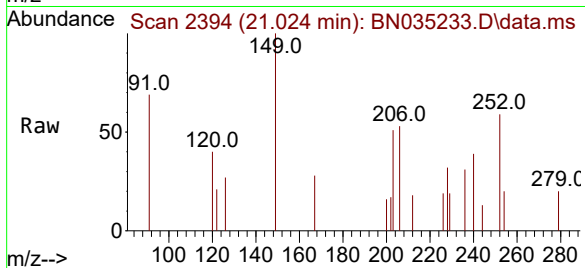
Tgt Ion:228 Resp: 401

Ion Ratio Lower Upper

228 100

226 61.4 23.7 35.5#

229 59.1 16.2 24.4#



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.267 ng

RT: 21.024 min Scan# 2394

Delta R.T. -0.002 min

Lab File: BN035233.D

Acq: 21 Nov 2024 21:49

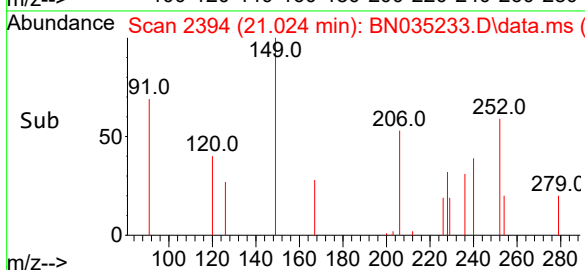
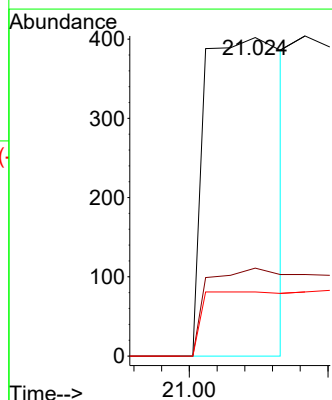
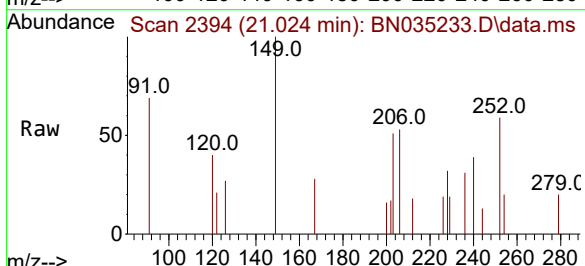
Tgt Ion:149 Resp: 679

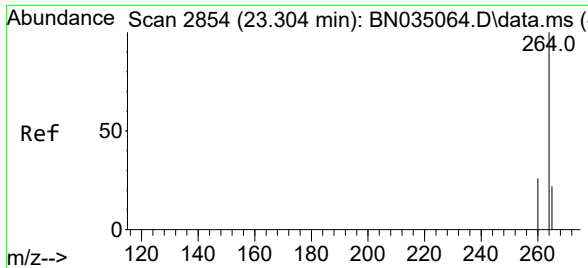
Ion Ratio Lower Upper

149 100

167 50.1 23.2 34.8#

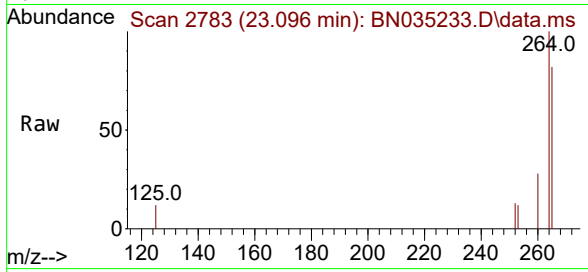
279 20.6 3.2 4.8#



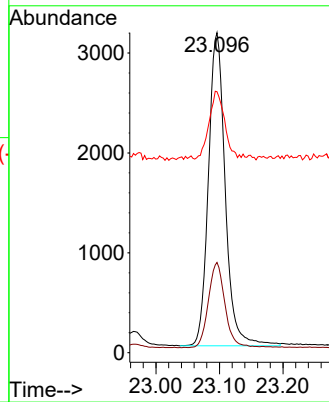
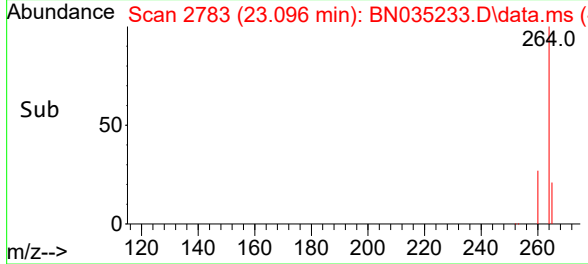


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.096 min Scan# 21
Delta R.T. -0.008 min
Lab File: BN035233.D
Acq: 21 Nov 2024 21:49

Instrument :
BNA_N
ClientSampleId :
BPOW6-8-20241119



Tgt Ion:264 Resp: 5766
Ion Ratio Lower Upper
264 100
260 28.2 20.9 31.3
265 81.6 35.4 53.2#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112124\
 Data File : BN035234.D
 Acq On : 21 Nov 2024 22:25
 Operator : RC/JU
 Sample : P4934-12
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 DUP02-20241119

Quant Time: Nov 21 23:06:32 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 21 14:00:03 2024
 Response via : Initial Calibration

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

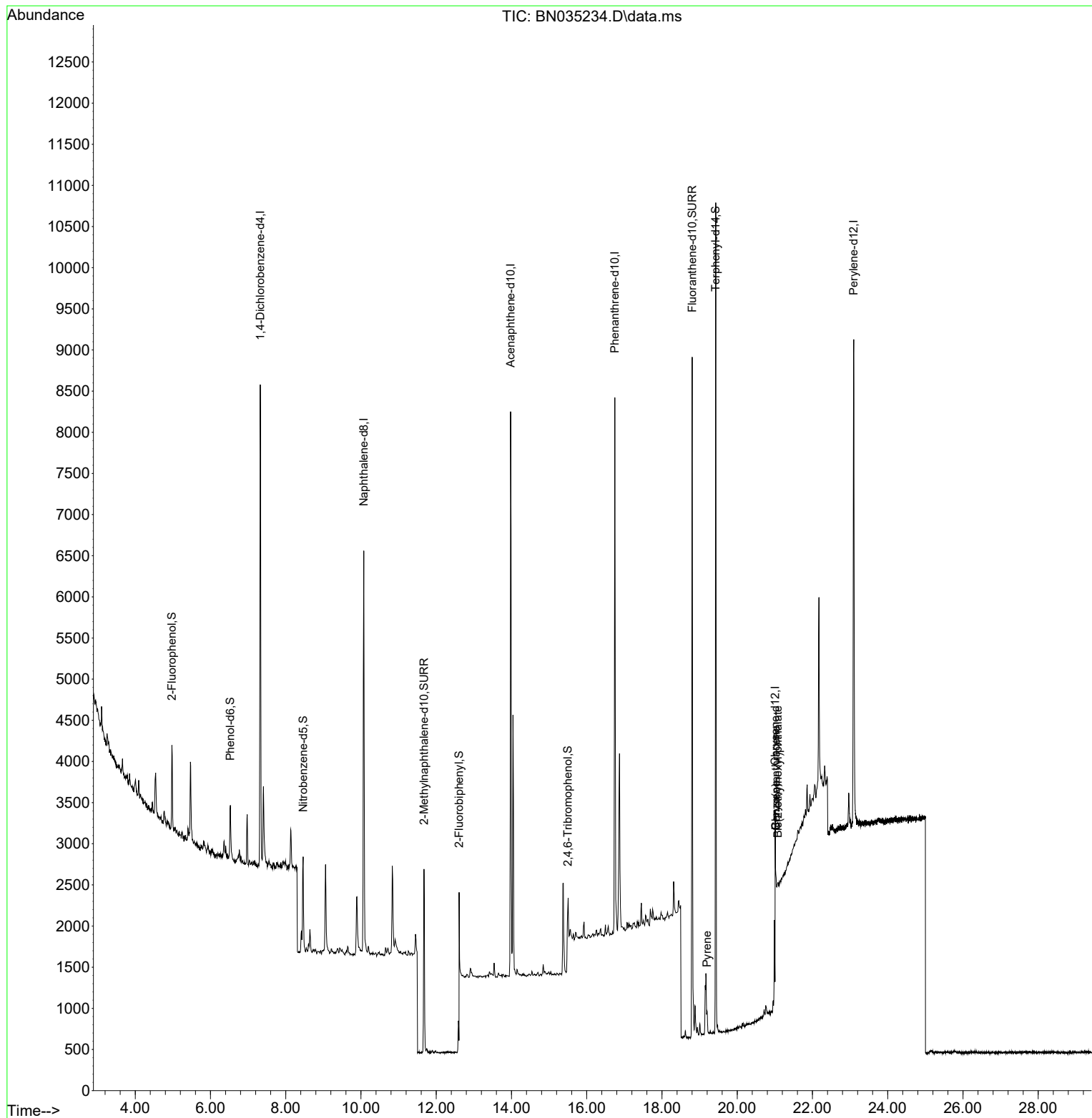
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.322	152	2771	0.400	ng	0.00
7) Naphthalene-d8	10.073	136	6431	0.400	ng	# 0.00
13) Acenaphthene-d10	13.976	164	3947	0.400	ng	-0.01
19) Phenanthrene-d10	16.746	188	8351	0.400	ng	# 0.00
29) Chrysene-d12	21.008	240	946	0.400	ng	# 0.00
35) Perylene-d12	23.095	264	7194	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.975	112	860	0.122	ng	0.00
5) Phenol-d6	6.528	99	592	0.067	ng	0.00
8) Nitrobenzene-d5	8.461	82	1281	0.229	ng	0.00
11) 2-Methylnaphthalene-d10	11.674	152	3096	0.270	ng	0.00
14) 2,4,6-Tribromophenol	15.494	330	720	0.253	ng	0.00
15) 2-Fluorobiphenyl	12.608	172	1009	0.063	ng	0.00
27) Fluoranthene-d10	18.801	212	9165	0.358	ng	0.00
31) Terphenyl-d14	19.429	244	9237	4.653	ng	0.00
Target Compounds						Qvalue
30) Pyrene	19.201	202	225	0.071	ng	# 95
32) Benzo(a)anthracene	21.026	228	436	0.132	ng	# 29
33) Chrysene	21.026	228	436	0.134	ng	# 35
34) Bis(2-ethylhexyl)phtha...	21.080	149	1894	1.096	ng	# 51

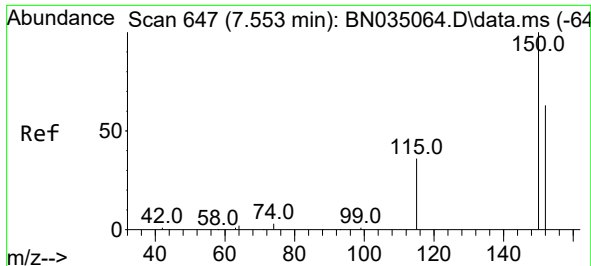
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112124\
Data File : BN035234.D
Acq On : 21 Nov 2024 22:25
Operator : RC/JU
Sample : P4934-12
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DUP02-20241119

Quant Time: Nov 21 23:06:32 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 14:00:03 2024
Response via : Initial Calibration

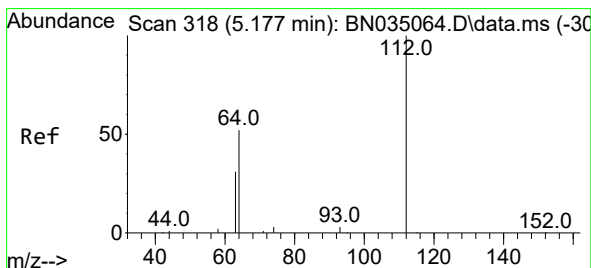
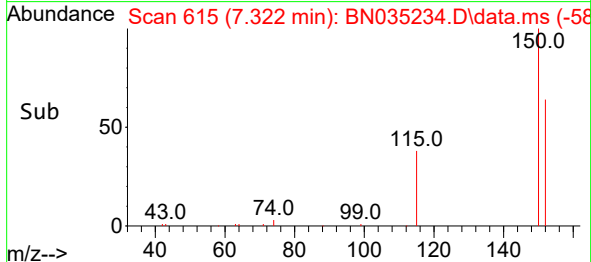
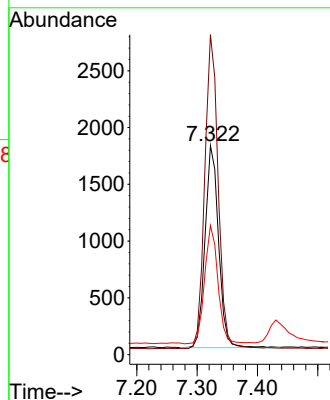
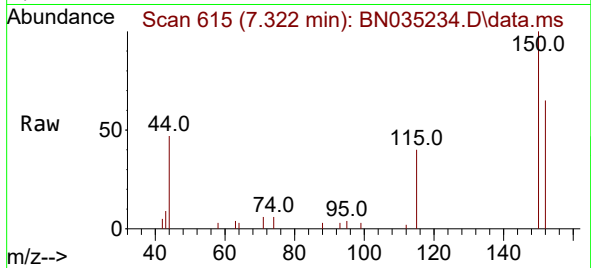




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.322 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN035234.D
Acq: 21 Nov 2024 22:25

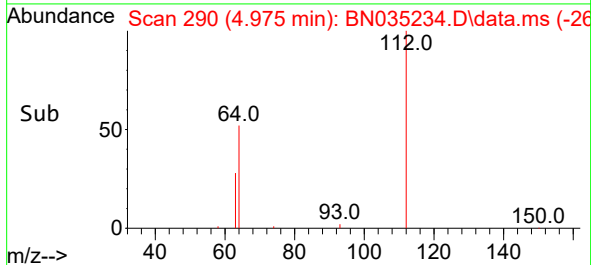
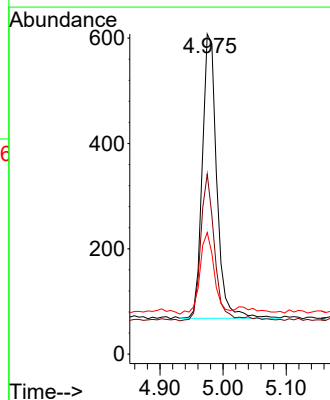
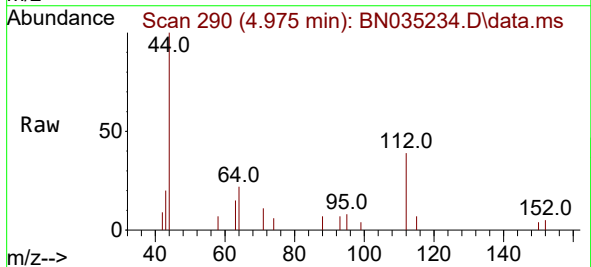
Instrument :
BNA_N
ClientSampleId :
DUP02-20241119

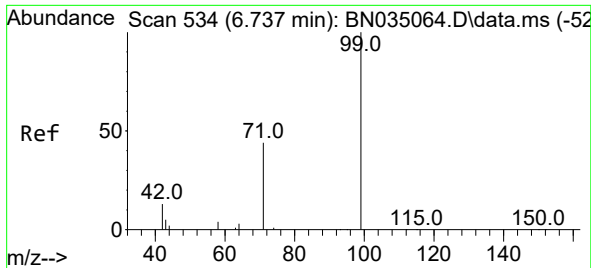
Tgt Ion:152 Resp: 2771
Ion Ratio Lower Upper
152 100
150 153.1 124.5 186.7
115 61.8 47.8 71.6



#4
2-Fluorophenol
Concen: 0.122 ng
RT: 4.975 min Scan# 290
Delta R.T. -0.007 min
Lab File: BN035234.D
Acq: 21 Nov 2024 22:25

Tgt Ion:112 Resp: 860
Ion Ratio Lower Upper
112 100
64 50.8 39.7 59.5
63 28.3 23.0 34.4

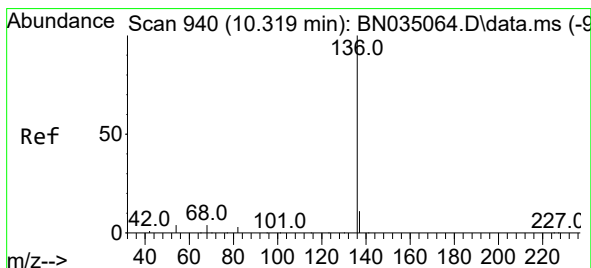
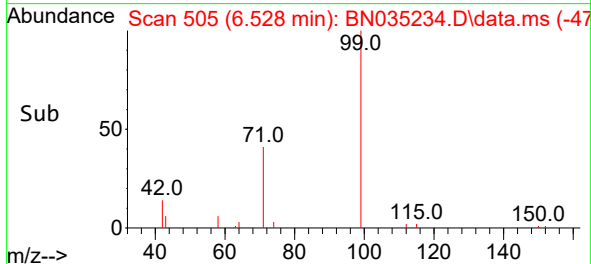
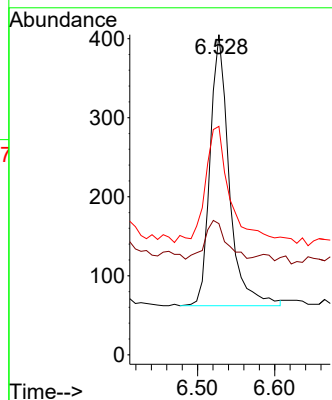
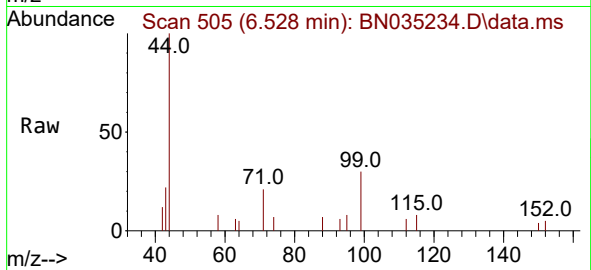




#5
Phenol-d6
Concen: 0.067 ng
RT: 6.528 min Scan# 50
Delta R.T. -0.000 min
Lab File: BN035234.D
Acq: 21 Nov 2024 22:25

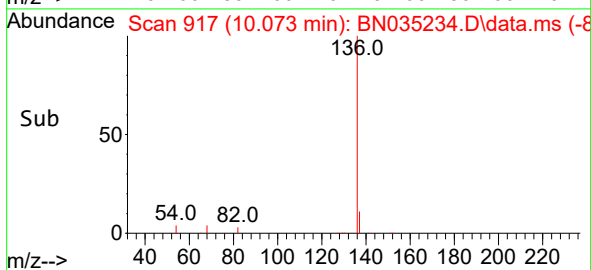
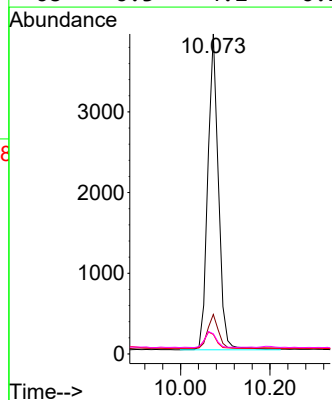
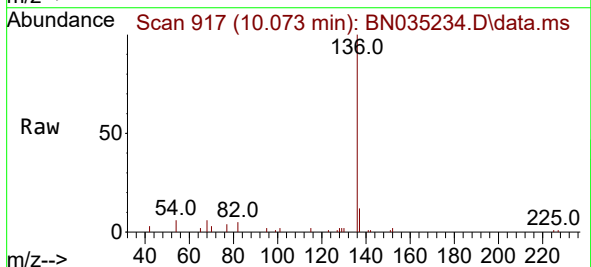
Instrument :
BNA_N
ClientSampleId :
DUP02-20241119

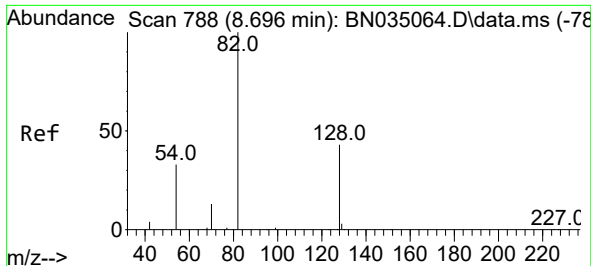
Tgt Ion: 99 Resp: 592
Ion Ratio Lower Upper
99 100
42 16.0 11.4 17.0
71 63.2 34.6 51.8#



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.073 min Scan# 917
Delta R.T. -0.000 min
Lab File: BN035234.D
Acq: 21 Nov 2024 22:25

Tgt Ion: 136 Resp: 6431
Ion Ratio Lower Upper
136 100
137 12.3 9.8 14.8
54 6.1 4.0 6.0#
68 6.3 4.2 6.2#

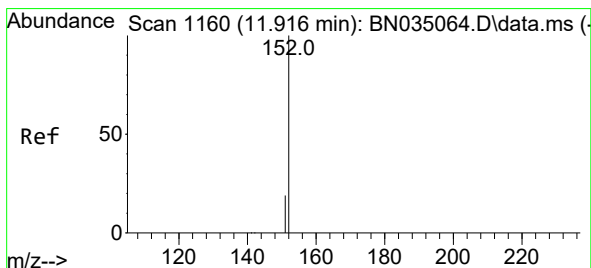
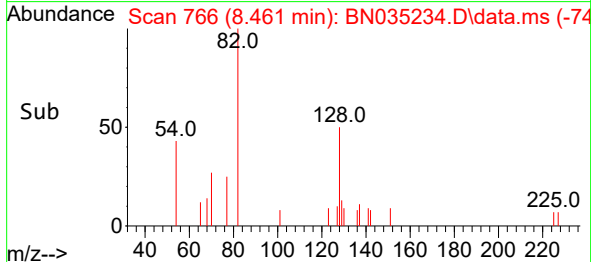
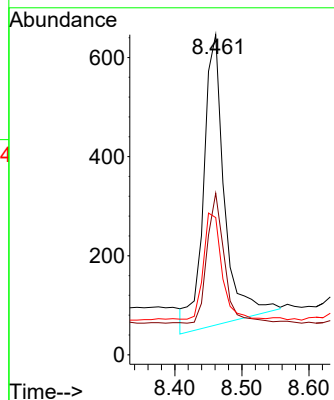
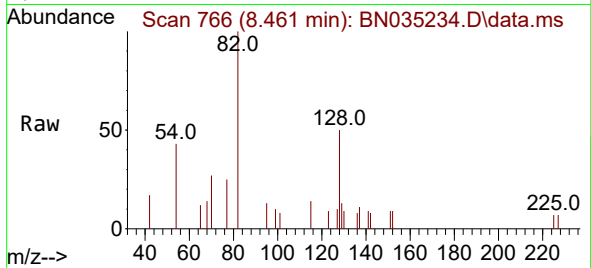




#8
Nitrobenzene-d5
Concen: 0.229 ng
RT: 8.461 min Scan# 70
Delta R.T. -0.000 min
Lab File: BN035234.D
Acq: 21 Nov 2024 22:25

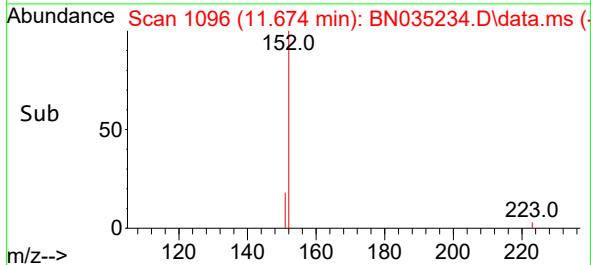
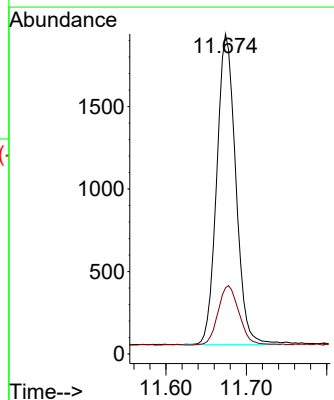
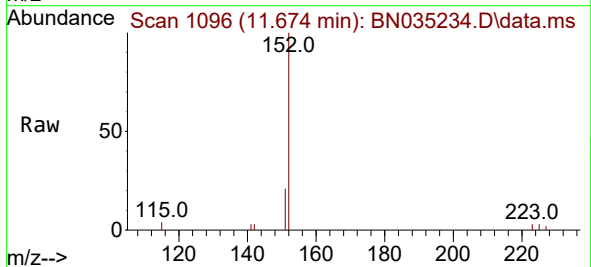
Instrument :
BNA_N
ClientSampleId :
DUP02-20241119

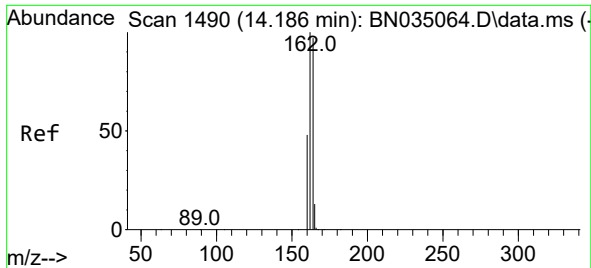
Tgt Ion: 82 Resp: 1281
Ion Ratio Lower Upper
82 100
128 50.5 36.5 54.7
54 42.9 28.7 43.1



#11
2-Methylnaphthalene-d10
Concen: 0.270 ng
RT: 11.674 min Scan# 1096
Delta R.T. -0.004 min
Lab File: BN035234.D
Acq: 21 Nov 2024 22:25

Tgt Ion:152 Resp: 3096
Ion Ratio Lower Upper
152 100
151 21.1 16.2 24.4

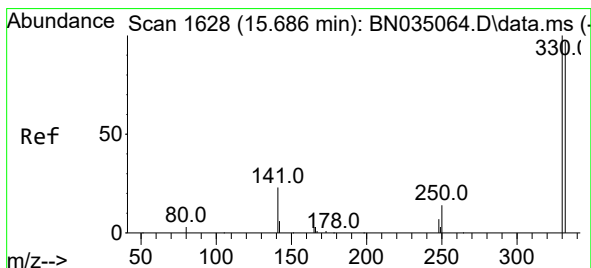
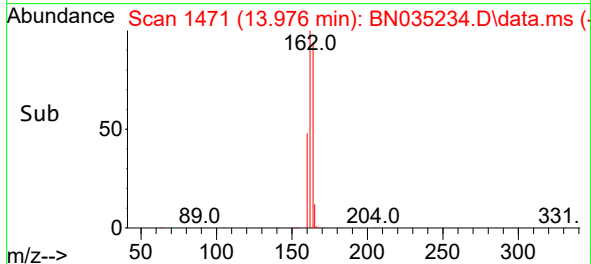
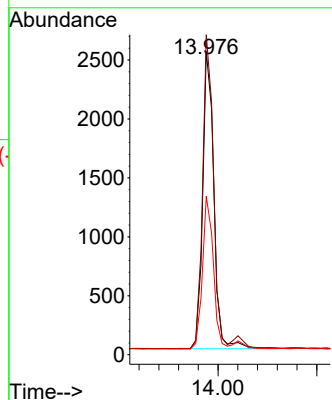
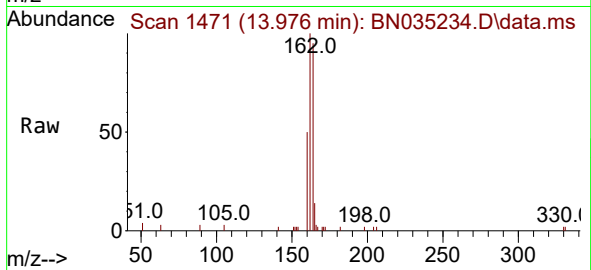




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.976 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035234.D
Acq: 21 Nov 2024 22:25

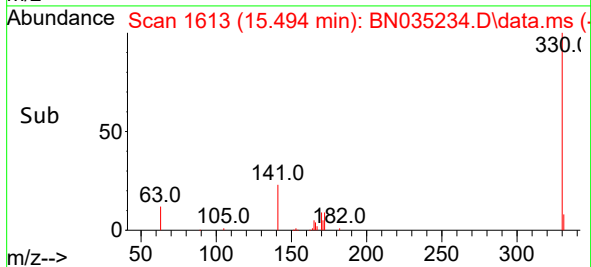
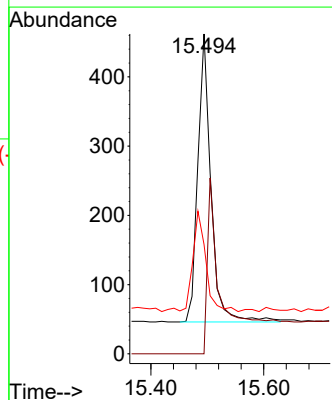
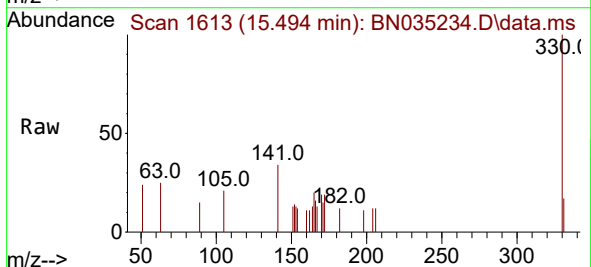
Instrument :
BNA_N
ClientSampleId :
DUP02-20241119

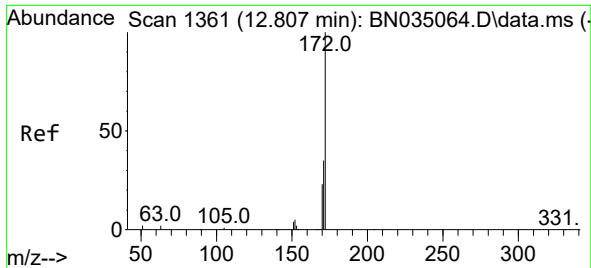
Tgt Ion:164 Resp: 3947
Ion Ratio Lower Upper
164 100
162 105.6 82.2 123.2
160 52.3 40.2 60.4



#14
2,4,6-Tribromophenol
Concen: 0.253 ng
RT: 15.494 min Scan# 1613
Delta R.T. -0.000 min
Lab File: BN035234.D
Acq: 21 Nov 2024 22:25

Tgt Ion:330 Resp: 720
Ion Ratio Lower Upper
330 100
332 82.5 76.9 115.3
141 0.0 29.6 44.4#

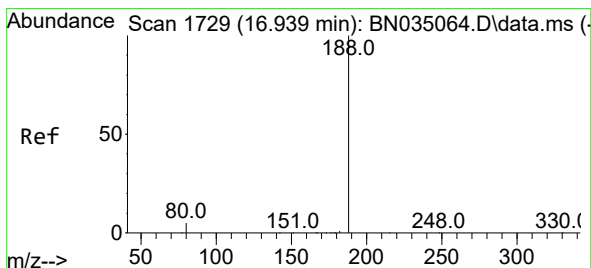
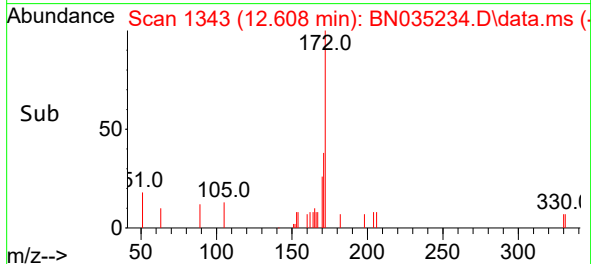
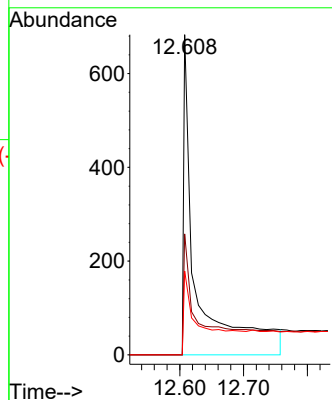
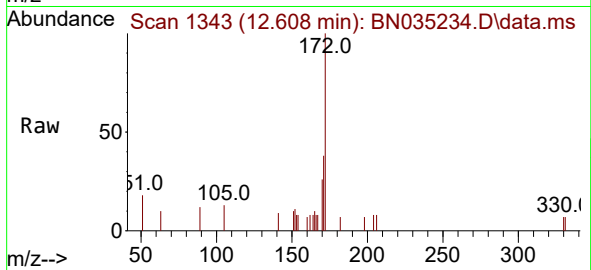




#15
2-Fluorobiphenyl
Concen: 0.063 ng
RT: 12.608 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN035234.D
Acq: 21 Nov 2024 22:25

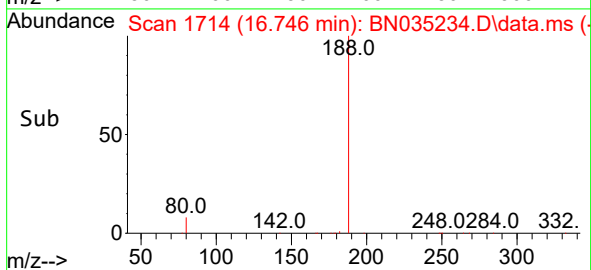
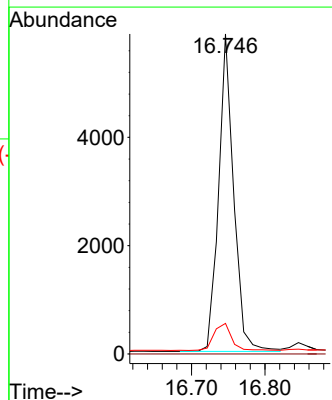
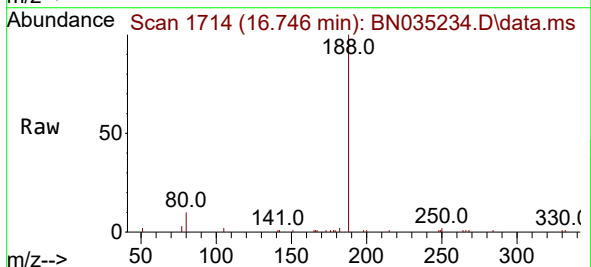
Instrument :
BNA_N
ClientSampleId :
DUP02-20241119

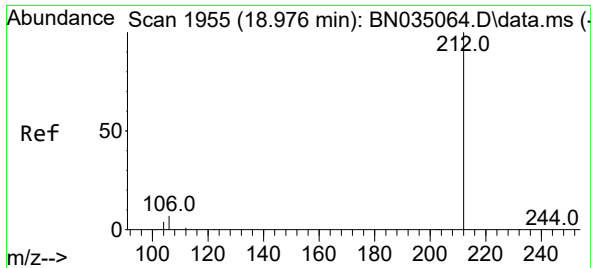
Tgt Ion:172 Resp: 1009
Ion Ratio Lower Upper
172 100
171 37.8 28.2 42.4
170 26.2 19.0 28.6



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.746 min Scan# 1714
Delta R.T. -0.000 min
Lab File: BN035234.D
Acq: 21 Nov 2024 22:25

Tgt Ion:188 Resp: 8351
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 9.6 4.3 6.5

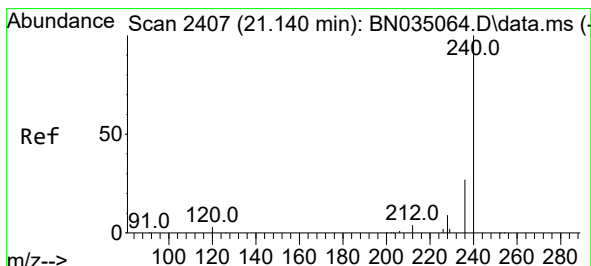
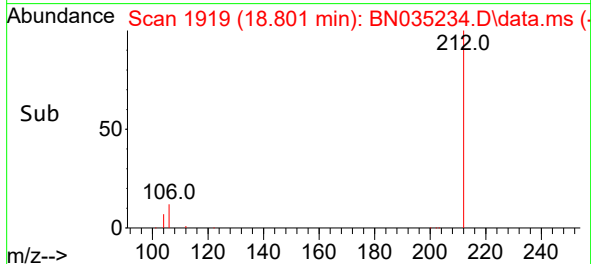
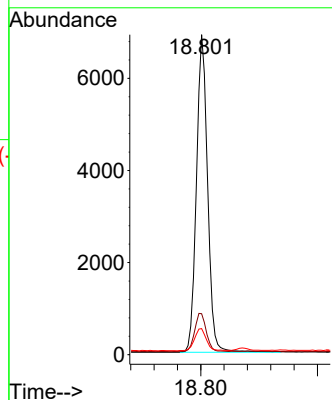
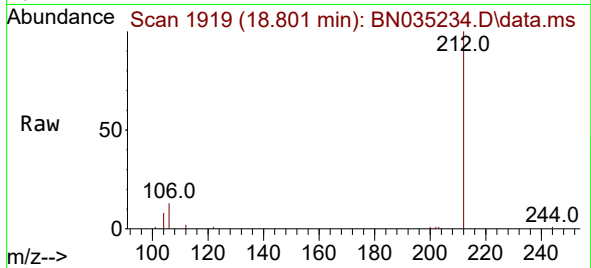




#27
Fluoranthene-d10
Concen: 0.358 ng
RT: 18.801 min Scan# 1919
Delta R.T. -0.005 min
Lab File: BN035234.D
Acq: 21 Nov 2024 22:25

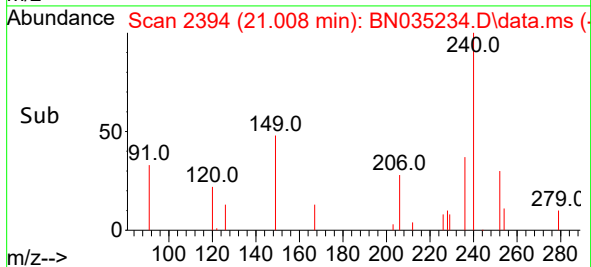
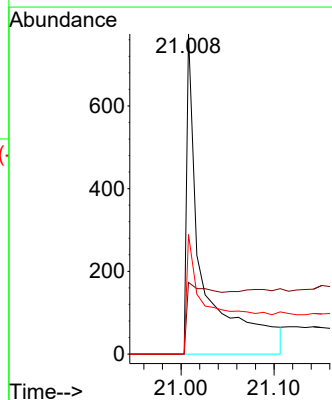
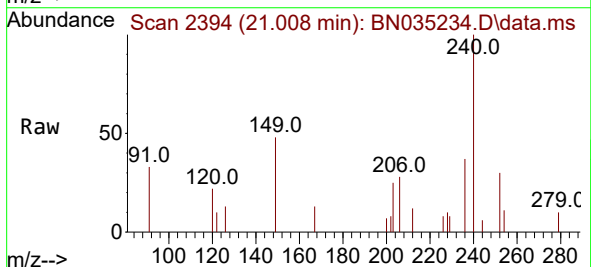
Instrument :
BNA_N
ClientSampleId :
DUP02-20241119

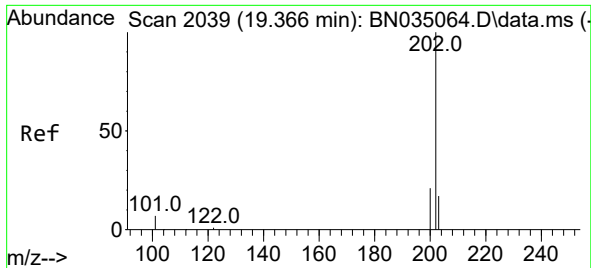
Tgt Ion:212 Resp: 9165
Ion Ratio Lower Upper
212 100
106 12.5 6.0 9.0#
104 7.5 3.5 5.3#



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.008 min Scan# 2394
Delta R.T. -0.000 min
Lab File: BN035234.D
Acq: 21 Nov 2024 22:25

Tgt Ion:240 Resp: 946
Ion Ratio Lower Upper
240 100
120 22.4 3.8 5.6#
236 37.3 22.2 33.2#

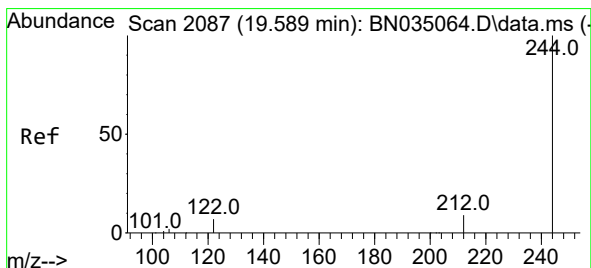
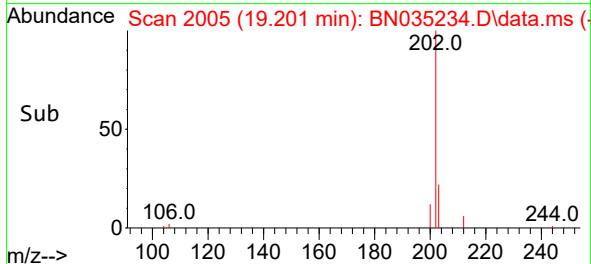
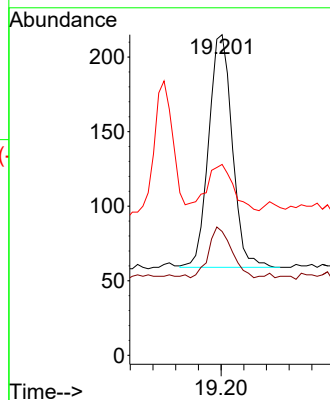
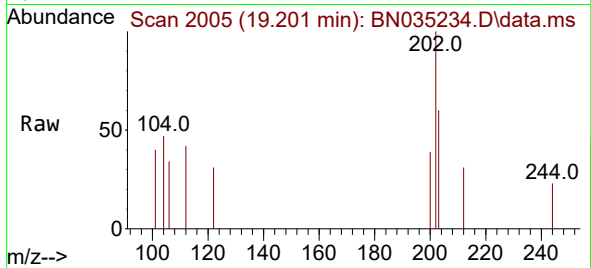




#30
Pyrene
Concen: 0.071 ng
RT: 19.201 min Scan# 2005
Delta R.T. -0.005 min
Lab File: BN035234.D
Acq: 21 Nov 2024 22:25

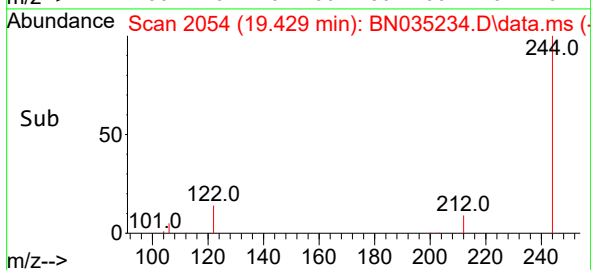
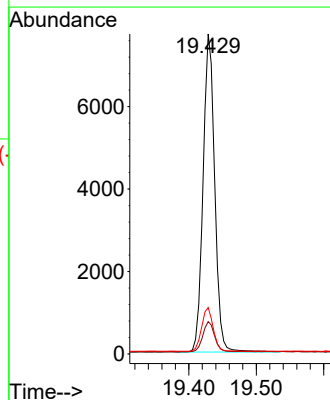
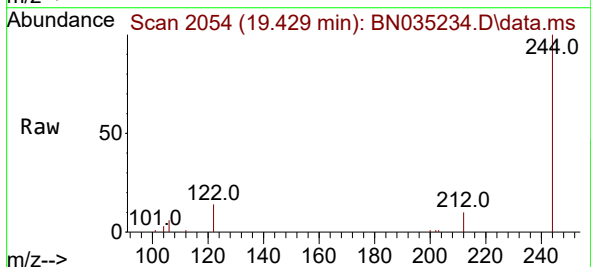
Instrument :
BNA_N
ClientSampleId :
DUP02-20241119

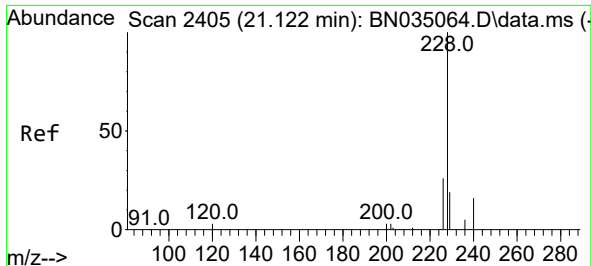
Tgt Ion:202 Resp: 225
Ion Ratio Lower Upper
202 100
200 20.9 16.7 25.1
203 22.7 14.2 21.4#



#31
Terphenyl-d14
Concen: 4.653 ng
RT: 19.429 min Scan# 2054
Delta R.T. -0.009 min
Lab File: BN035234.D
Acq: 21 Nov 2024 22:25

Tgt Ion:244 Resp: 9237
Ion Ratio Lower Upper
244 100
212 10.1 7.6 11.4
122 14.5 6.1 9.1#

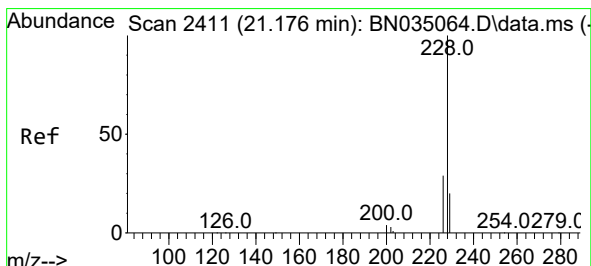
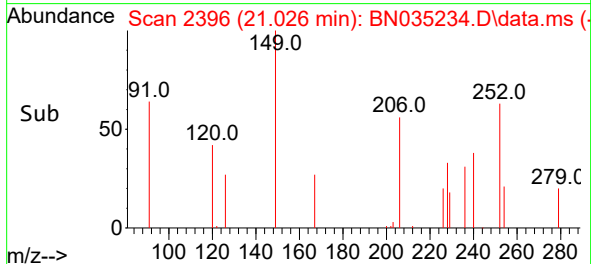
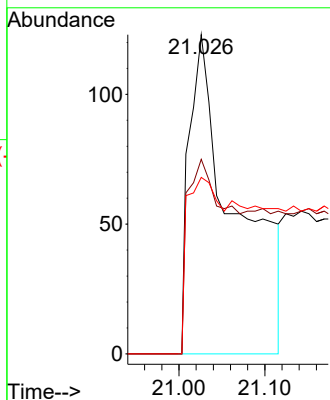
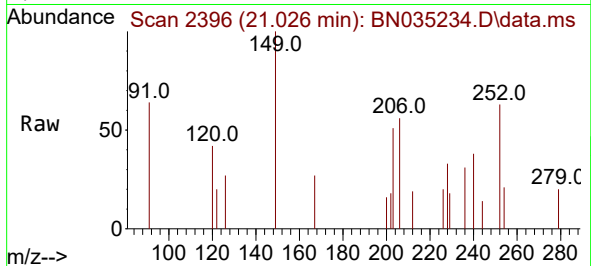




#32
Benzo(a)anthracene
Concen: 0.132 ng
RT: 21.026 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN035234.D
Acq: 21 Nov 2024 22:25

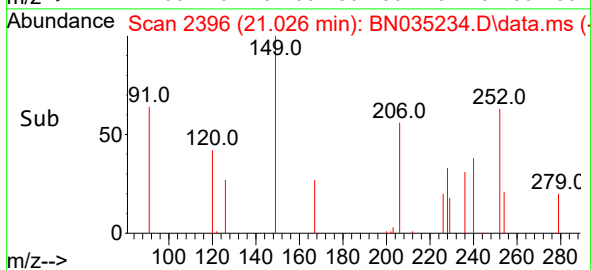
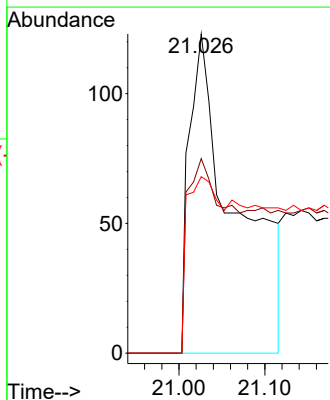
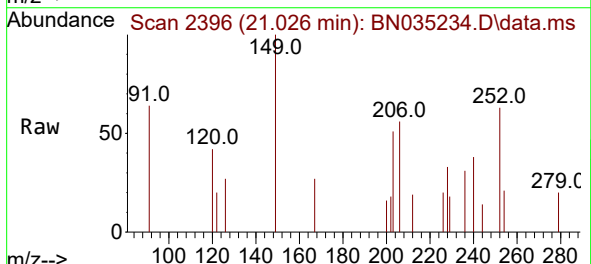
Instrument :
BNA_N
ClientSampleId :
DUP02-20241119

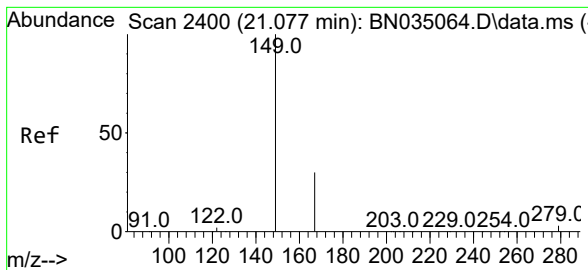
Tgt Ion:228 Resp: 436
Ion Ratio Lower Upper
228 100
226 61.0 21.4 32.0#
229 55.3 15.7 23.5#



#33
Chrysene
Concen: 0.134 ng
RT: 21.026 min Scan# 2396
Delta R.T. -0.009 min
Lab File: BN035234.D
Acq: 21 Nov 2024 22:25

Tgt Ion:228 Resp: 436
Ion Ratio Lower Upper
228 100
226 61.0 23.7 35.5#
229 55.3 16.2 24.4#

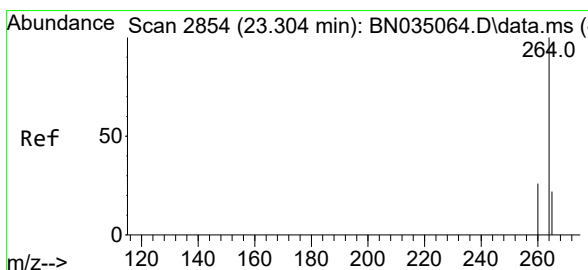
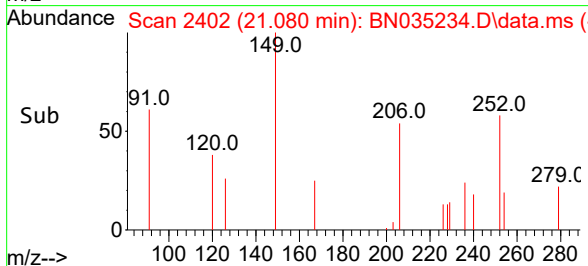
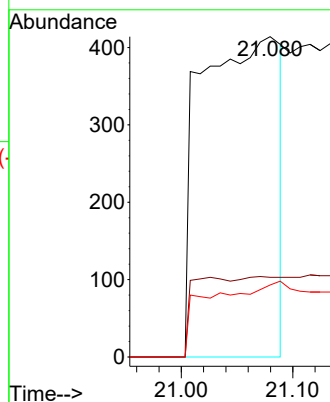
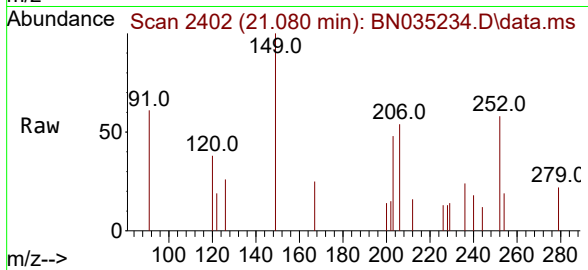




#34
 Bis(2-ethylhexyl)phthalate
 Concen: 1.096 ng
 RT: 21.080 min Scan# 2402
 Delta R.T. 0.054 min
 Lab File: BN035234.D
 Acq: 21 Nov 2024 22:25

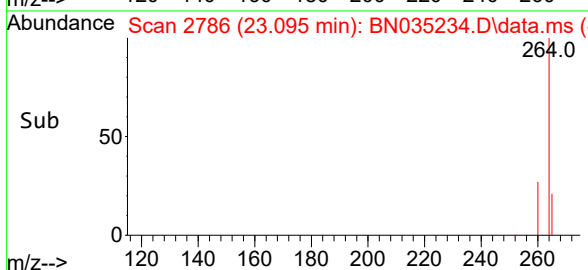
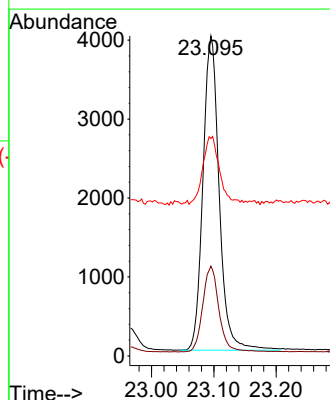
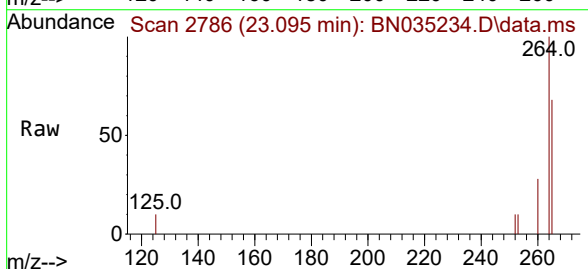
Instrument :
 BNA_N
 ClientSampleId :
 DUP02-20241119

Tgt Ion:149 Resp: 1894
 Ion Ratio Lower Upper
 149 100
 167 0.0 23.2 34.8#
 279 0.0 3.2 4.8#



#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.095 min Scan# 2786
 Delta R.T. -0.009 min
 Lab File: BN035234.D
 Acq: 21 Nov 2024 22:25

Tgt Ion:264 Resp: 7194
 Ion Ratio Lower Upper
 264 100
 260 28.1 20.9 31.3
 265 67.9 35.4 53.2#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112124\
 Data File : BN035235.D
 Acq On : 21 Nov 2024 23:01
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Nov 21 23:33:46 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 21 14:00:03 2024
 Response via : Initial Calibration

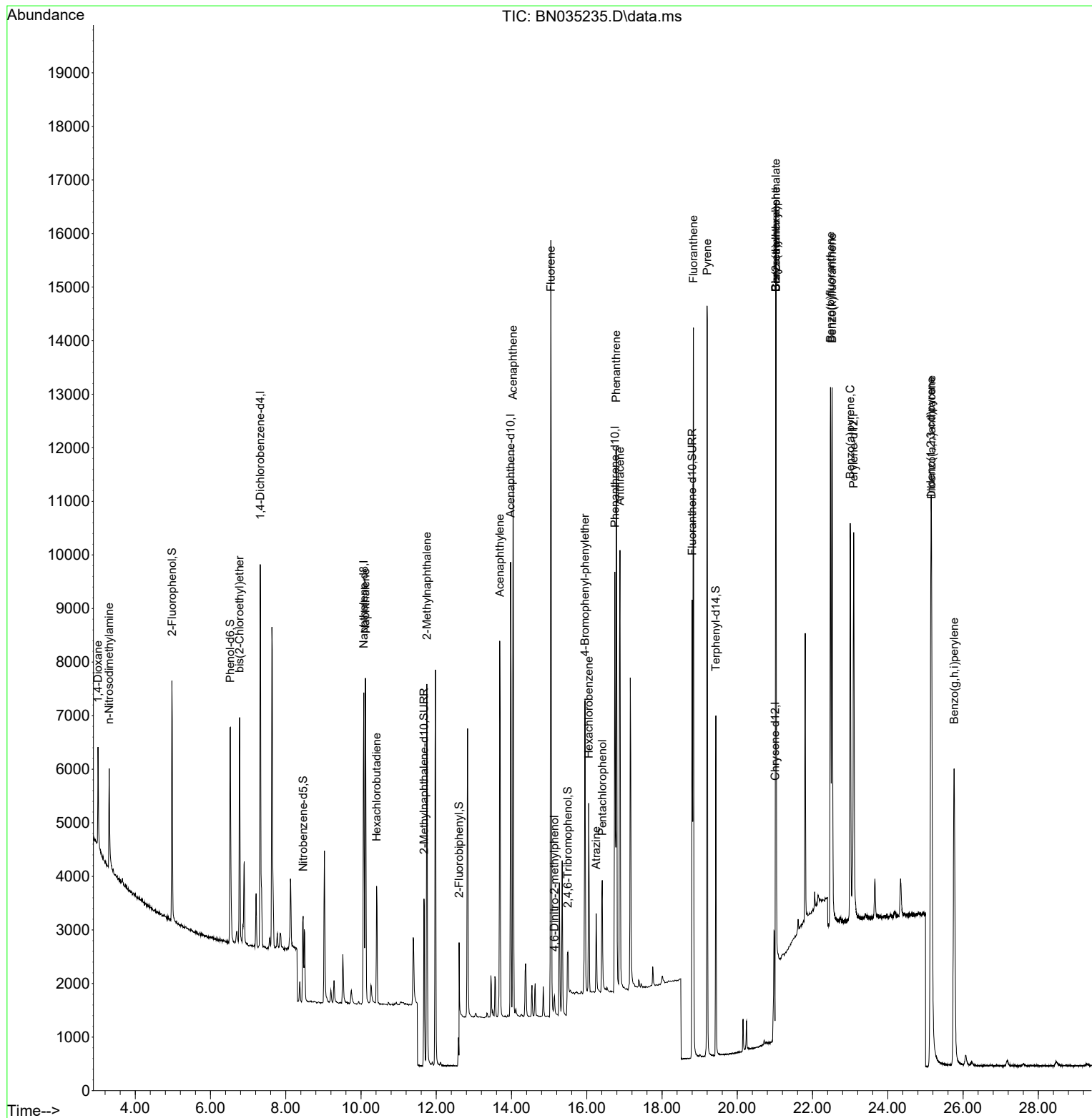
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.322	152	3350	0.400	ng	0.00
7) Naphthalene-d8	10.073	136	7674	0.400	ng	0.00
13) Acenaphthene-d10	13.976	164	4706	0.400	ng	-0.01
19) Phenanthrene-d10	16.746	188	9785	0.400	ng	# 0.00
29) Chrysene-d12	21.008	240	924	0.400	ng	# 0.00
35) Perylene-d12	23.092	264	8785	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.975	112	3641	0.428	ng	0.00
5) Phenol-d6	6.528	99	4263	0.400	ng	0.00
8) Nitrobenzene-d5	8.461	82	1602	0.240	ng	0.00
11) 2-Methylnaphthalene-d10	11.674	152	4455	0.326	ng	0.00
14) 2,4,6-Tribromophenol	15.494	330	1140	0.336	ng	0.00
15) 2-Fluorobiphenyl	12.608	172	1202	0.063	ng	0.00
27) Fluoranthene-d10	18.802	212	9657	0.322	ng	0.00
31) Terphenyl-d14	19.429	244	6336	3.268	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.011	88	1275	0.419	ng	92
3) n-Nitrosodimethylamine	3.307	42	994	0.351	ng	# 88
6) bis(2-Chloroethyl)ether	6.773	93	3222	0.403	ng	97
9) Naphthalene	10.116	128	7849	0.392	ng	100
10) Hexachlorobutadiene	10.415	225	1778	0.303	ng	# 99
12) 2-Methylnaphthalene	11.750	142	5199	0.352	ng	96
16) Acenaphthylene	13.688	152	7880	0.392	ng	99
17) Acenaphthene	14.040	154	5046	0.383	ng	98
18) Fluorene	15.045	166	6711	0.346	ng	99
20) 4,6-Dinitro-2-methylph...	15.142	198	322	0.158	ng	# 47
21) 4-Bromophenyl-phenylether	15.952	248	2324	0.373	ng	# 84
22) Hexachlorobenzene	16.051	284	2690	0.416	ng	98
23) Atrazine	16.250	200	1260	0.225	ng	95
24) Pentachlorophenol	16.411	266	1189	0.393	ng	97
25) Phenanthrene	16.784	178	10390	0.403	ng	99
26) Anthracene	16.883	178	9521	0.403	ng	99
28) Fluoranthene	18.834	202	12485	0.353	ng	# 97
30) Pyrene	19.201	202	12814	4.164	ng	99
32) Benzo(a)anthracene	21.026	228	11745	3.650	ng	96
33) Chrysene	21.026	228	11745	3.685	ng	99
34) Bis(2-ethylhexyl)phtha...	21.026	149	1040	0.616	ng	# 85
36) Indeno(1,2,3-cd)pyrene	25.145	276	13630	0.389	ng	# 90
37) Benzo(b)fluoranthene	22.475	252	11553	0.391	ng	# 95
38) Benzo(k)fluoranthene	22.519	252	11920	0.403	ng	# 94
39) Benzo(a)pyrene	23.002	252	10296	0.396	ng	# 93
40) Dibenzo(a,h)anthracene	25.162	278	10355	0.373	ng	# 90
41) Benzo(g,h,i)perylene	25.762	276	11294	0.382	ng	# 91

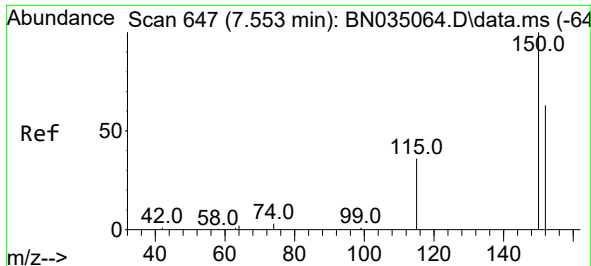
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112124\
Data File : BN035235.D
Acq On : 21 Nov 2024 23:01
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

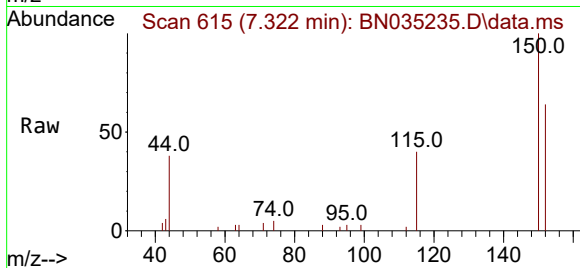
Quant Time: Nov 21 23:33:46 2024
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 14:00:03 2024
Response via : Initial Calibration



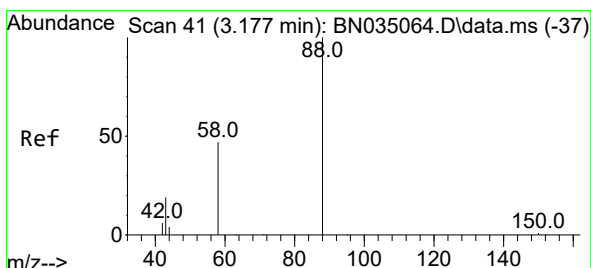
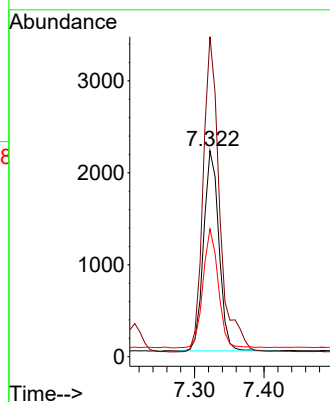
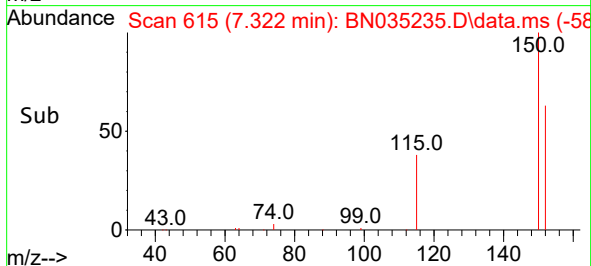


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.322 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

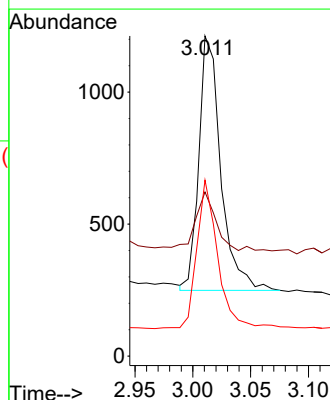
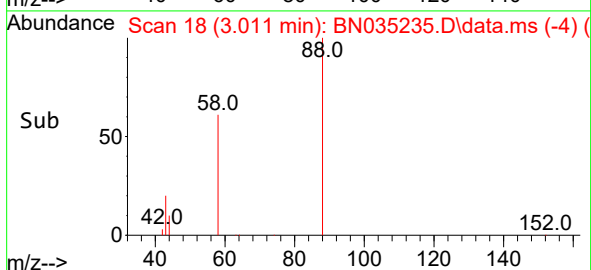
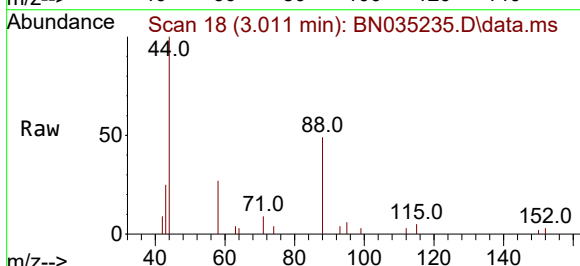


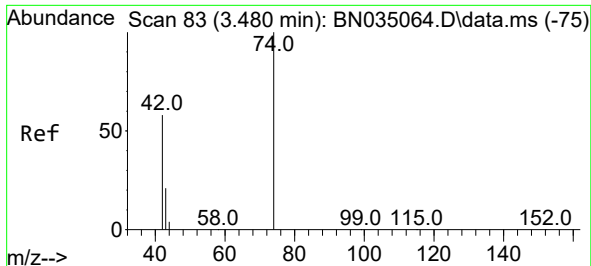
Tgt Ion:152 Resp: 3350
Ion Ratio Lower Upper
152 100
150 155.4 124.5 186.7
115 62.1 47.8 71.6



#2
1,4-Dioxane
Concen: 0.419 ng
RT: 3.011 min Scan# 18
Delta R.T. -0.000 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

Tgt Ion: 88 Resp: 1275
Ion Ratio Lower Upper
88 100
43 22.0 16.9 25.3
58 56.2 39.0 58.4

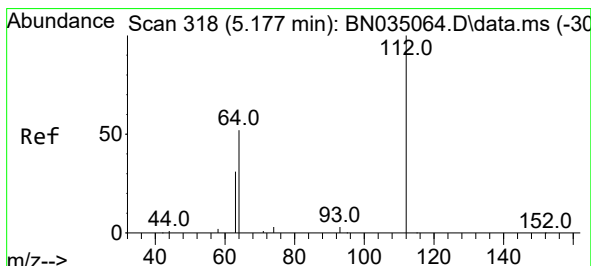
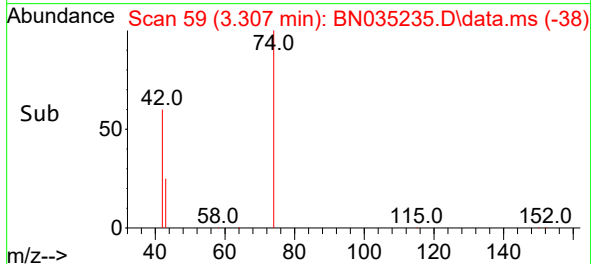
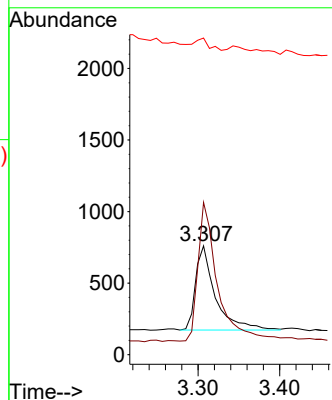
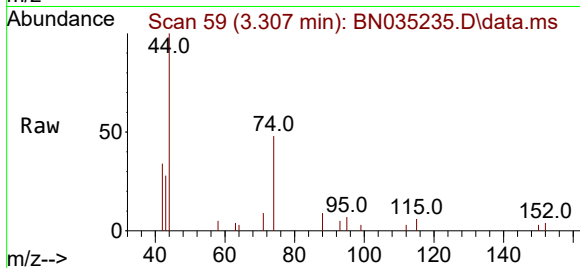




#3
n-Nitrosodimethylamine
Concen: 0.351 ng
RT: 3.307 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

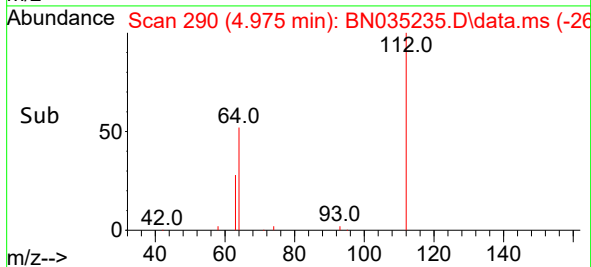
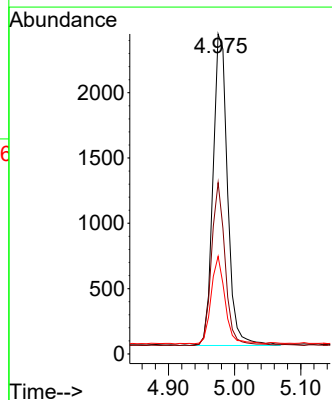
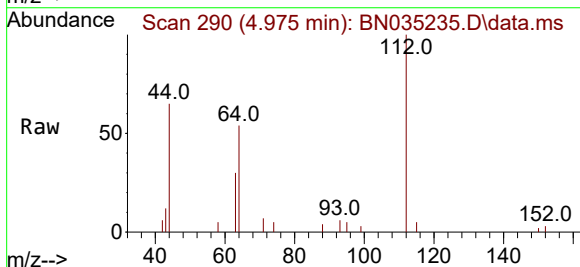
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

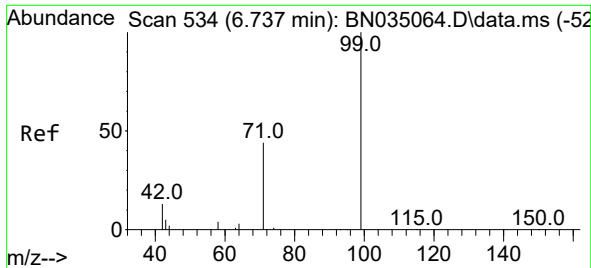
Tgt Ion: 42 Resp: 994
Ion Ratio Lower Upper
42 100
74 166.1 120.8 181.2
44 10.4 2.9 4.3#



#4
2-Fluorophenol
Concen: 0.428 ng
RT: 4.975 min Scan# 290
Delta R.T. -0.007 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

Tgt Ion: 112 Resp: 3641
Ion Ratio Lower Upper
112 100
64 48.9 39.7 59.5
63 26.9 23.0 34.4

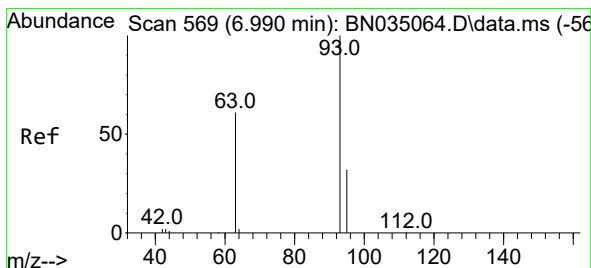
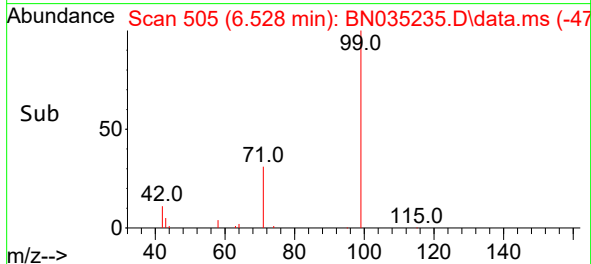
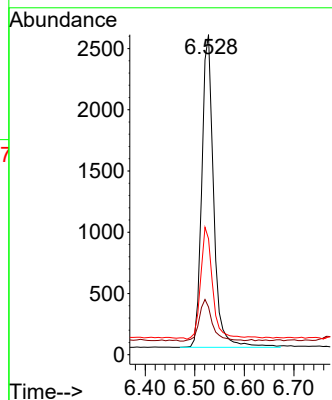
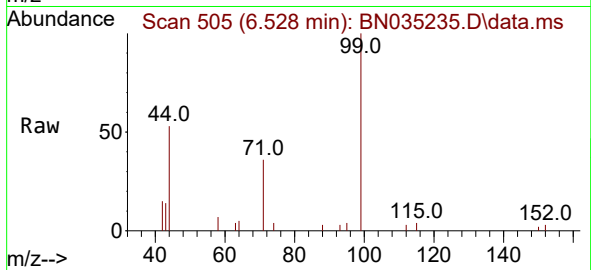




#5
Phenol-d6
Concen: 0.400 ng
RT: 6.528 min Scan# 50
Delta R.T. -0.000 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

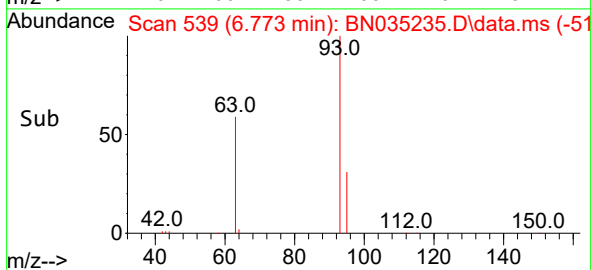
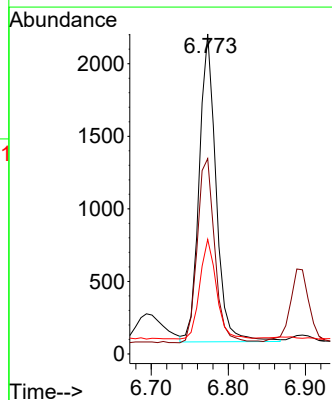
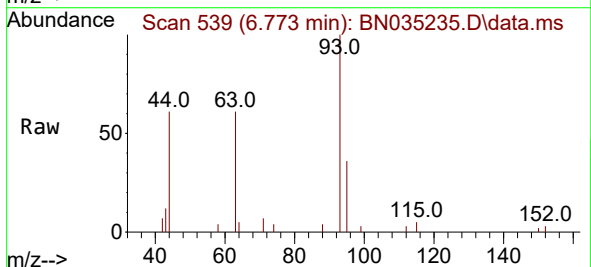
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

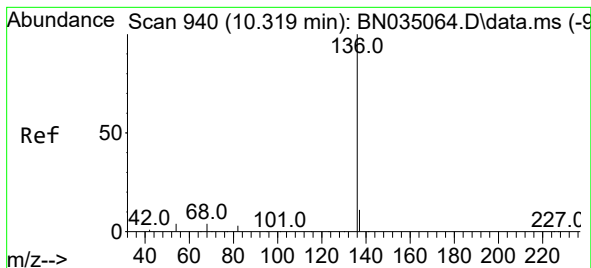
Tgt Ion: 99 Resp: 4263
Ion Ratio Lower Upper
99 100
42 14.5 11.4 17.0
71 35.9 34.6 51.8



#6
bis(2-Chloroethyl)ether
Concen: 0.403 ng
RT: 6.773 min Scan# 539
Delta R.T. -0.000 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

Tgt Ion: 93 Resp: 3222
Ion Ratio Lower Upper
93 100
63 61.9 47.4 71.2
95 31.4 26.2 39.4





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.073 min Scan# 91

Delta R.T. -0.000 min

Lab File: BN035235.D

Acq: 21 Nov 2024 23:01

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion:136 Resp: 7674

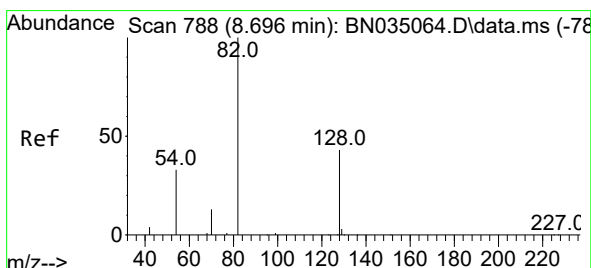
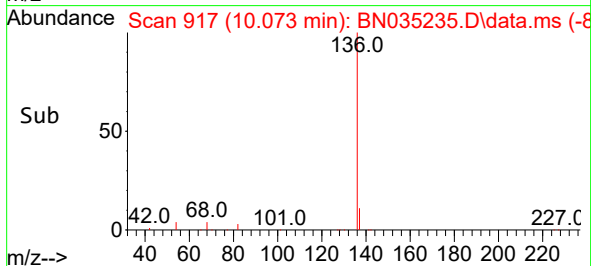
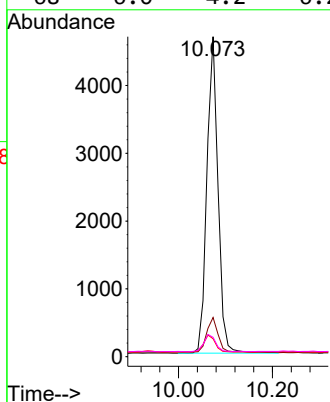
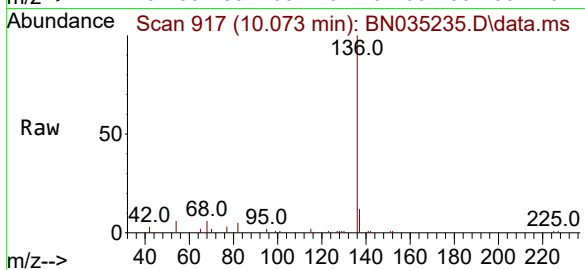
Ion Ratio Lower Upper

136 100

137 12.2 9.8 14.8

54 5.6 4.0 6.0

68 6.0 4.2 6.2



#8

Nitrobenzene-d5

Concen: 0.240 ng

RT: 8.461 min Scan# 766

Delta R.T. -0.000 min

Lab File: BN035235.D

Acq: 21 Nov 2024 23:01

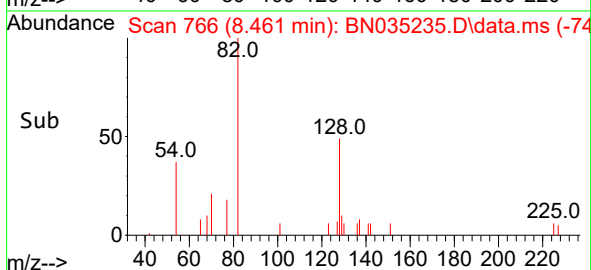
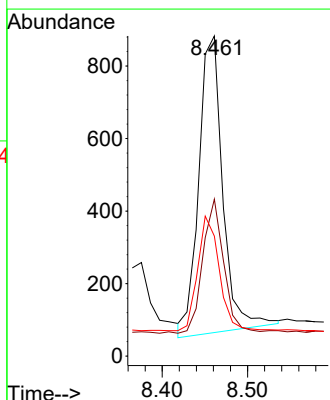
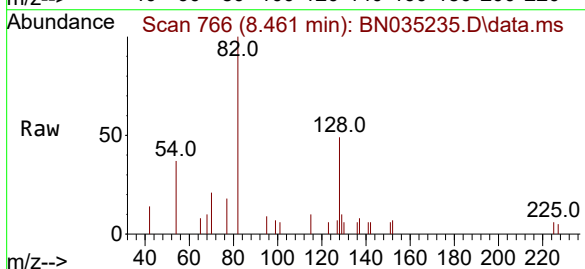
Tgt Ion: 82 Resp: 1602

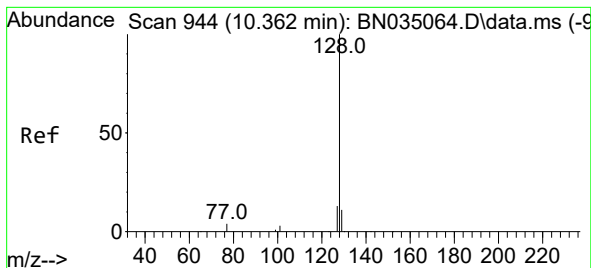
Ion Ratio Lower Upper

82 100

128 49.0 36.5 54.7

54 37.5 28.7 43.1





#9

Naphthalene

Concen: 0.392 ng

RT: 10.116 min Scan# 91

Delta R.T. -0.011 min

Lab File: BN035235.D

Acq: 21 Nov 2024 23:01

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

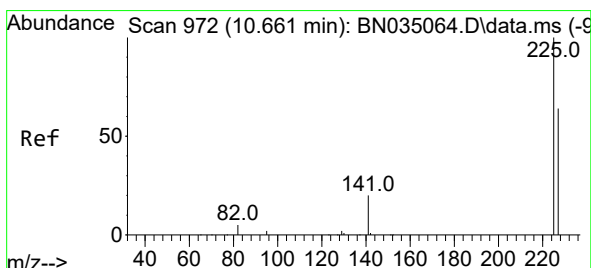
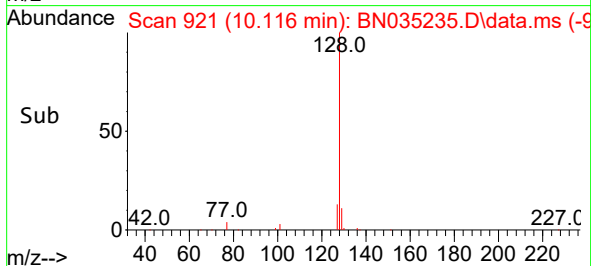
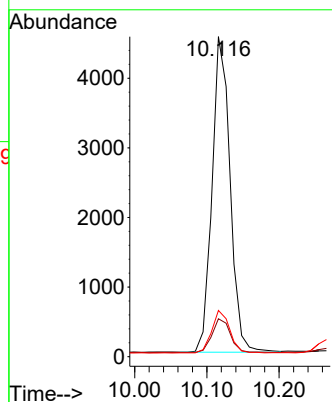
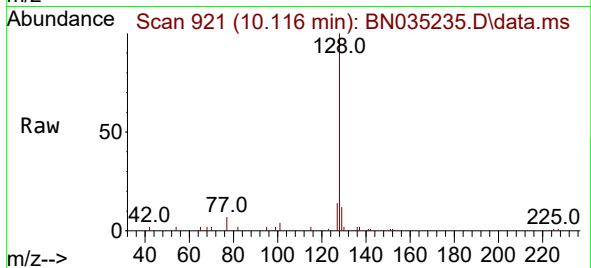
Tgt Ion:128 Resp: 7849

Ion Ratio Lower Upper

128 100

129 11.9 9.6 14.4

127 14.5 11.6 17.4



#10

Hexachlorobutadiene

Concen: 0.303 ng

RT: 10.415 min Scan# 949

Delta R.T. -0.011 min

Lab File: BN035235.D

Acq: 21 Nov 2024 23:01

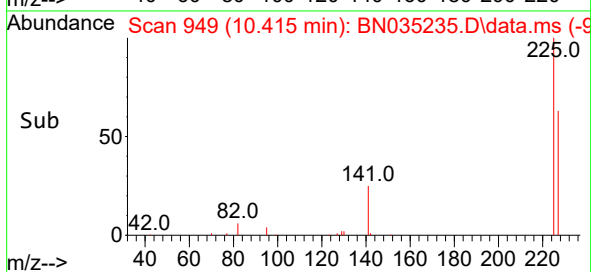
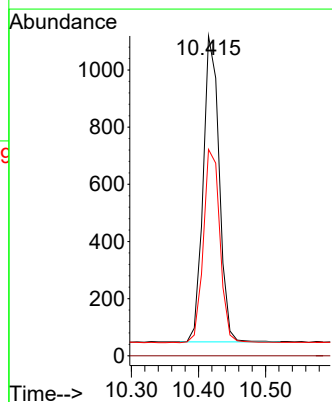
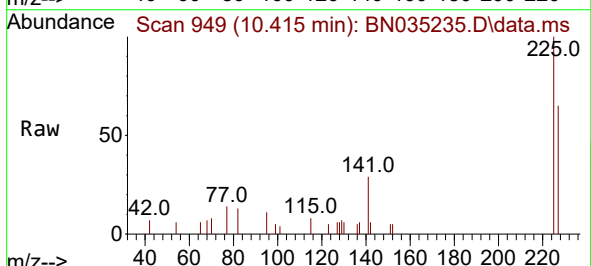
Tgt Ion:225 Resp: 1778

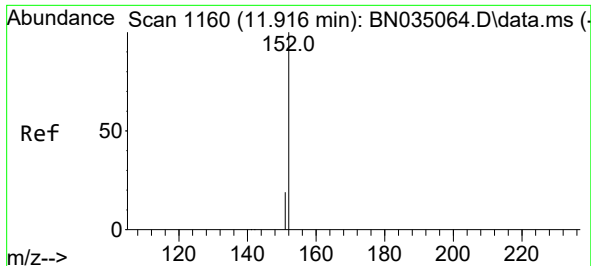
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 65.5 51.5 77.3





#11

2-Methylnaphthalene-d10

Concen: 0.326 ng

RT: 11.674 min Scan# 1109

Delta R.T. -0.004 min

Lab File: BN035235.D

Acq: 21 Nov 2024 23:01

Instrument :

BNA_N

ClientSampleId :

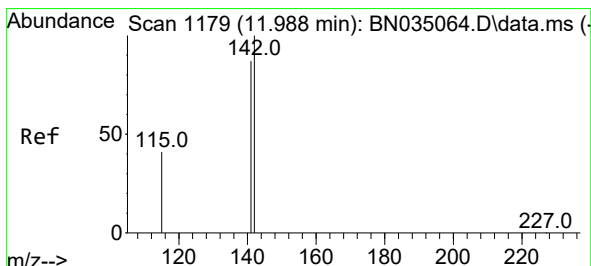
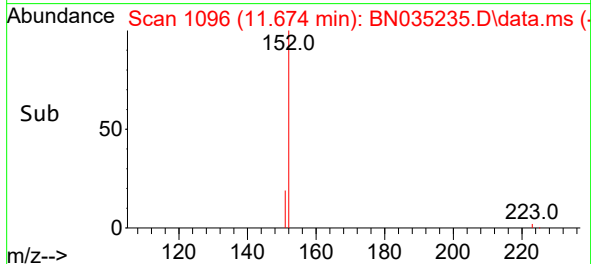
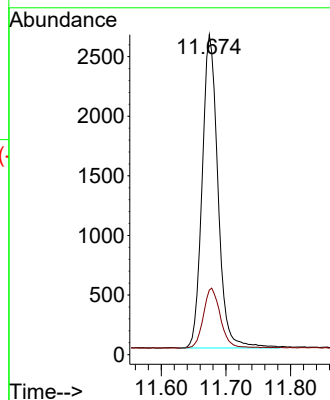
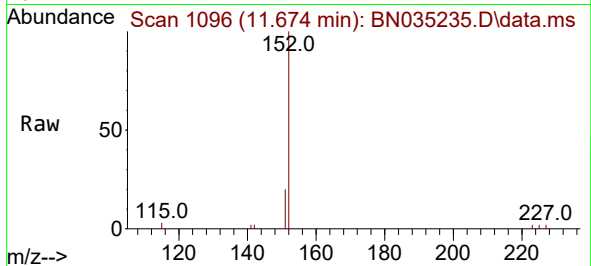
SSTDCCC0.4EC

Tgt Ion:152 Resp: 4455

Ion Ratio Lower Upper

152 100

151 20.6 16.2 24.4



#12

2-Methylnaphthalene

Concen: 0.352 ng

RT: 11.750 min Scan# 1116

Delta R.T. -0.004 min

Lab File: BN035235.D

Acq: 21 Nov 2024 23:01

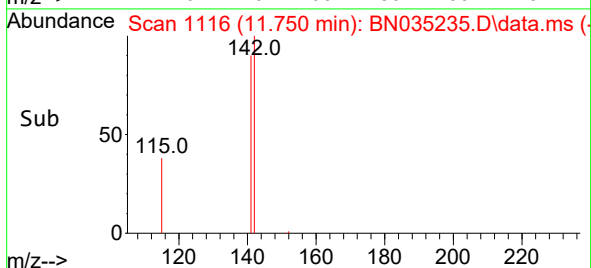
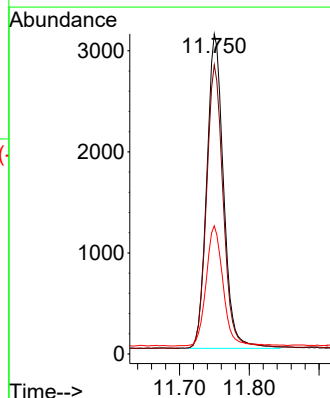
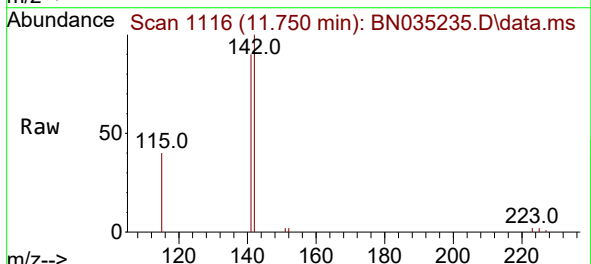
Tgt Ion:142 Resp: 5199

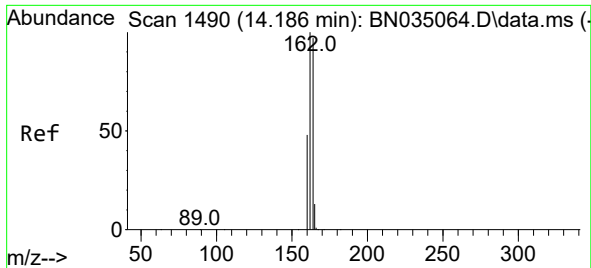
Ion Ratio Lower Upper

142 100

141 90.4 70.1 105.1

115 40.1 34.4 51.6

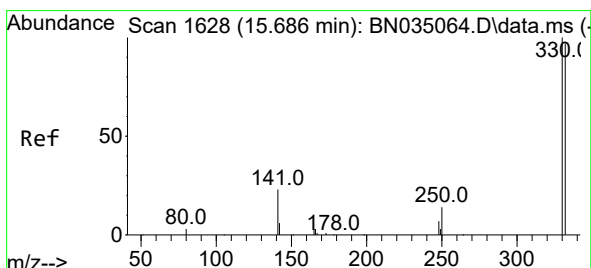
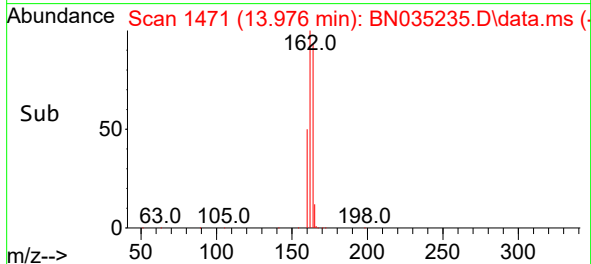
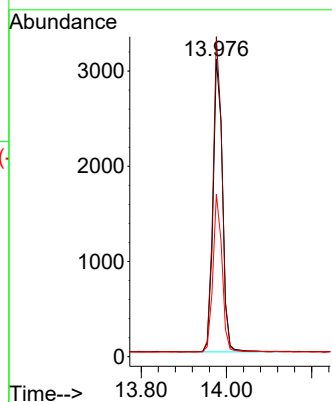
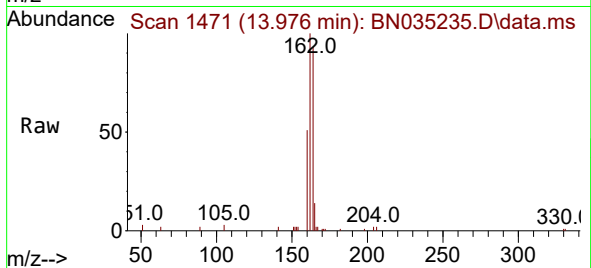




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.976 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

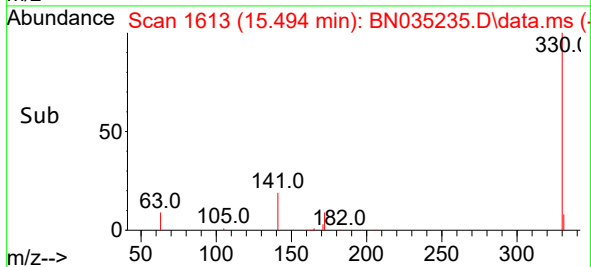
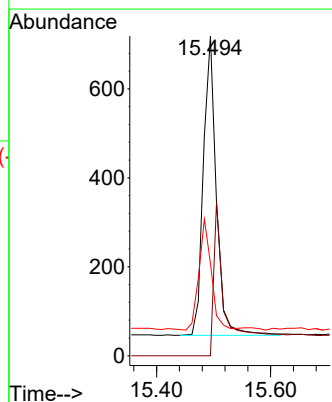
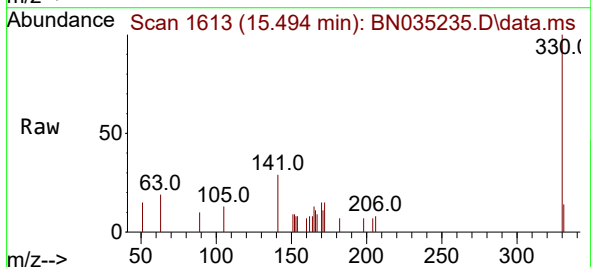
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

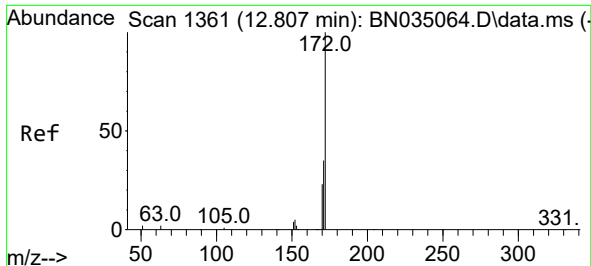
Tgt Ion:164 Resp: 4706
Ion Ratio Lower Upper
164 100
162 107.5 82.2 123.2
160 54.6 40.2 60.4



#14
2,4,6-Tribromophenol
Concen: 0.336 ng
RT: 15.494 min Scan# 1613
Delta R.T. -0.000 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

Tgt Ion:330 Resp: 1140
Ion Ratio Lower Upper
330 100
332 0.0 76.9 115.3#
141 34.2 29.6 44.4

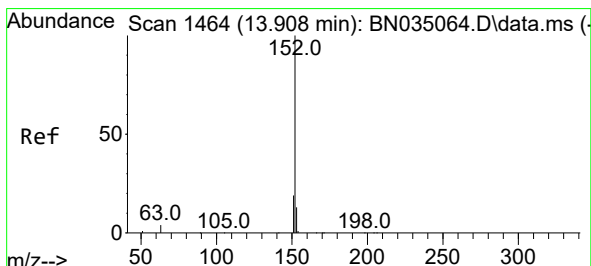
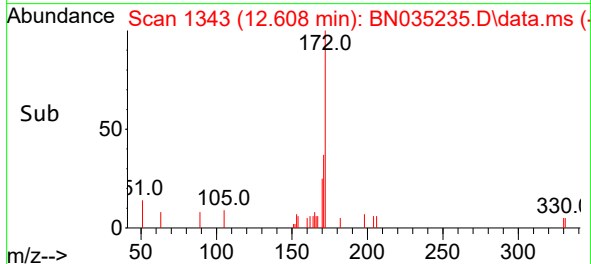
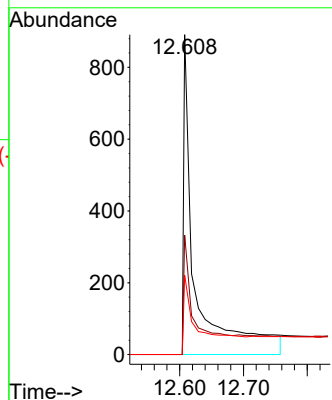
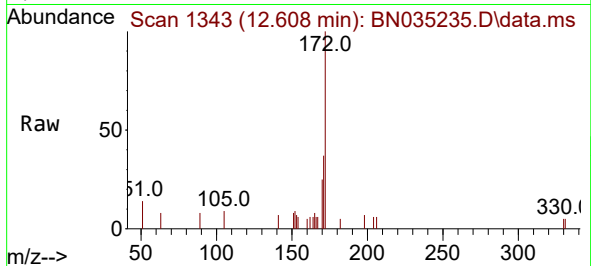




#15
2-Fluorobiphenyl
Concen: 0.063 ng
RT: 12.608 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

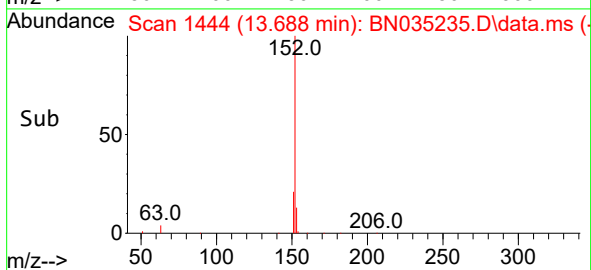
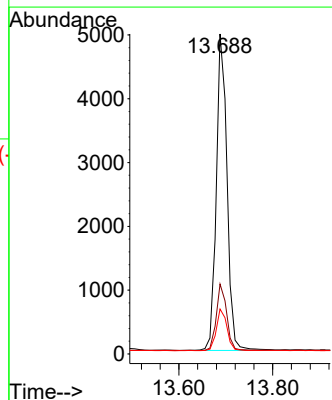
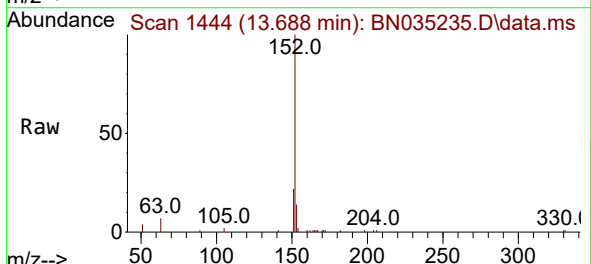
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

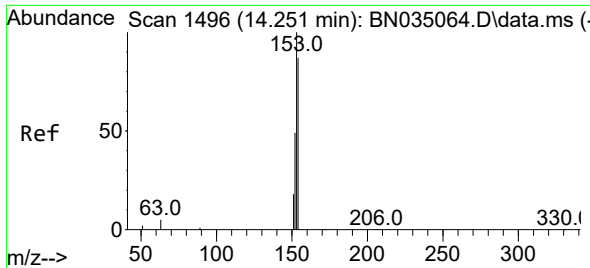
Tgt Ion:172 Resp: 1202
Ion Ratio Lower Upper
172 100
171 37.4 28.2 42.4
170 24.8 19.0 28.6



#16
Acenaphthylene
Concen: 0.392 ng
RT: 13.688 min Scan# 1444
Delta R.T. -0.011 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

Tgt Ion:152 Resp: 7880
Ion Ratio Lower Upper
152 100
151 20.4 15.8 23.8
153 13.3 10.2 15.4

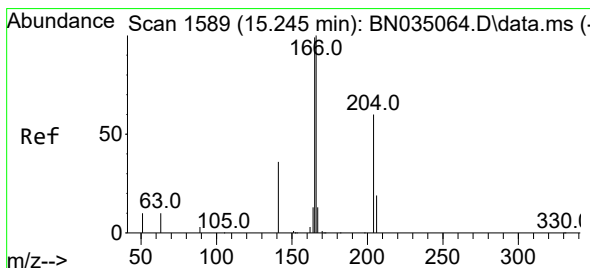
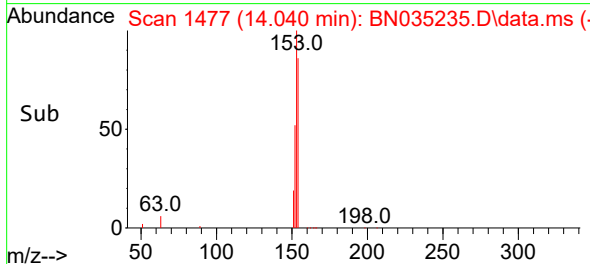
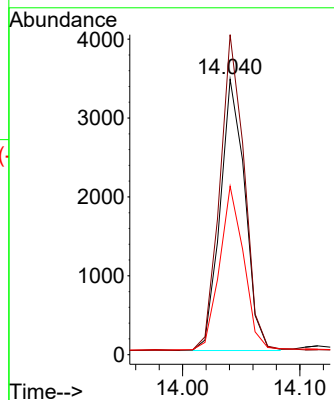
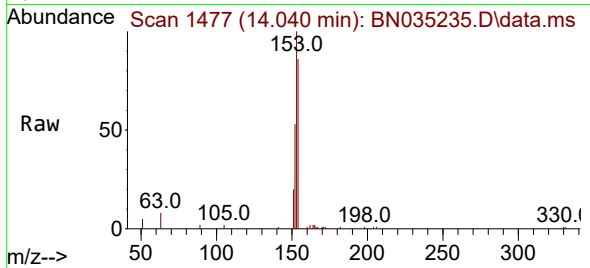




#17
Acenaphthene
Concen: 0.383 ng
RT: 14.040 min Scan# 1496
Delta R.T. -0.011 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

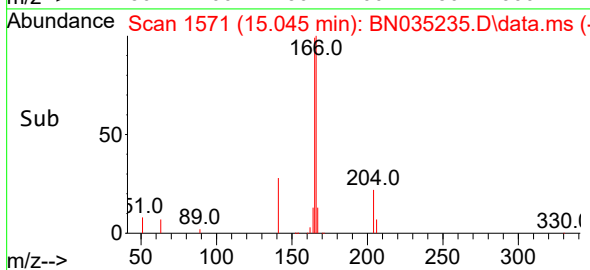
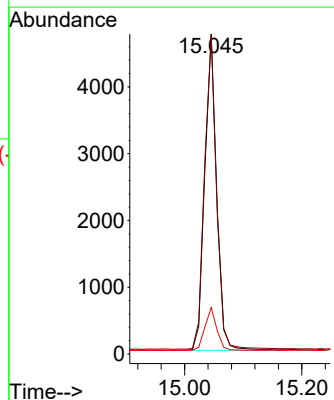
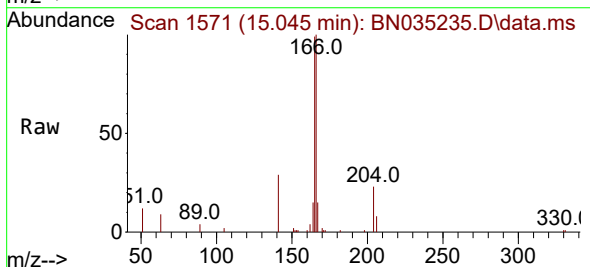
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

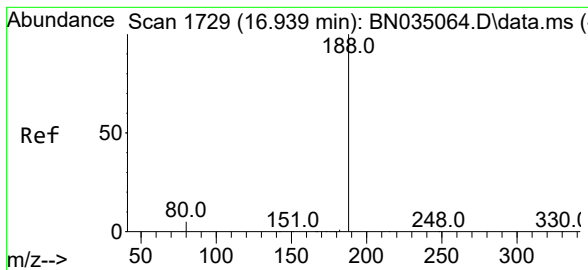
Tgt Ion:154 Resp: 5046
Ion Ratio Lower Upper
154 100
153 115.6 91.6 137.4
152 59.8 45.8 68.6



#18
Fluorene
Concen: 0.346 ng
RT: 15.045 min Scan# 1571
Delta R.T. -0.000 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

Tgt Ion:166 Resp: 6711
Ion Ratio Lower Upper
166 100
165 100.4 79.1 118.7
167 13.8 10.6 16.0

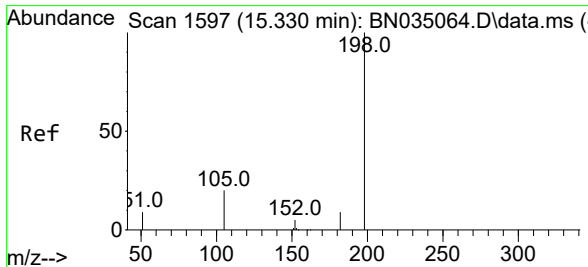
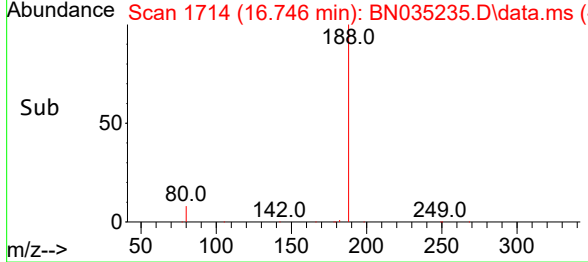
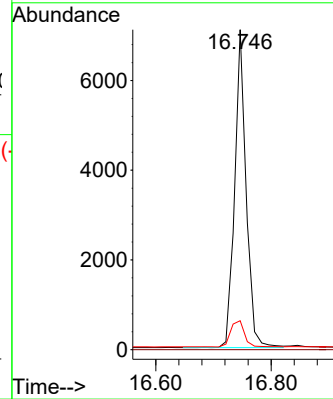
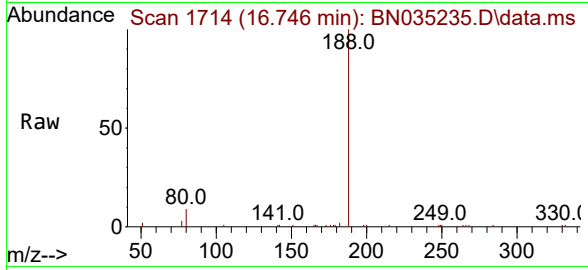




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.746 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

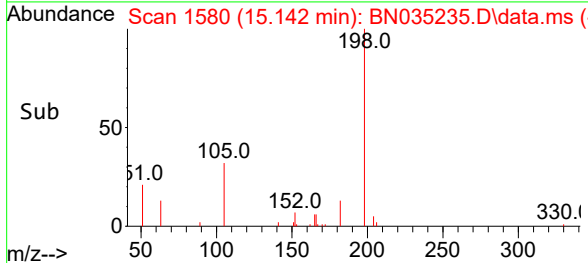
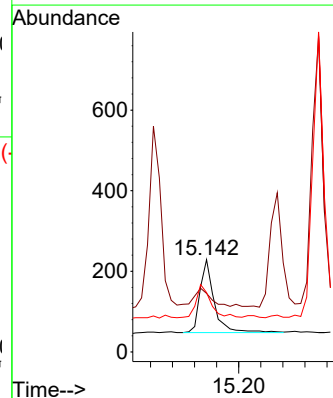
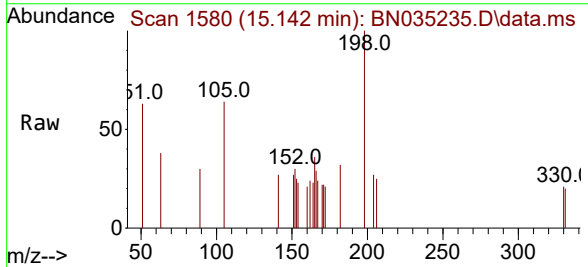
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

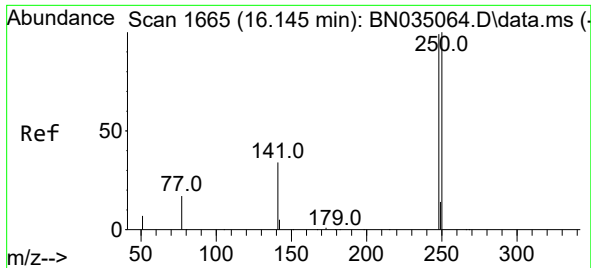
Tgt Ion:188 Resp: 9785
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 9.1 4.3 6.5#



#20
4,6-Dinitro-2-methylphenol
Concen: 0.158 ng
RT: 15.142 min Scan# 1580
Delta R.T. -0.000 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

Tgt Ion:198 Resp: 322
Ion Ratio Lower Upper
198 100
51 63.3 29.9 44.9#
105 64.2 23.7 35.5#

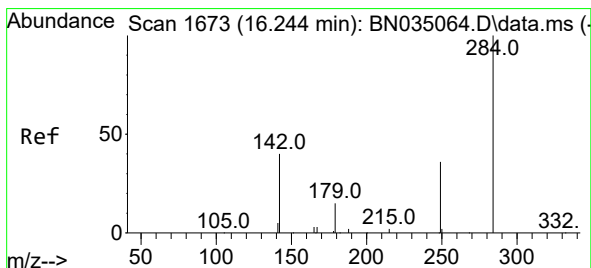
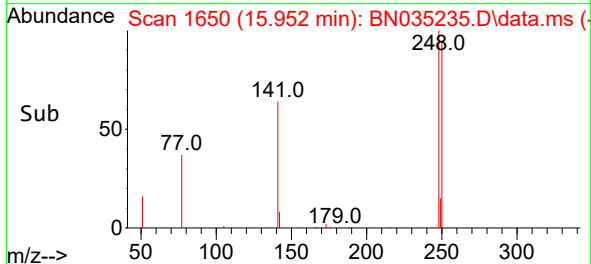
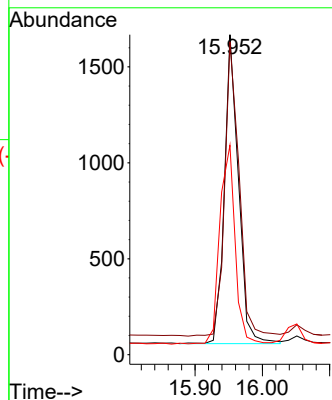
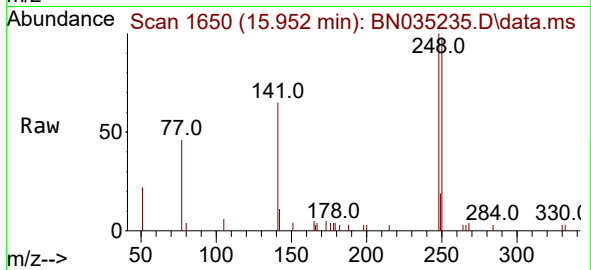




#21
4-Bromophenyl-phenylether
Concen: 0.373 ng
RT: 15.952 min Scan# 1650
Delta R.T. -0.000 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

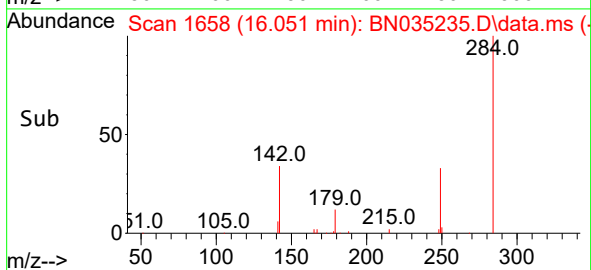
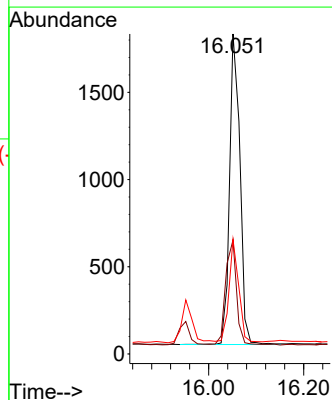
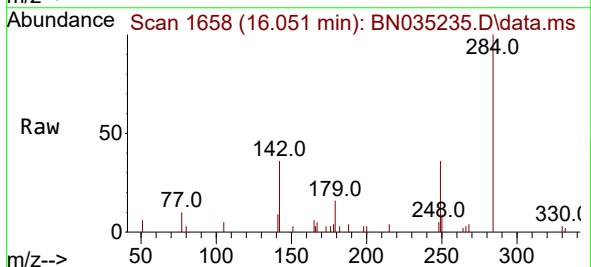
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

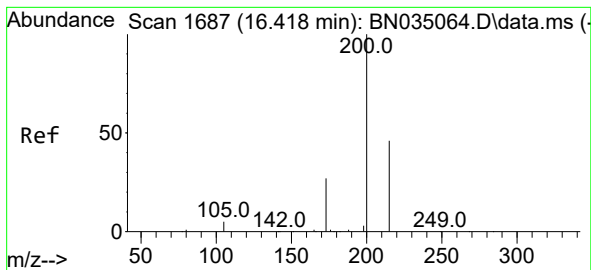
Tgt Ion:248 Resp: 2324
Ion Ratio Lower Upper
248 100
250 97.8 81.2 121.8
141 65.5 29.1 43.7#



#22
Hexachlorobenzene
Concen: 0.416 ng
RT: 16.051 min Scan# 1658
Delta R.T. -0.012 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

Tgt Ion:284 Resp: 2690
Ion Ratio Lower Upper
284 100
142 35.7 28.2 42.4
249 30.9 26.2 39.2





#23

Atrazine

Concen: 0.225 ng

RT: 16.250 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN035235.D

Acq: 21 Nov 2024 23:01

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

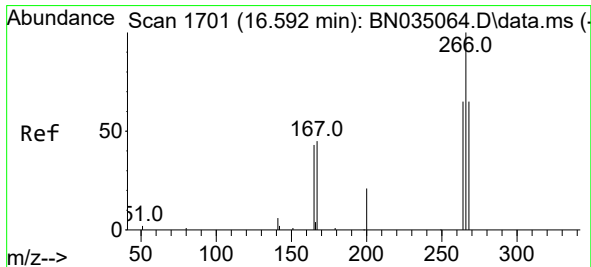
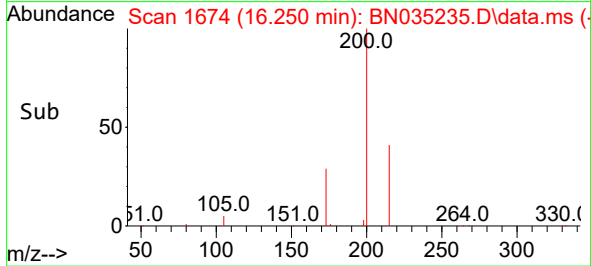
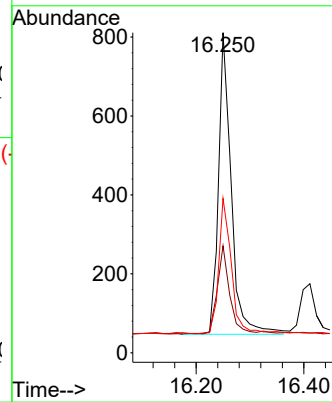
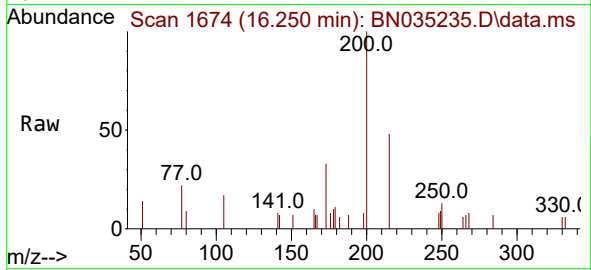
Tgt Ion:200 Resp: 1260

Ion Ratio Lower Upper

200 100

173 33.4 22.6 33.8

215 48.2 37.8 56.6



#24

Pentachlorophenol

Concen: 0.393 ng

RT: 16.411 min Scan# 1687

Delta R.T. -0.000 min

Lab File: BN035235.D

Acq: 21 Nov 2024 23:01

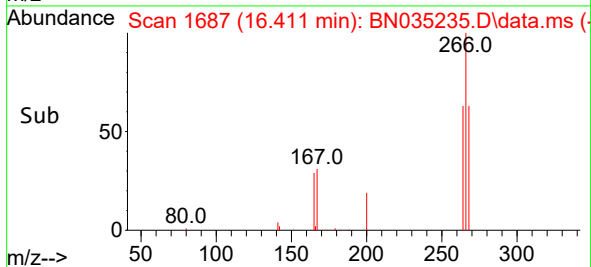
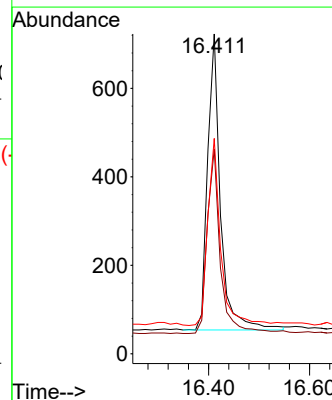
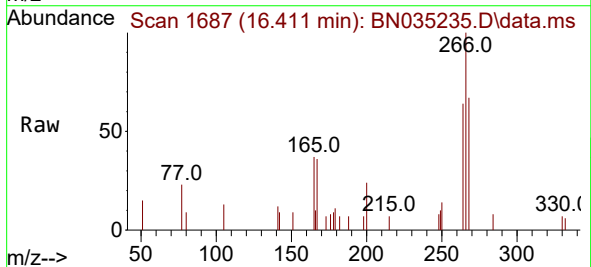
Tgt Ion:266 Resp: 1189

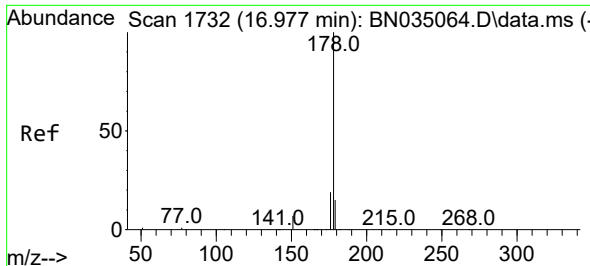
Ion Ratio Lower Upper

266 100

264 63.5 49.4 74.0

268 63.4 52.6 79.0

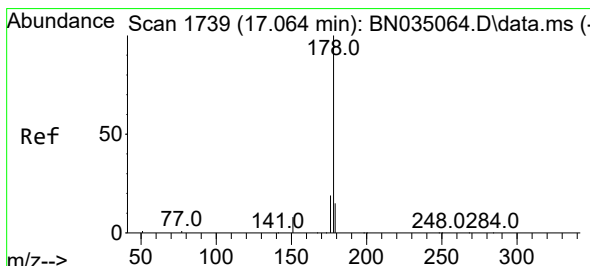
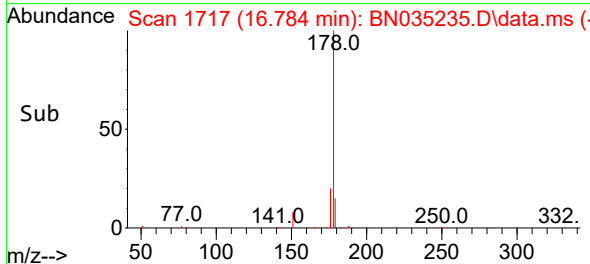
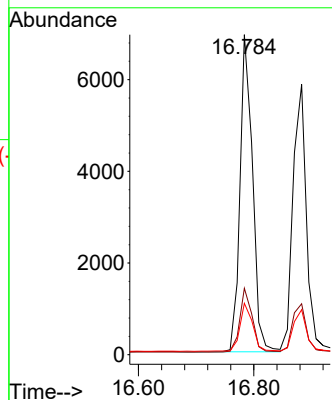
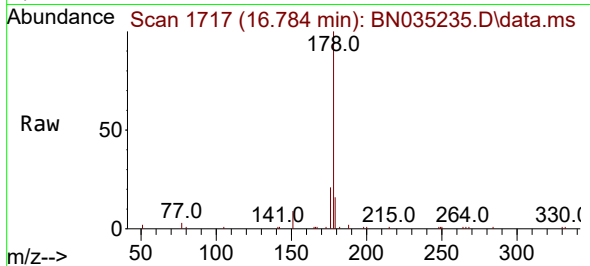




#25
Phenanthrene
Concen: 0.403 ng
RT: 16.784 min Scan# 1725
Delta R.T. -0.012 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

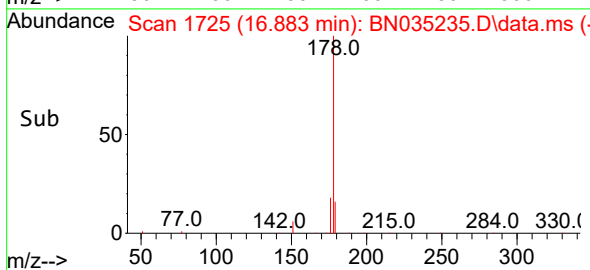
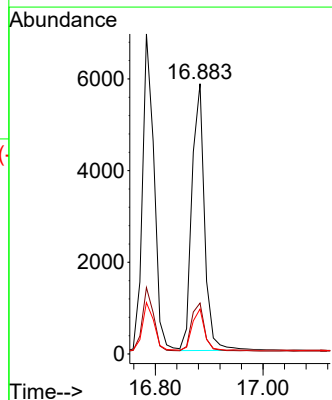
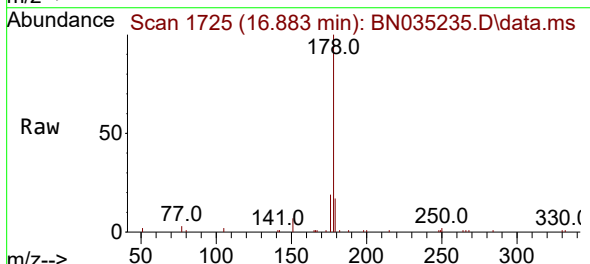
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

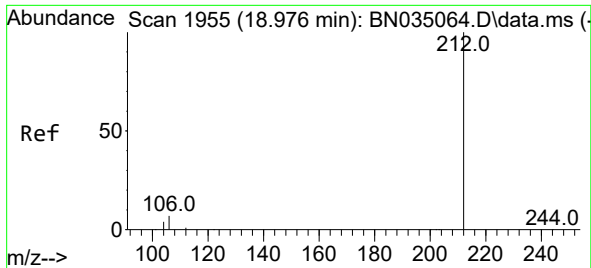
Tgt Ion:178 Resp: 10390
Ion Ratio Lower Upper
178 100
176 19.8 15.2 22.8
179 15.6 12.6 18.8



#26
Anthracene
Concen: 0.403 ng
RT: 16.883 min Scan# 1725
Delta R.T. -0.000 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

Tgt Ion:178 Resp: 9521
Ion Ratio Lower Upper
178 100
176 18.7 14.6 22.0
179 15.2 12.2 18.2

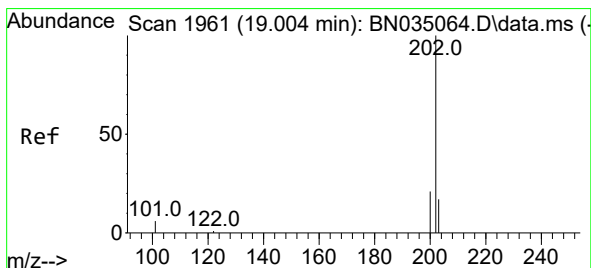
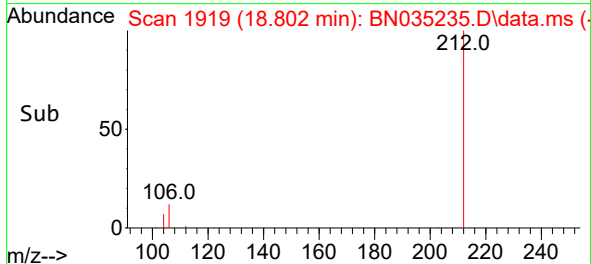
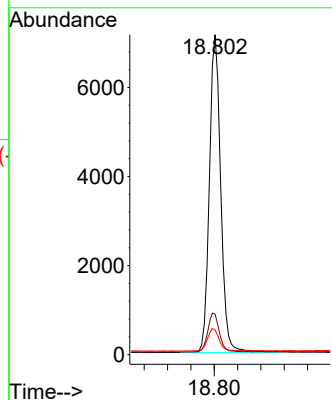
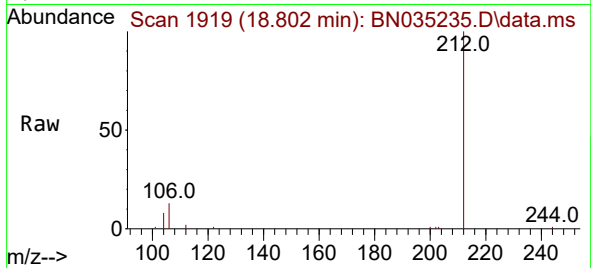




#27
Fluoranthene-d10
Concen: 0.322 ng
RT: 18.802 min Scan# 1919
Delta R.T. -0.005 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

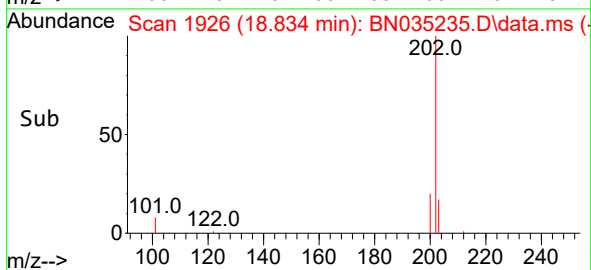
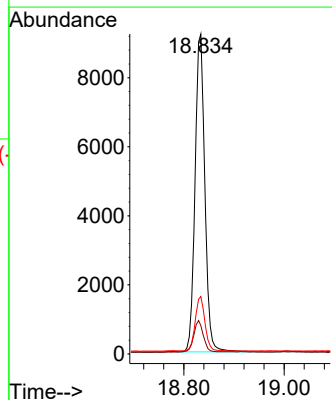
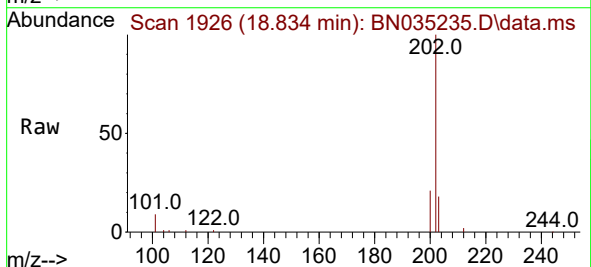
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

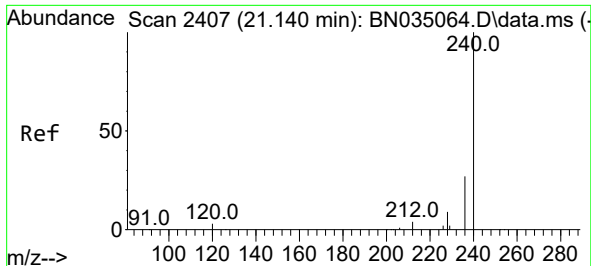
Tgt Ion:212 Resp: 9657
Ion Ratio Lower Upper
212 100
106 12.4 6.0 9.0#
104 7.3 3.5 5.3#



#28
Fluoranthene
Concen: 0.353 ng
RT: 18.834 min Scan# 1926
Delta R.T. -0.005 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

Tgt Ion:202 Resp: 12485
Ion Ratio Lower Upper
202 100
101 9.9 5.2 7.8#
203 17.0 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.008 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035235.D

Acq: 21 Nov 2024 23:01

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

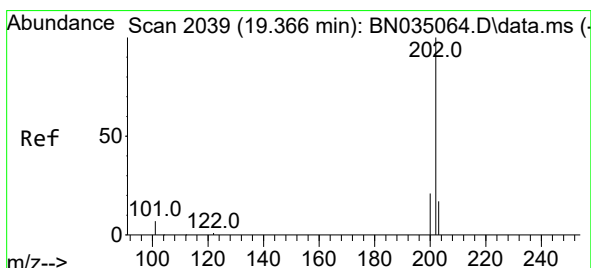
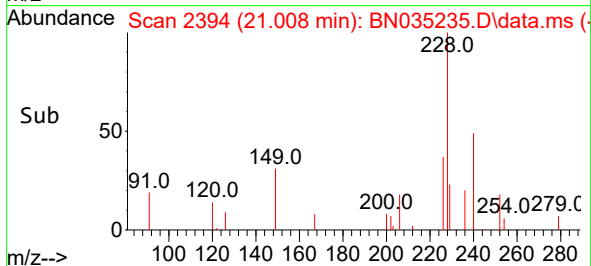
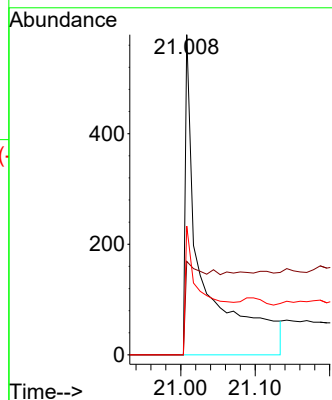
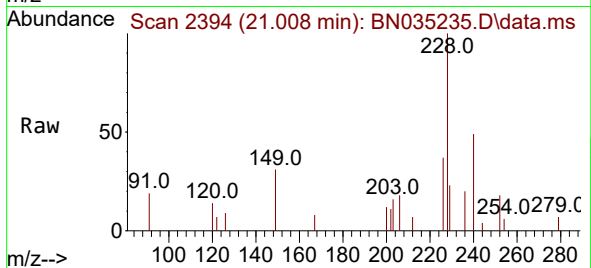
Tgt Ion:240 Resp: 924

Ion Ratio Lower Upper

240 100

120 29.2 3.8 5.6#

236 40.2 22.2 33.2#



#30

Pyrene

Concen: 4.164 ng

RT: 19.201 min Scan# 2005

Delta R.T. -0.005 min

Lab File: BN035235.D

Acq: 21 Nov 2024 23:01

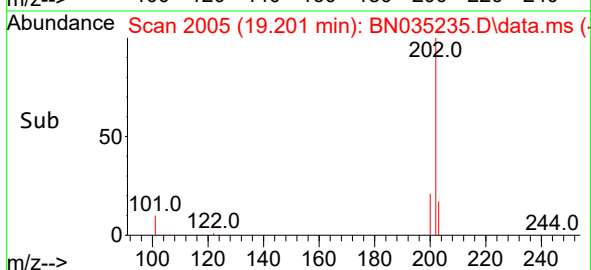
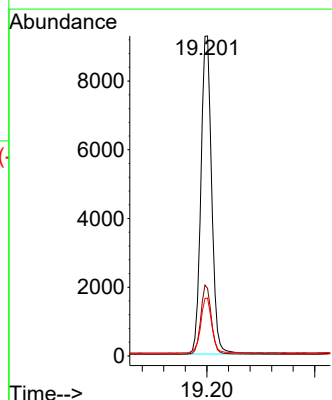
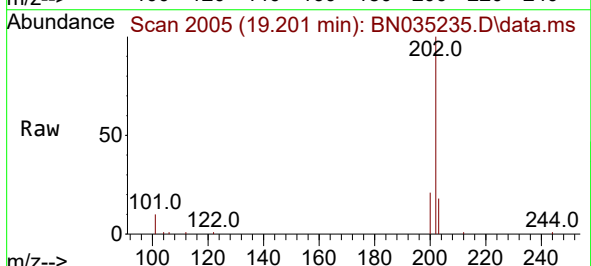
Tgt Ion:202 Resp: 12814

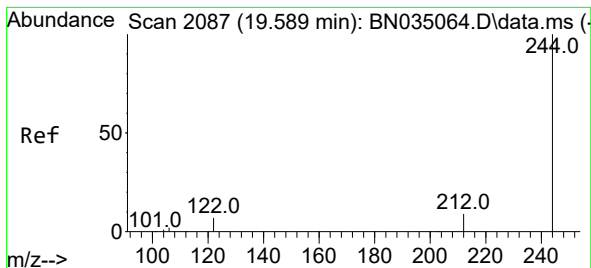
Ion Ratio Lower Upper

202 100

200 21.3 16.7 25.1

203 17.7 14.2 21.4





#31

Terphenyl-d14

Concen: 3.268 ng

RT: 19.429 min Scan# 2087

Delta R.T. -0.009 min

Lab File: BN035235.D

Acq: 21 Nov 2024 23:01

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

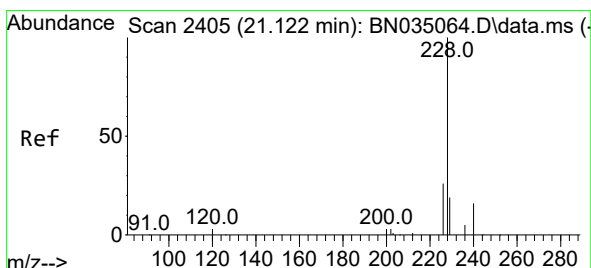
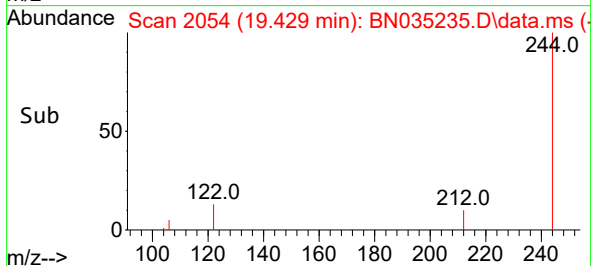
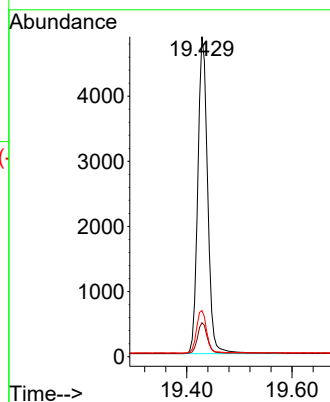
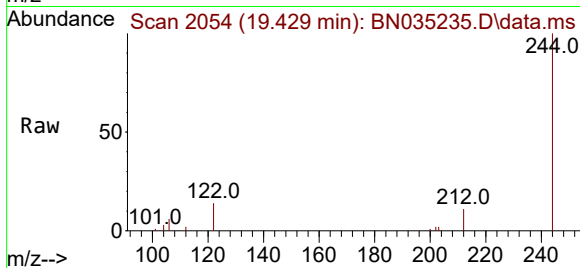
Tgt Ion:244 Resp: 6336

Ion Ratio Lower Upper

244 100

212 10.6 7.6 11.4

122 14.4 6.1 9.1#



#32

Benzo(a)anthracene

Concen: 3.650 ng

RT: 21.026 min Scan# 2396

Delta R.T. -0.009 min

Lab File: BN035235.D

Acq: 21 Nov 2024 23:01

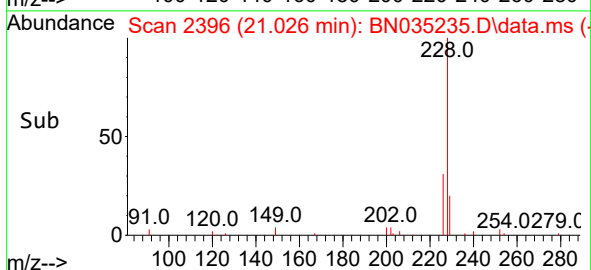
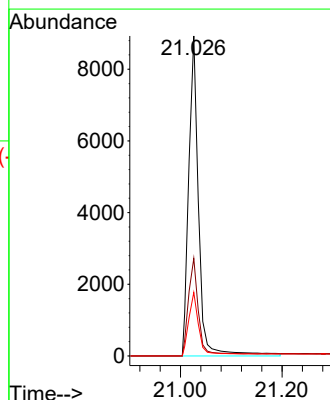
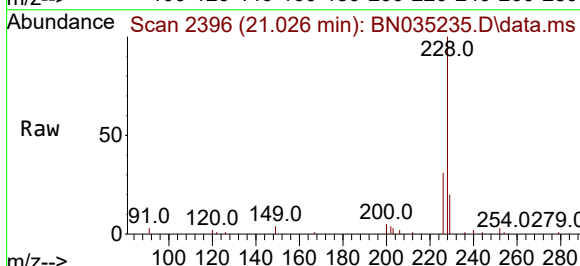
Tgt Ion:228 Resp: 11745

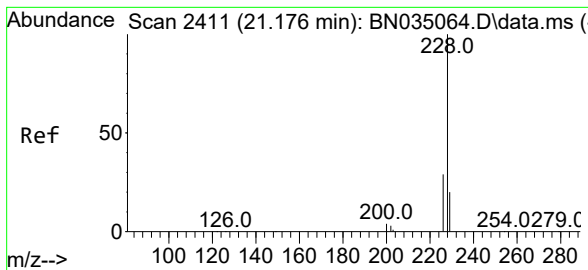
Ion Ratio Lower Upper

228 100

226 30.5 21.4 32.0

229 19.8 15.7 23.5





#33

Chrysene

Concen: 3.685 ng

RT: 21.026 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035235.D

Acq: 21 Nov 2024 23:01

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

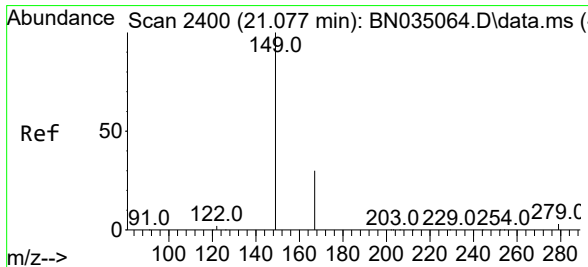
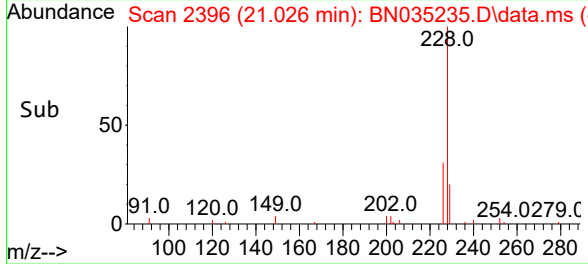
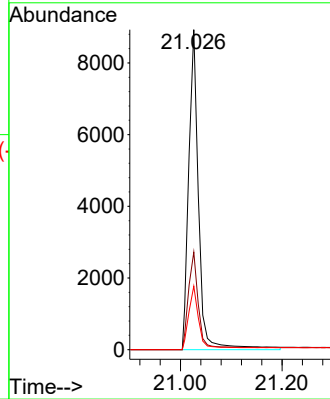
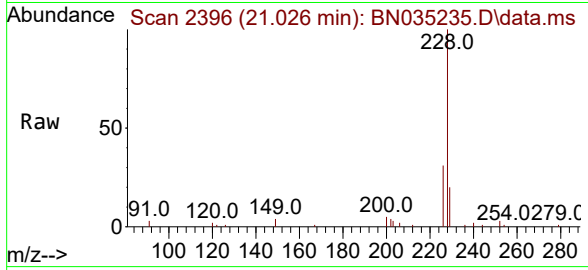
Tgt Ion:228 Resp: 11745

Ion Ratio Lower Upper

228 100

226 30.5 23.7 35.5

229 19.8 16.2 24.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.616 ng

RT: 21.026 min Scan# 2396

Delta R.T. -0.000 min

Lab File: BN035235.D

Acq: 21 Nov 2024 23:01

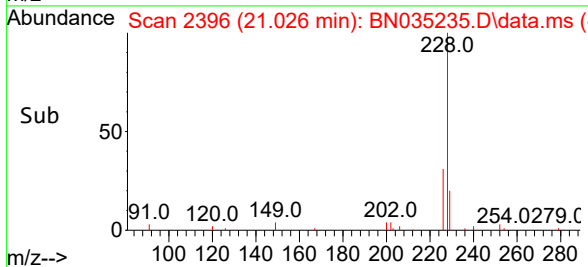
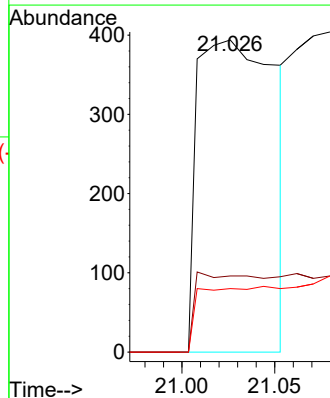
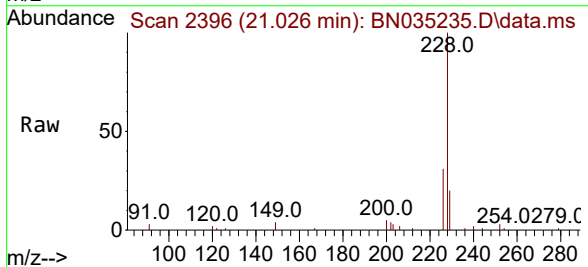
Tgt Ion:149 Resp: 1040

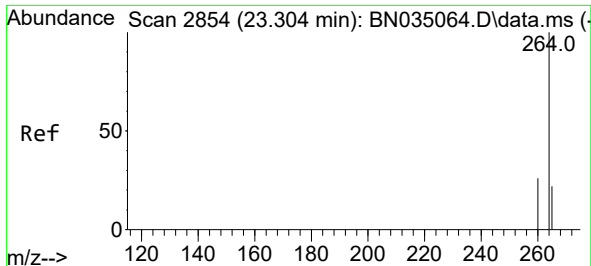
Ion Ratio Lower Upper

149 100

167 20.9 23.2 34.8#

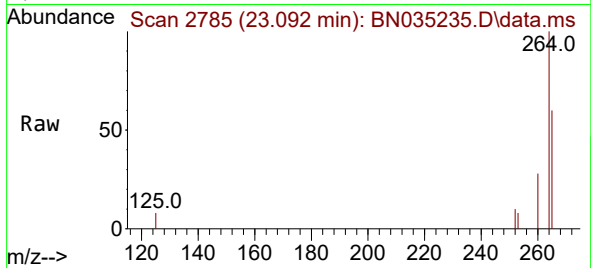
279 0.0 3.2 4.8#



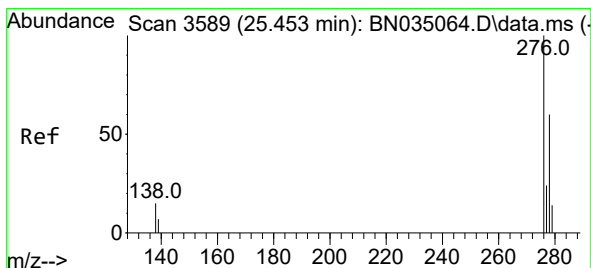
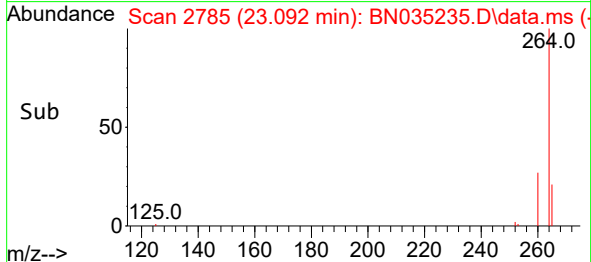
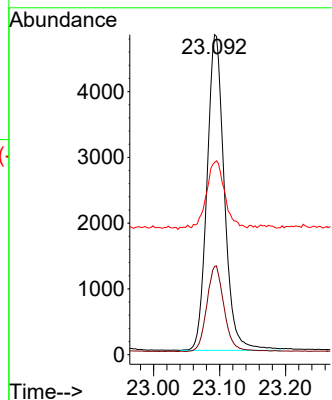


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.092 min Scan# 21
Delta R.T. -0.012 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

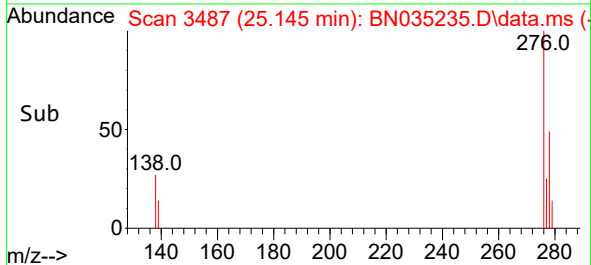
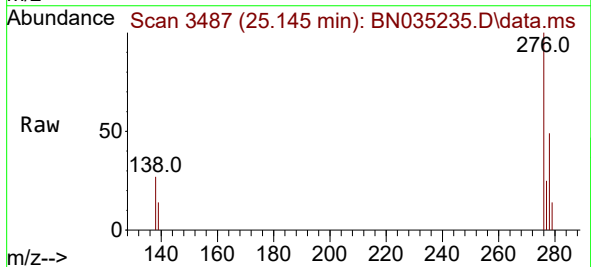
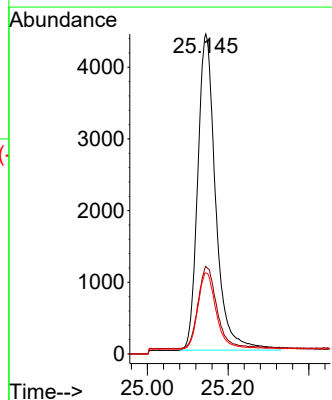


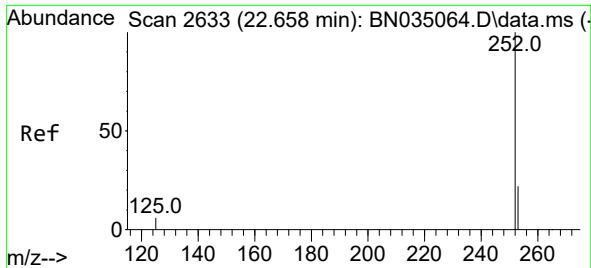
Tgt Ion:264 Resp: 8785
Ion Ratio Lower Upper
264 100
260 27.6 20.9 31.3
265 60.1 35.4 53.2#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.389 ng
RT: 25.145 min Scan# 3487
Delta R.T. -0.012 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

Tgt Ion:276 Resp: 13630
Ion Ratio Lower Upper
276 100
138 26.1 13.0 19.4#
277 23.9 19.8 29.6

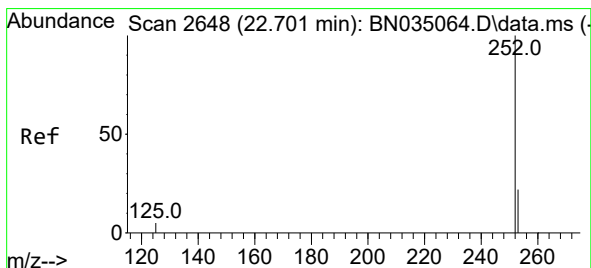
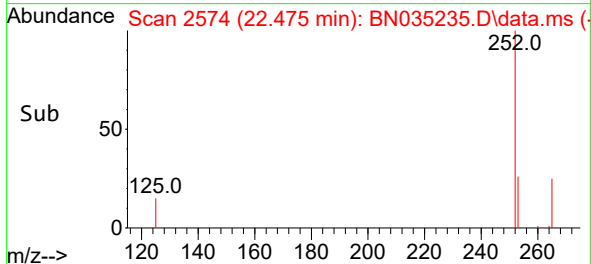
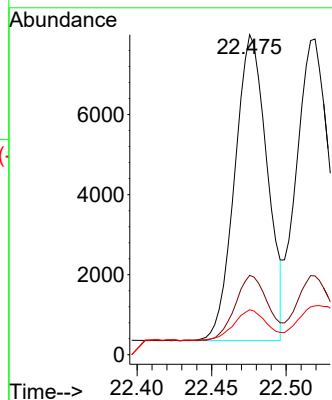
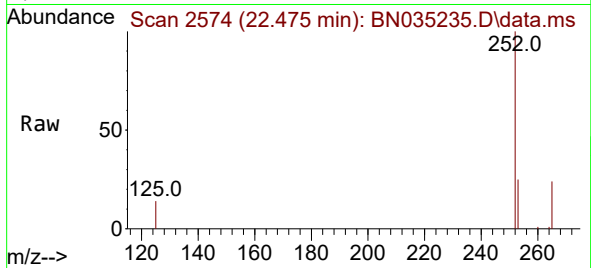




#37
Benzo(b)fluoranthene
Concen: 0.391 ng
RT: 22.475 min Scan# 211
Delta R.T. -0.012 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

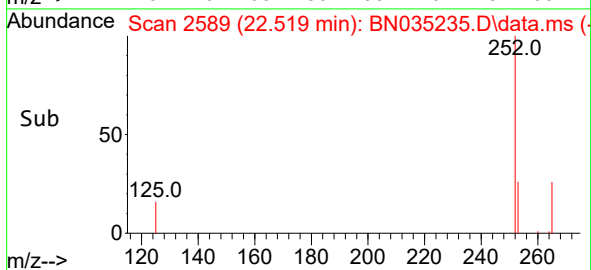
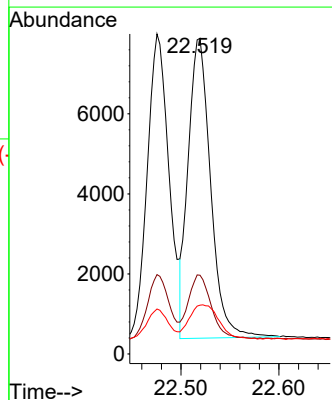
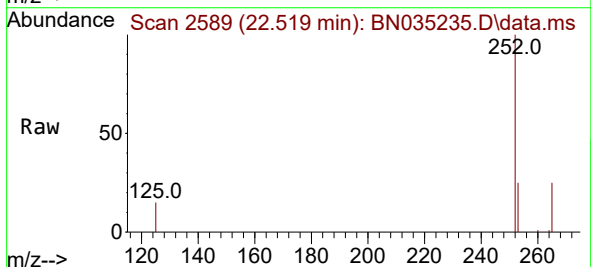
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

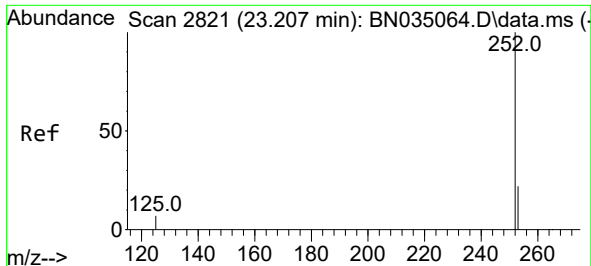
Tgt Ion:252 Resp: 11553
Ion Ratio Lower Upper
252 100
253 24.8 19.3 28.9
125 14.0 6.2 9.2#



#38
Benzo(k)fluoranthene
Concen: 0.403 ng
RT: 22.519 min Scan# 2589
Delta R.T. -0.009 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

Tgt Ion:252 Resp: 11920
Ion Ratio Lower Upper
252 100
253 25.0 19.5 29.3
125 15.4 6.5 9.7#





#39

Benzo(a)pyrene

Concen: 0.396 ng

RT: 23.002 min Scan# 21

Delta R.T. -0.012 min

Lab File: BN035235.D

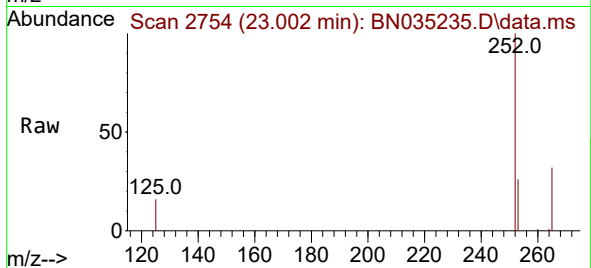
Acq: 21 Nov 2024 23:01

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



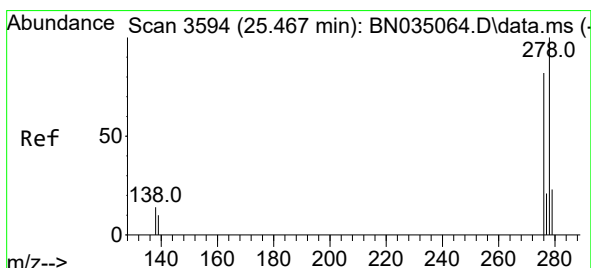
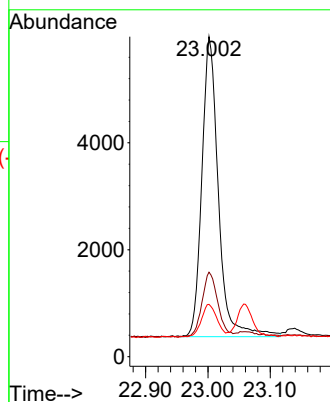
Tgt Ion:252 Resp: 10296

Ion Ratio Lower Upper

252 100

253 26.4 20.1 30.1

125 16.3 7.5 11.3#



#40

Dibenzo(a,h)anthracene

Concen: 0.373 ng

RT: 25.162 min Scan# 3493

Delta R.T. -0.015 min

Lab File: BN035235.D

Acq: 21 Nov 2024 23:01

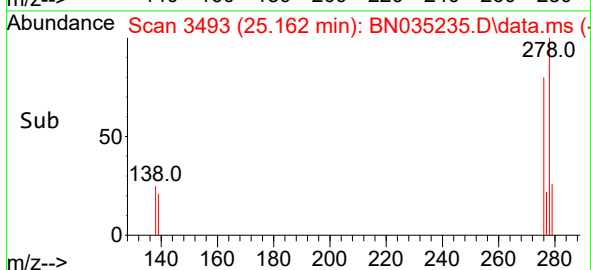
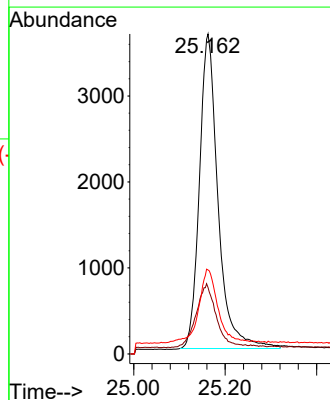
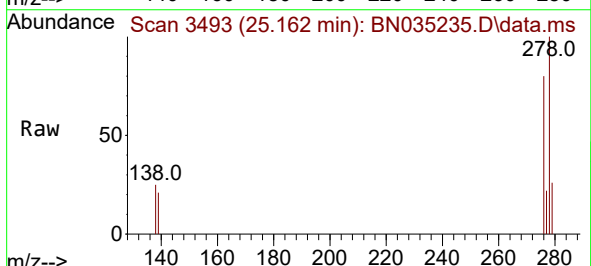
Tgt Ion:278 Resp: 10355

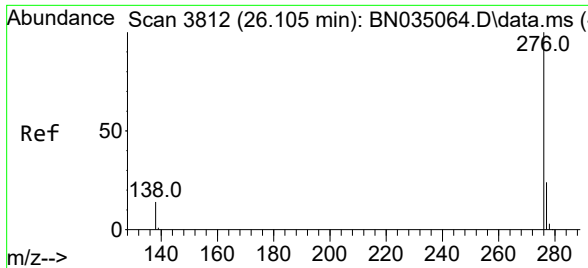
Ion Ratio Lower Upper

278 100

139 20.7 9.3 13.9#

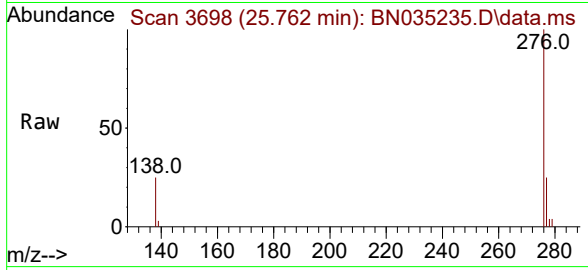
279 26.2 19.7 29.5



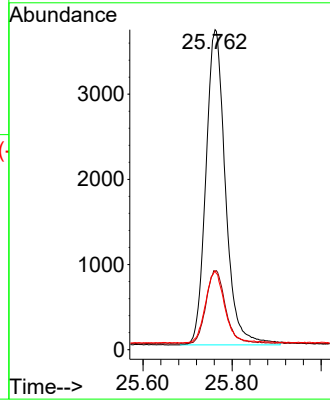
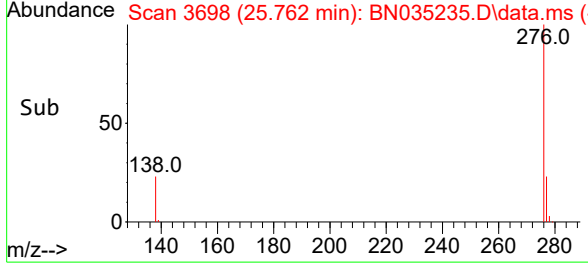


#41
Benzo(g,h,i)perylene
Concen: 0.382 ng
RT: 25.762 min Scan# 30
Delta R.T. -0.015 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:276 Resp: 11294
Ion Ratio Lower Upper
276 100
277 24.5 19.9 29.9
138 24.5 11.6 17.4#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
 Data File : BN035277.D
 Acq On : 25 Nov 2024 10:16
 Operator : RC/JU
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 52 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

Quant Time: Nov 25 18:31:56 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Nov 25 14:32:52 2024
 Response via : Initial Calibration

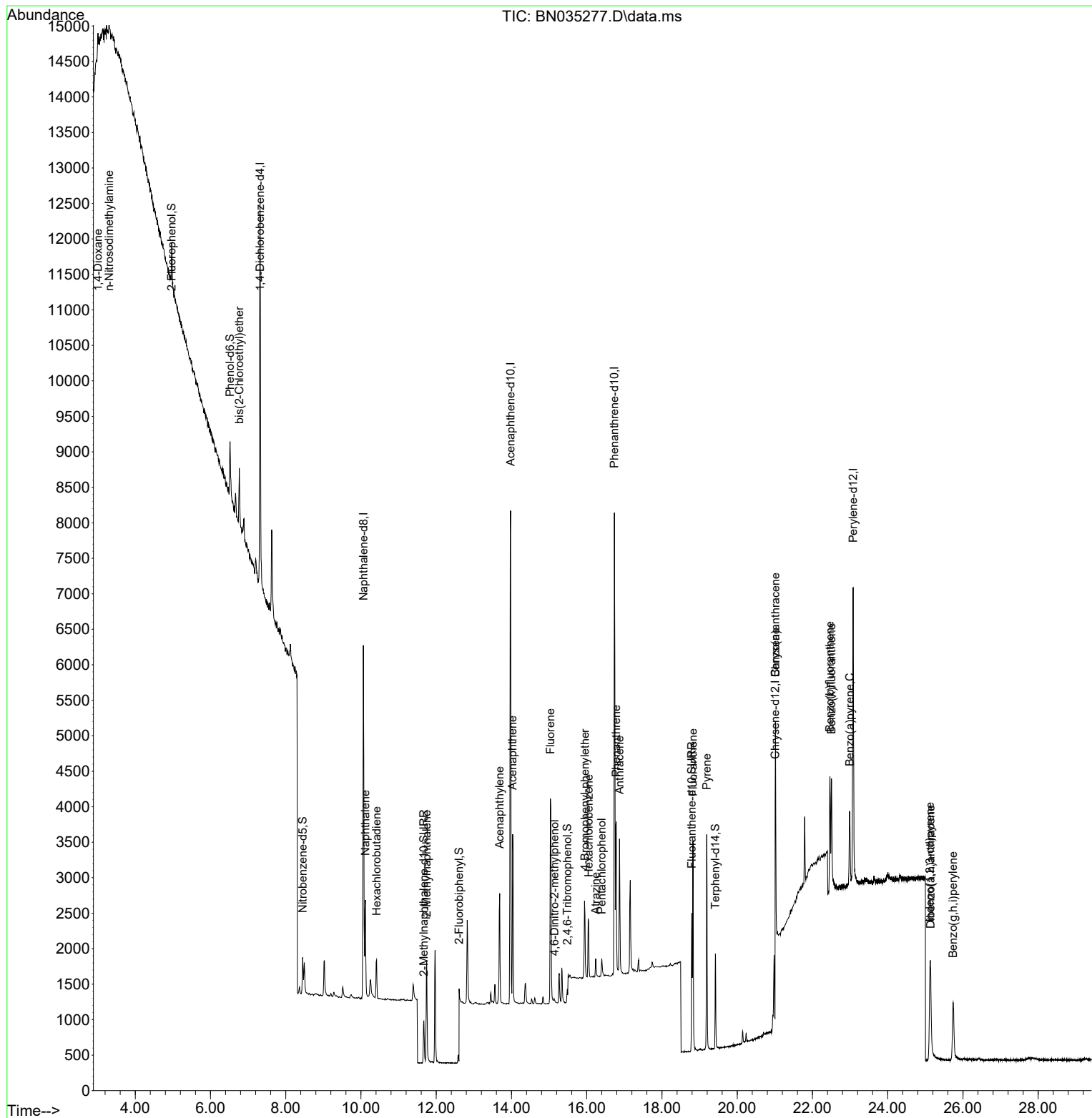
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.315	152	2616	0.400	ng	0.00
7) Naphthalene-d8	10.063	136	6701	0.400	ng	0.00
13) Acenaphthene-d10	13.976	164	3999	0.400	ng	0.00
19) Phenanthrene-d10	16.734	188	9103	0.400	ng	0.00
29) Chrysene-d12	21.008	240	834	0.400	ng	0.00
35) Perylene-d12	23.081	264	5298	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.968	112	561	0.114	ng	0.00
5) Phenol-d6	6.520	99	781	0.113	ng	0.00
8) Nitrobenzene-d5	8.450	82	713	0.131	ng	0.00
11) 2-Methylnaphthalene-d10	11.670	152	939	0.100	ng	0.00
14) 2,4,6-Tribromophenol	15.484	330	174	0.085	ng	0.00
15) 2-Fluorobiphenyl	12.608	172	595	0.269	ng	0.00
27) Fluoranthene-d10	18.792	212	2168	0.089	ng	0.00
31) Terphenyl-d14	19.419	244	1310	0.085	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.010	88	245	0.130	ng	# 78
3) n-Nitrosodimethylamine	3.307	42	166	0.085	ng	# 74
6) bis(2-Chloroethyl)ether	6.766	93	595	0.102	ng	97
9) Naphthalene	10.116	128	1817	0.098	ng	# 92
10) Hexachlorobutadiene	10.415	225	471	0.090	ng	# 98
12) 2-Methylnaphthalene	11.746	142	1156	0.095	ng	98
16) Acenaphthylene	13.688	152	1859	0.092	ng	99
17) Acenaphthene	14.030	154	1144	0.090	ng	92
18) Fluorene	15.035	166	1538	0.087	ng	99
20) 4,6-Dinitro-2-methylph...	15.141	198	47	0.226	ng	# 21
21) 4-Bromophenyl-phenylether	15.952	248	565	0.098	ng	# 70
22) Hexachlorobenzene	16.051	284	743	0.090	ng	98
23) Atrazine	16.237	200	206	0.085	ng	# 82
24) Pentachlorophenol	16.399	266	157	0.079	ng	# 85
25) Phenanthrene	16.783	178	2552	0.091	ng	99
26) Anthracene	16.870	178	2057	0.086	ng	99
28) Fluoranthene	18.825	202	2840	0.080	ng	99
30) Pyrene	19.192	202	2830	0.093	ng	100
32) Benzo(a)anthracene	21.017	228	2709	0.093	ng	98
33) Chrysene	21.017	228	2709	0.093	ng	98
34) Bis(2-ethylhexyl)phtha...	21.017	149	540	Below Cal		# 66
36) Indeno(1,2,3-cd)pyrene	25.121	276	1824	0.084	ng	98
37) Benzo(b)fluoranthene	22.464	252	1993	0.087	ng	# 78
38) Benzo(k)fluoranthene	22.505	252	2076	0.085	ng	# 78
39) Benzo(a)pyrene	22.987	252	1578	0.090	ng	# 73
40) Dibenzo(a,h)anthracene	25.142	278	1273	0.078	ng	# 76
41) Benzo(g,h,i)perylene	25.738	276	1716	0.091	ng	# 88

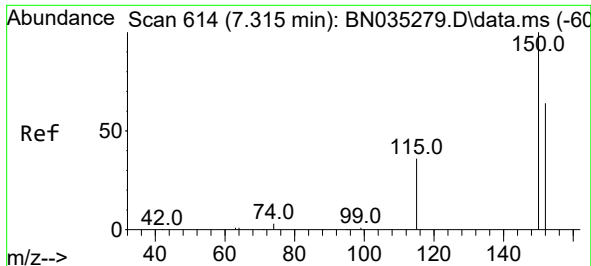
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
Data File : BN035277.D
Acq On : 25 Nov 2024 10:16
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

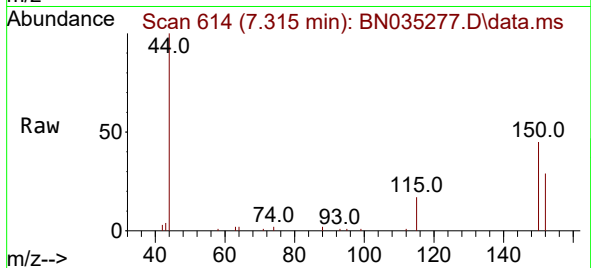
Quant Time: Nov 25 18:31:56 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 25 14:32:52 2024
Response via : Initial Calibration



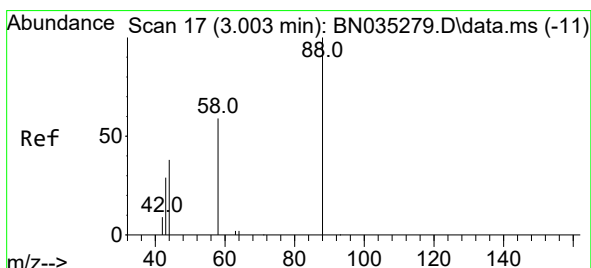
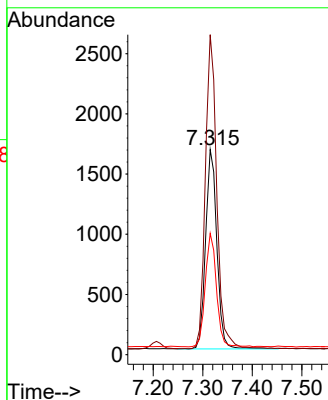
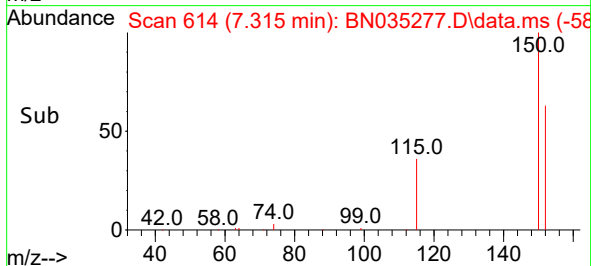


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.315 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: BN035277.D
 Acq: 25 Nov 2024 10:16

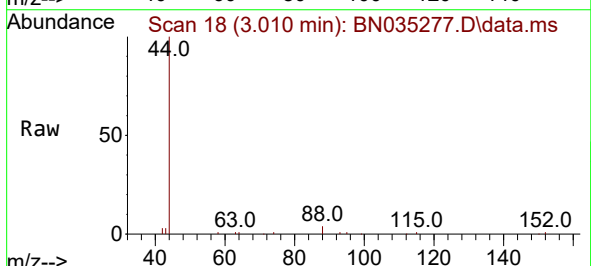
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1



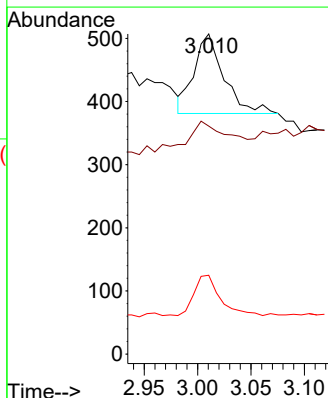
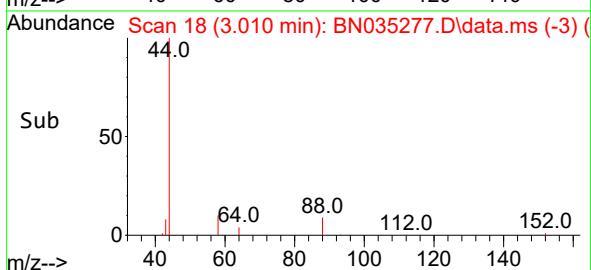
Tgt Ion:152 Resp: 2616
 Ion Ratio Lower Upper
 152 100
 150 156.0 124.5 186.7
 115 59.1 47.8 71.8

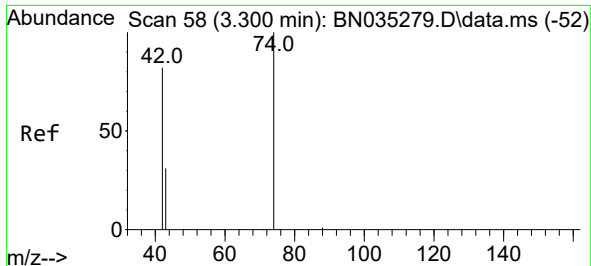


#2
 1,4-Dioxane
 Concen: 0.130 ng
 RT: 3.010 min Scan# 18
 Delta R.T. 0.007 min
 Lab File: BN035277.D
 Acq: 25 Nov 2024 10:16



Tgt Ion: 88 Resp: 245
 Ion Ratio Lower Upper
 88 100
 43 78.8 48.1 72.1#
 58 44.9 46.9 70.3#

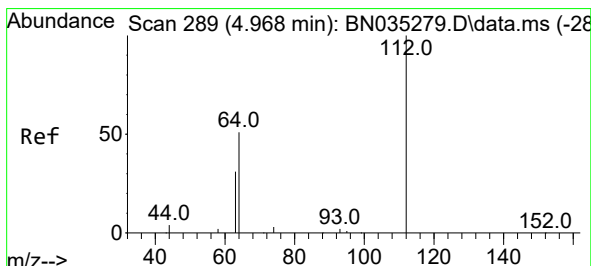
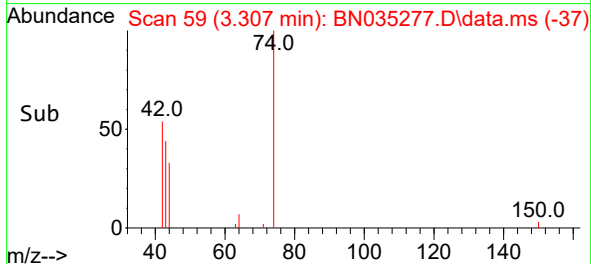
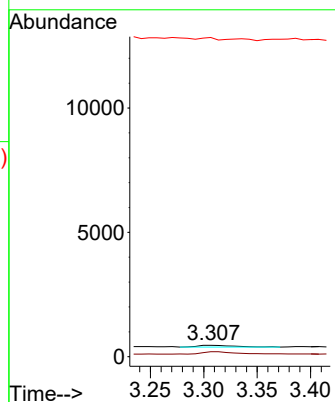
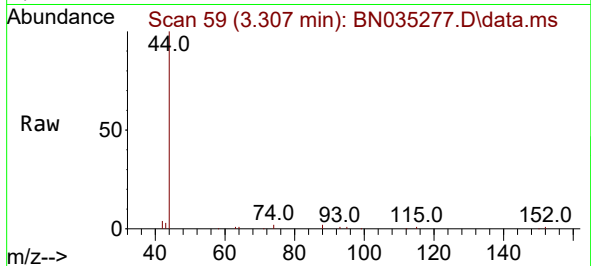




#3
 n-Nitrosodimethylamine
 Concen: 0.085 ng
 RT: 3.307 min Scan# 58
 Delta R.T. 0.007 min
 Lab File: BN035277.D
 Acq: 25 Nov 2024 10:16

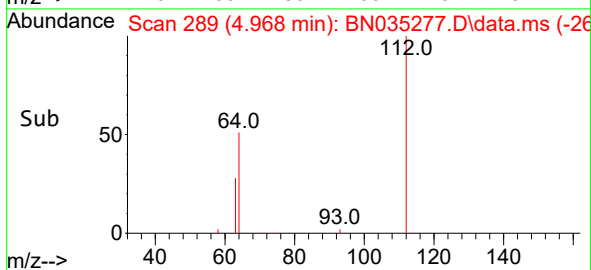
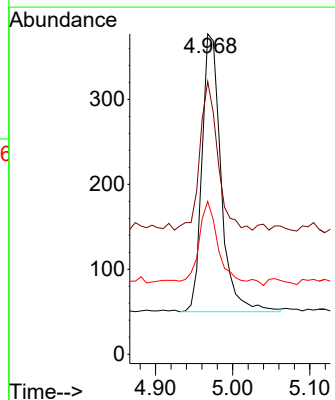
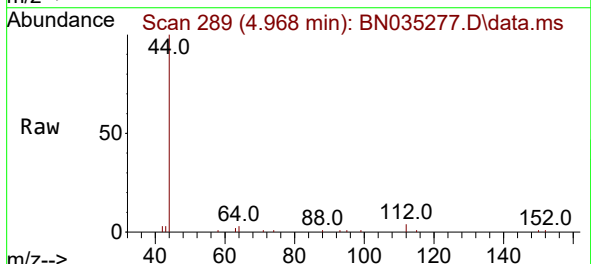
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

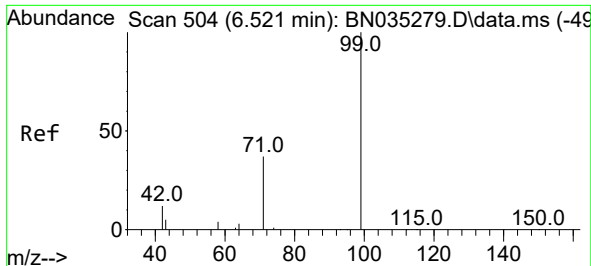
Tgt Ion: 42 Resp: 166
 Ion Ratio Lower Upper
 42 100
 74 142.8 102.7 154.1
 44 0.0 34.1 51.1#



#4
 2-Fluorophenol
 Concen: 0.114 ng
 RT: 4.968 min Scan# 289
 Delta R.T. -0.000 min
 Lab File: BN035277.D
 Acq: 25 Nov 2024 10:16

Tgt Ion: 112 Resp: 561
 Ion Ratio Lower Upper
 112 100
 64 49.9 40.4 60.6
 63 32.1 23.8 35.8

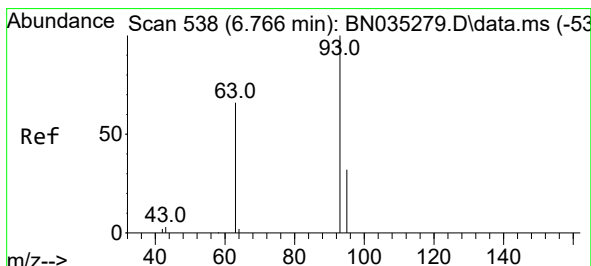
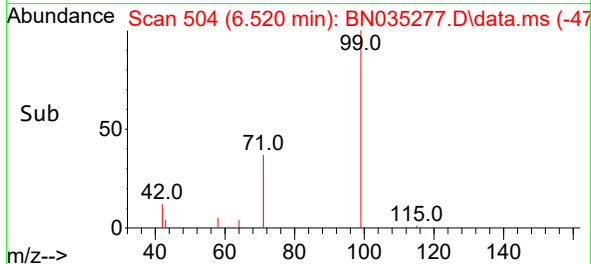
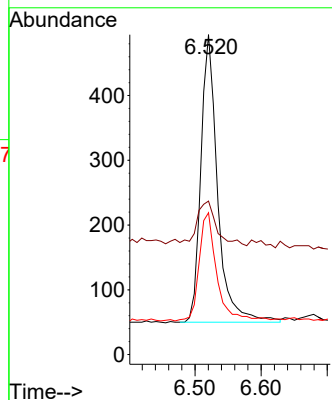
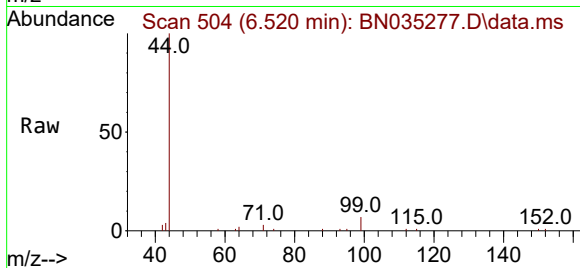




#5
Phenol-d6
Concen: 0.113 ng
RT: 6.520 min Scan# 504
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

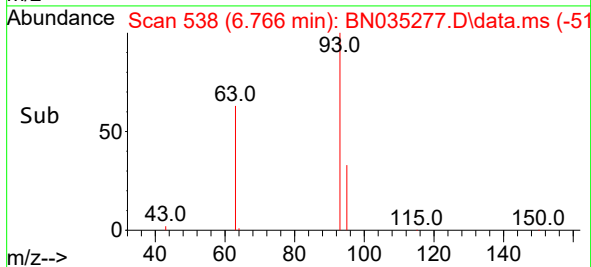
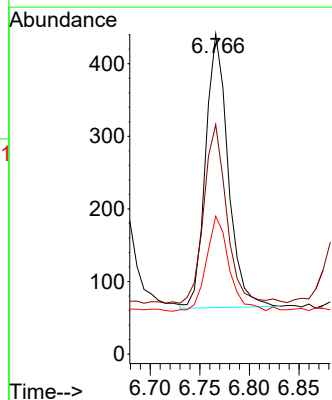
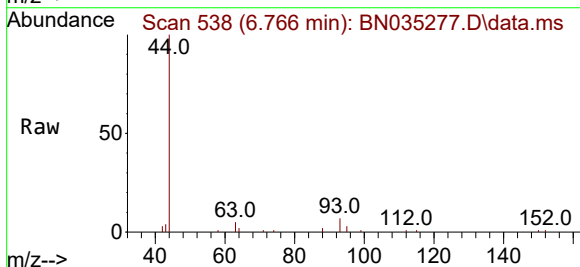
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

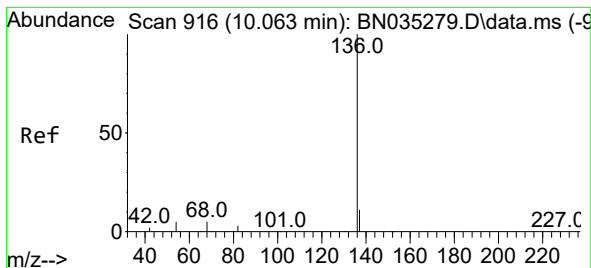
Tgt Ion: 99 Resp: 781
Ion Ratio Lower Upper
99 100
42 18.4 12.8 19.2
71 39.8 31.4 47.2



#6
bis(2-Chloroethyl)ether
Concen: 0.102 ng
RT: 6.766 min Scan# 538
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Tgt Ion: 93 Resp: 595
Ion Ratio Lower Upper
93 100
63 66.6 52.3 78.5
95 35.0 25.5 38.3





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.063 min Scan# 916

Delta R.T. -0.000 min

Lab File: BN035277.D

Acq: 25 Nov 2024 10:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

Tgt Ion:136 Resp: 6701

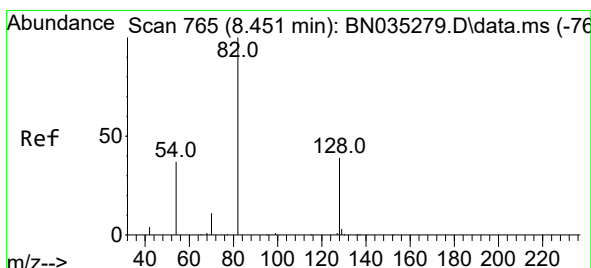
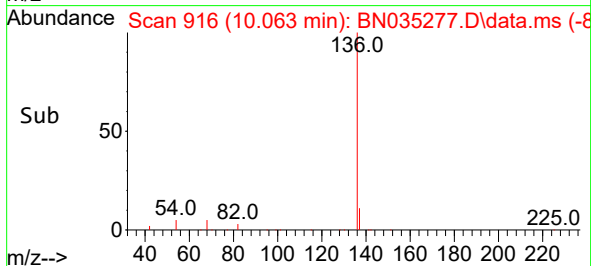
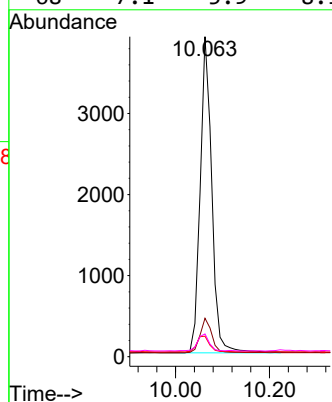
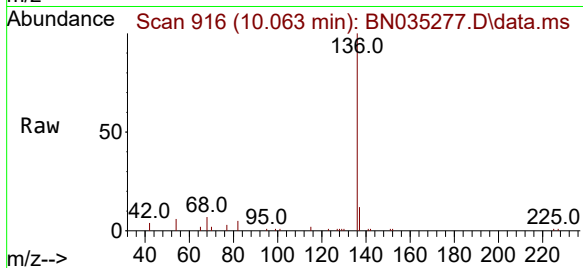
Ion Ratio Lower Upper

136 100

137 12.0 9.7 14.5

54 6.4 5.3 7.9

68 7.1 5.9 8.9



#8

Nitrobenzene-d5

Concen: 0.131 ng

RT: 8.450 min Scan# 765

Delta R.T. -0.000 min

Lab File: BN035277.D

Acq: 25 Nov 2024 10:16

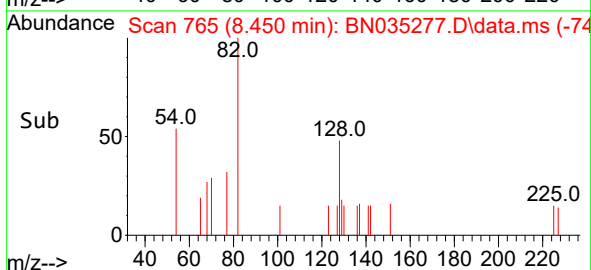
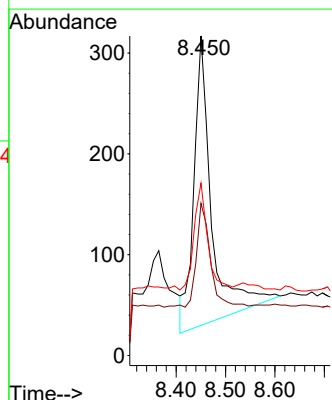
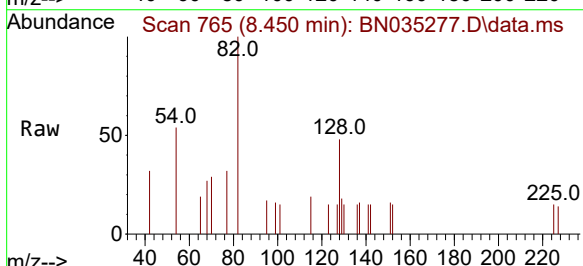
Tgt Ion: 82 Resp: 713

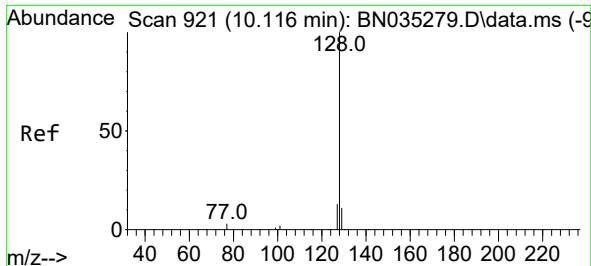
Ion Ratio Lower Upper

82 100

128 47.6 33.0 49.4

54 53.9 33.3 49.9#

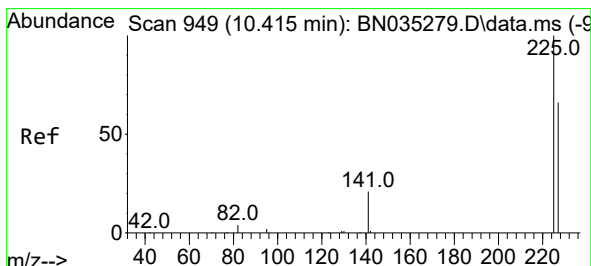
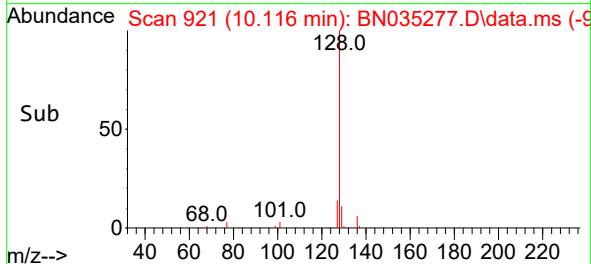
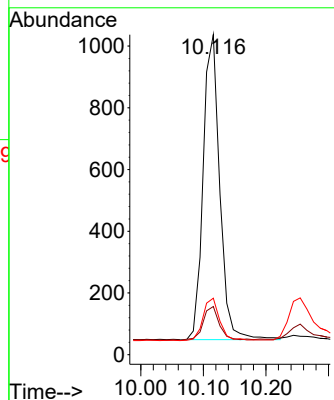
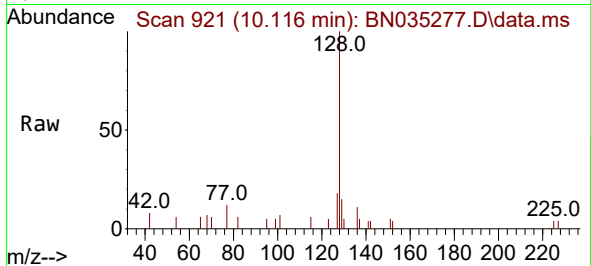




#9
Naphthalene
Concen: 0.098 ng
RT: 10.116 min Scan# 911
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

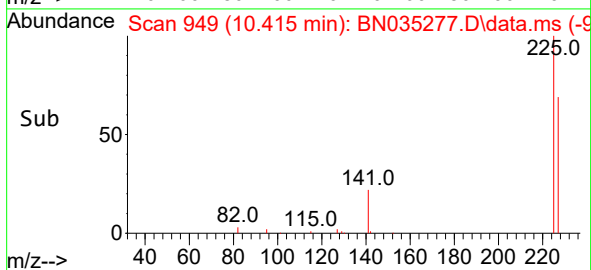
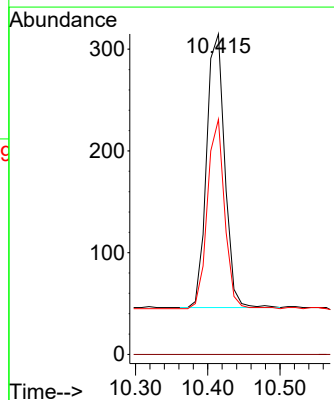
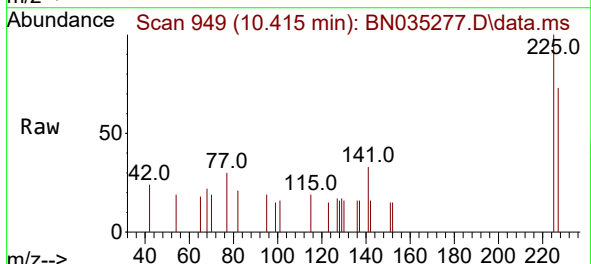
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

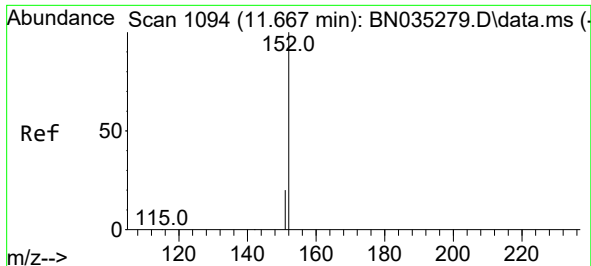
Tgt Ion:128 Resp: 1817
Ion Ratio Lower Upper
128 100
129 15.0 9.6 14.4#
127 17.6 11.3 16.9#



#10
Hexachlorobutadiene
Concen: 0.090 ng
RT: 10.415 min Scan# 949
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Tgt Ion:225 Resp: 471
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 65.6 51.3 76.9

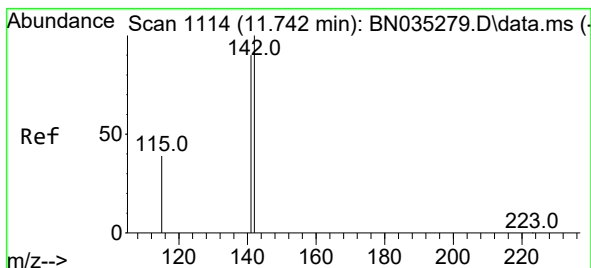
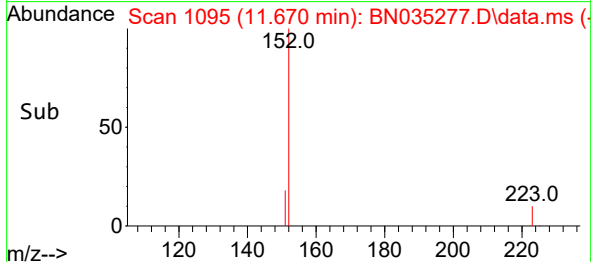
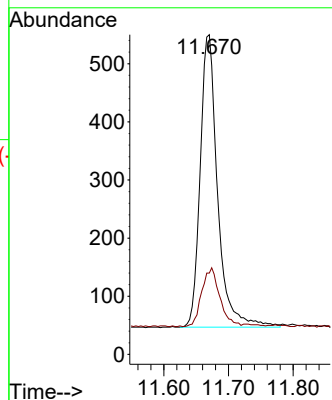
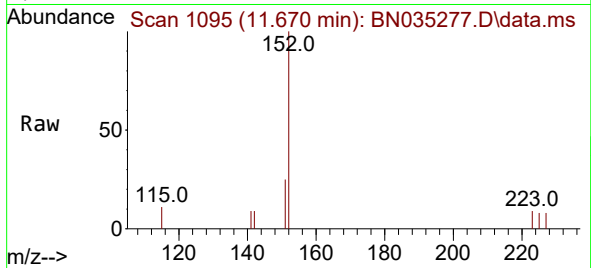




#11
2-Methylnaphthalene-d10
Concen: 0.100 ng
RT: 11.670 min Scan# 1109
Delta R.T. 0.004 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

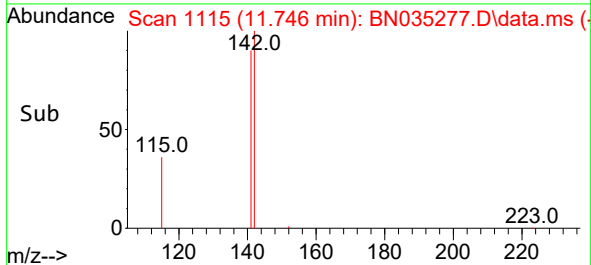
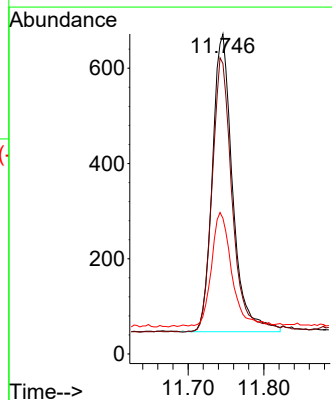
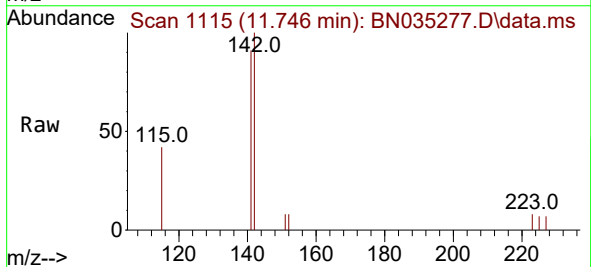
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

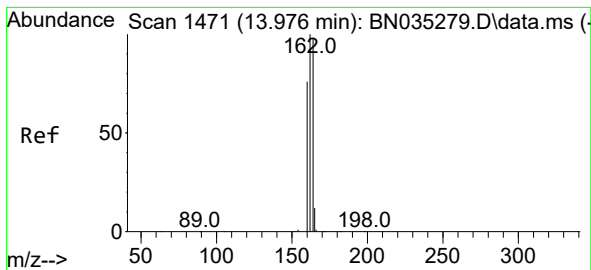
Tgt Ion:152 Resp: 939
Ion Ratio Lower Upper
152 100
151 20.7 17.2 25.8



#12
2-Methylnaphthalene
Concen: 0.095 ng
RT: 11.746 min Scan# 1115
Delta R.T. 0.004 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Tgt Ion:142 Resp: 1156
Ion Ratio Lower Upper
142 100
141 90.8 71.8 107.8
115 42.4 32.6 49.0





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 13.976 min Scan# 1471

Delta R.T. -0.000 min

Lab File: BN035277.D

Acq: 25 Nov 2024 10:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

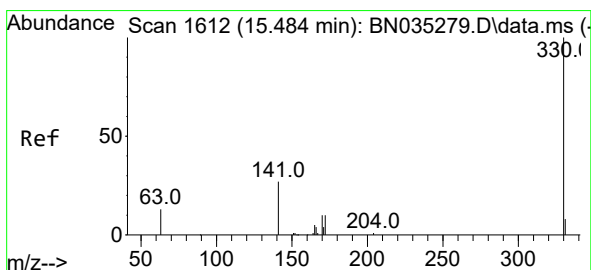
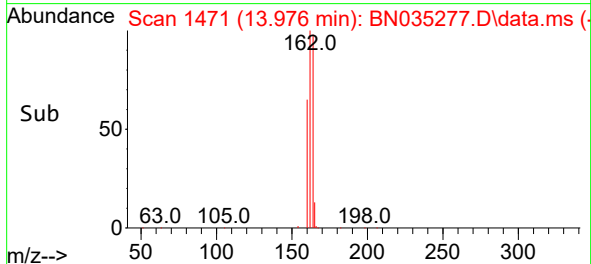
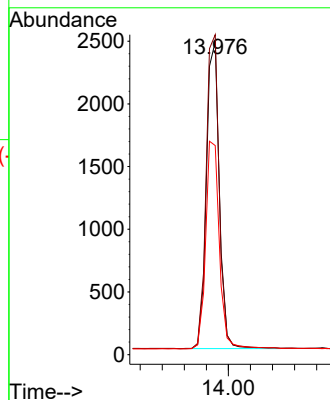
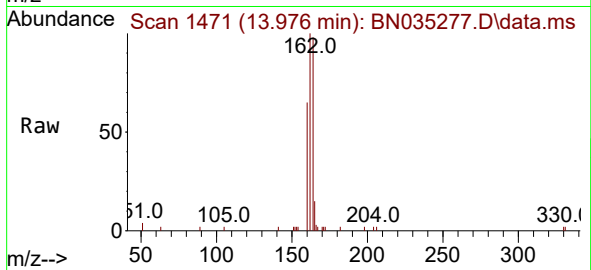
Tgt Ion:164 Resp: 3999

Ion Ratio Lower Upper

164 100

162 102.2 82.0 123.0

160 66.8 63.0 94.4



#14

2,4,6-Tribromophenol

Concen: 0.085 ng

RT: 15.484 min Scan# 1612

Delta R.T. -0.000 min

Lab File: BN035277.D

Acq: 25 Nov 2024 10:16

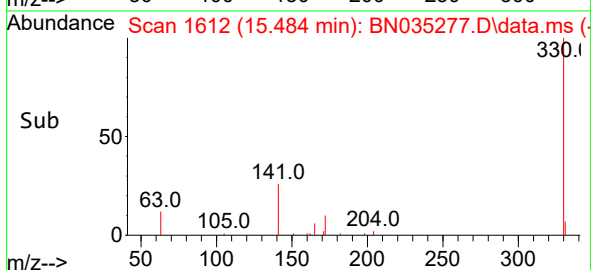
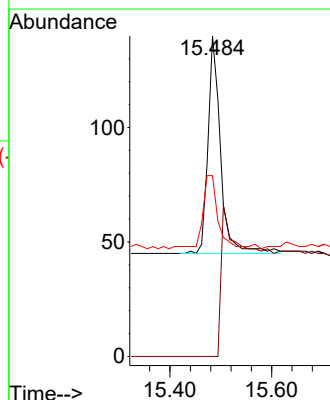
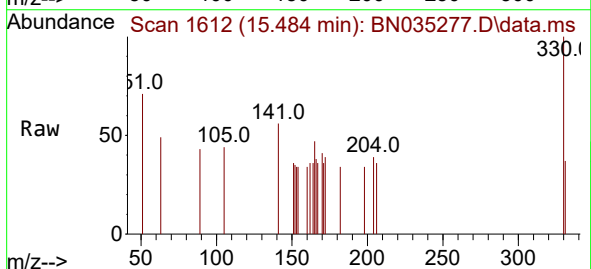
Tgt Ion:330 Resp: 174

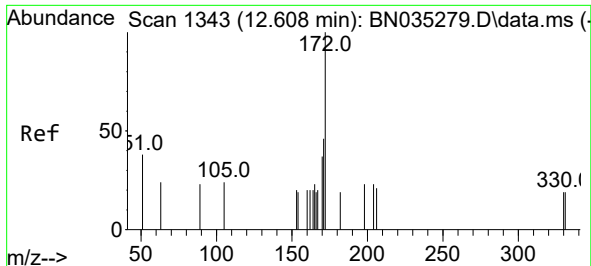
Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

141 34.5 32.4 48.6

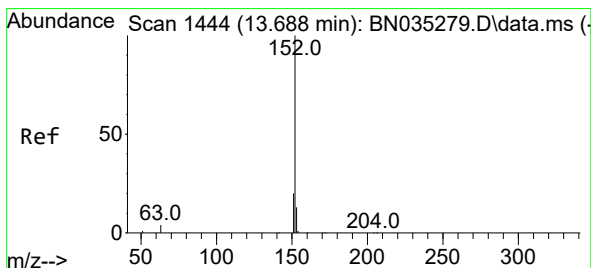
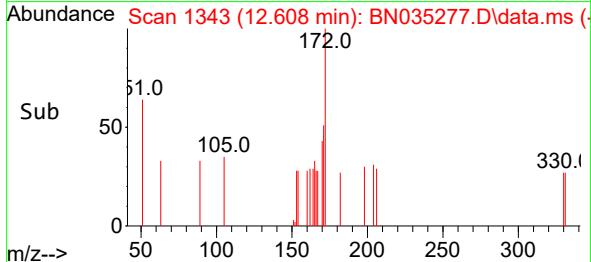
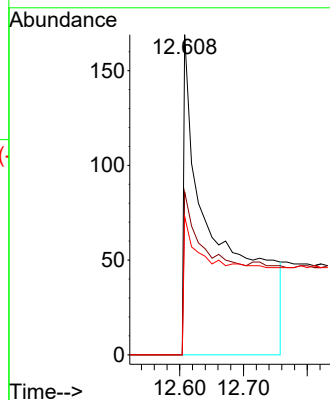
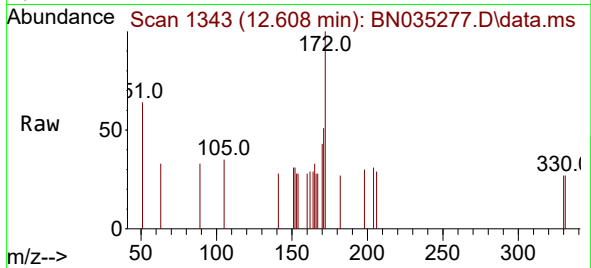




#15
2-Fluorobiphenyl
Concen: 0.269 ng
RT: 12.608 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

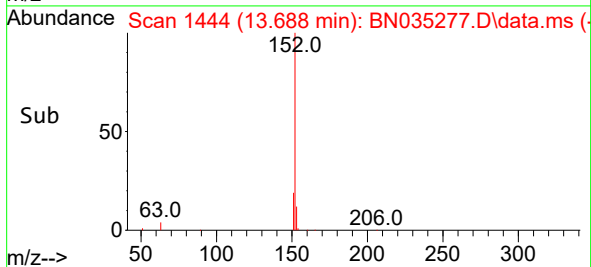
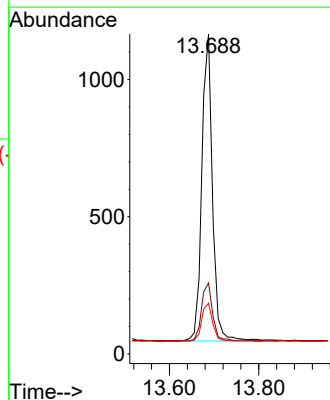
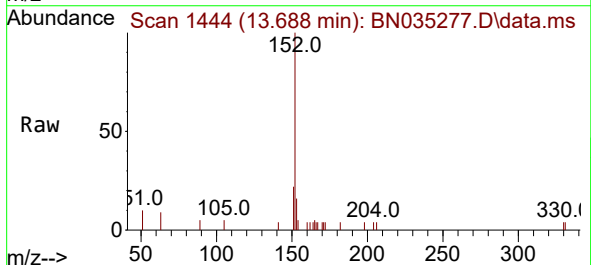
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

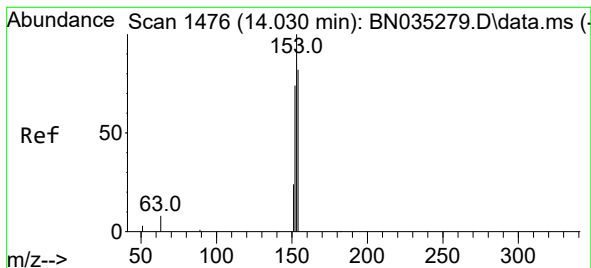
Tgt Ion:172 Resp: 595
Ion Ratio Lower Upper
172 100
171 50.9 36.6 55.0
170 43.2 29.7 44.5



#16
Acenaphthylene
Concen: 0.092 ng
RT: 13.688 min Scan# 1444
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Tgt Ion:152 Resp: 1859
Ion Ratio Lower Upper
152 100
151 19.4 15.9 23.9
153 13.4 10.2 15.4





#17

Acenaphthene

Concen: 0.090 ng

RT: 14.030 min Scan# 1476

Delta R.T. -0.000 min

Lab File: BN035277.D

Acq: 25 Nov 2024 10:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

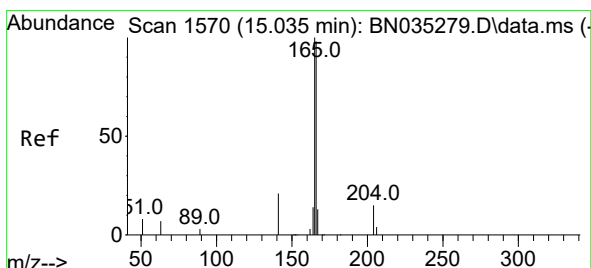
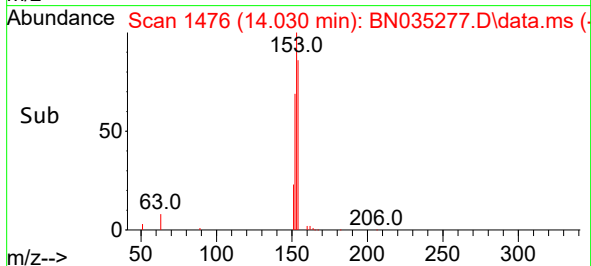
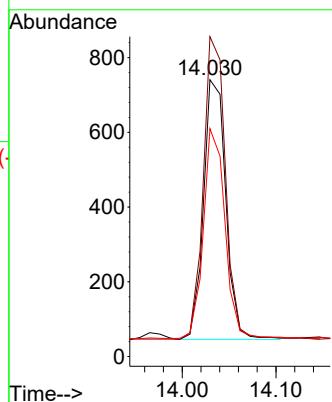
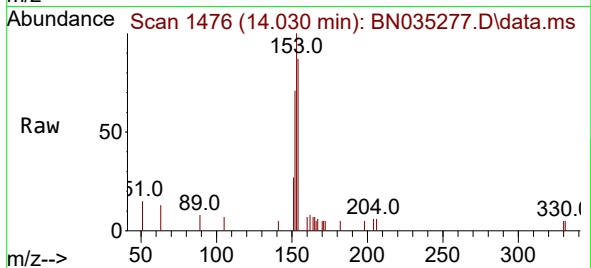
Tgt Ion:154 Resp: 1144

Ion	Ratio	Lower	Upper

154	100		

153	115.4	96.1	144.1

152	78.8	72.2	108.2



#18

Fluorene

Concen: 0.087 ng

RT: 15.035 min Scan# 1570

Delta R.T. -0.000 min

Lab File: BN035277.D

Acq: 25 Nov 2024 10:16

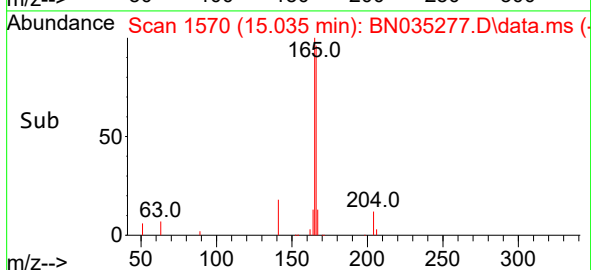
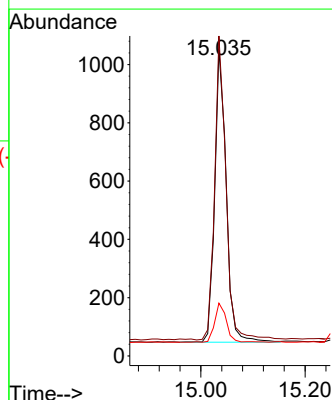
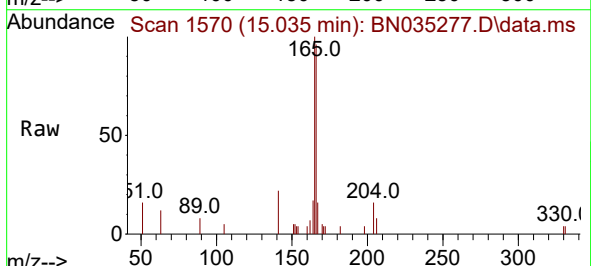
Tgt Ion:166 Resp: 1538

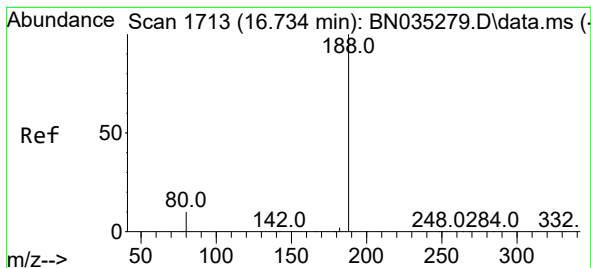
Ion	Ratio	Lower	Upper

166	100		

165	101.9	81.2	121.8

167	13.8	10.5	15.7





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.734 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN035277.D

Acq: 25 Nov 2024 10:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

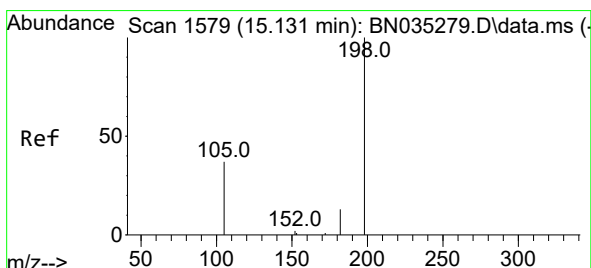
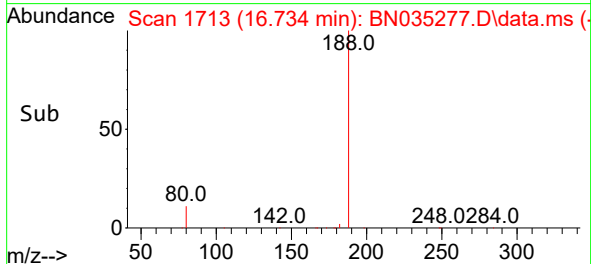
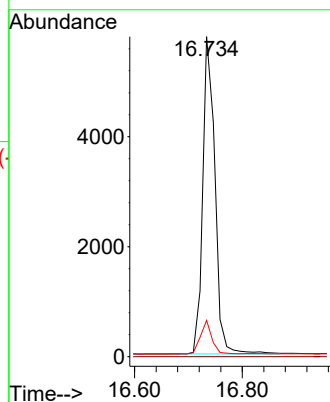
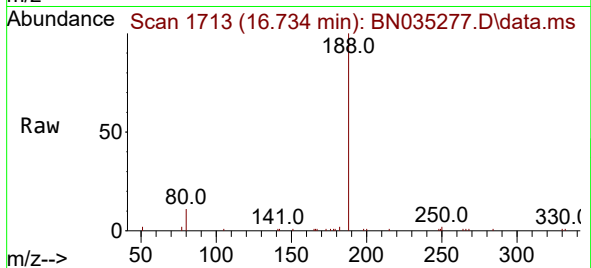
Tgt Ion:188 Resp: 9103

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.4 8.9 13.3



#20

4,6-Dinitro-2-methylphenol

Concen: 0.226 ng

RT: 15.141 min Scan# 1580

Delta R.T. 0.010 min

Lab File: BN035277.D

Acq: 25 Nov 2024 10:16

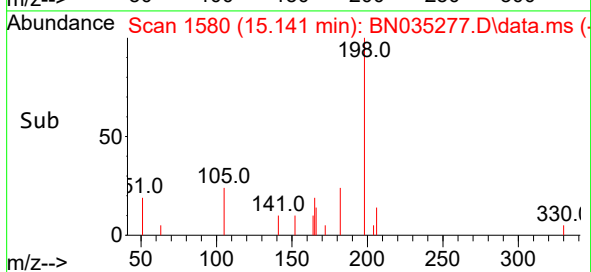
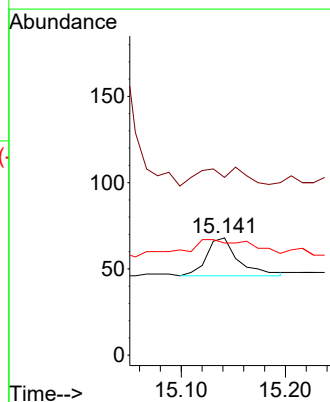
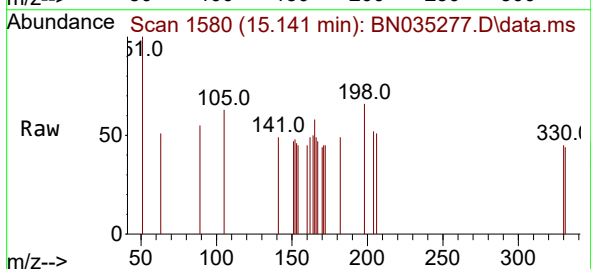
Tgt Ion:198 Resp: 47

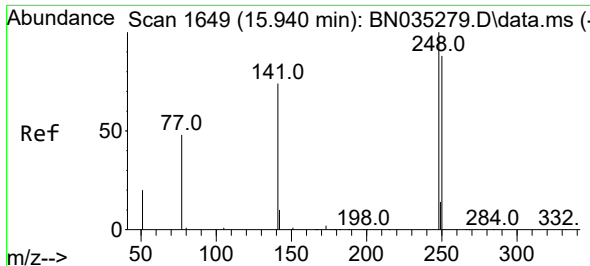
Ion Ratio Lower Upper

198 100

51 151.5 53.6 80.4#

105 95.6 47.4 71.2#

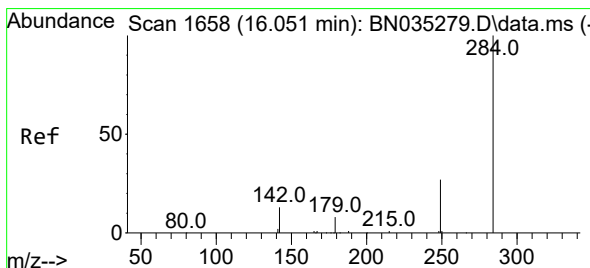
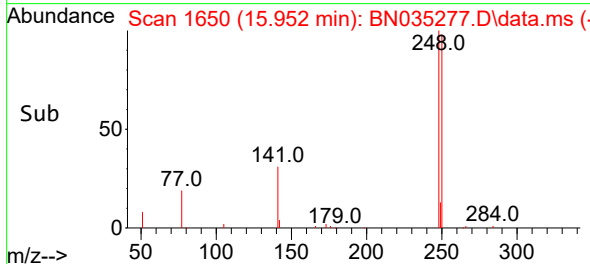
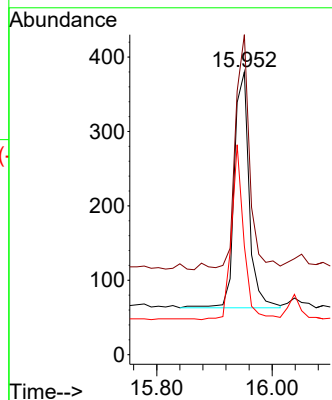
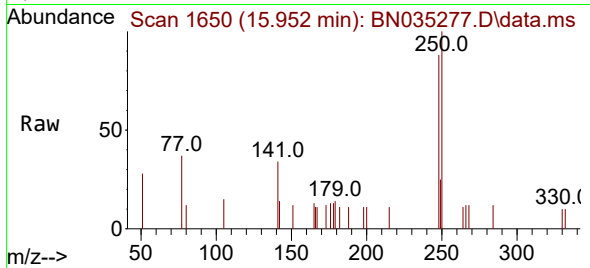




#21
4-Bromophenyl-phenylether
Concen: 0.098 ng
RT: 15.952 min Scan# 1650
Delta R.T. 0.012 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

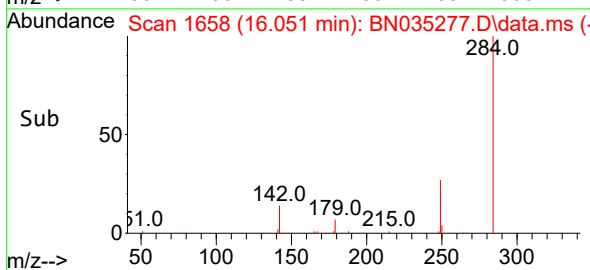
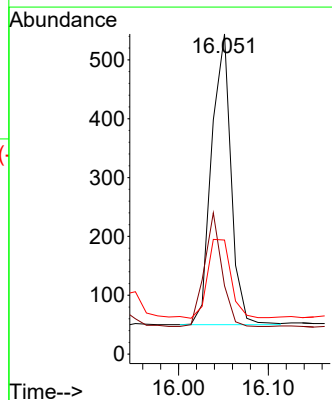
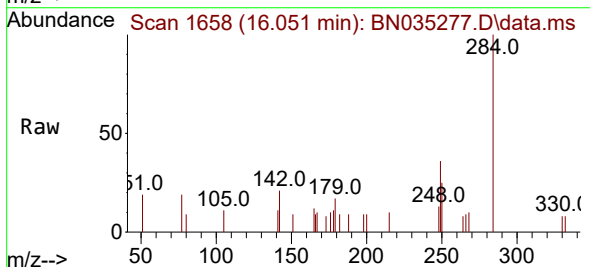
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

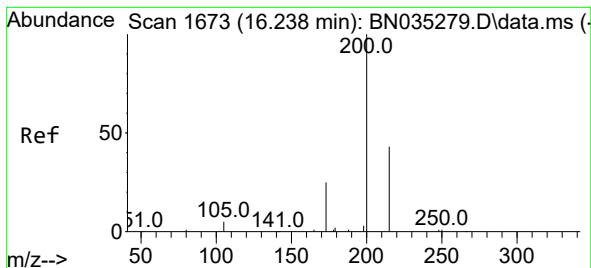
Tgt Ion:248 Resp: 565
Ion Ratio Lower Upper
248 100
250 113.2 74.8 112.2#
141 38.4 59.0 88.4#



#22
Hexachlorobenzene
Concen: 0.090 ng
RT: 16.051 min Scan# 1658
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Tgt Ion:284 Resp: 743
Ion Ratio Lower Upper
284 100
142 35.4 28.7 43.1
249 33.1 25.4 38.0





#23

Atrazine

Concen: 0.085 ng

RT: 16.237 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN035277.D

Acq: 25 Nov 2024 10:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

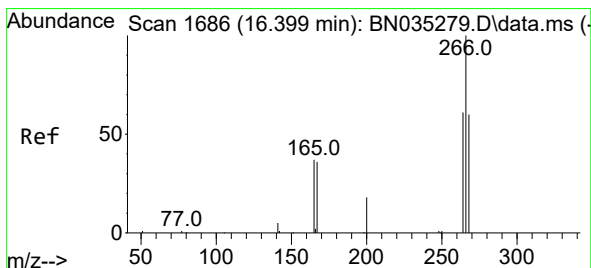
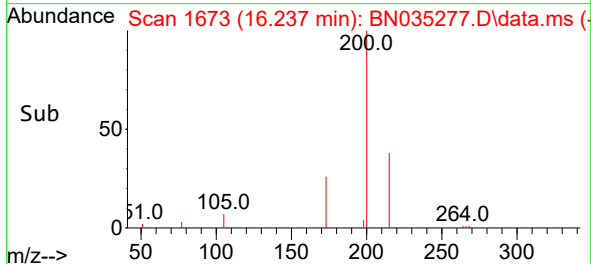
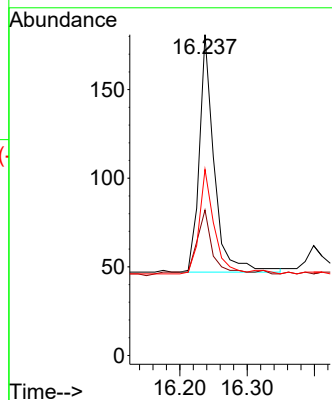
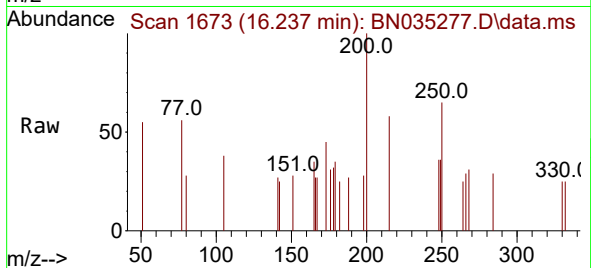
Tgt Ion:200 Resp: 206

Ion Ratio Lower Upper

200 100

173 45.3 25.8 38.8#

215 58.0 38.6 58.0#



#24

Pentachlorophenol

Concen: 0.079 ng

RT: 16.399 min Scan# 1686

Delta R.T. -0.000 min

Lab File: BN035277.D

Acq: 25 Nov 2024 10:16

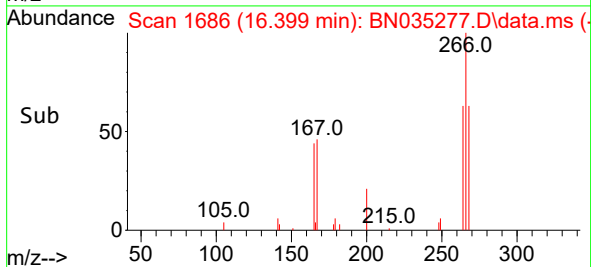
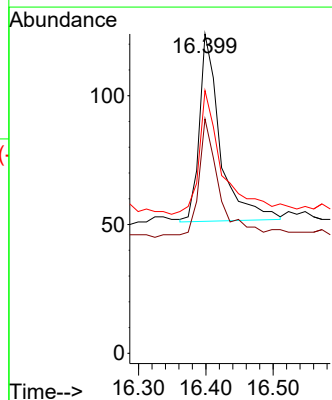
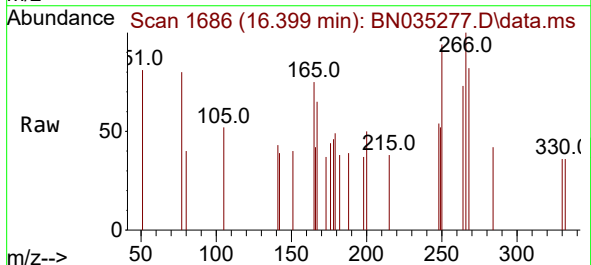
Tgt Ion:266 Resp: 157

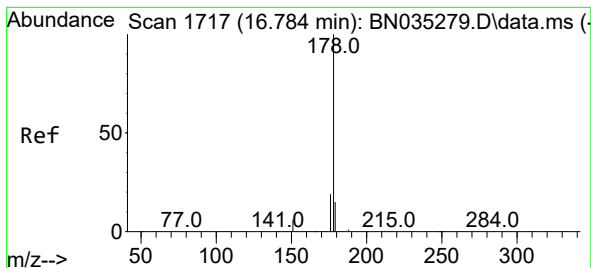
Ion Ratio Lower Upper

266 100

264 68.2 49.3 73.9

268 77.1 48.6 73.0#





#25

Phenanthrene

Concen: 0.091 ng

RT: 16.783 min Scan# 1717

Delta R.T. -0.000 min

Lab File: BN035277.D

Acq: 25 Nov 2024 10:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

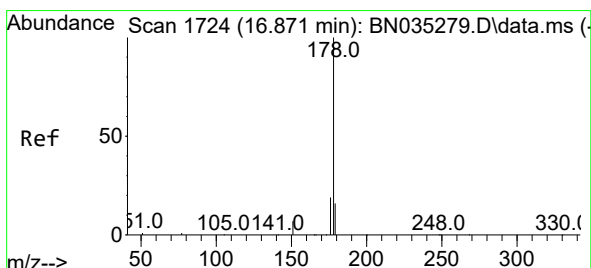
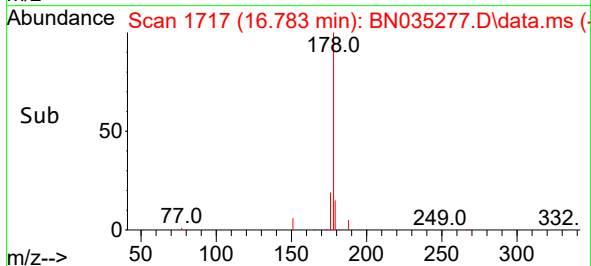
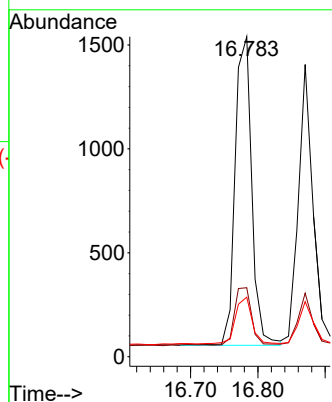
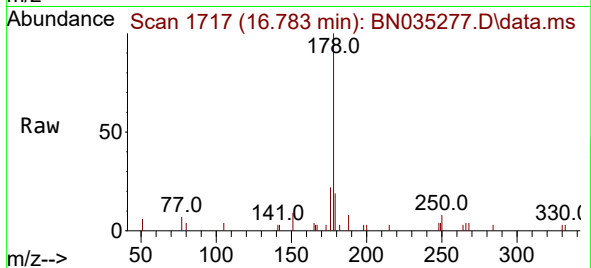
Tgt Ion:178 Resp: 2552

Ion Ratio Lower Upper

178 100

176 19.1 15.4 23.0

179 15.2 12.6 18.8



#26

Anthracene

Concen: 0.086 ng

RT: 16.870 min Scan# 1724

Delta R.T. -0.000 min

Lab File: BN035277.D

Acq: 25 Nov 2024 10:16

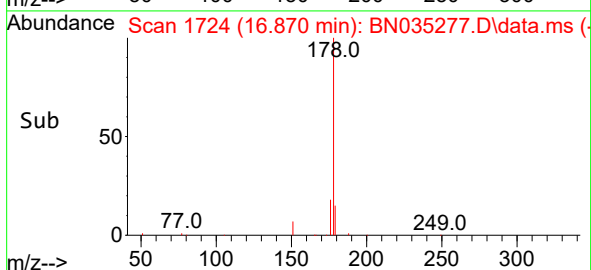
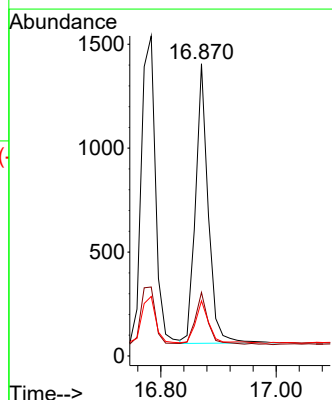
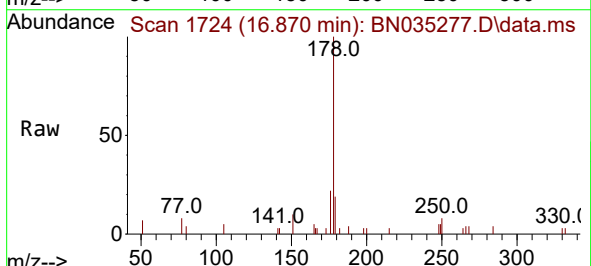
Tgt Ion:178 Resp: 2057

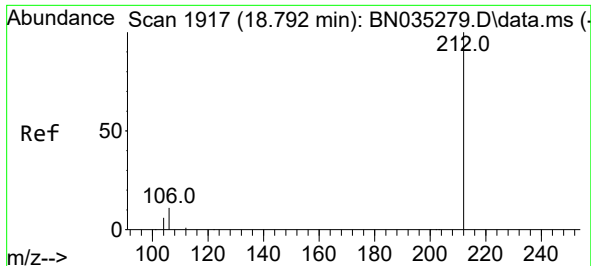
Ion Ratio Lower Upper

178 100

176 18.3 15.0 22.4

179 15.9 12.4 18.6

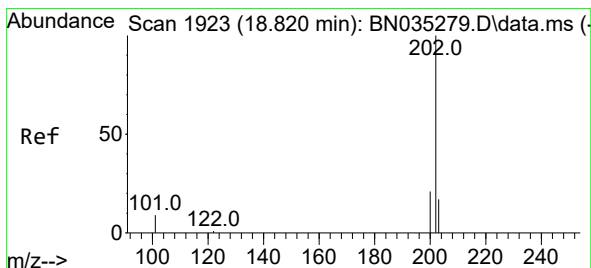
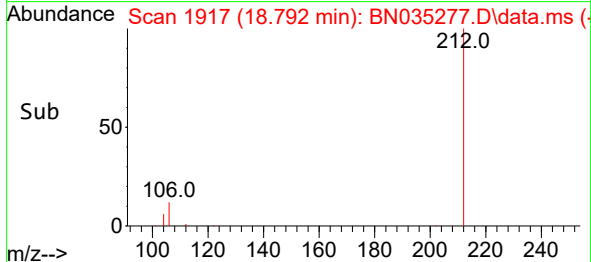
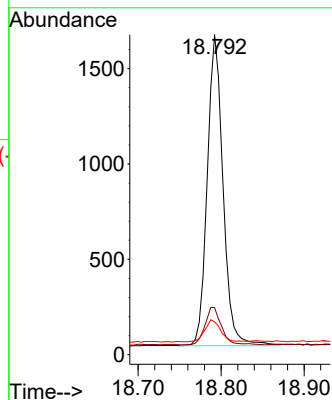
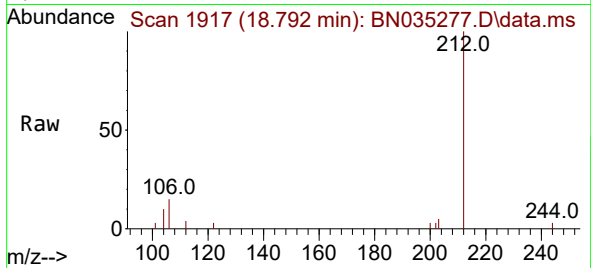




#27
Fluoranthene-d10
Concen: 0.089 ng
RT: 18.792 min Scan# 1917
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

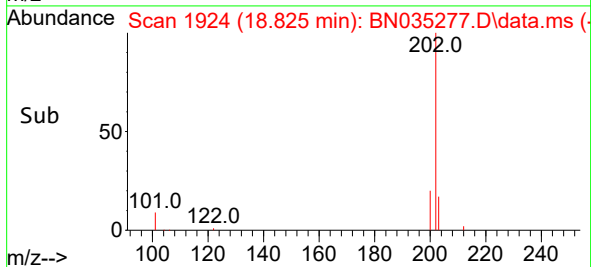
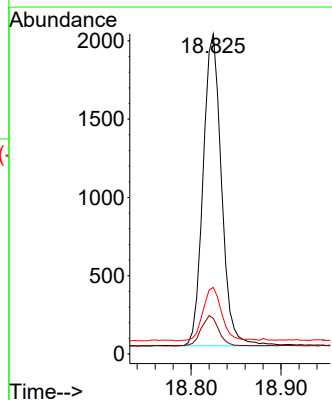
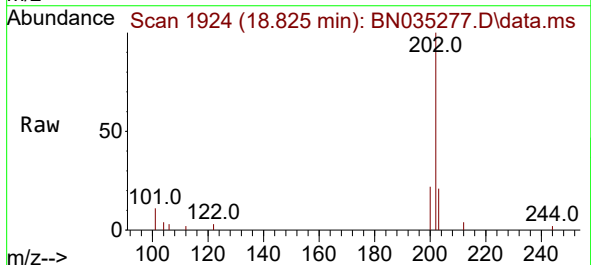
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

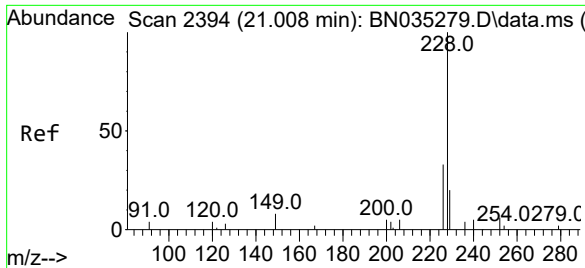
Tgt Ion:212 Resp: 2168
Ion Ratio Lower Upper
212 100
106 12.5 9.8 14.8
104 7.1 5.6 8.4



#28
Fluoranthene
Concen: 0.080 ng
RT: 18.825 min Scan# 1924
Delta R.T. 0.005 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Tgt Ion:202 Resp: 2840
Ion Ratio Lower Upper
202 100
101 9.6 7.6 11.4
203 17.6 13.8 20.8

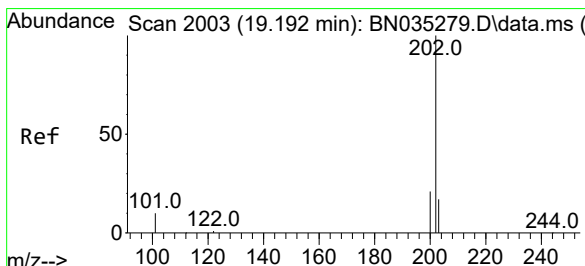
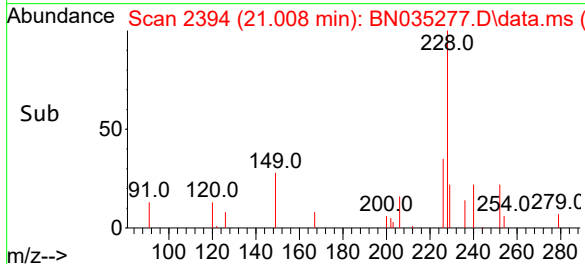
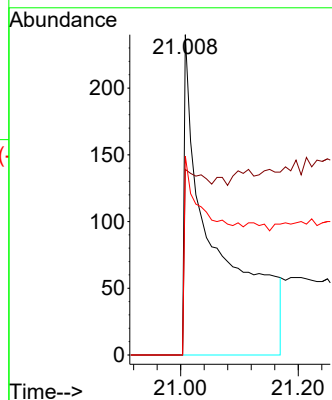
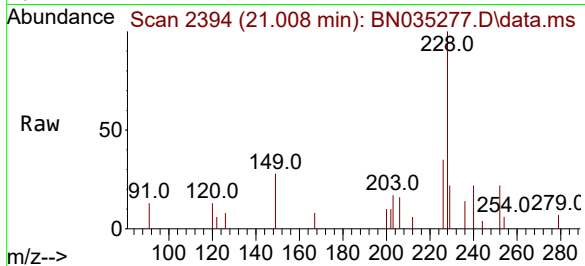




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.008 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

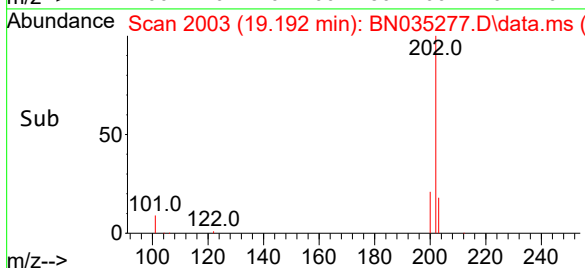
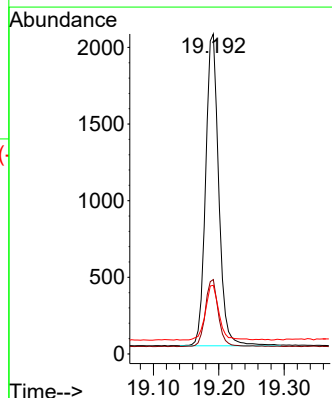
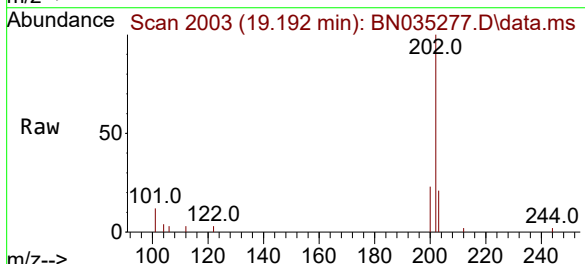
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

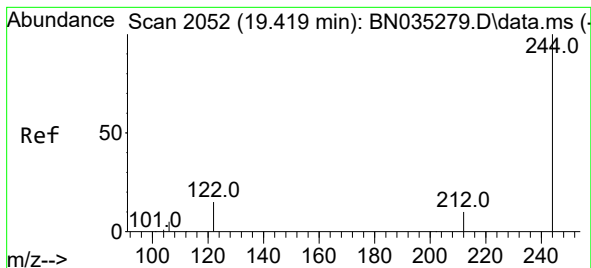
Tgt Ion:240 Resp: 834
Ion Ratio Lower Upper
240 100
120 57.9 54.9 82.3
236 62.1 54.0 81.0



#30
Pyrene
Concen: 0.093 ng
RT: 19.192 min Scan# 2003
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Tgt Ion:202 Resp: 2830
Ion Ratio Lower Upper
202 100
200 21.3 16.8 25.2
203 17.9 14.4 21.6





#31

Terphenyl-d14

Concen: 0.085 ng

RT: 19.419 min Scan# 2052

Delta R.T. 0.000 min

Lab File: BN035277.D

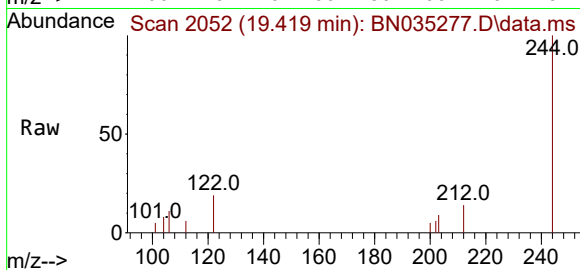
Acq: 25 Nov 2024 10:16

Instrument :

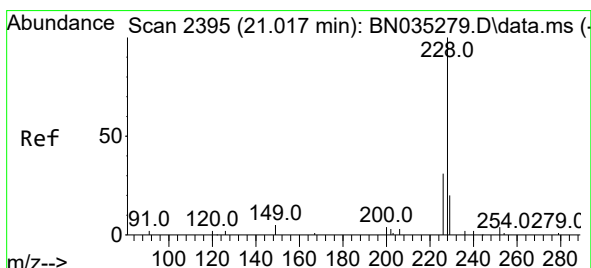
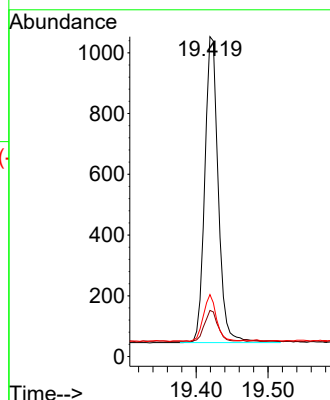
BNA_N

ClientSampleId :

SSTDICC0.1



Tgt Ion:	244	Resp:	1310
Ion	Ratio	Lower	Upper
244	100		
212	14.4	9.4	14.0#
122	19.4	13.0	19.4



#32

Benzo(a)anthracene

Concen: 0.093 ng

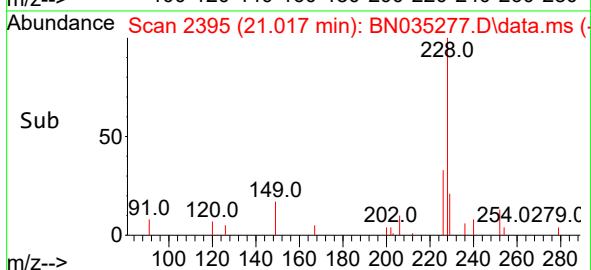
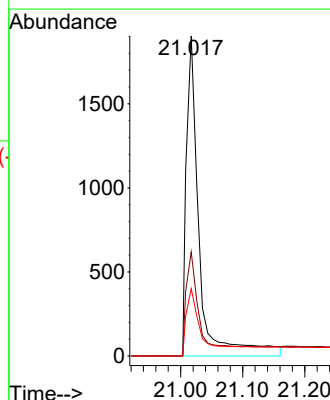
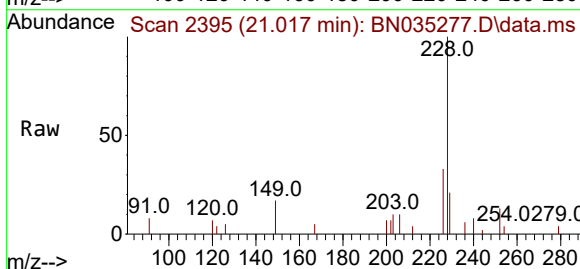
RT: 21.017 min Scan# 2395

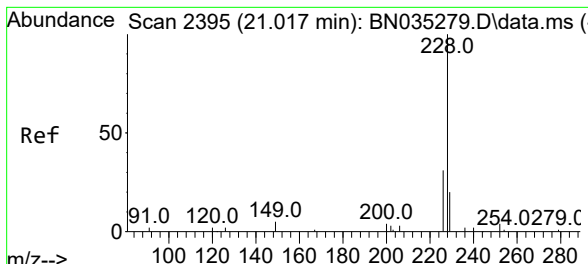
Delta R.T. 0.000 min

Lab File: BN035277.D

Acq: 25 Nov 2024 10:16

Tgt Ion:	228	Resp:	2709
Ion	Ratio	Lower	Upper
228	100		
226	32.5	24.7	37.1
229	21.0	16.2	24.2



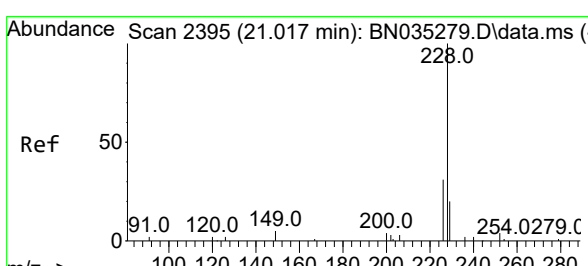
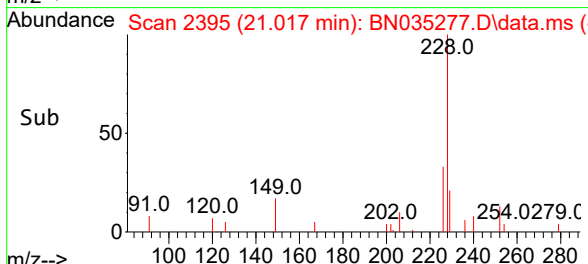
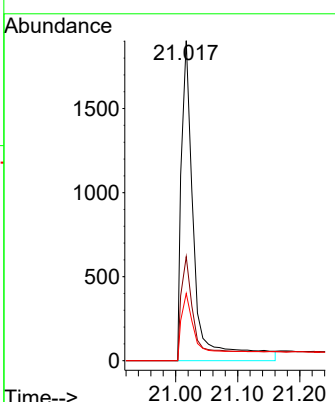
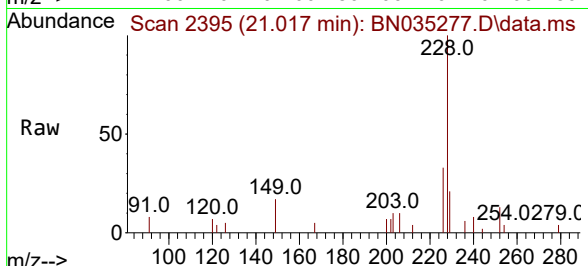


#33
 Chrysene
 Concen: 0.093 ng
 RT: 21.017 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: BN035277.D
 Acq: 25 Nov 2024 10:16

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

Tgt Ion: 228 Resp: 2709

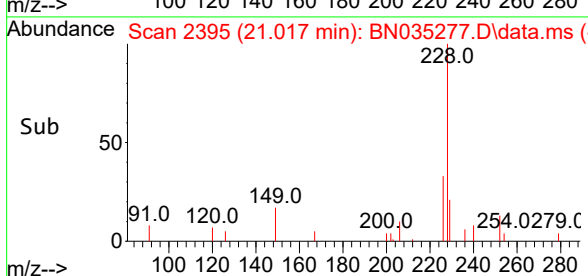
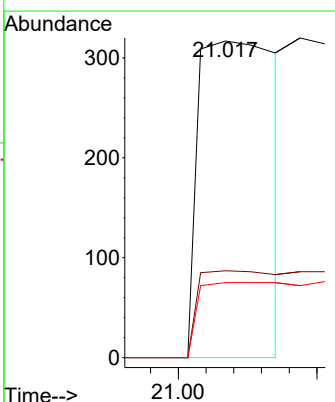
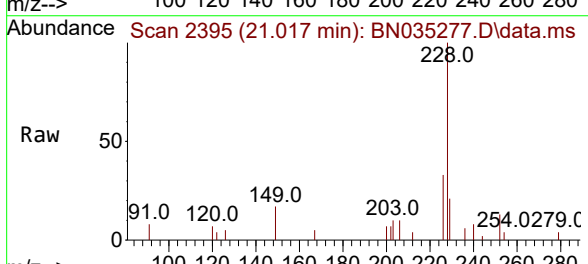
Ion	Ratio	Lower	Upper
228	100		
226	32.5	24.7	37.1
229	21.0	16.2	24.2

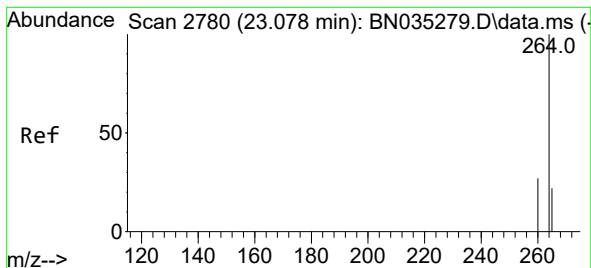


#34
 Bis(2-ethylhexyl)phthalate
 Concen: Below Cal
 RT: 21.017 min Scan# 2395
 Delta R.T. 0.000 min
 Lab File: BN035277.D
 Acq: 25 Nov 2024 10:16

Tgt Ion: 149 Resp: 540

Ion	Ratio	Lower	Upper
149	100		
167	27.4	0.0	0.0#
279	30.7	13.0	19.6#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.081 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN035277.D

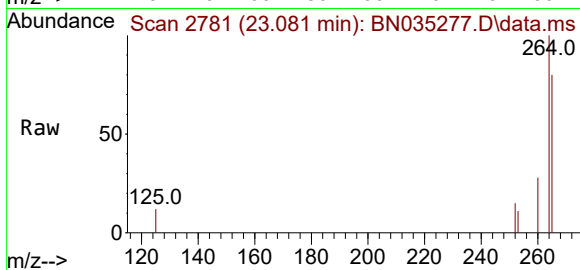
Acq: 25 Nov 2024 10:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1



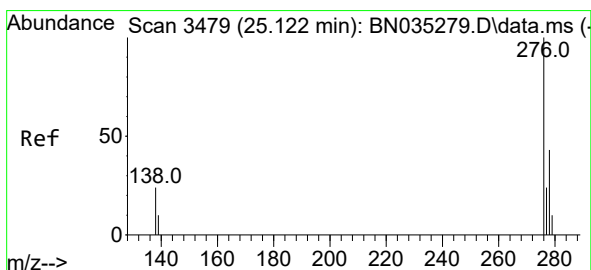
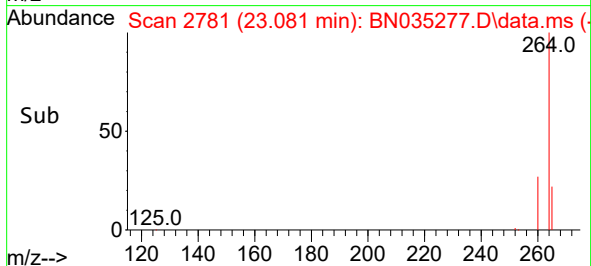
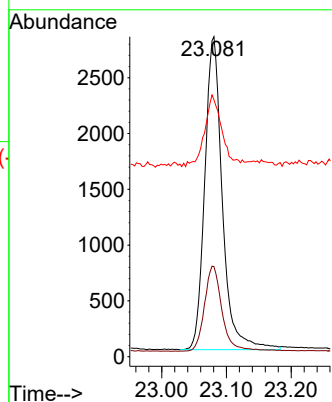
Tgt Ion:264 Resp: 5298

Ion Ratio Lower Upper

264 100

260 28.1 22.3 33.5

265 80.3 68.6 103.0



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.084 ng

RT: 25.121 min Scan# 3479

Delta R.T. -0.000 min

Lab File: BN035277.D

Acq: 25 Nov 2024 10:16

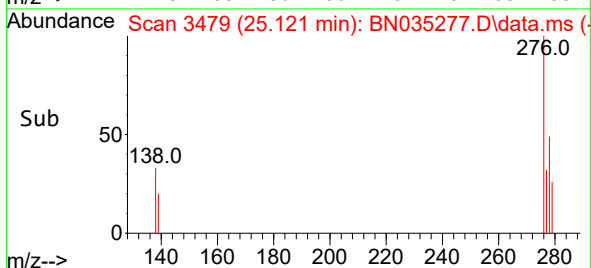
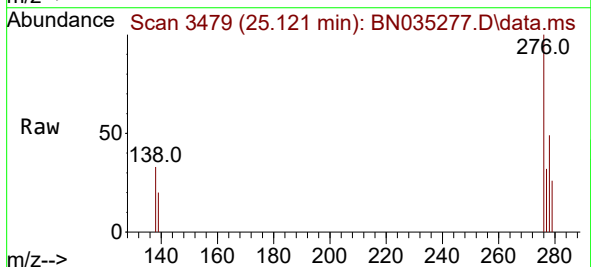
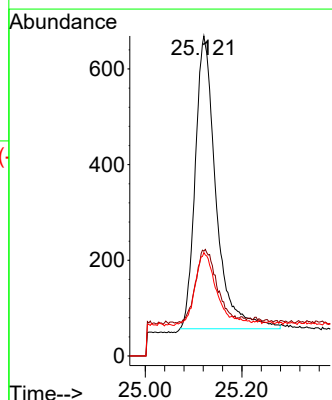
Tgt Ion:276 Resp: 1824

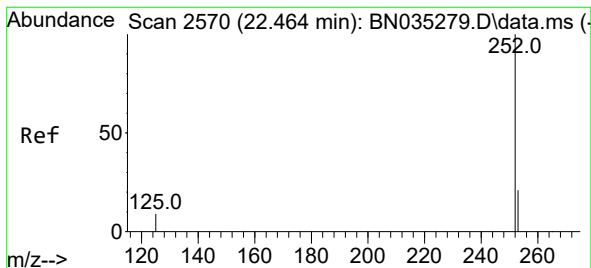
Ion Ratio Lower Upper

276 100

138 21.8 18.8 28.2

277 22.8 18.2 27.4





#37

Benzo(b)fluoranthene

Concen: 0.087 ng

RT: 22.464 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035277.D

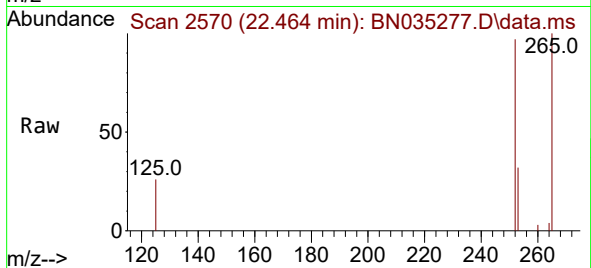
Acq: 25 Nov 2024 10:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1



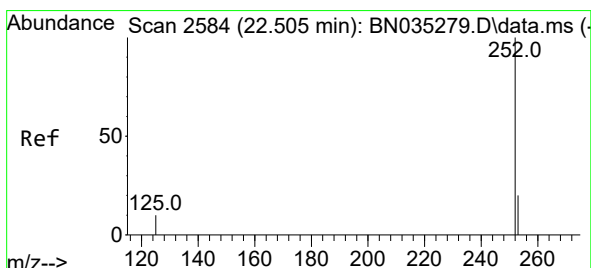
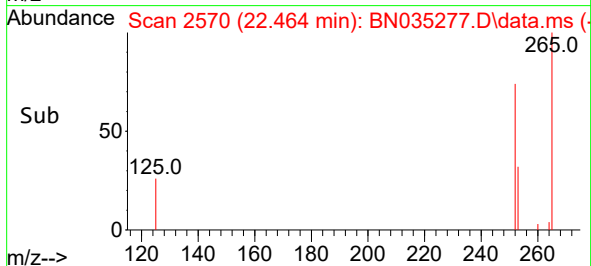
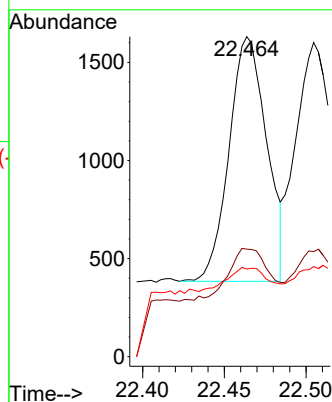
Tgt Ion:252 Resp: 1993

Ion Ratio Lower Upper

252 100

253 33.6 20.2 30.2#

125 27.4 12.0 18.0#



#38

Benzo(k)fluoranthene

Concen: 0.085 ng

RT: 22.505 min Scan# 2584

Delta R.T. -0.000 min

Lab File: BN035277.D

Acq: 25 Nov 2024 10:16

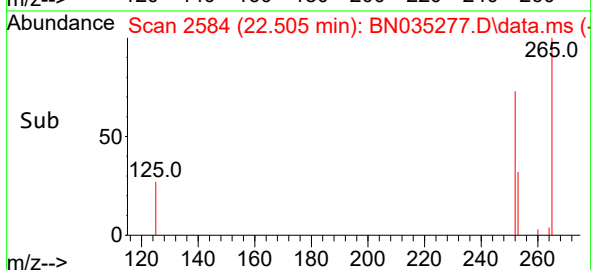
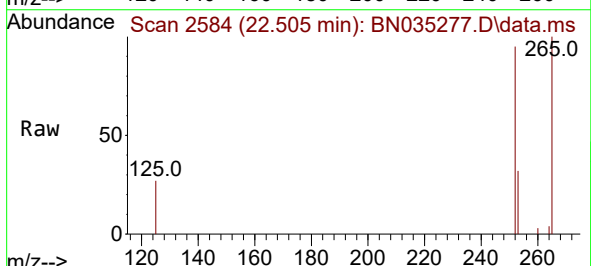
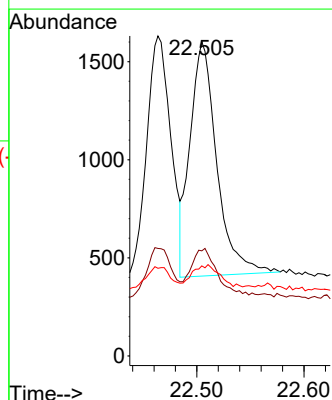
Tgt Ion:252 Resp: 2076

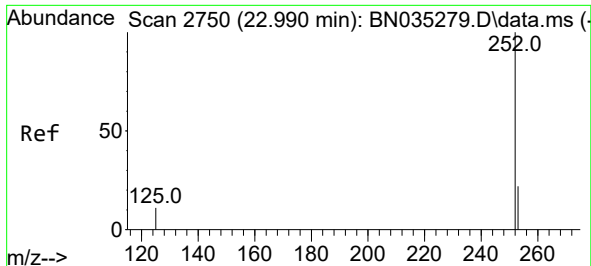
Ion Ratio Lower Upper

252 100

253 33.5 20.1 30.1#

125 28.7 12.7 19.1#





#39

Benzo(a)pyrene

Concen: 0.090 ng

RT: 22.987 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN035277.D

Acq: 25 Nov 2024 10:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

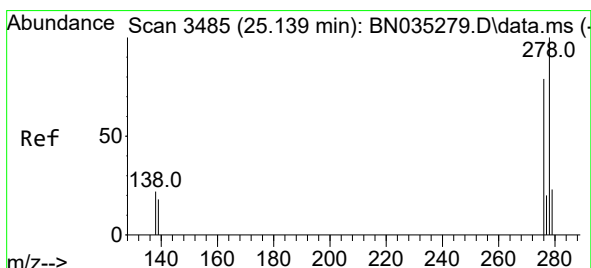
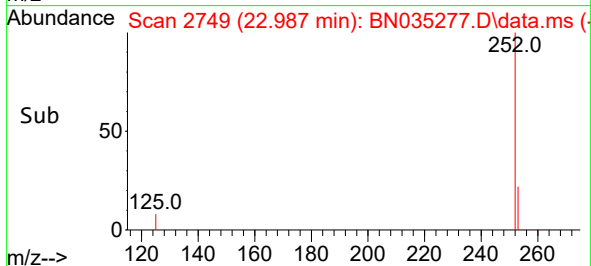
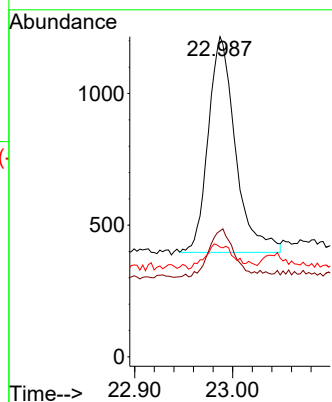
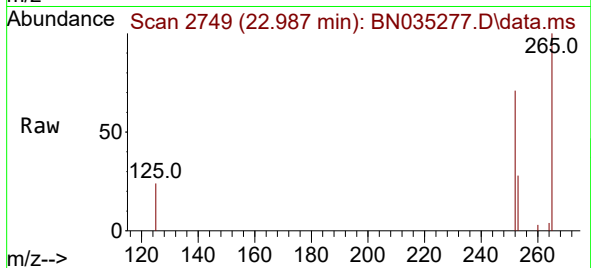
Tgt Ion:252 Resp: 1578

Ion Ratio Lower Upper

252 100

253 39.3 22.3 33.5#

125 34.3 15.3 22.9#



#40

Dibenzo(a,h)anthracene

Concen: 0.078 ng

RT: 25.142 min Scan# 3486

Delta R.T. 0.003 min

Lab File: BN035277.D

Acq: 25 Nov 2024 10:16

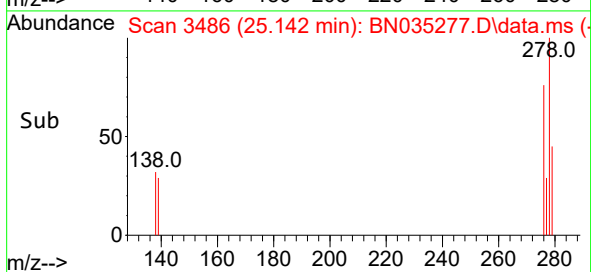
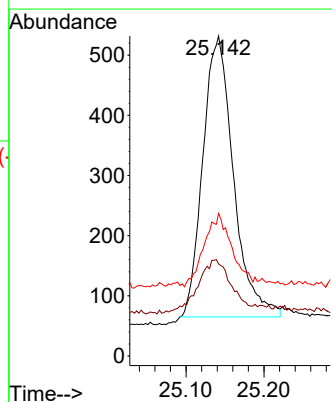
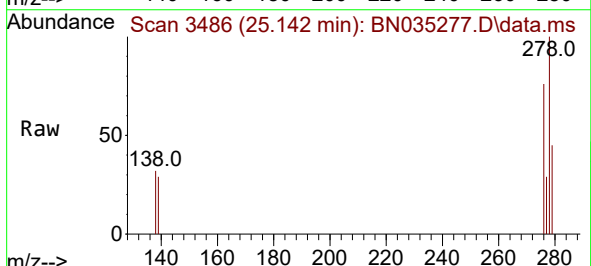
Tgt Ion:278 Resp: 1273

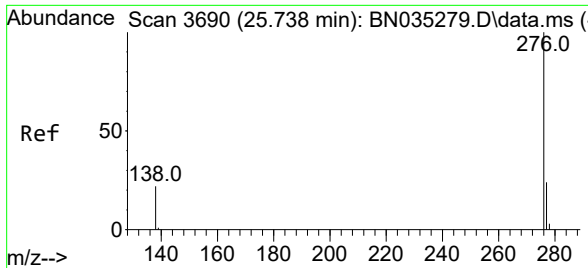
Ion Ratio Lower Upper

278 100

139 28.8 17.0 25.6#

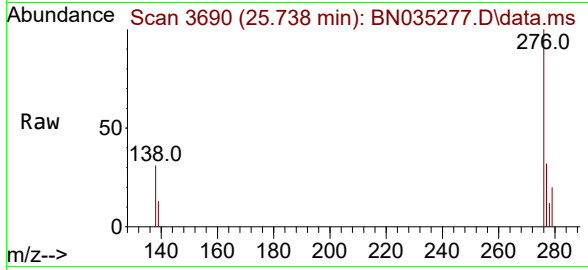
279 44.5 23.0 34.4#



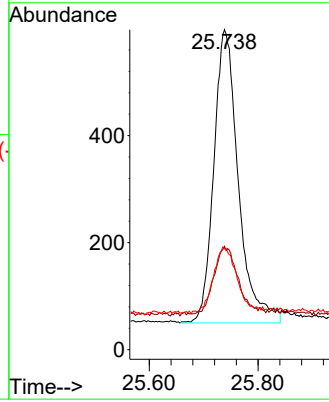
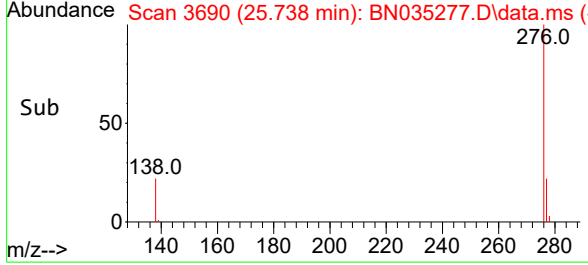


#41
Benzo(g,h,i)perylene
Concen: 0.091 ng
RT: 25.738 min Scan# 30
Delta R.T. -0.000 min
Lab File: BN035277.D
Acq: 25 Nov 2024 10:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:276 Resp: 1716
Ion Ratio Lower Upper
276 100
277 32.3 21.1 31.7#
138 31.4 19.8 29.8#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
 Data File : BN035278.D
 Acq On : 25 Nov 2024 10:52
 Operator : RC/JU
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 53 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

Quant Time: Nov 25 18:31:59 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Nov 25 14:32:52 2024
 Response via : Initial Calibration

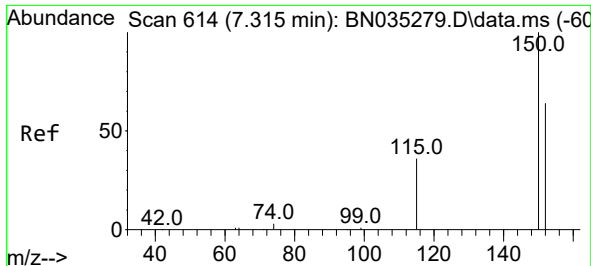
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.315	152	2248	0.400	ng	0.00
7) Naphthalene-d8	10.063	136	5670	0.400	ng	0.00
13) Acenaphthene-d10	13.976	164	3200	0.400	ng	0.00
19) Phenanthrene-d10	16.734	188	7531	0.400	ng	0.00
29) Chrysene-d12	21.008	240	797	0.400	ng	0.00
35) Perylene-d12	23.084	264	4527	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.975	112	891	0.210	ng	0.00
5) Phenol-d6	6.520	99	1264	0.213	ng	0.00
8) Nitrobenzene-d5	8.450	82	1060	0.231	ng	0.00
11) 2-Methylnaphthalene-d10	11.666	152	1506	0.190	ng	0.00
14) 2,4,6-Tribromophenol	15.484	330	279	0.171	ng	0.00
15) 2-Fluorobiphenyl	12.608	172	679	0.384	ng	0.00
27) Fluoranthene-d10	18.792	212	3625	0.180	ng	0.00
31) Terphenyl-d14	19.424	244	2197	0.149	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.003	88	310	0.192	ng	# 75
3) n-Nitrosodimethylamine	3.299	42	314	0.188	ng	# 82
6) bis(2-Chloroethyl)ether	6.766	93	978	0.196	ng	98
9) Naphthalene	10.116	128	2990	0.190	ng	96
10) Hexachlorobutadiene	10.415	225	818	0.185	ng	# 98
12) 2-Methylnaphthalene	11.742	142	1929	0.187	ng	97
16) Acenaphthylene	13.688	152	2991	0.186	ng	99
17) Acenaphthene	14.040	154	1852	0.183	ng	97
18) Fluorene	15.035	166	2587	0.182	ng	98
20) 4,6-Dinitro-2-methylph...	15.131	198	102	0.283	ng	# 49
21) 4-Bromophenyl-phenylether	15.952	248	888	0.186	ng	# 70
22) Hexachlorobenzene	16.051	284	1264	0.185	ng	98
23) Atrazine	16.237	200	357	0.177	ng	92
24) Pentachlorophenol	16.399	266	252	0.154	ng	97
25) Phenanthrene	16.783	178	4155	0.180	ng	100
26) Anthracene	16.870	178	3384	0.170	ng	99
28) Fluoranthene	18.825	202	4828	0.165	ng	100
30) Pyrene	19.192	202	4697	0.162	ng	99
32) Benzo(a)anthracene	21.017	228	4459	0.161	ng	99
33) Chrysene	21.017	228	4459	0.161	ng	99
34) Bis(2-ethylhexyl)phtha...	21.017	149	696	0.104	ng	# 92
36) Indeno(1,2,3-cd)pyrene	25.121	276	3191	0.172	ng	99
37) Benzo(b)fluoranthene	22.467	252	3513	0.179	ng	# 90
38) Benzo(k)fluoranthene	22.505	252	3588	0.172	ng	# 90
39) Benzo(a)pyrene	22.990	252	2673	0.178	ng	# 87
40) Dibenzo(a,h)anthracene	25.142	278	2328	0.166	ng	# 90
41) Benzo(g,h,i)perylene	25.741	276	2967	0.183	ng	95

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

Quant Time: Nov 25 18:31:59 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 25 14:32:52 2024
Response via : Initial Calibration

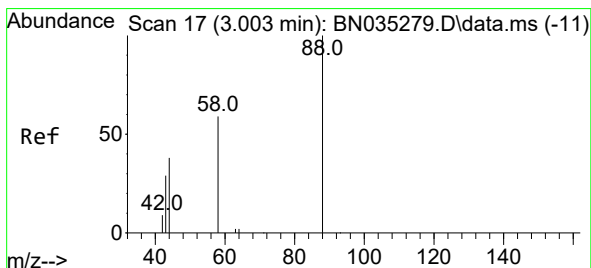
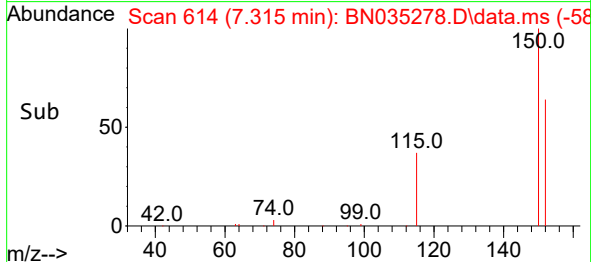
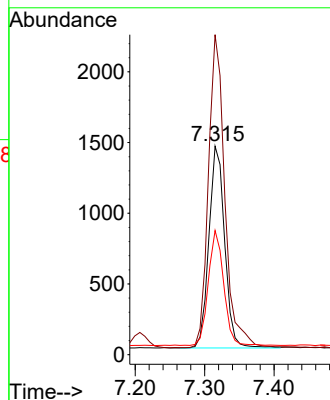
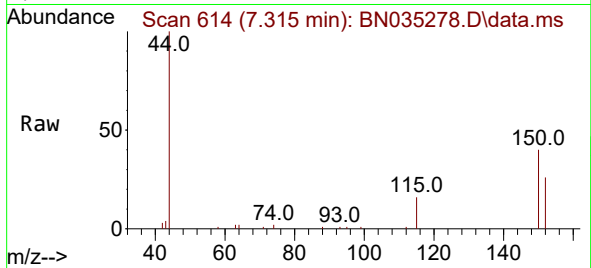




#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.315 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: BN035278.D
 Acq: 25 Nov 2024 10:52

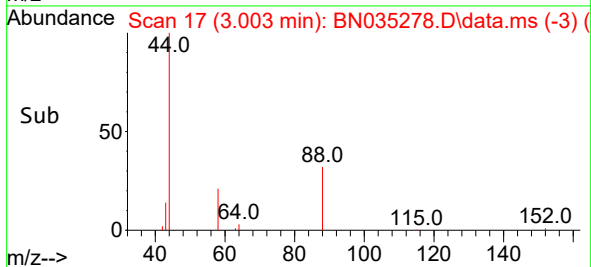
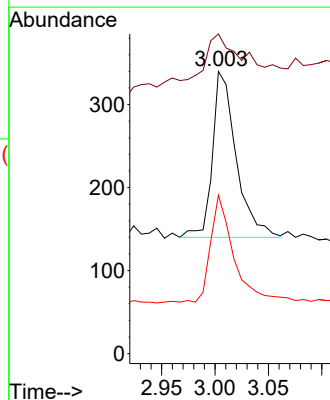
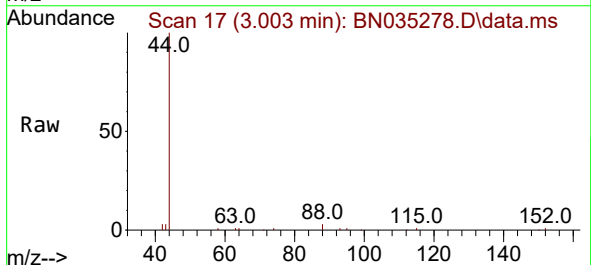
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

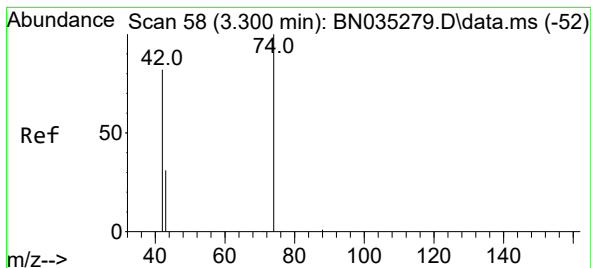
Tgt Ion:152 Resp: 2248
 Ion Ratio Lower Upper
 152 100
 150 153.5 124.5 186.7
 115 59.6 47.8 71.8



#2
 1,4-Dioxane
 Concen: 0.192 ng
 RT: 3.003 min Scan# 17
 Delta R.T. 0.000 min
 Lab File: BN035278.D
 Acq: 25 Nov 2024 10:52

Tgt Ion: 88 Resp: 310
 Ion Ratio Lower Upper
 88 100
 43 91.0 48.1 72.1#
 58 65.5 46.9 70.3





#3

n-Nitrosodimethylamine

Concen: 0.188 ng

RT: 3.299 min Scan# 51

Delta R.T. -0.001 min

Lab File: BN035278.D

Acq: 25 Nov 2024 10:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

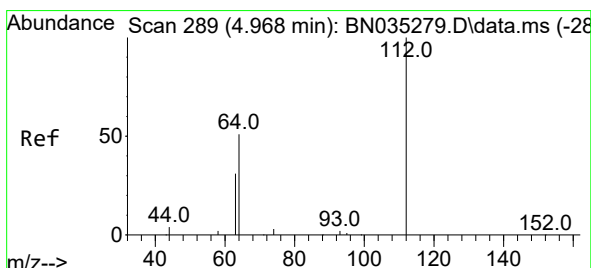
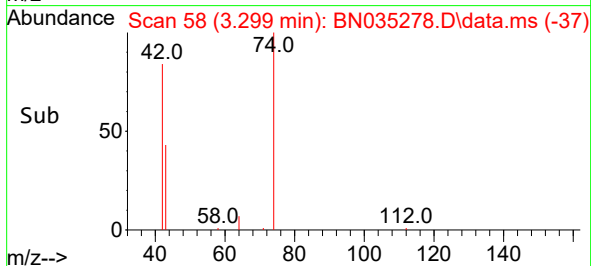
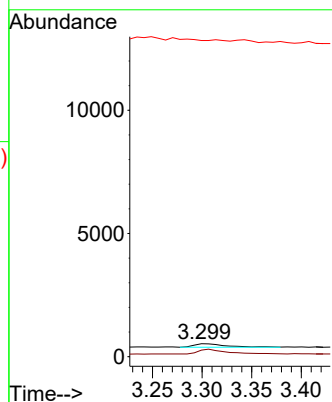
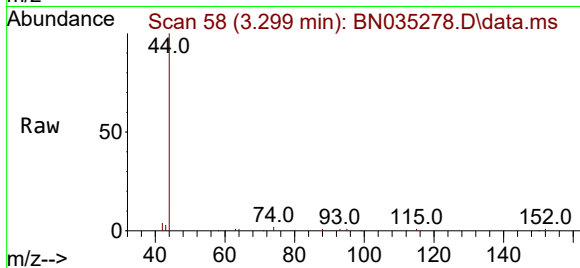
Tgt Ion: 42 Resp: 314

Ion Ratio Lower Upper

42 100

74 125.8 102.7 154.1

44 0.0 34.1 51.1#



#4

2-Fluorophenol

Concen: 0.210 ng

RT: 4.975 min Scan# 290

Delta R.T. 0.007 min

Lab File: BN035278.D

Acq: 25 Nov 2024 10:52

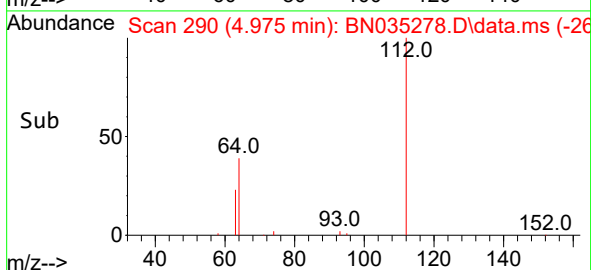
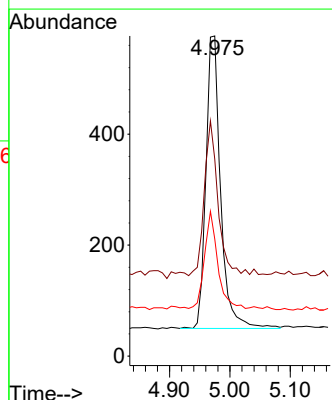
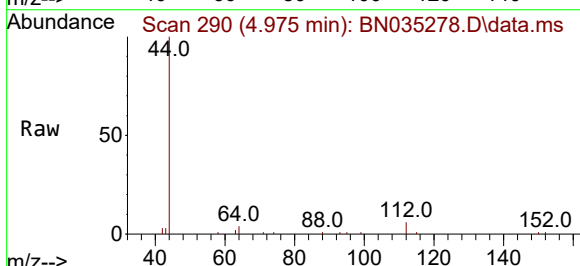
Tgt Ion: 112 Resp: 891

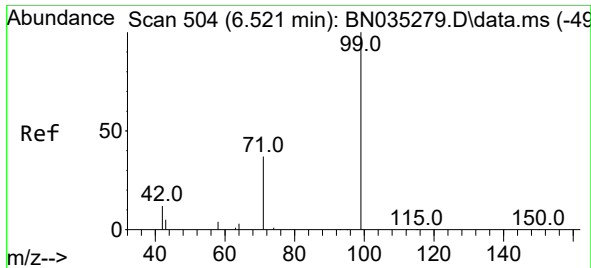
Ion Ratio Lower Upper

112 100

64 50.3 40.4 60.6

63 29.5 23.8 35.8

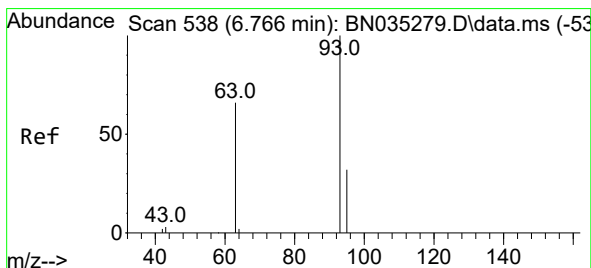
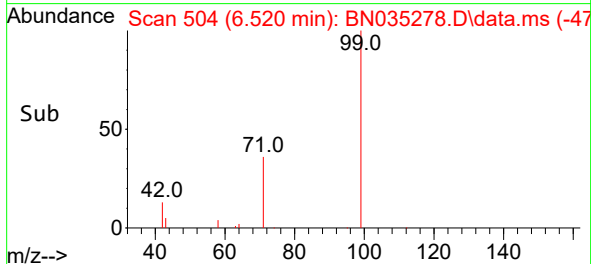
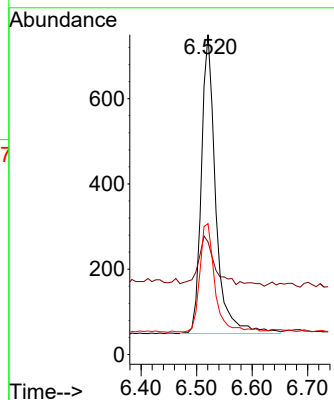
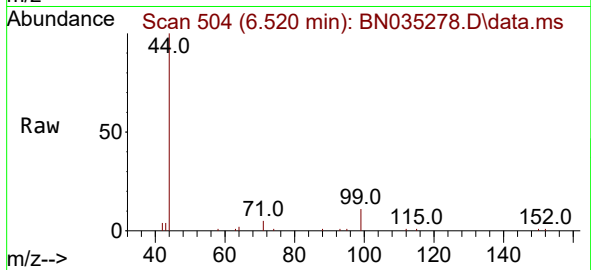




#5
Phenol-d6
Concen: 0.213 ng
RT: 6.520 min Scan# 504
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

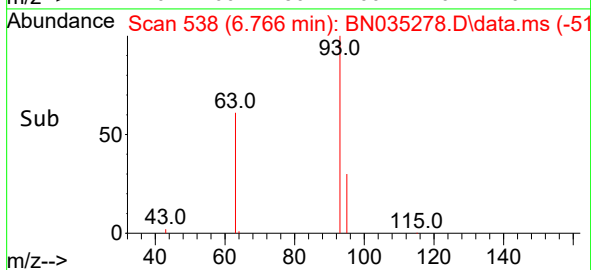
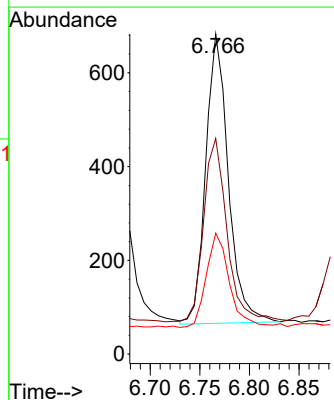
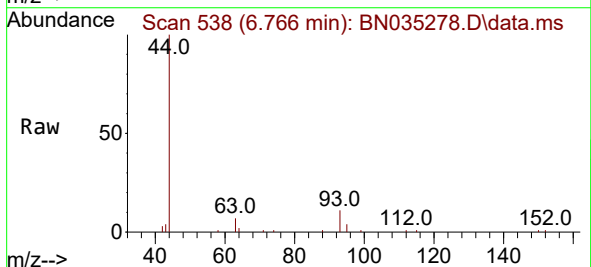
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

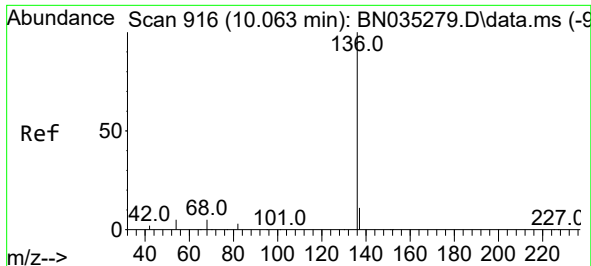
Tgt Ion: 99 Resp: 1264
Ion Ratio Lower Upper
99 100
42 20.3 12.8 19.2#
71 37.8 31.4 47.2



#6
bis(2-Chloroethyl)ether
Concen: 0.196 ng
RT: 6.766 min Scan# 538
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion: 93 Resp: 978
Ion Ratio Lower Upper
93 100
63 66.0 52.3 78.5
95 33.7 25.5 38.3

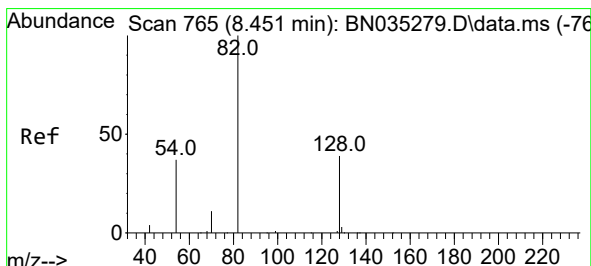
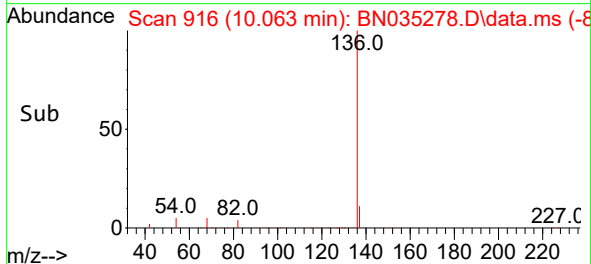
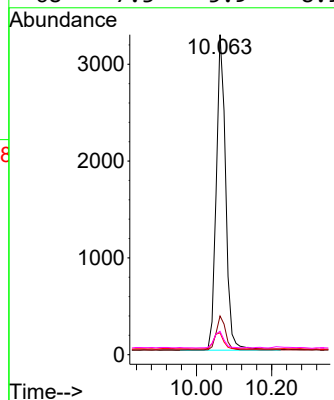
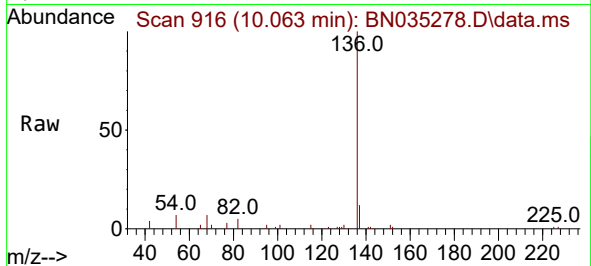




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.063 min Scan# 916
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

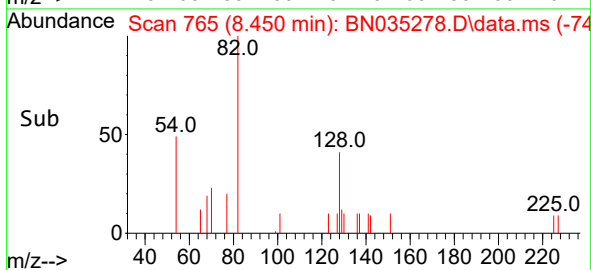
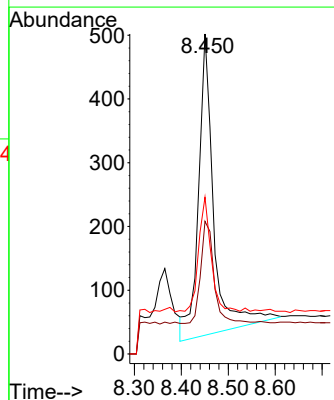
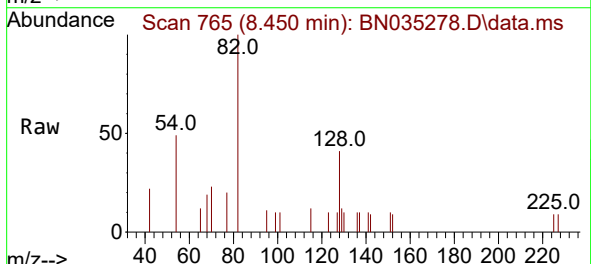
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

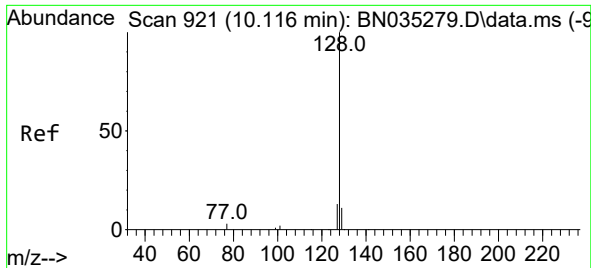
Tgt Ion:	136	Resp:	5670
Ion	Ratio	Lower	Upper
136	100		
137	12.1	9.7	14.5
54	6.8	5.3	7.9
68	7.3	5.9	8.9



#8
Nitrobenzene-d5
Concen: 0.231 ng
RT: 8.450 min Scan# 765
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion:	82	Resp:	1060
Ion	Ratio	Lower	Upper
82	100		
128	41.4	33.0	49.4
54	49.0	33.3	49.9

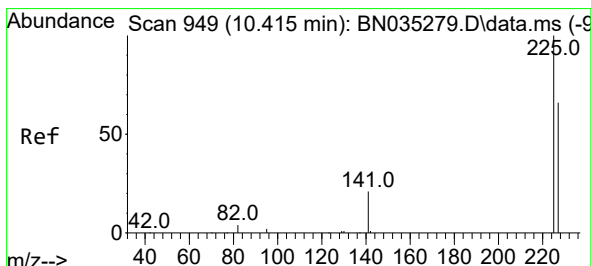
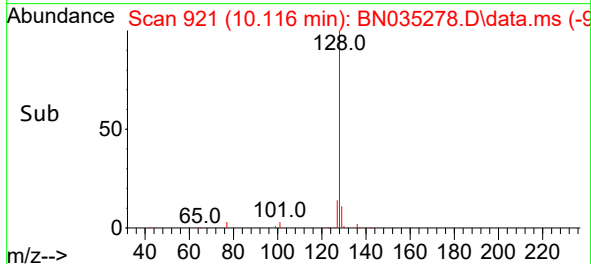
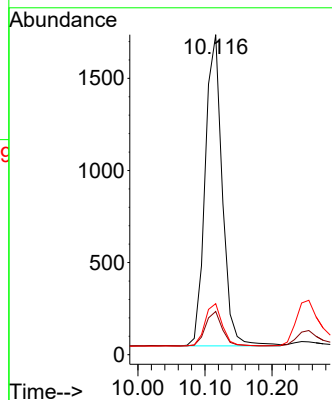
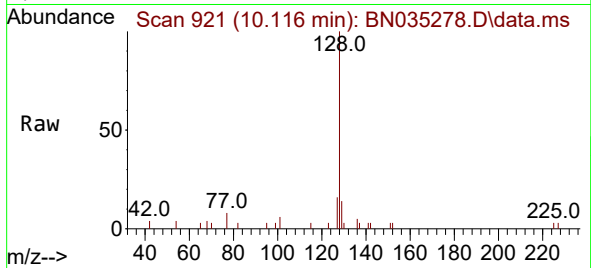




#9
Naphthalene
Concen: 0.190 ng
RT: 10.116 min Scan# 911
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

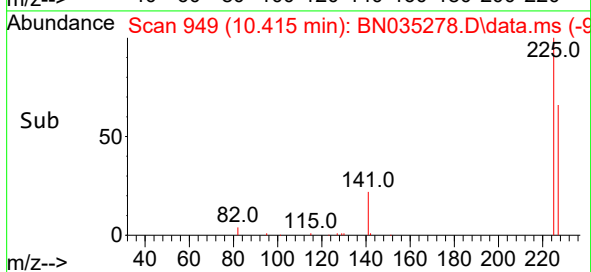
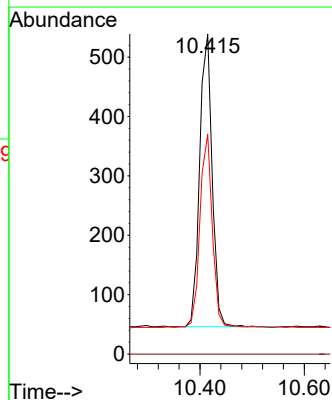
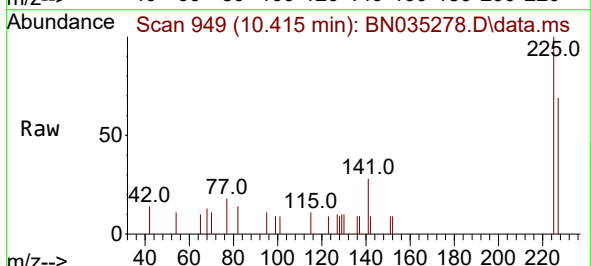
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

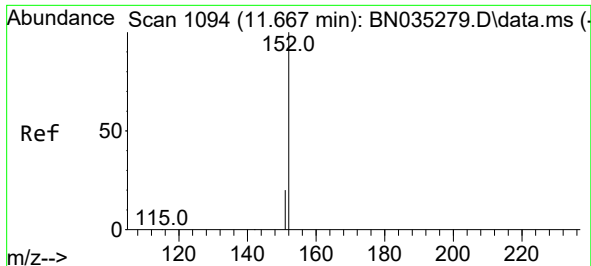
Tgt Ion:	128	Resp:	2990
Ion	Ratio	Lower	Upper
128	100		
129	13.5	9.6	14.4
127	15.9	11.3	16.9



#10
Hexachlorobutadiene
Concen: 0.185 ng
RT: 10.415 min Scan# 949
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion:	225	Resp:	818
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	65.4	51.3	76.9

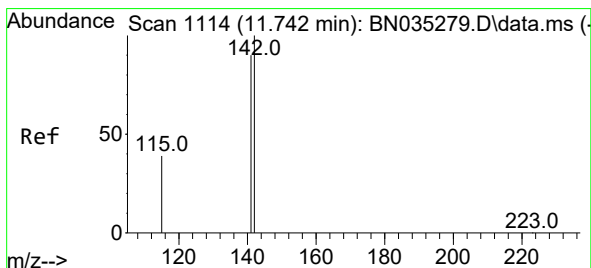
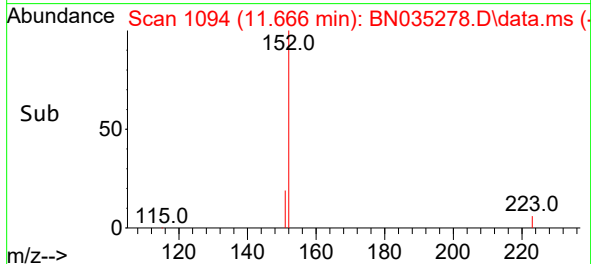
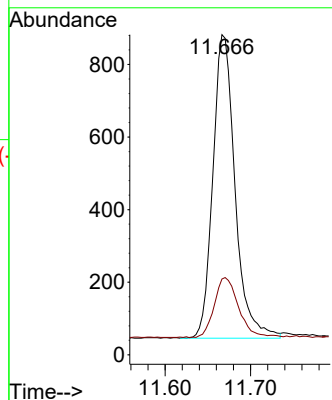
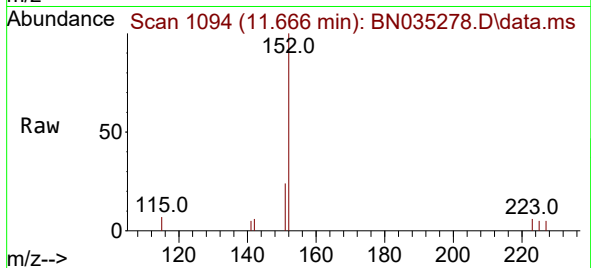




#11
2-Methylnaphthalene-d10
Concen: 0.190 ng
RT: 11.666 min Scan# 1094
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

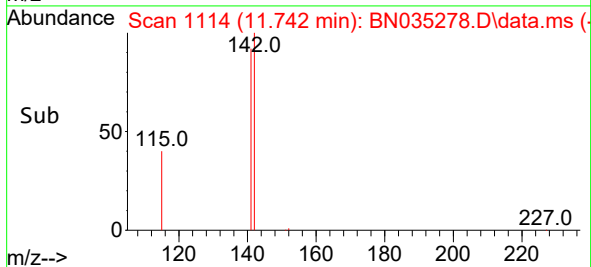
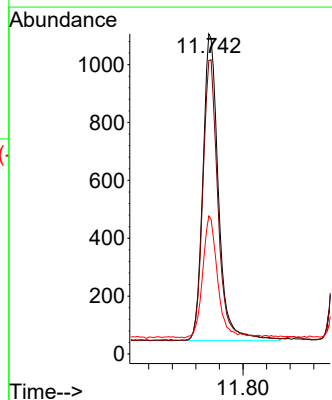
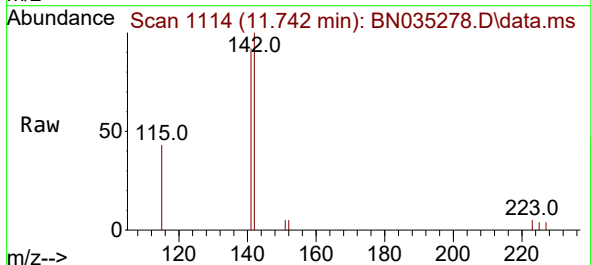
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

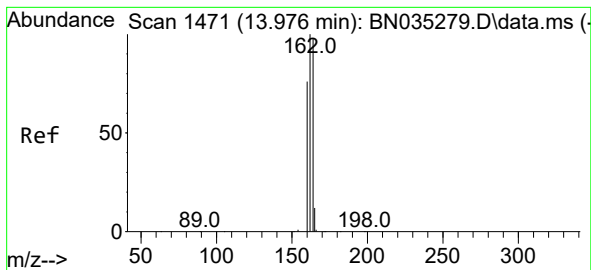
Tgt Ion:152 Resp: 1506
Ion Ratio Lower Upper
152 100
151 22.0 17.2 25.8



#12
2-Methylnaphthalene
Concen: 0.187 ng
RT: 11.742 min Scan# 1114
Delta R.T. 0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion:142 Resp: 1929
Ion Ratio Lower Upper
142 100
141 91.7 71.8 107.8
115 43.1 32.6 49.0





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 13.976 min Scan# 1471

Delta R.T. -0.000 min

Lab File: BN035278.D

Acq: 25 Nov 2024 10:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

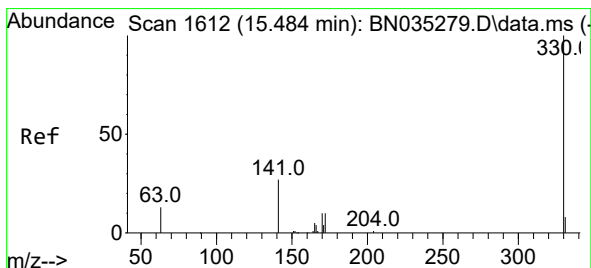
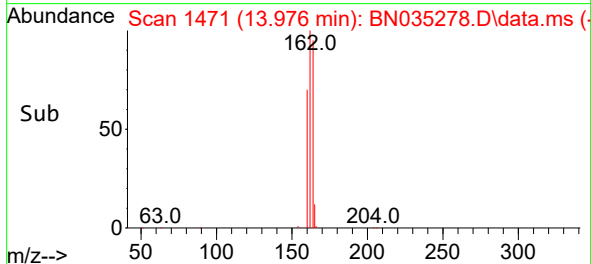
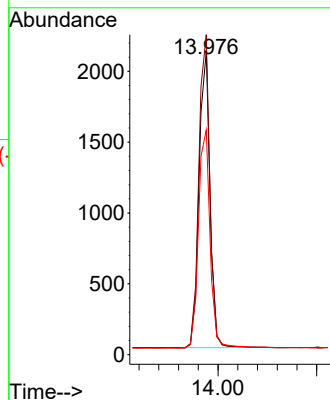
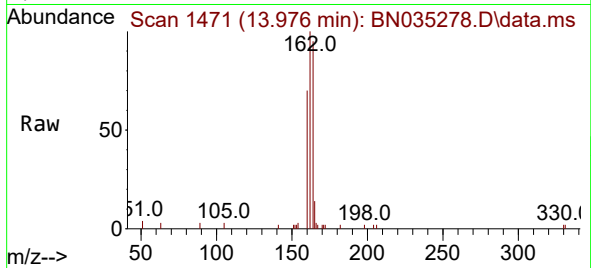
Tgt Ion:164 Resp: 3200

Ion Ratio Lower Upper

164 100

162 105.6 82.0 123.0

160 74.2 63.0 94.4



#14

2,4,6-Tribromophenol

Concen: 0.171 ng

RT: 15.484 min Scan# 1612

Delta R.T. -0.000 min

Lab File: BN035278.D

Acq: 25 Nov 2024 10:52

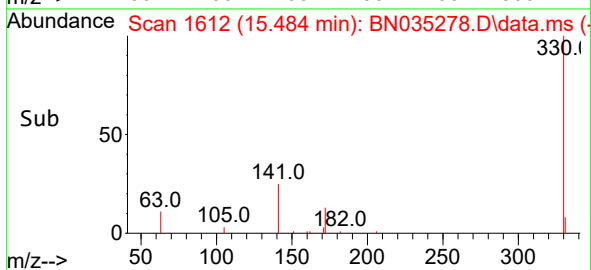
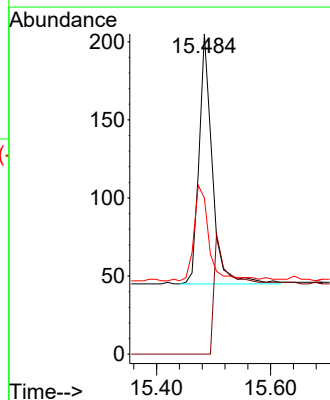
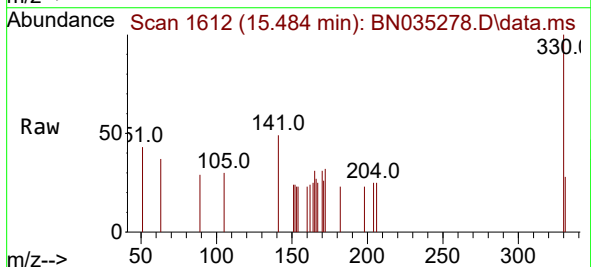
Tgt Ion:330 Resp: 279

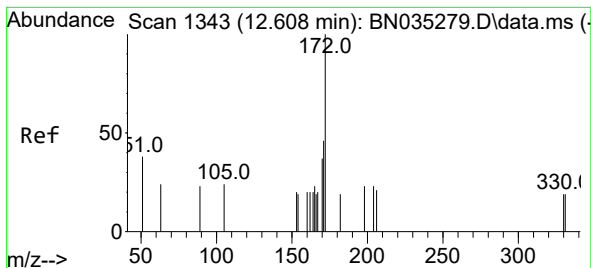
Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

141 43.4 32.4 48.6

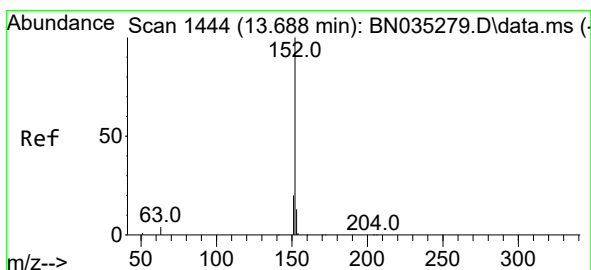
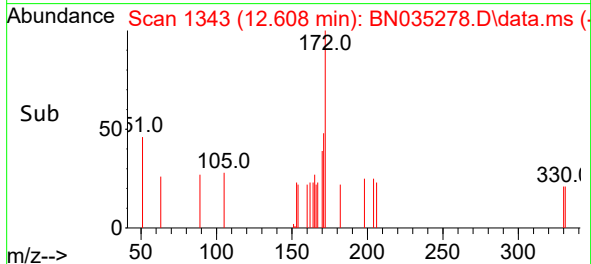
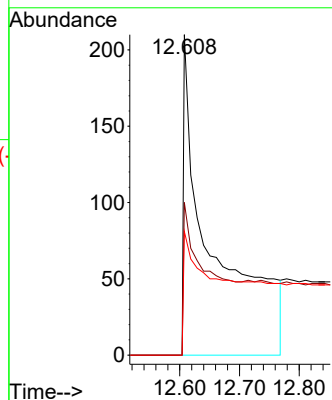
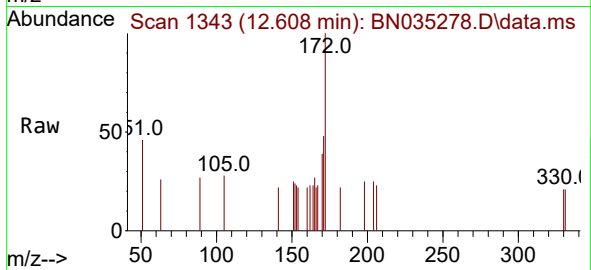




#15
2-Fluorobiphenyl
Concen: 0.384 ng
RT: 12.608 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

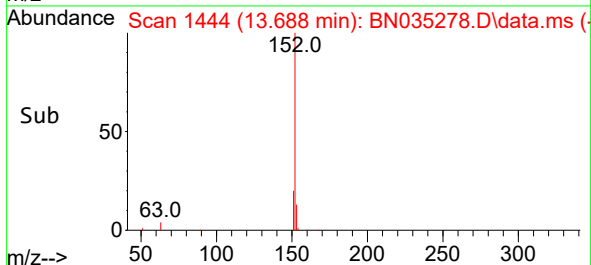
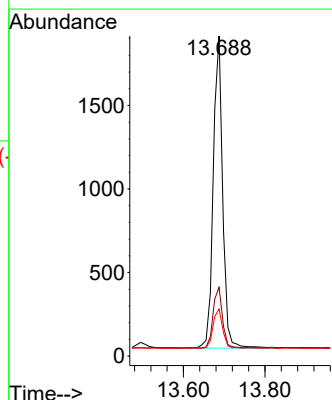
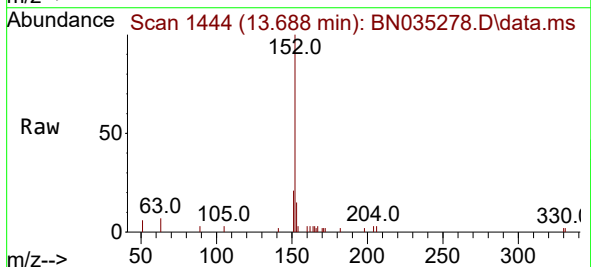
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

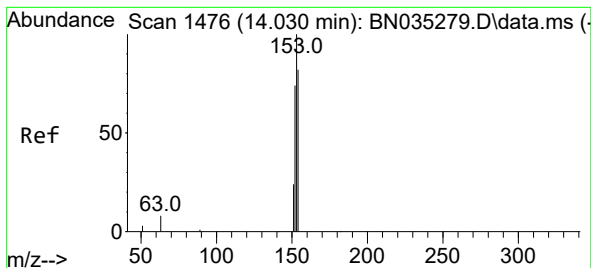
Tgt Ion:172 Resp: 679
Ion Ratio Lower Upper
172 100
171 47.6 36.6 55.0
170 38.6 29.7 44.5



#16
Acenaphthylene
Concen: 0.186 ng
RT: 13.688 min Scan# 1444
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion:152 Resp: 2991
Ion Ratio Lower Upper
152 100
151 19.4 15.9 23.9
153 12.9 10.2 15.4





#17

Acenaphthene

Concen: 0.183 ng

RT: 14.040 min Scan# 1476

Delta R.T. 0.010 min

Lab File: BN035278.D

Acq: 25 Nov 2024 10:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

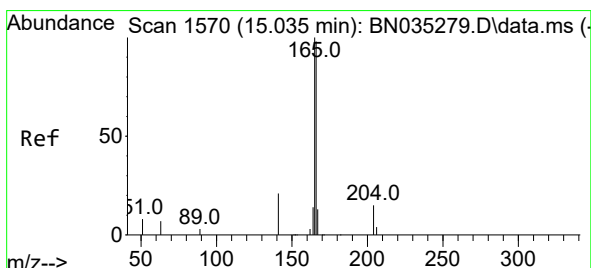
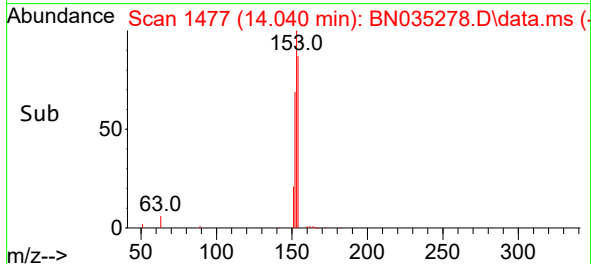
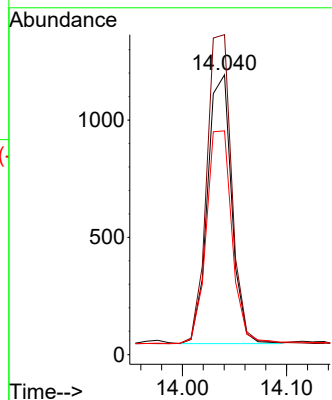
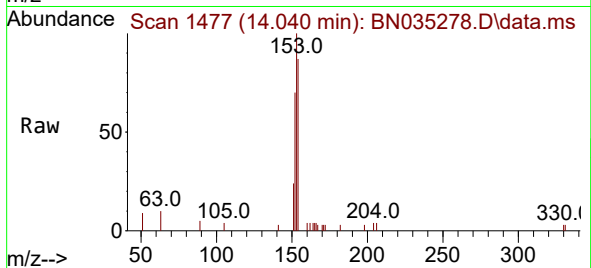
Tgt Ion:154 Resp: 1852

Ion Ratio Lower Upper

154 100

153 119.7 96.1 144.1

152 84.6 72.2 108.2



#18

Fluorene

Concen: 0.182 ng

RT: 15.035 min Scan# 1570

Delta R.T. -0.000 min

Lab File: BN035278.D

Acq: 25 Nov 2024 10:52

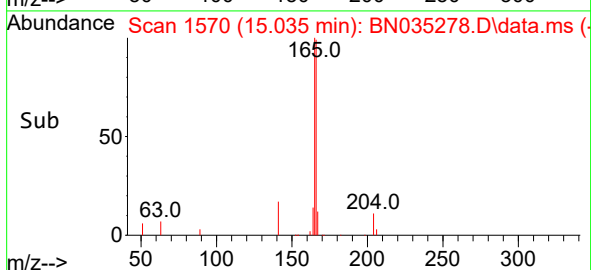
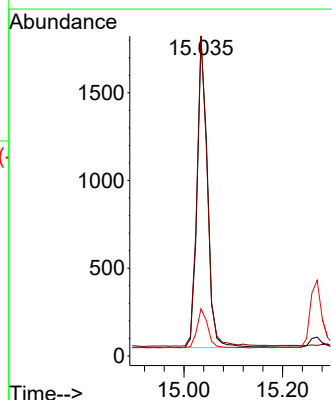
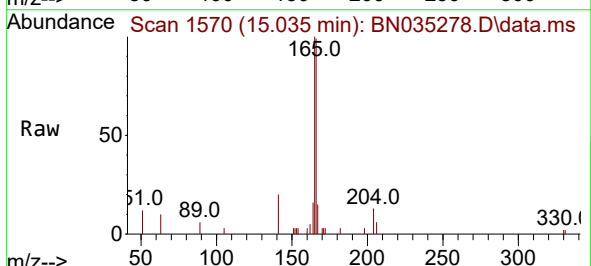
Tgt Ion:166 Resp: 2587

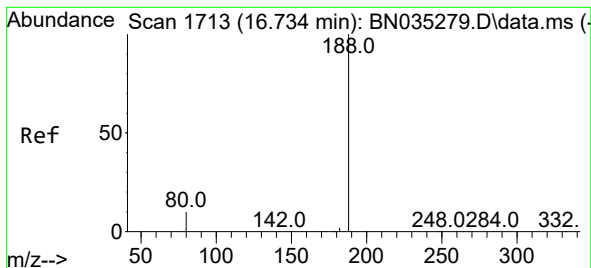
Ion Ratio Lower Upper

166 100

165 99.7 81.2 121.8

167 13.2 10.5 15.7





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.734 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN035278.D

Acq: 25 Nov 2024 10:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

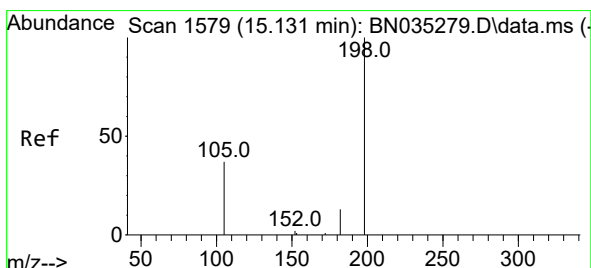
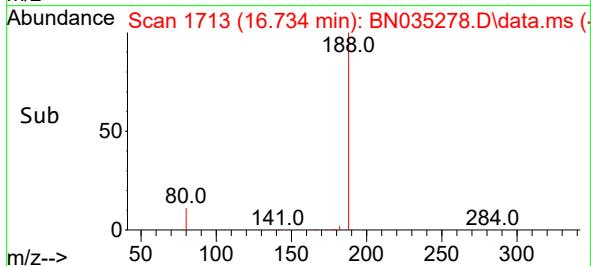
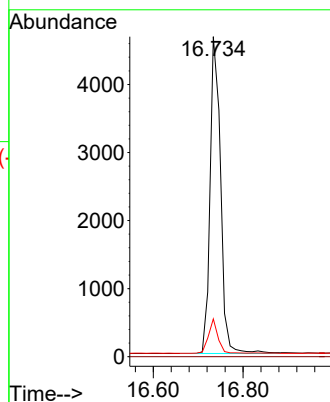
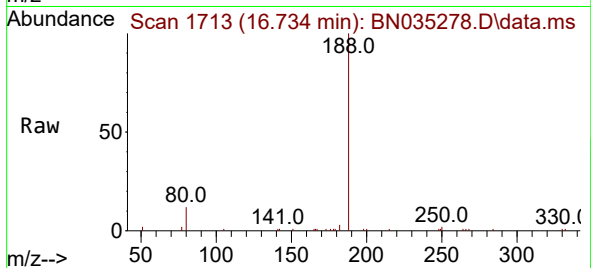
Tgt Ion:188 Resp: 7531

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.8 8.9 13.3



#20

4,6-Dinitro-2-methylphenol

Concen: 0.283 ng

RT: 15.131 min Scan# 1579

Delta R.T. -0.000 min

Lab File: BN035278.D

Acq: 25 Nov 2024 10:52

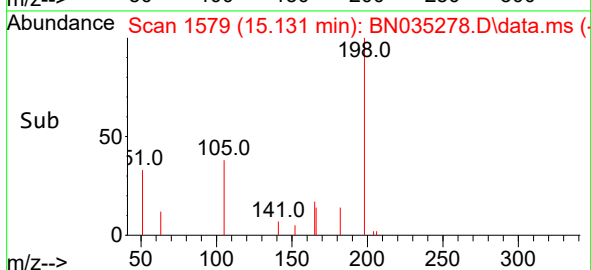
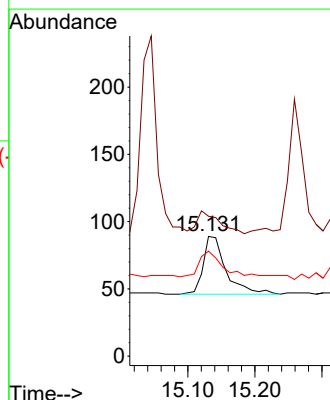
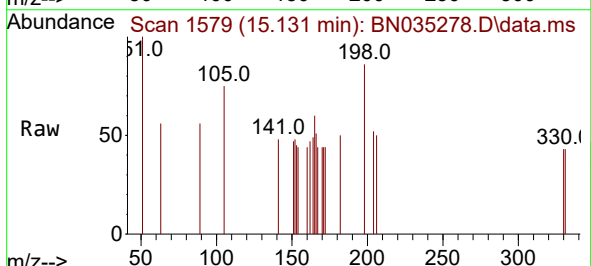
Tgt Ion:198 Resp: 102

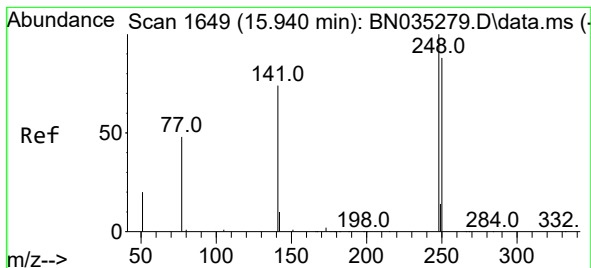
Ion Ratio Lower Upper

198 100

51 116.9 53.6 80.4#

105 87.6 47.4 71.2#

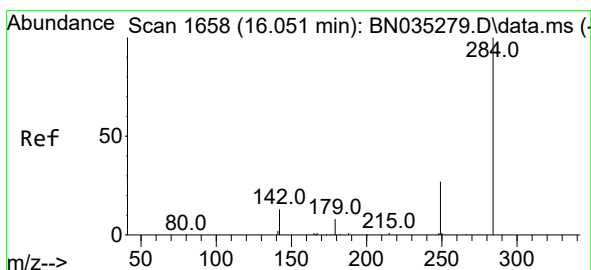
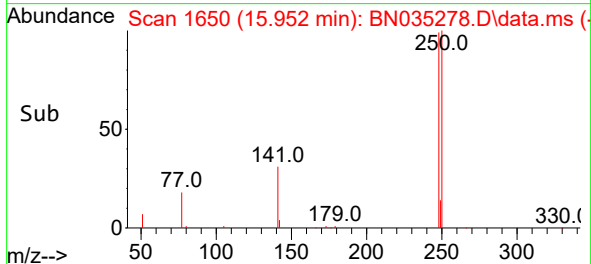
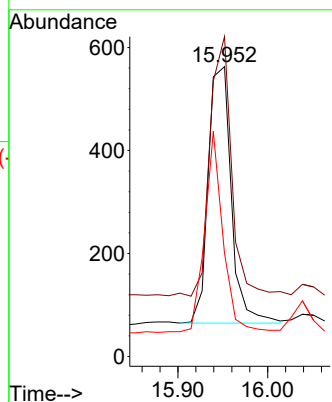
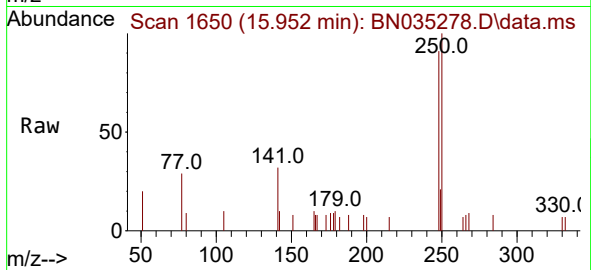




#21
4-Bromophenyl-phenylether
Concen: 0.186 ng
RT: 15.952 min Scan# 1650
Delta R.T. 0.012 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

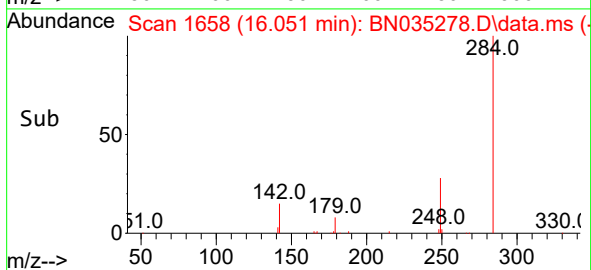
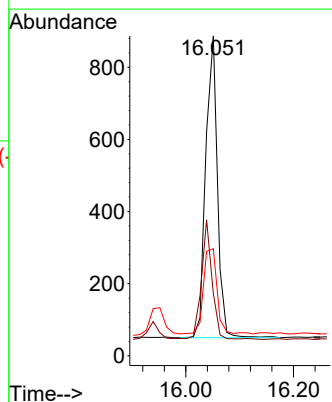
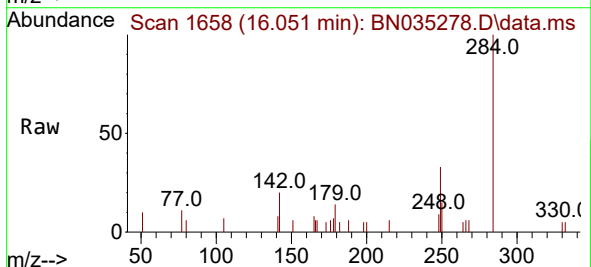
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

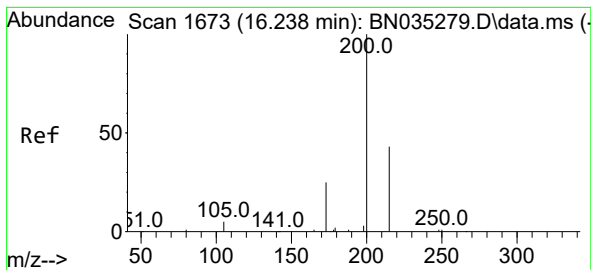
Tgt Ion:248 Resp: 888
Ion Ratio Lower Upper
248 100
250 110.3 74.8 112.2
141 35.5 59.0 88.4#



#22
Hexachlorobenzene
Concen: 0.185 ng
RT: 16.051 min Scan# 1658
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion:284 Resp: 1264
Ion Ratio Lower Upper
284 100
142 35.2 28.7 43.1
249 33.8 25.4 38.0





#23

Atrazine

Concen: 0.177 ng

RT: 16.237 min Scan# 1673

Delta R.T. -0.000 min

Lab File: BN035278.D

Acq: 25 Nov 2024 10:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

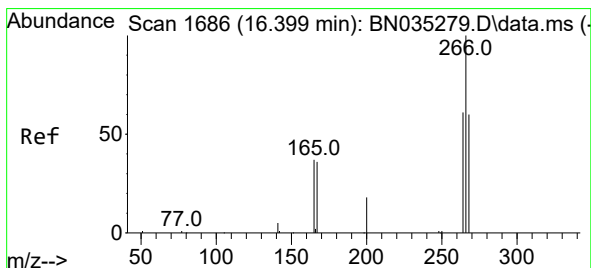
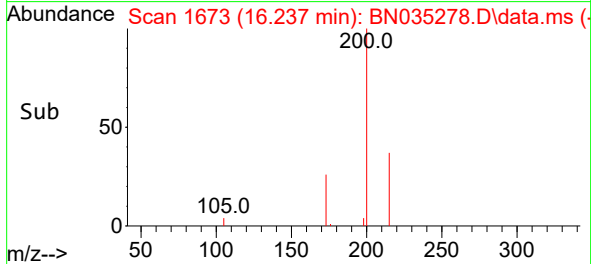
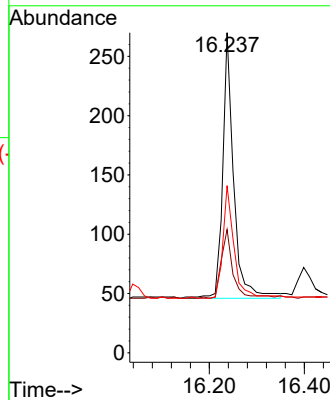
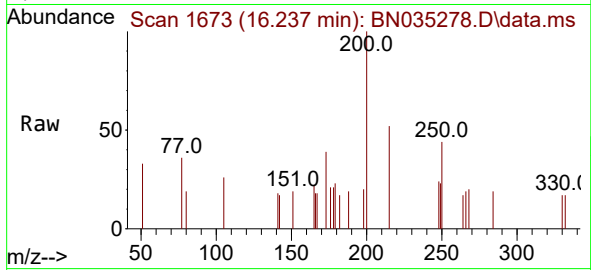
Tgt Ion:200 Resp: 357

Ion Ratio Lower Upper

200 100

173 38.5 25.8 38.8

215 52.2 38.6 58.0



#24

Pentachlorophenol

Concen: 0.154 ng

RT: 16.399 min Scan# 1686

Delta R.T. -0.000 min

Lab File: BN035278.D

Acq: 25 Nov 2024 10:52

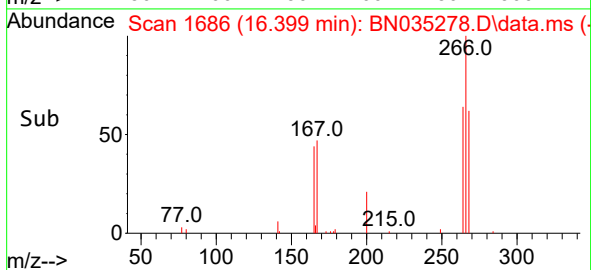
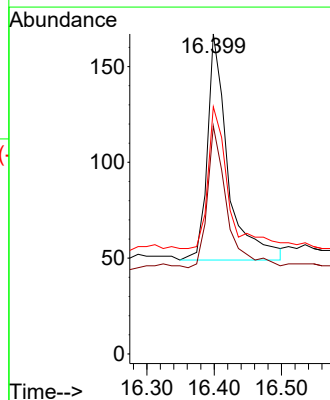
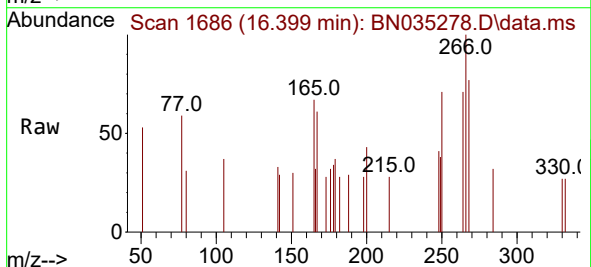
Tgt Ion:266 Resp: 252

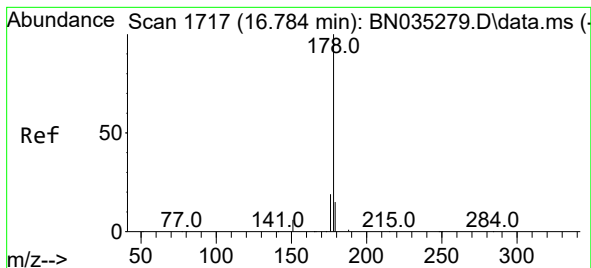
Ion Ratio Lower Upper

266 100

264 59.1 49.3 73.9

268 63.1 48.6 73.0





#25

Phenanthrene

Concen: 0.180 ng

RT: 16.783 min Scan# 1717

Delta R.T. -0.000 min

Lab File: BN035278.D

Acq: 25 Nov 2024 10:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

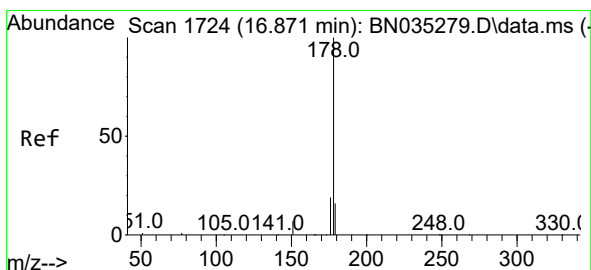
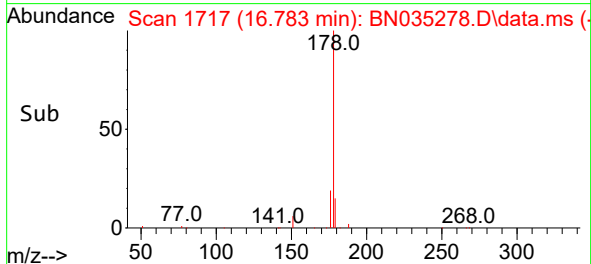
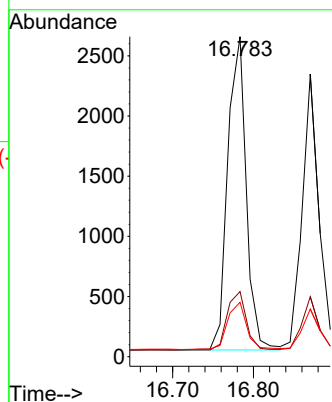
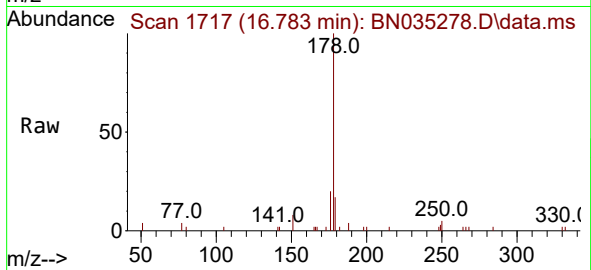
Tgt Ion:178 Resp: 4155

Ion Ratio Lower Upper

178 100

176 19.2 15.4 23.0

179 15.5 12.6 18.8



#26

Anthracene

Concen: 0.170 ng

RT: 16.870 min Scan# 1724

Delta R.T. -0.000 min

Lab File: BN035278.D

Acq: 25 Nov 2024 10:52

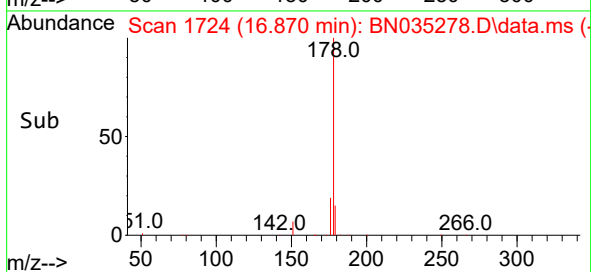
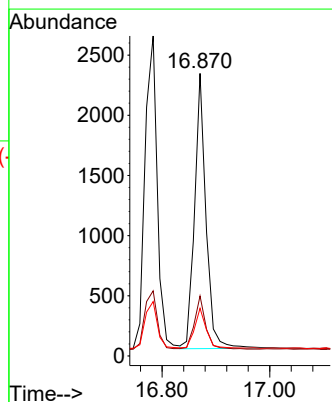
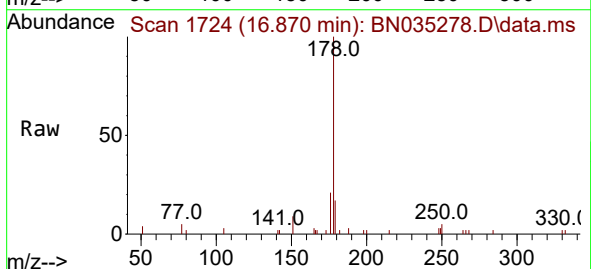
Tgt Ion:178 Resp: 3384

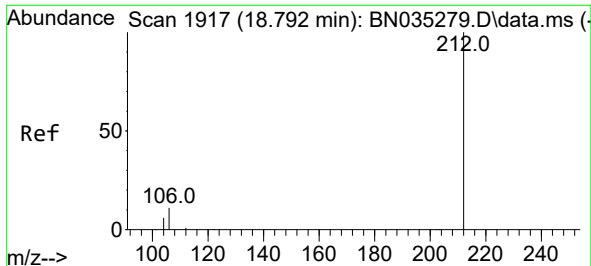
Ion Ratio Lower Upper

178 100

176 18.9 15.0 22.4

179 15.0 12.4 18.6

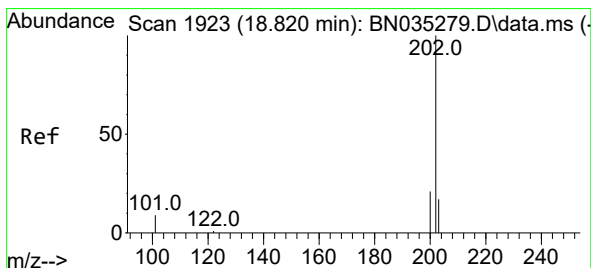
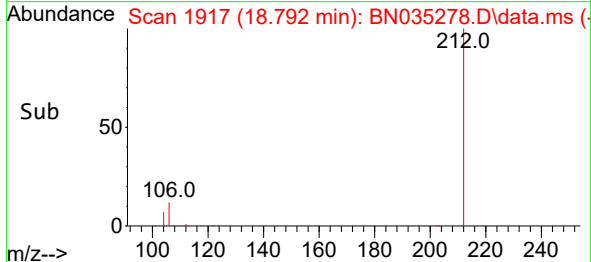
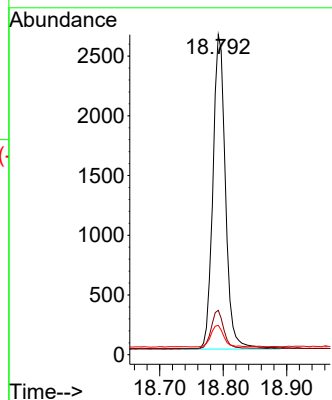
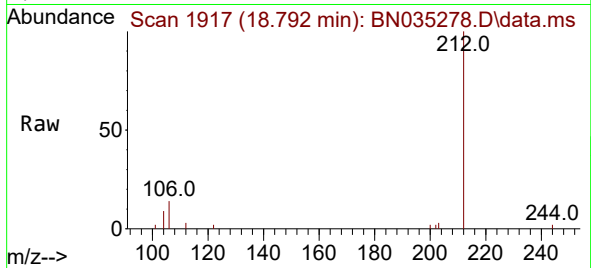




#27
Fluoranthene-d10
Concen: 0.180 ng
RT: 18.792 min Scan# 1917
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

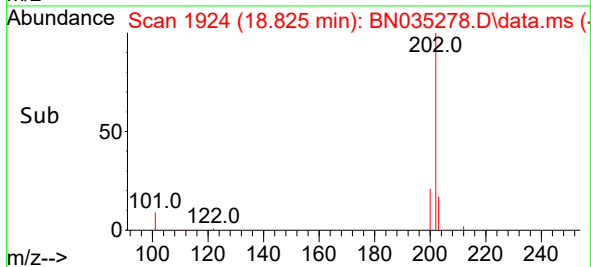
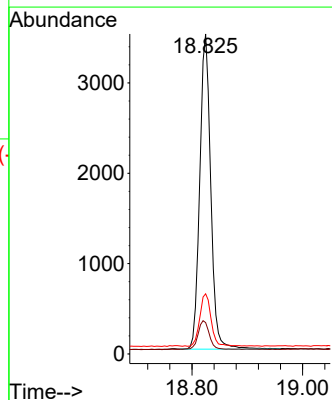
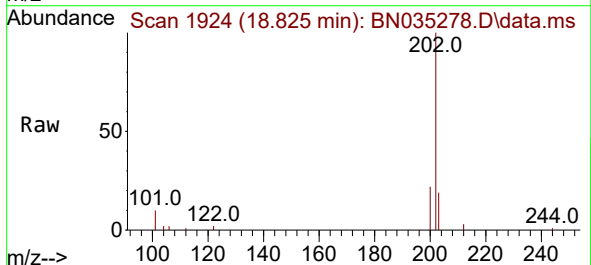
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

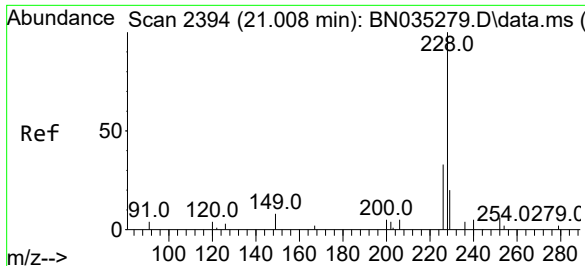
Tgt Ion:212 Resp: 3625
Ion Ratio Lower Upper
212 100
106 12.3 9.8 14.8
104 6.9 5.6 8.4



#28
Fluoranthene
Concen: 0.165 ng
RT: 18.825 min Scan# 1924
Delta R.T. 0.005 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion:202 Resp: 4828
Ion Ratio Lower Upper
202 100
101 9.2 7.6 11.4
203 17.3 13.8 20.8

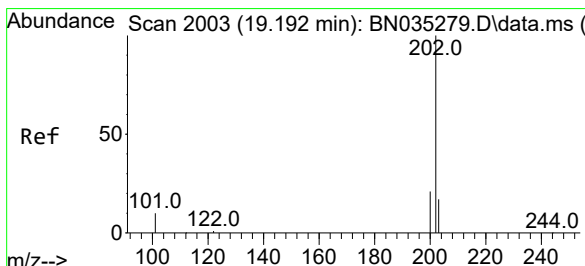
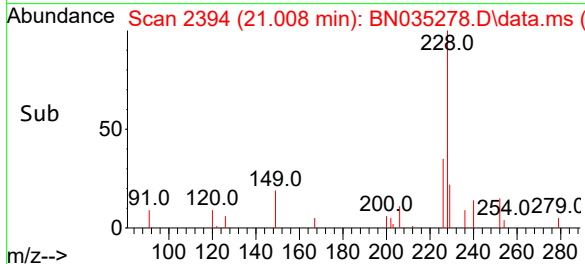
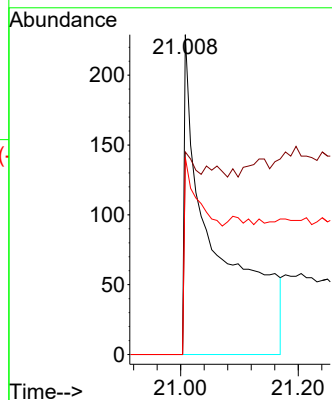
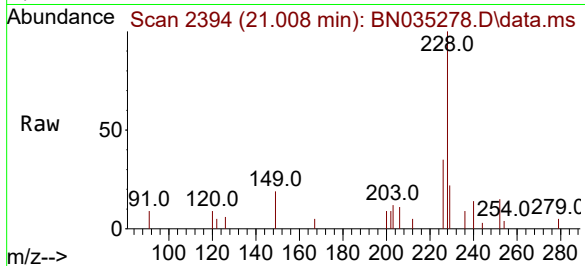




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.008 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

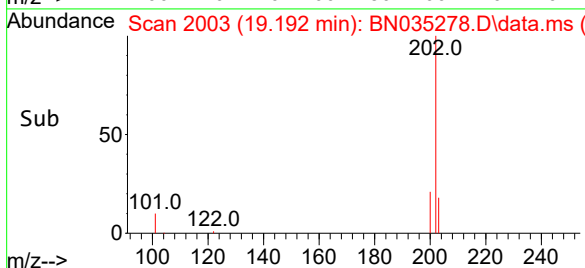
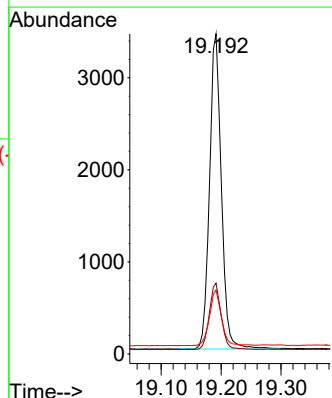
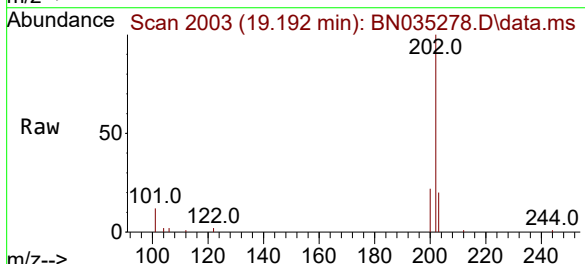
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

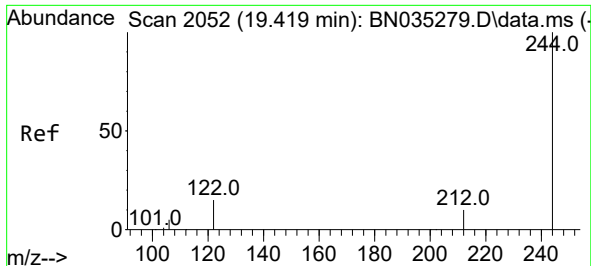
Tgt Ion:240 Resp: 797
Ion Ratio Lower Upper
240 100
120 63.3 54.9 82.3
236 61.6 54.0 81.0



#30
Pyrene
Concen: 0.162 ng
RT: 19.192 min Scan# 2003
Delta R.T. -0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion:202 Resp: 4697
Ion Ratio Lower Upper
202 100
200 21.2 16.8 25.2
203 17.7 14.4 21.6

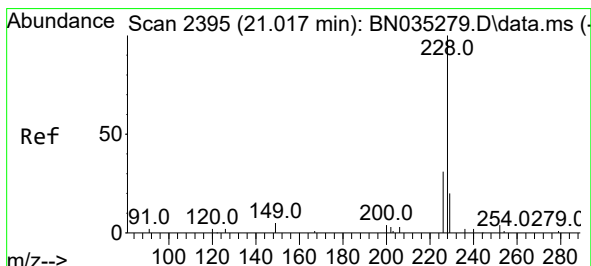
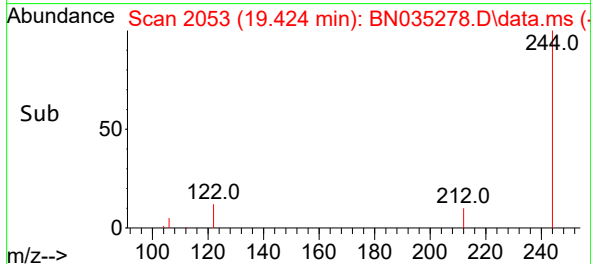
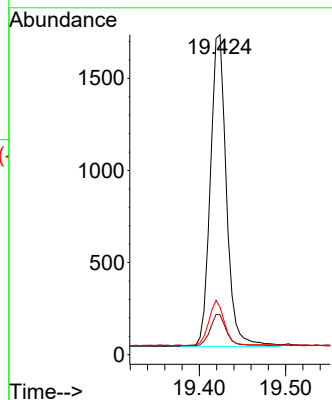
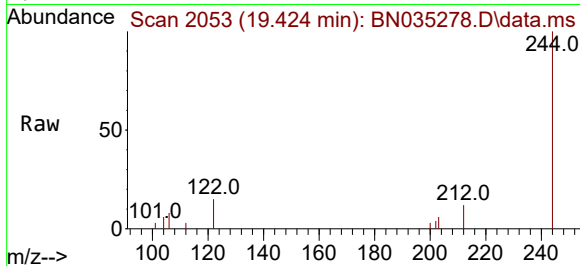




#31
Terphenyl-d14
Concen: 0.149 ng
RT: 19.424 min Scan# 2052
Delta R.T. 0.005 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

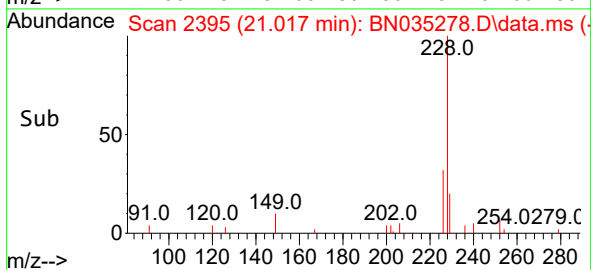
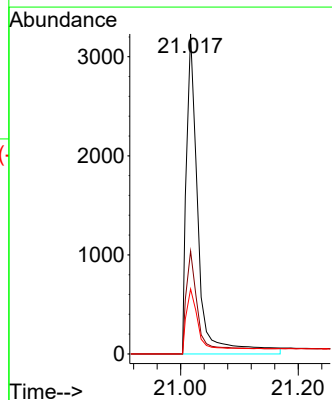
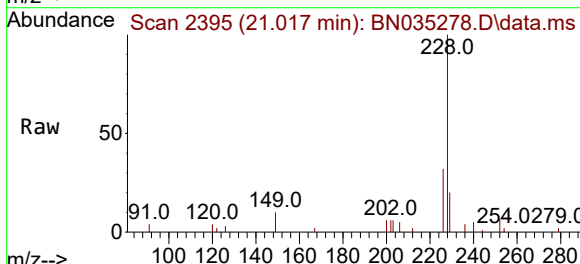
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

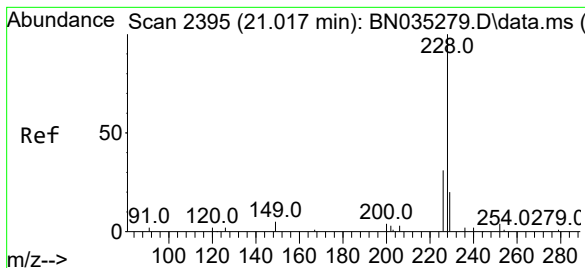
Tgt Ion:244 Resp: 2197
Ion Ratio Lower Upper
244 100
212 12.4 9.4 14.0
122 14.9 13.0 19.4



#32
Benzo(a)anthracene
Concen: 0.161 ng
RT: 21.017 min Scan# 2395
Delta R.T. 0.000 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Tgt Ion:228 Resp: 4459
Ion Ratio Lower Upper
228 100
226 32.1 24.7 37.1
229 20.3 16.2 24.2





#33

Chrysene

Concen: 0.161 ng

RT: 21.017 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035278.D

Acq: 25 Nov 2024 10:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

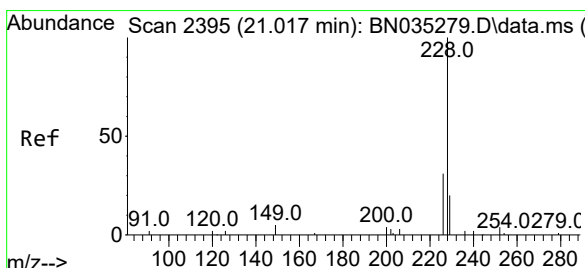
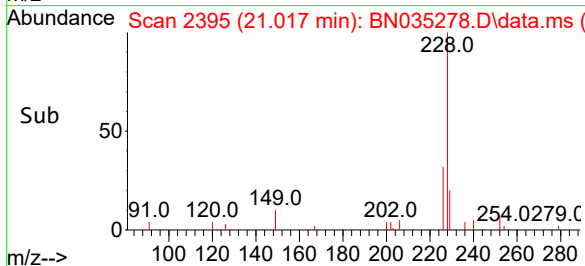
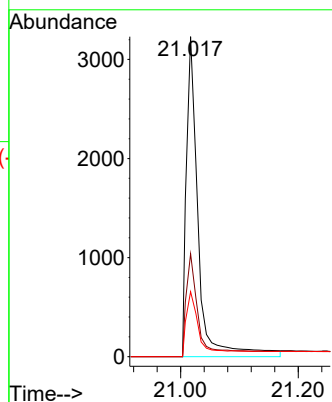
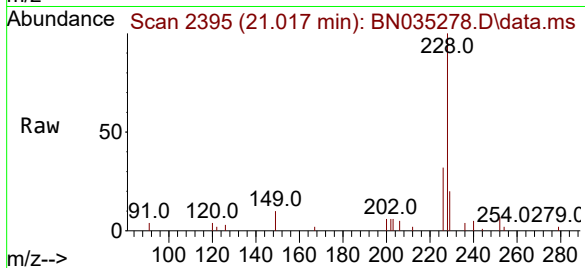
Tgt Ion:228 Resp: 4459

Ion Ratio Lower Upper

228 100

226 32.1 24.7 37.1

229 20.3 16.2 24.2



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.104 ng

RT: 21.017 min Scan# 2395

Delta R.T. 0.000 min

Lab File: BN035278.D

Acq: 25 Nov 2024 10:52

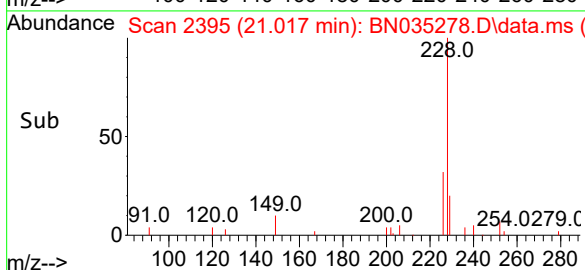
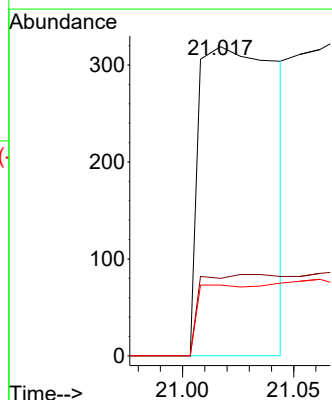
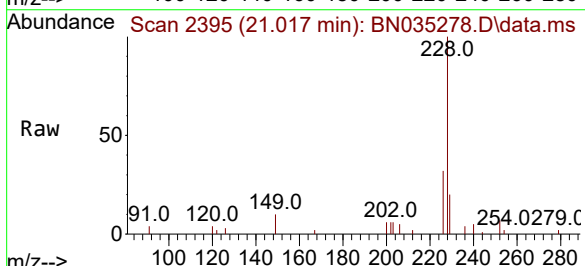
Tgt Ion:149 Resp: 696

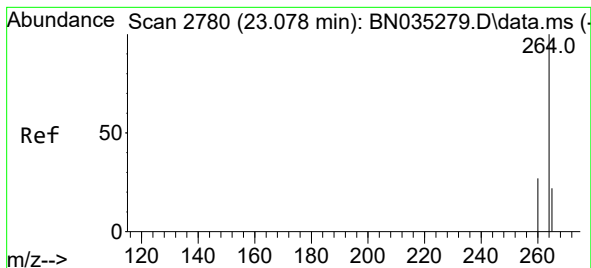
Ion Ratio Lower Upper

149 100

167 26.7 0.0 0.0#

279 12.8 13.0 19.6#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.084 min Scan# 21

Delta R.T. 0.006 min

Lab File: BN035278.D

Acq: 25 Nov 2024 10:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

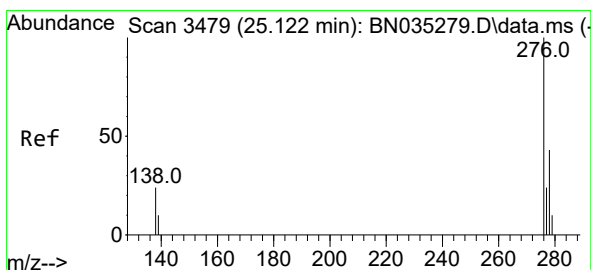
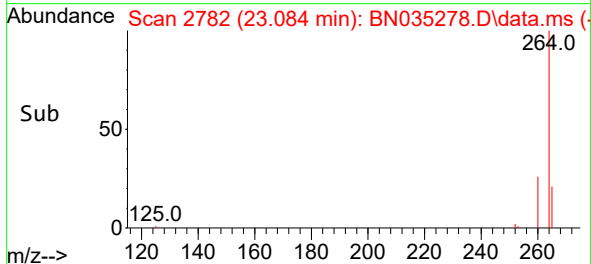
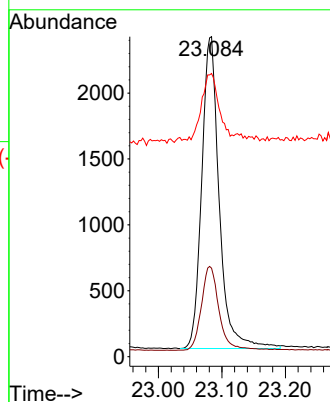
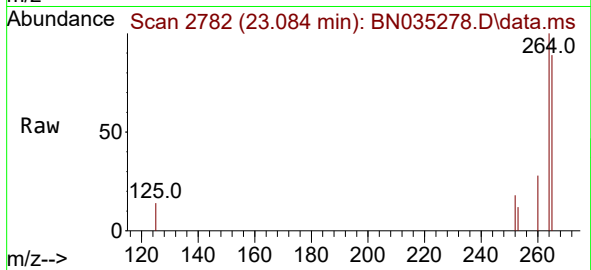
Tgt Ion:264 Resp: 4527

Ion Ratio Lower Upper

264 100

260 27.6 22.3 33.5

265 88.5 68.6 103.0



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.172 ng

RT: 25.121 min Scan# 3479

Delta R.T. -0.000 min

Lab File: BN035278.D

Acq: 25 Nov 2024 10:52

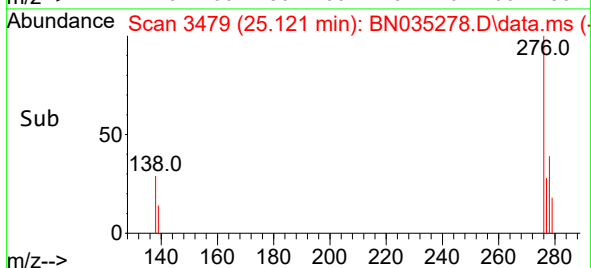
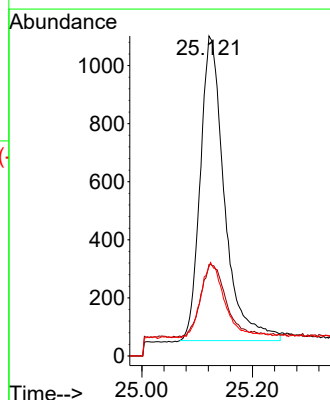
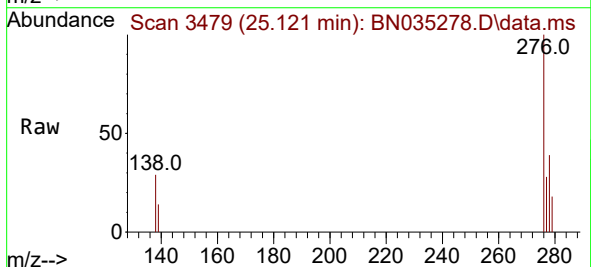
Tgt Ion:276 Resp: 3191

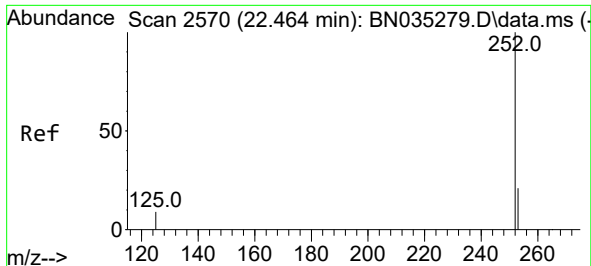
Ion Ratio Lower Upper

276 100

138 23.2 18.8 28.2

277 23.0 18.2 27.4





#37

Benzo(b)fluoranthene

Concen: 0.179 ng

RT: 22.467 min Scan# 2571

Delta R.T. 0.003 min

Lab File: BN035278.D

Acq: 25 Nov 2024 10:52

Instrument :

BN035278.D

ClientSampleId :

SSTDICC0.2

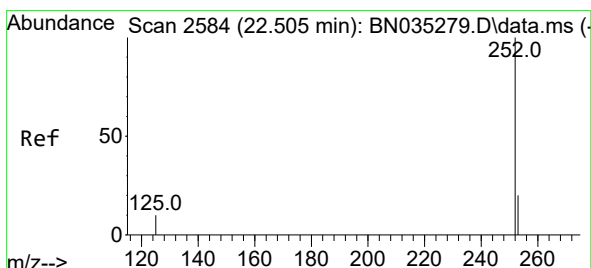
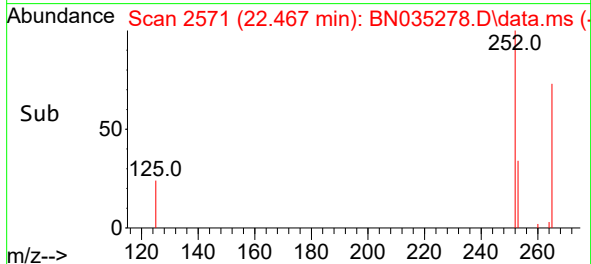
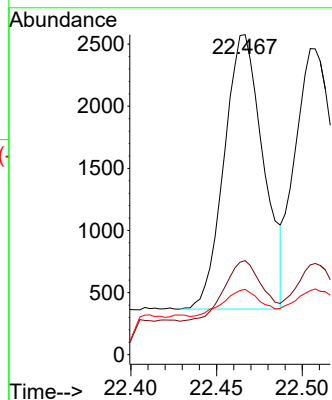
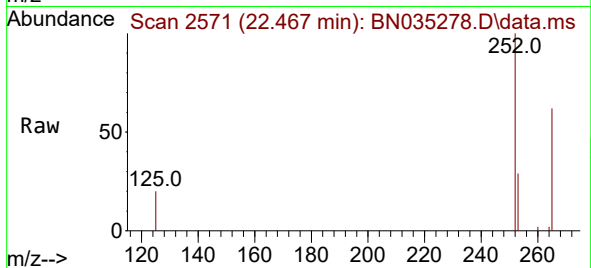
Tgt Ion:252 Resp: 3513

Ion Ratio Lower Upper

252 100

253 29.4 20.2 30.2

125 20.4 12.0 18.0#



#38

Benzo(k)fluoranthene

Concen: 0.172 ng

RT: 22.505 min Scan# 2584

Delta R.T. -0.000 min

Lab File: BN035278.D

Acq: 25 Nov 2024 10:52

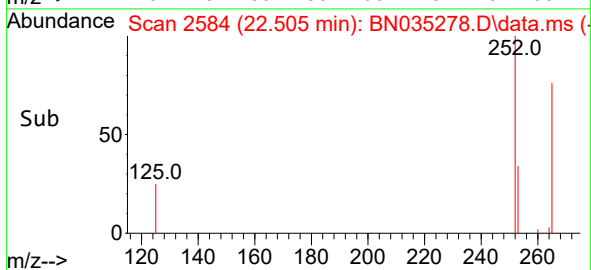
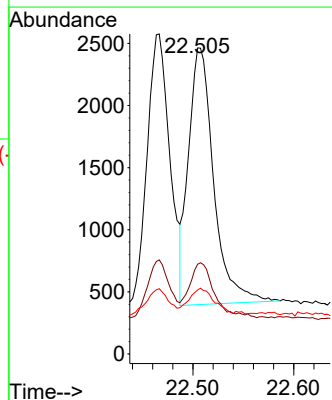
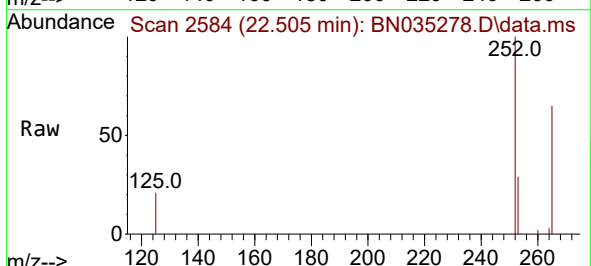
Tgt Ion:252 Resp: 3588

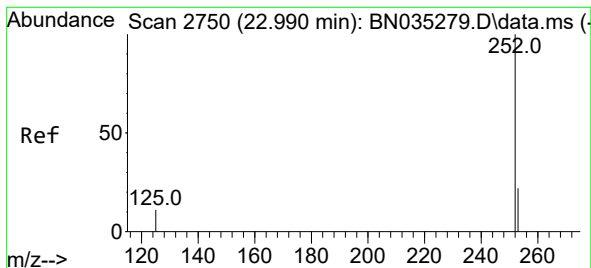
Ion Ratio Lower Upper

252 100

253 29.3 20.1 30.1

125 20.9 12.7 19.1#





#39

Benzo(a)pyrene

Concen: 0.178 ng

RT: 22.990 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035278.D

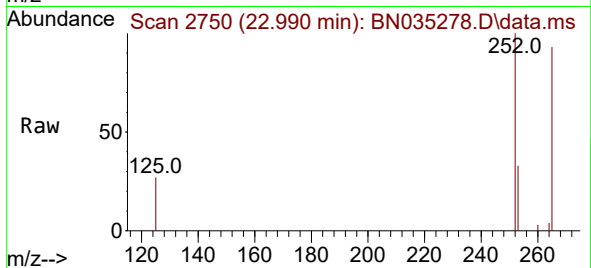
Acq: 25 Nov 2024 10:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



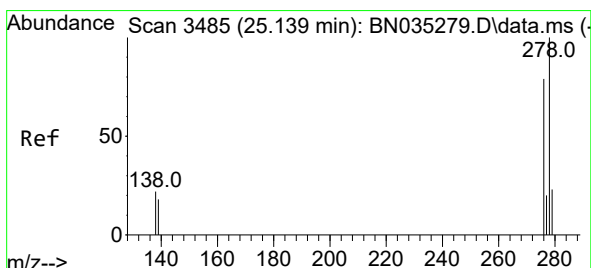
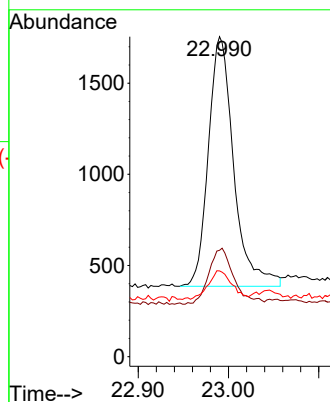
Tgt Ion:252 Resp: 2673

Ion Ratio Lower Upper

252 100

253 33.2 22.3 33.5

125 26.8 15.3 22.9#



#40

Dibenzo(a,h)anthracene

Concen: 0.166 ng

RT: 25.142 min Scan# 3486

Delta R.T. 0.003 min

Lab File: BN035278.D

Acq: 25 Nov 2024 10:52

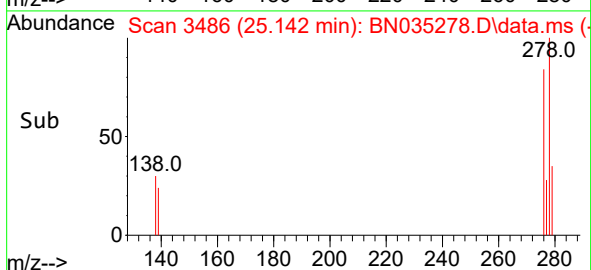
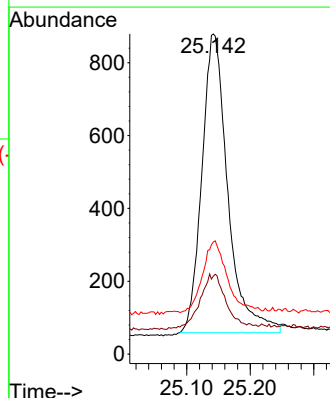
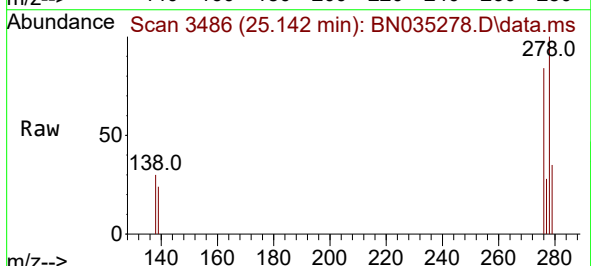
Tgt Ion:278 Resp: 2328

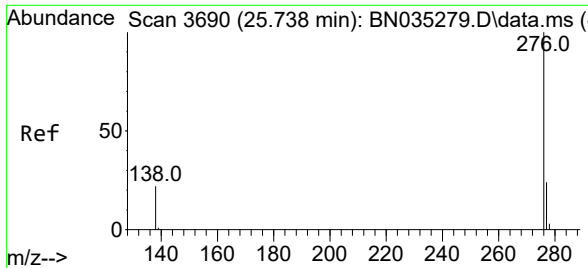
Ion Ratio Lower Upper

278 100

139 24.3 17.0 25.6

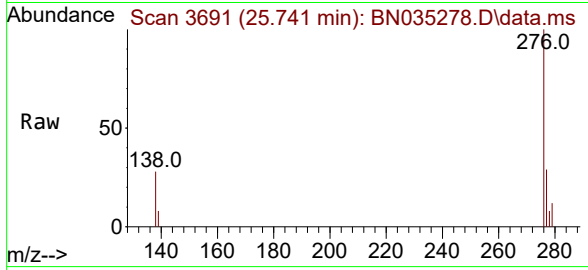
279 35.0 23.0 34.4#



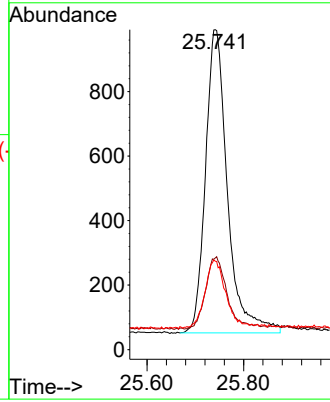
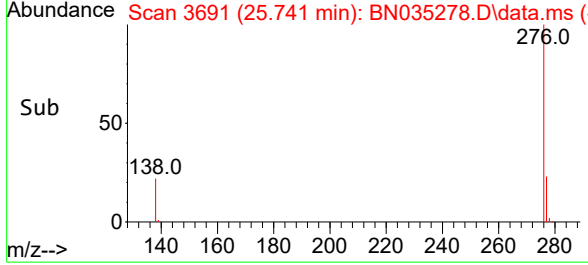


#41
Benzo(g,h,i)perylene
Concen: 0.183 ng
RT: 25.741 min Scan# 30
Delta R.T. 0.003 min
Lab File: BN035278.D
Acq: 25 Nov 2024 10:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:	276	Resp:	2967
Ion	Ratio	Lower	Upper
276	100		
277	28.6	21.1	31.7
138	27.6	19.8	29.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
 Data File : BN035284.D
 Acq On : 25 Nov 2024 14:29
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 59 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN112524

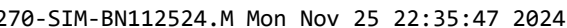
Quant Time: Nov 25 22:35:44 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Nov 25 14:32:52 2024
 Response via : Initial Calibration

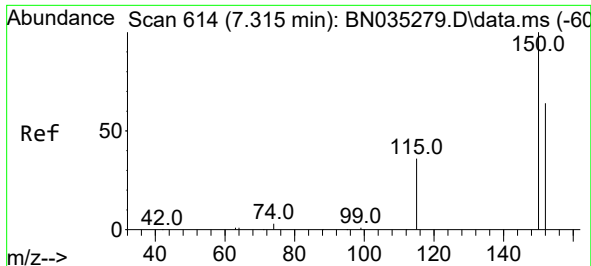
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.315	152	2519	0.400	ng	0.00
7) Naphthalene-d8	10.063	136	5593	0.400	ng	0.00
13) Acenaphthene-d10	13.976	164	2659	0.400	ng	# 0.00
19) Phenanthrene-d10	16.734	188	5748	0.400	ng	0.00
29) Chrysene-d12	21.008	240	611	0.400	ng	0.00
35) Perylene-d12	23.081	264	3470	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.968	112	1712	0.360	ng	0.00
5) Phenol-d6	6.521	99	2314	0.348	ng	0.00
8) Nitrobenzene-d5	8.450	82	2129	0.469	ng	0.00
11) 2-Methylnaphthalene-d10	11.667	152	2635	0.337	ng	0.00
14) 2,4,6-Tribromophenol	15.484	330	546	0.402	ng	0.00
15) 2-Fluorobiphenyl	12.608	172	683	0.465	ng	0.00
27) Fluoranthene-d10	18.792	212	4874	0.317	ng	0.00
31) Terphenyl-d14	19.419	244	3187	0.282	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.003	88	689	0.381	ng	# 83
3) n-Nitrosodimethylamine	3.299	42	809	0.431	ng	# 76
6) bis(2-Chloroethyl)ether	6.766	93	2132	0.381	ng	99
9) Naphthalene	10.116	128	5975	0.385	ng	99
10) Hexachlorobutadiene	10.415	225	1929	0.442	ng	# 100
12) 2-Methylnaphthalene	11.742	142	3297	0.325	ng	98
16) Acenaphthylene	13.688	152	5175	0.387	ng	99
17) Acenaphthene	14.030	154	3227	0.383	ng	# 90
18) Fluorene	15.035	166	4194	0.355	ng	97
20) 4,6-Dinitro-2-methylph...	15.131	198	239	0.477	ng	98
21) 4-Bromophenyl-phenylether	15.940	248	1328	0.364	ng	92
22) Hexachlorobenzene	16.051	284	2564	0.491	ng	98
23) Atrazine	16.237	200	643	0.419	ng	98
24) Pentachlorophenol	16.399	266	510	0.407	ng	95
25) Phenanthrene	16.784	178	6385	0.362	ng	100
26) Anthracene	16.870	178	4852	0.320	ng	99
28) Fluoranthene	18.825	202	6686	0.300	ng	99
30) Pyrene	19.192	202	6525	0.294	ng	100
32) Benzo(a)anthracene	21.017	228	5799	0.273	ng	100
33) Chrysene	21.017	228	5799	0.273	ng	100
34) Bis(2-ethylhexyl)phtha...	21.017	149	520	0.041	ng	# 98
36) Indeno(1,2,3-cd)pyrene	25.121	276	5652	0.398	ng	99
37) Benzo(b)fluoranthene	22.464	252	5358	0.355	ng	97
38) Benzo(k)fluoranthene	22.508	252	5559	0.348	ng	97
39) Benzo(a)pyrene	22.990	252	4167	0.361	ng	97
40) Dibenzo(a,h)anthracene	25.145	278	4182	0.389	ng	98
41) Benzo(g,h,i)perylene	25.738	276	5121	0.412	ng	99

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

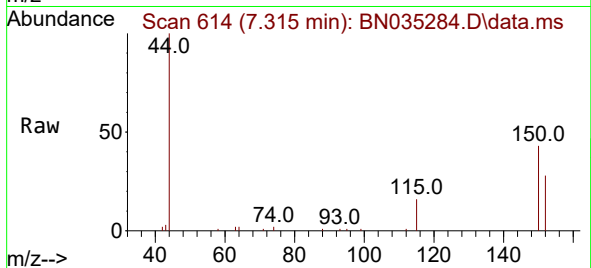
Quant Time: Nov 25 22:35:44 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 25 14:32:52 2024
Response via : Initial Calibration



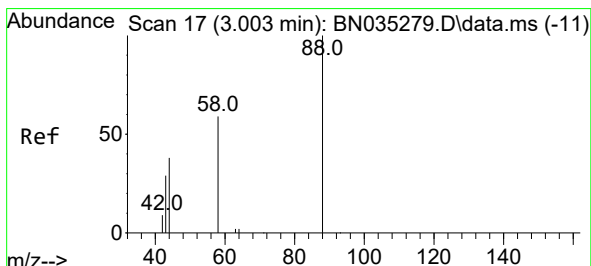
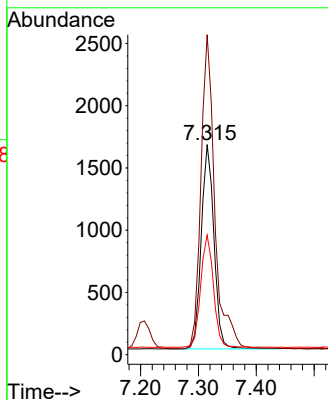
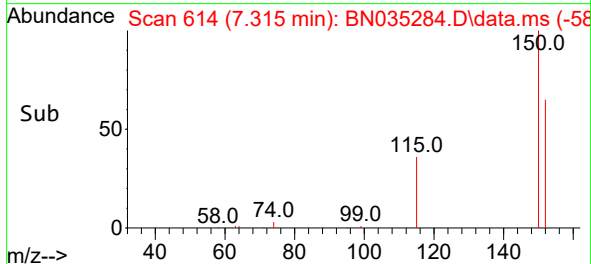


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.315 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: BN035284.D
 Acq: 25 Nov 2024 14:29

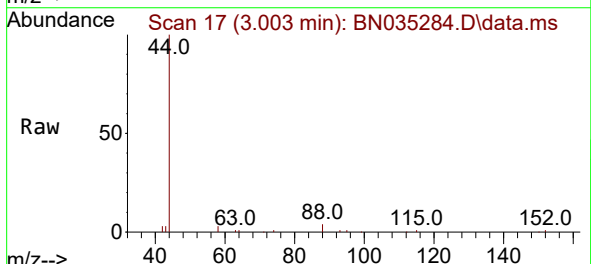
Instrument :
 BNA_N
 ClientSampleId :
 ICVBN112524



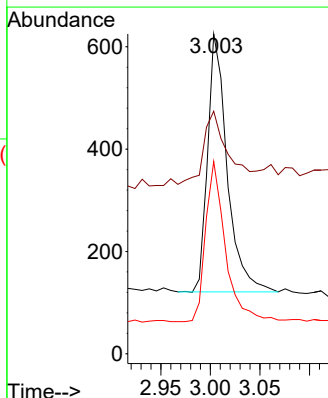
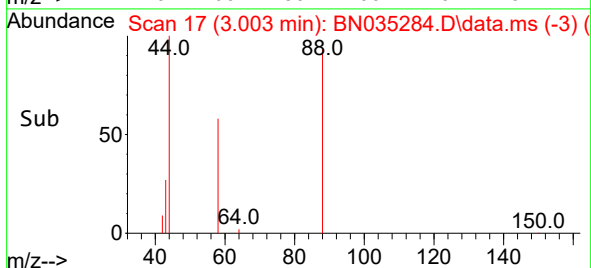
Tgt Ion:152 Resp: 2519
 Ion Ratio Lower Upper
 152 100
 150 152.3 124.5 186.7
 115 56.9 47.8 71.8

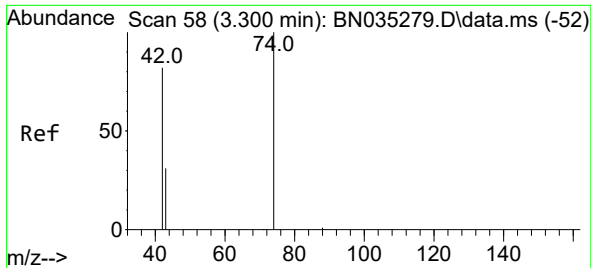


#2
 1,4-Dioxane
 Concen: 0.381 ng
 RT: 3.003 min Scan# 17
 Delta R.T. 0.000 min
 Lab File: BN035284.D
 Acq: 25 Nov 2024 14:29



Tgt Ion: 88 Resp: 689
 Ion Ratio Lower Upper
 88 100
 43 38.3 48.1 72.1#
 58 62.8 46.9 70.3

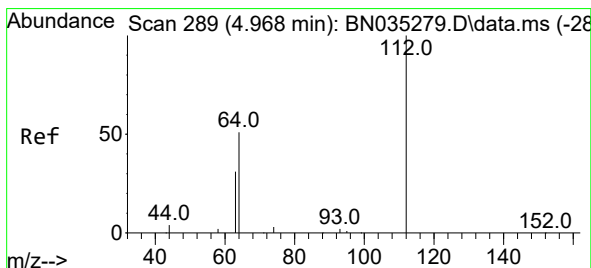
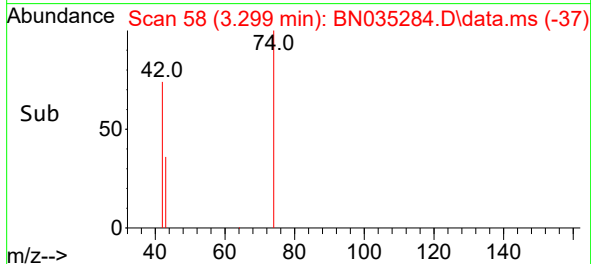
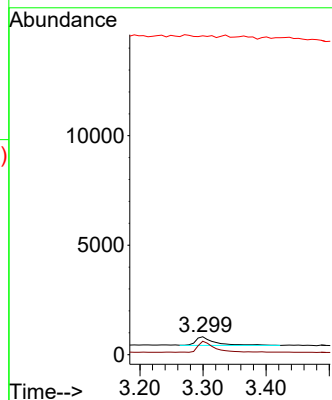
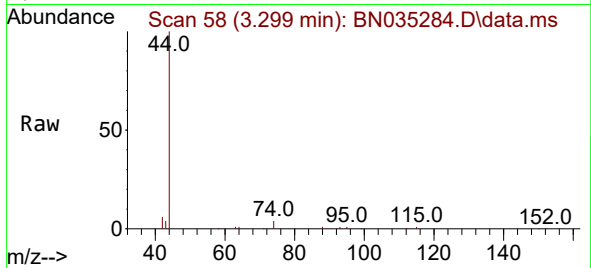




#3
 n-Nitrosodimethylamine
 Concen: 0.431 ng
 RT: 3.299 min Scan# 58
 Delta R.T. -0.001 min
 Lab File: BN035284.D
 Acq: 25 Nov 2024 14:29

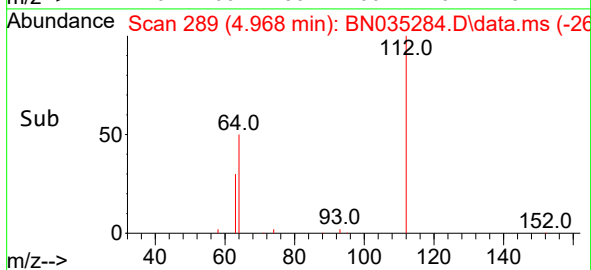
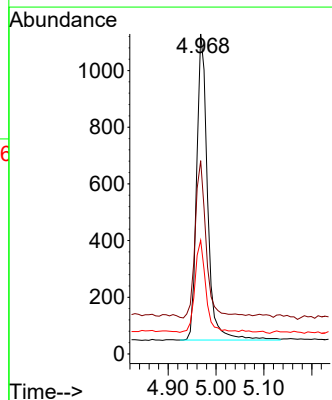
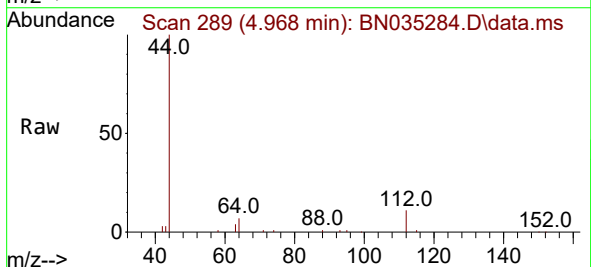
Instrument :
 BNA_N
 ClientSampleId :
 ICVBN112524

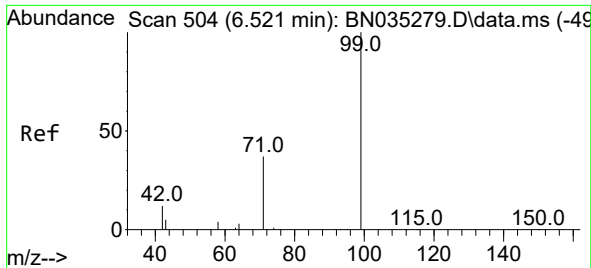
Tgt Ion: 42 Resp: 809
 Ion Ratio Lower Upper
 42 100
 74 116.4 102.7 154.1
 44 0.0 34.1 51.1#



#4
 2-Fluorophenol
 Concen: 0.360 ng
 RT: 4.968 min Scan# 289
 Delta R.T. -0.000 min
 Lab File: BN035284.D
 Acq: 25 Nov 2024 14:29

Tgt Ion: 112 Resp: 1712
 Ion Ratio Lower Upper
 112 100
 64 53.3 40.4 60.6
 63 29.8 23.8 35.8

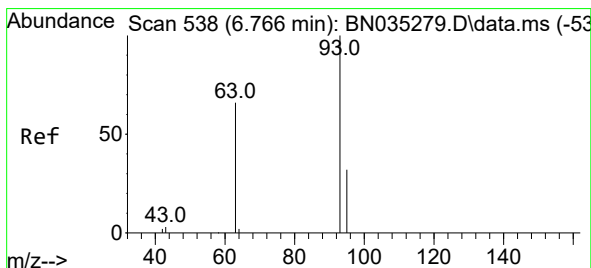
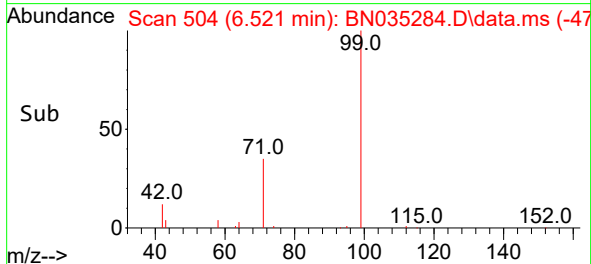
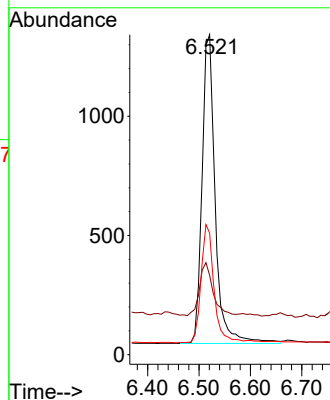
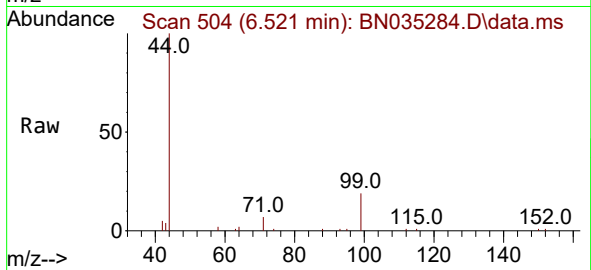




#5
Phenol-d6
Concen: 0.348 ng
RT: 6.521 min Scan# 504
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

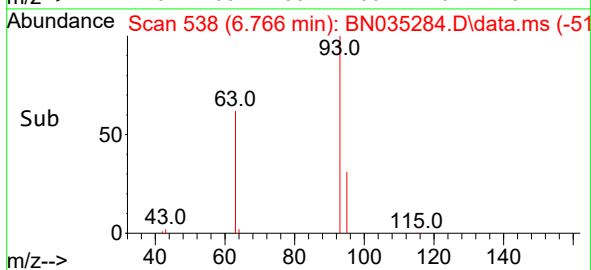
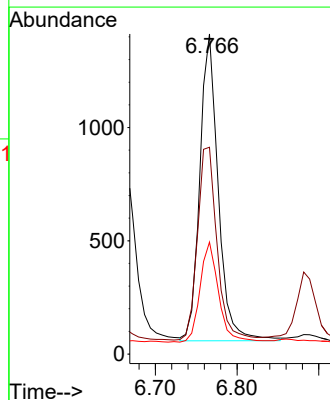
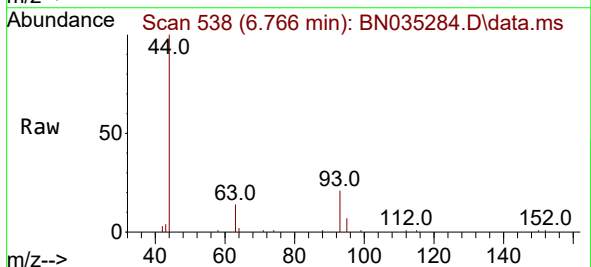
Instrument :
BNA_N
ClientSampleId :
ICVBN112524

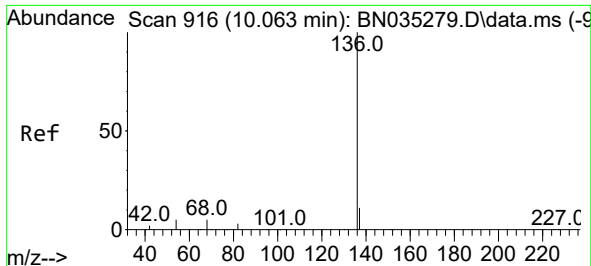
Tgt Ion: 99 Resp: 2314
Ion Ratio Lower Upper
99 100
42 17.3 12.8 19.2
71 38.1 31.4 47.2



#6
bis(2-Chloroethyl)ether
Concen: 0.381 ng
RT: 6.766 min Scan# 538
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Tgt Ion: 93 Resp: 2132
Ion Ratio Lower Upper
93 100
63 66.4 52.3 78.5
95 32.6 25.5 38.3

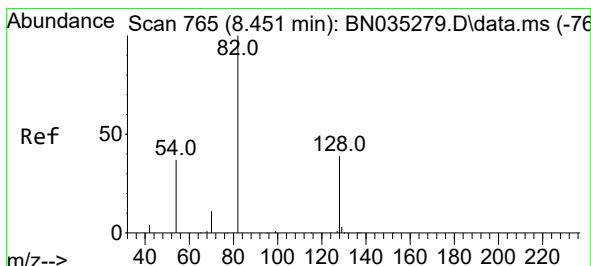
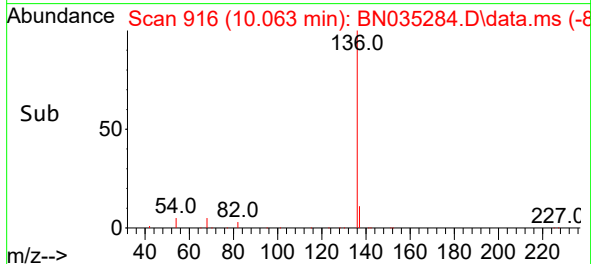
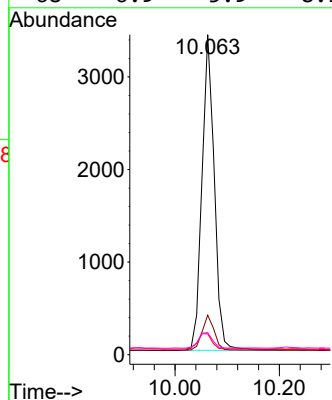
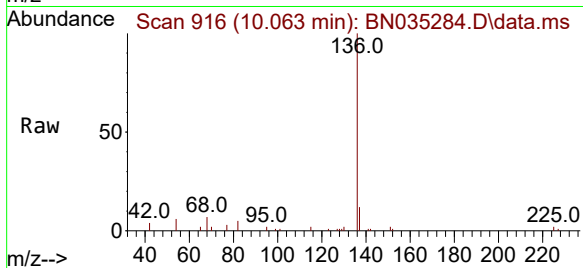




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.063 min Scan# 916
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

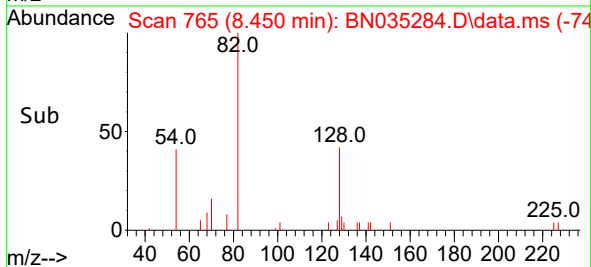
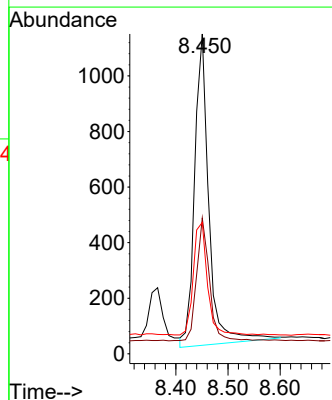
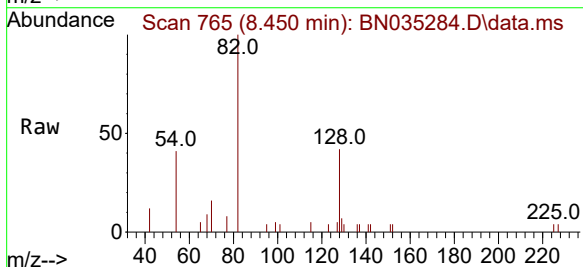
Instrument :
BNA_N
ClientSampleId :
ICVBN112524

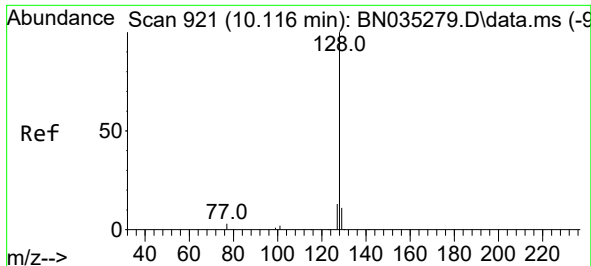
Tgt Ion:	136	Resp:	5593
Ion	Ratio	Lower	Upper
136	100		
137	12.3	9.7	14.5
54	6.5	5.3	7.9
68	6.9	5.9	8.9



#8
Nitrobenzene-d5
Concen: 0.469 ng
RT: 8.450 min Scan# 765
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Tgt Ion:	82	Resp:	2129
Ion	Ratio	Lower	Upper
82	100		
128	42.5	33.0	49.4
54	41.1	33.3	49.9

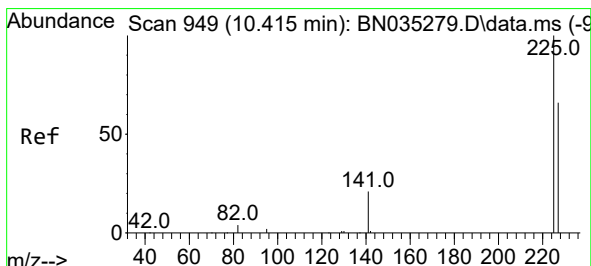
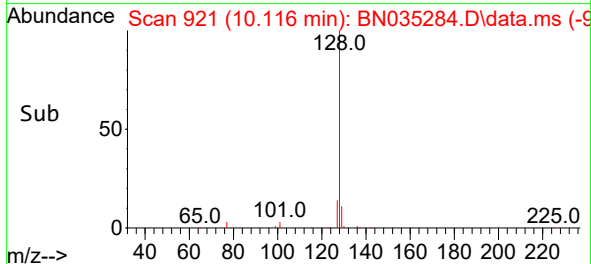
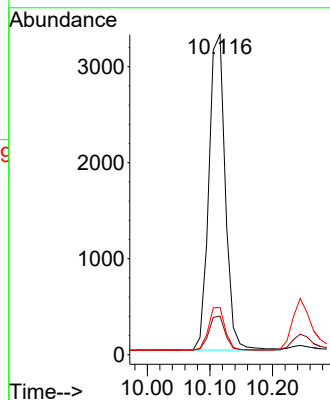
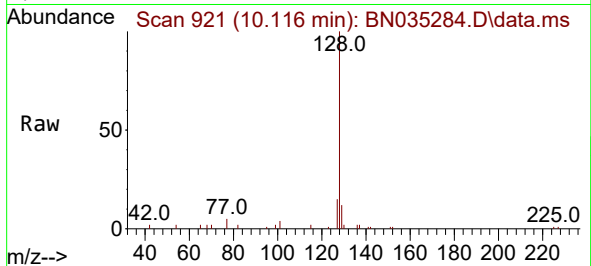




#9
Naphthalene
Concen: 0.385 ng
RT: 10.116 min Scan# 911
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

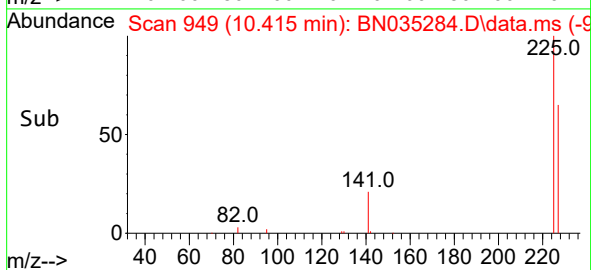
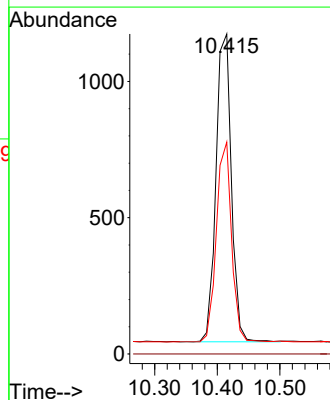
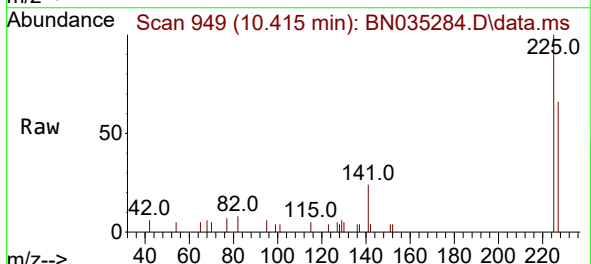
Instrument :
BNA_N
ClientSampleId :
ICVBN112524

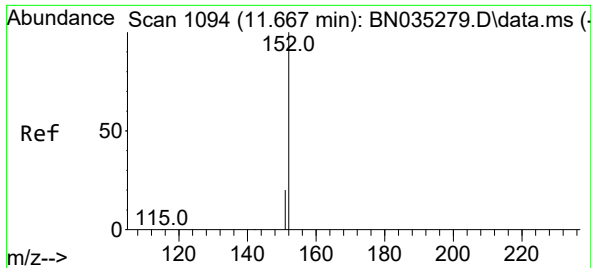
Tgt Ion:128 Resp: 5975
Ion Ratio Lower Upper
128 100
129 12.0 9.6 14.4
127 14.8 11.3 16.9



#10
Hexachlorobutadiene
Concen: 0.442 ng
RT: 10.415 min Scan# 949
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Tgt Ion:225 Resp: 1929
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.7 51.3 76.9

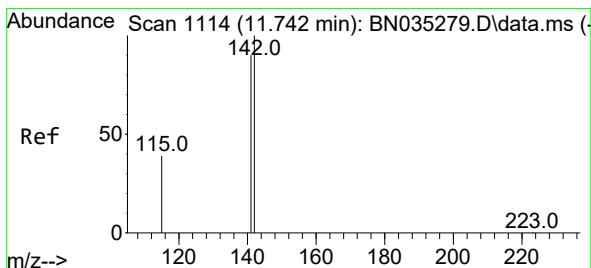
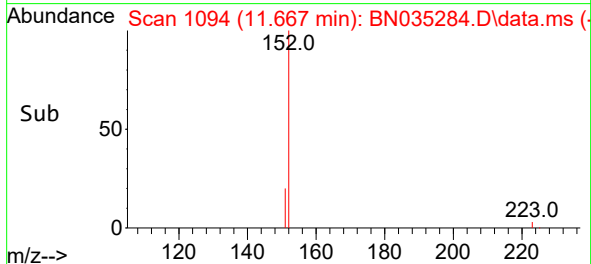
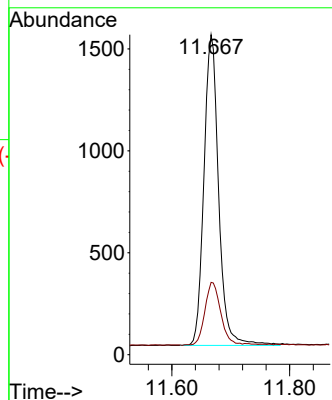
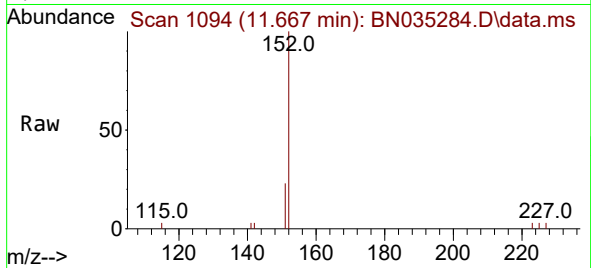




#11
2-Methylnaphthalene-d10
Concen: 0.337 ng
RT: 11.667 min Scan# 11094
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

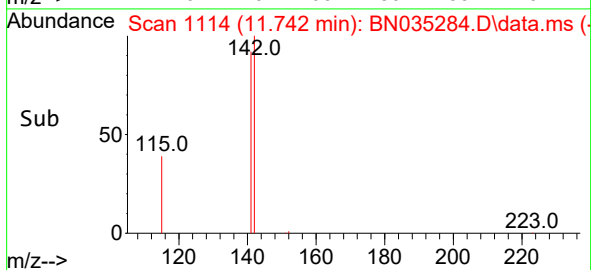
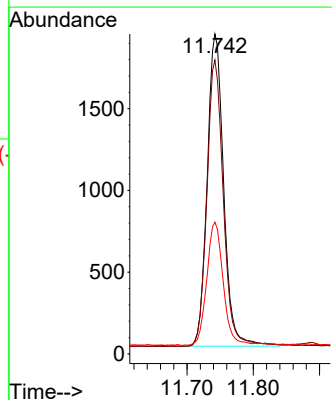
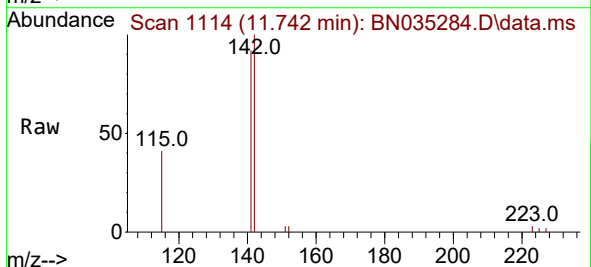
Instrument :
BNA_N
ClientSampleId :
ICVBN112524

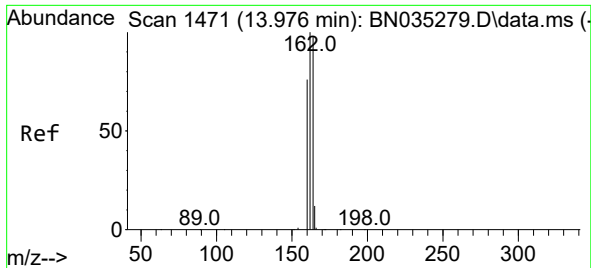
Tgt Ion:152 Resp: 2635
Ion Ratio Lower Upper
152 100
151 21.9 17.2 25.8



#12
2-Methylnaphthalene
Concen: 0.325 ng
RT: 11.742 min Scan# 1114
Delta R.T. 0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Tgt Ion:142 Resp: 3297
Ion Ratio Lower Upper
142 100
141 91.9 71.8 107.8
115 41.2 32.6 49.0

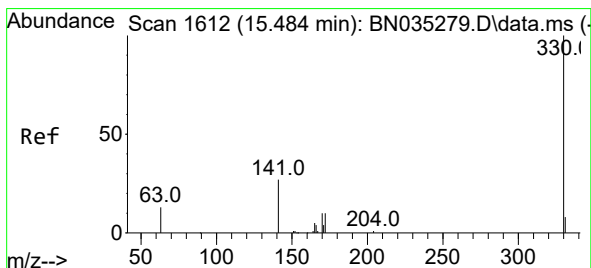
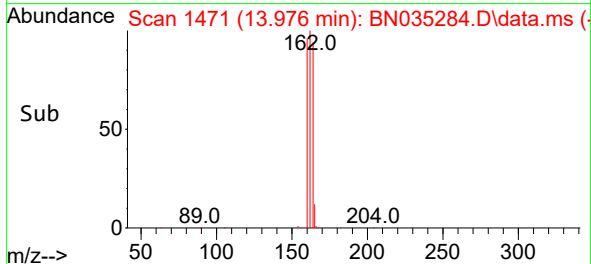
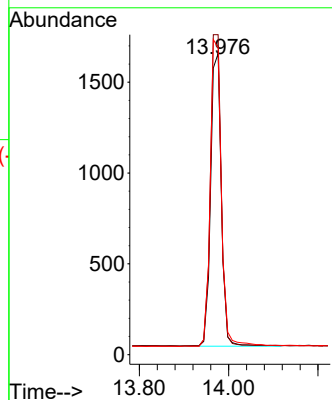
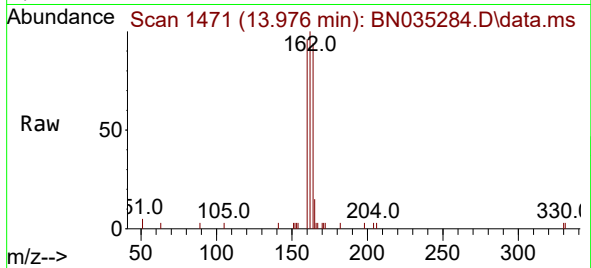




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.976 min Scan# 1471
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

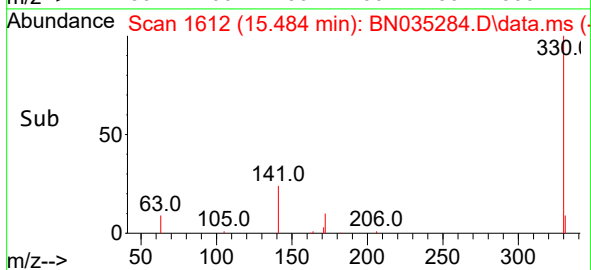
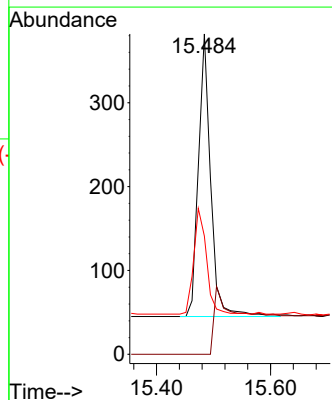
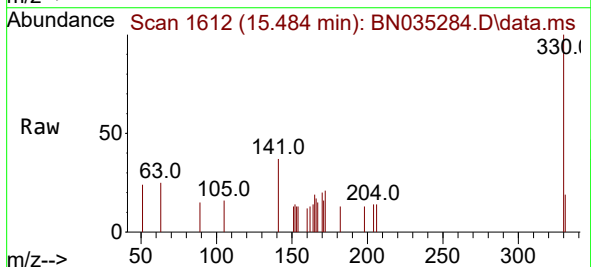
Instrument :
BNA_N
ClientSampleId :
ICVBN112524

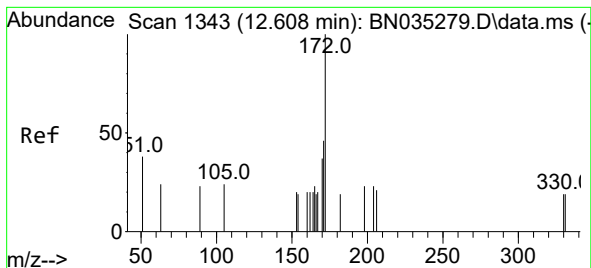
Tgt Ion:164 Resp: 2659
Ion Ratio Lower Upper
164 100
162 106.3 82.0 123.0
160 101.9 63.0 94.4#



#14
2,4,6-Tribromophenol
Concen: 0.402 ng
RT: 15.484 min Scan# 1612
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Tgt Ion:330 Resp: 546
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 37.7 32.4 48.6





#15

2-Fluorobiphenyl

Concen: 0.465 ng

RT: 12.608 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN035284.D

Acq: 25 Nov 2024 14:29

Instrument :

BNA_N

ClientSampleId :

ICVBN112524

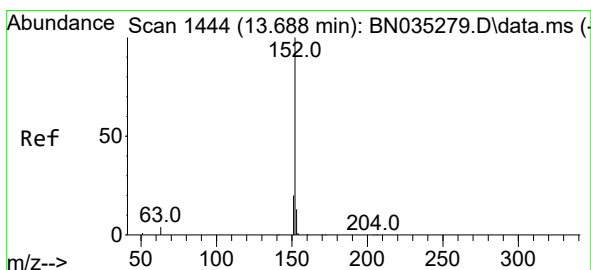
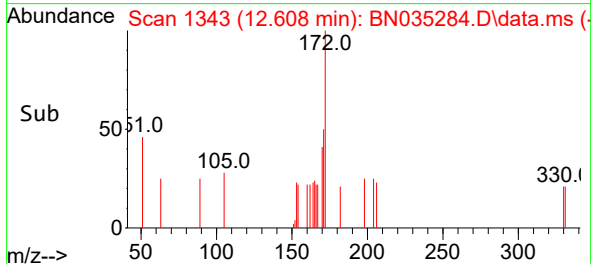
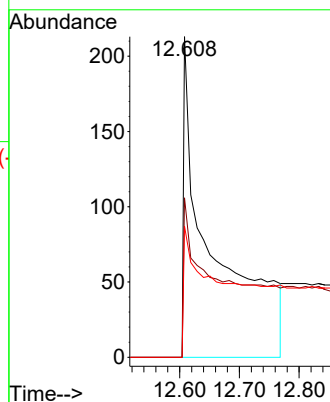
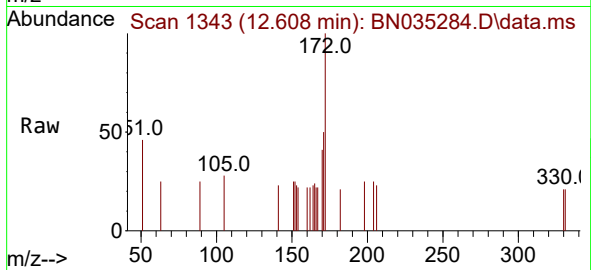
Tgt Ion:172 Resp: 683

Ion Ratio Lower Upper

172 100

171 49.8 36.6 55.0

170 40.8 29.7 44.5



#16

Acenaphthylene

Concen: 0.387 ng

RT: 13.688 min Scan# 1444

Delta R.T. -0.000 min

Lab File: BN035284.D

Acq: 25 Nov 2024 14:29

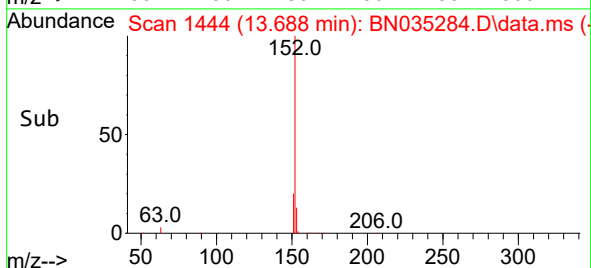
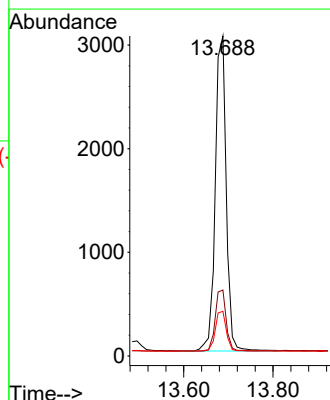
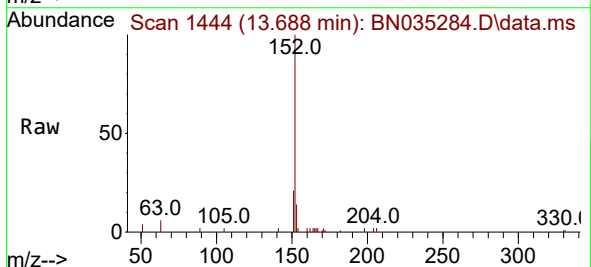
Tgt Ion:152 Resp: 5175

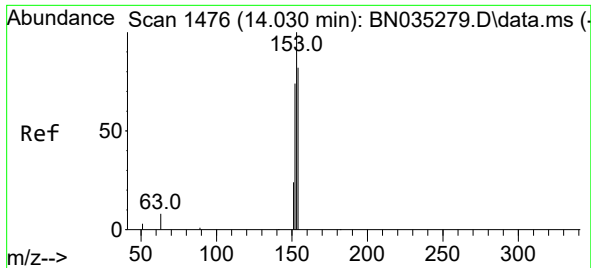
Ion Ratio Lower Upper

152 100

151 19.1 15.9 23.9

153 12.9 10.2 15.4

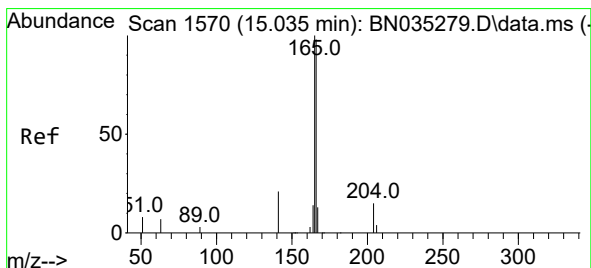
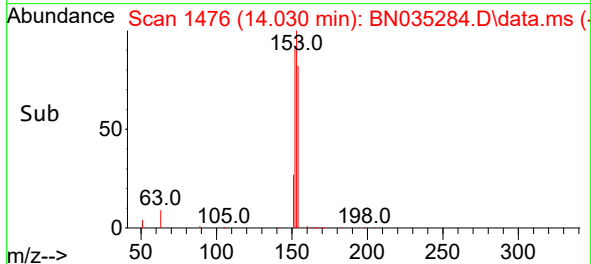
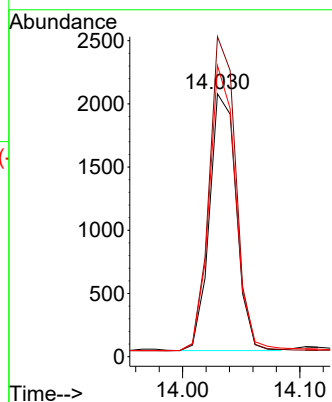
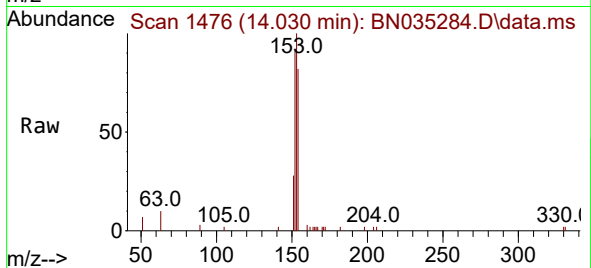




#17
Acenaphthene
Concen: 0.383 ng
RT: 14.030 min Scan# 1476
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

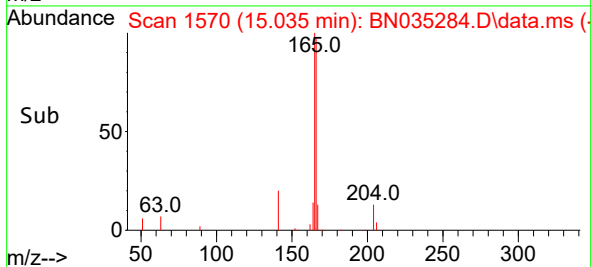
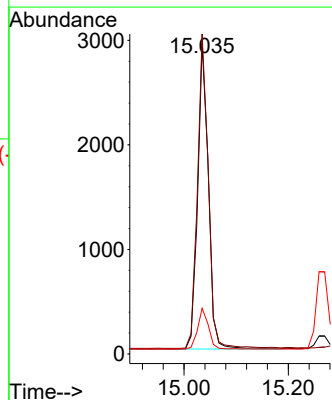
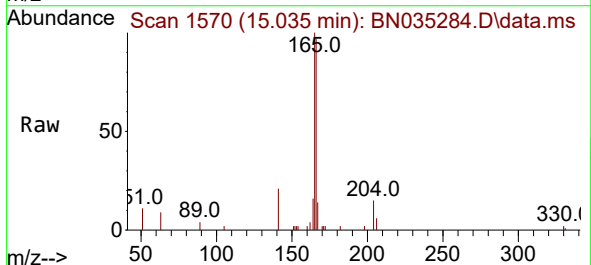
Instrument :
BNA_N
ClientSampleId :
ICVBN112524

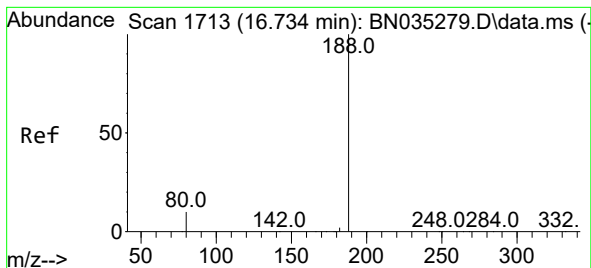
Tgt Ion:154 Resp: 3227
Ion Ratio Lower Upper
154 100
153 121.8 96.1 144.1
152 111.1 72.2 108.2#



#18
Fluorene
Concen: 0.355 ng
RT: 15.035 min Scan# 1570
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Tgt Ion:166 Resp: 4194
Ion Ratio Lower Upper
166 100
165 104.2 81.2 121.8
167 13.7 10.5 15.7





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.734 min Scan# 1713

Delta R.T. -0.000 min

Lab File: BN035284.D

Acq: 25 Nov 2024 14:29

Instrument :

BNA_N

ClientSampleId :

ICVBN112524

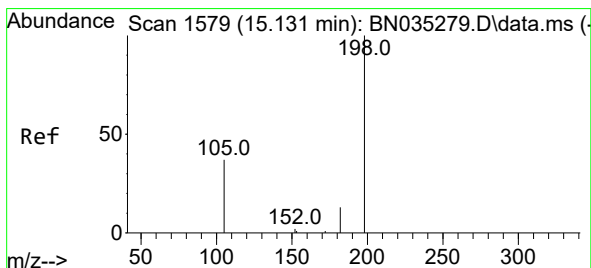
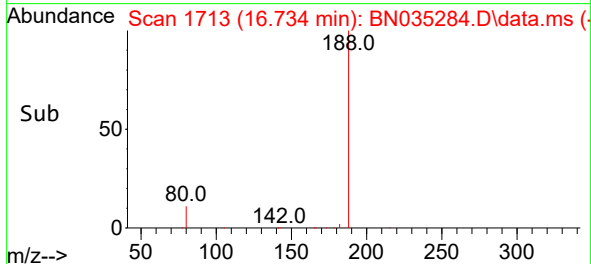
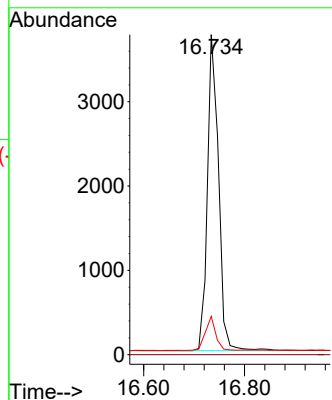
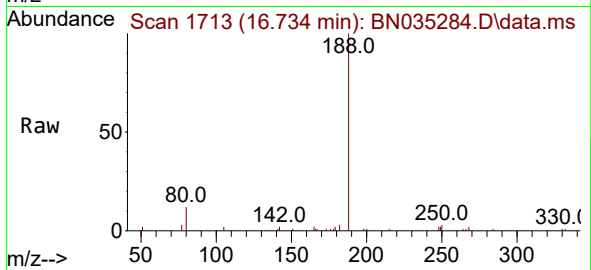
Tgt Ion:188 Resp: 5748

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.9 8.9 13.3



#20

4,6-Dinitro-2-methylphenol

Concen: 0.477 ng

RT: 15.131 min Scan# 1579

Delta R.T. -0.000 min

Lab File: BN035284.D

Acq: 25 Nov 2024 14:29

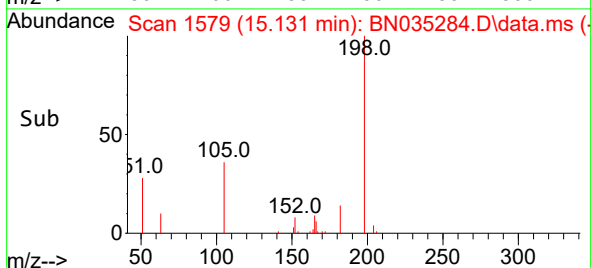
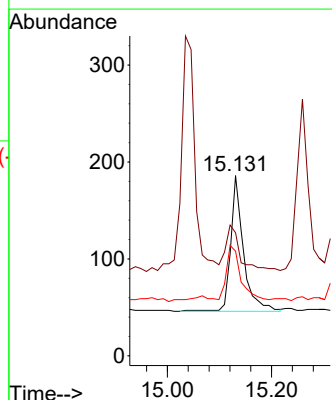
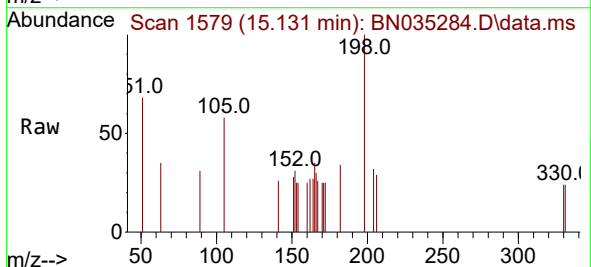
Tgt Ion:198 Resp: 239

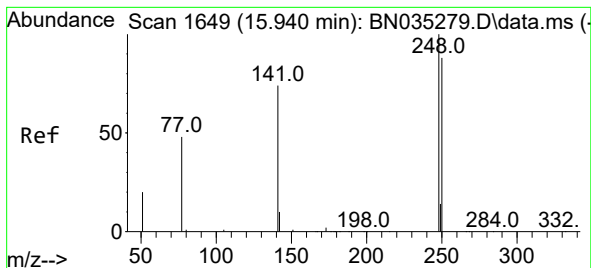
Ion Ratio Lower Upper

198 100

51 68.3 53.6 80.4

105 58.1 47.4 71.2

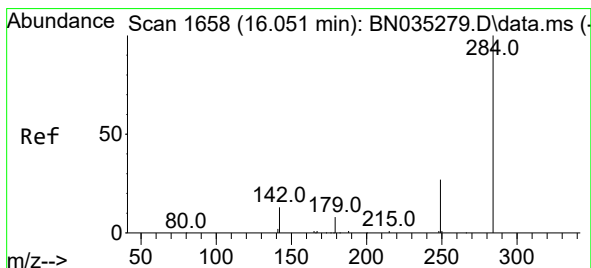
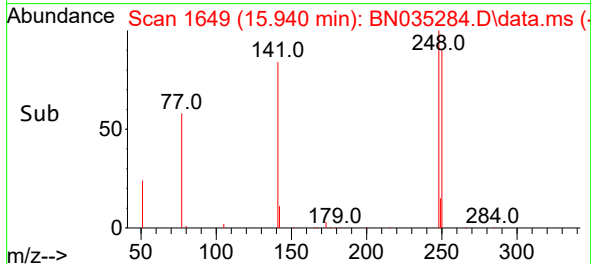
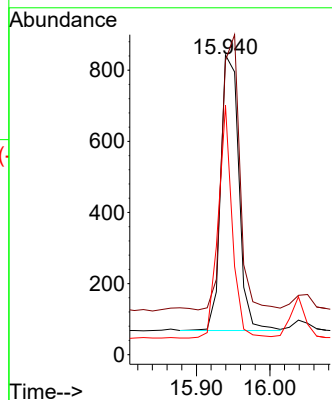
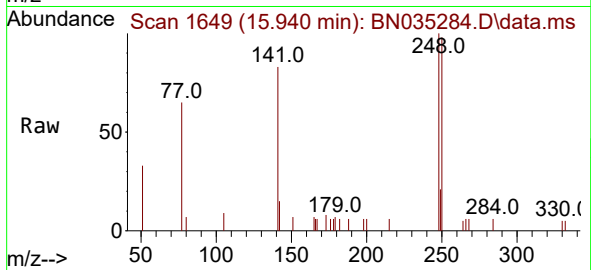




#21
4-Bromophenyl-phenylether
Concen: 0.364 ng
RT: 15.940 min Scan# 1649
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

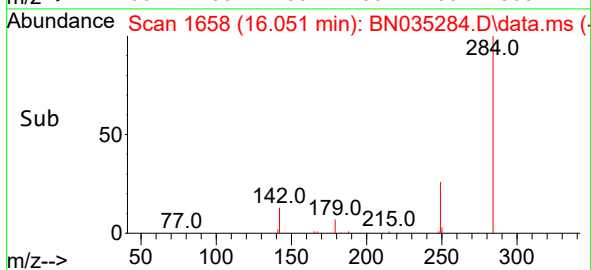
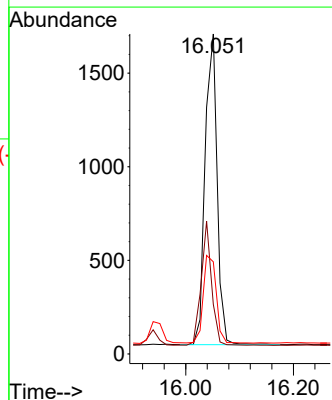
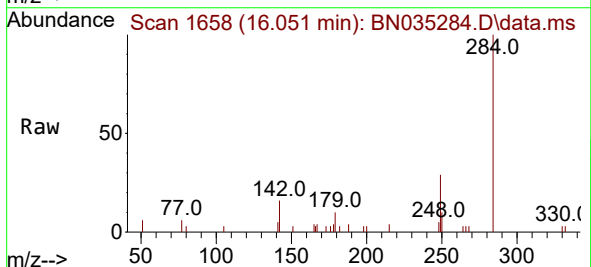
Instrument :
BNA_N
ClientSampleId :
ICVBN112524

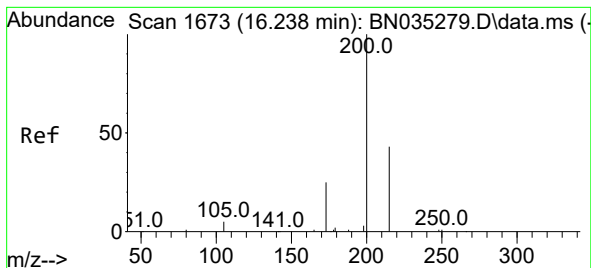
Tgt Ion:248 Resp: 1328
Ion Ratio Lower Upper
248 100
250 98.1 74.8 112.2
141 83.2 59.0 88.4



#22
Hexachlorobenzene
Concen: 0.491 ng
RT: 16.051 min Scan# 1658
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Tgt Ion:284 Resp: 2564
Ion Ratio Lower Upper
284 100
142 35.1 28.7 43.1
249 30.5 25.4 38.0





#23

Atrazine

Concen: 0.419 ng

RT: 16.237 min Scan# 1673

Delta R.T. -0.000 min

Lab File: BN035284.D

Acq: 25 Nov 2024 14:29

Instrument :

BNA_N

ClientSampleId :

ICVBN112524

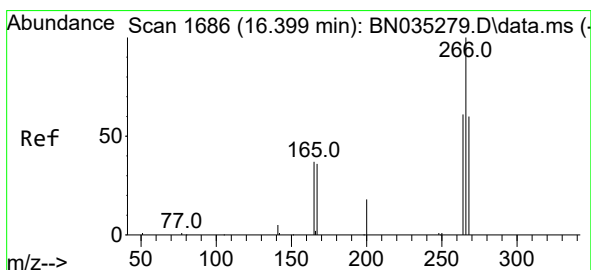
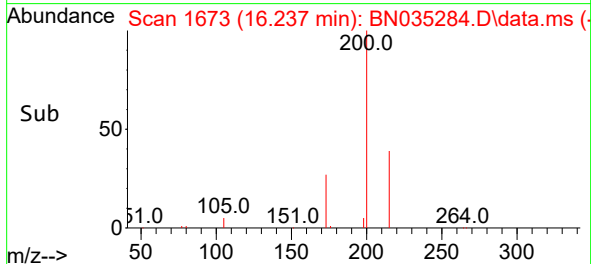
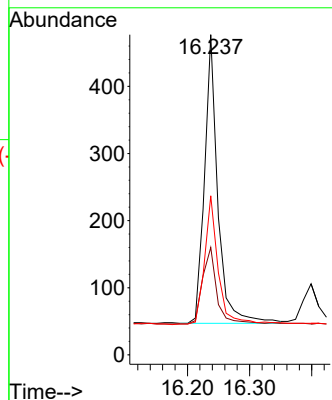
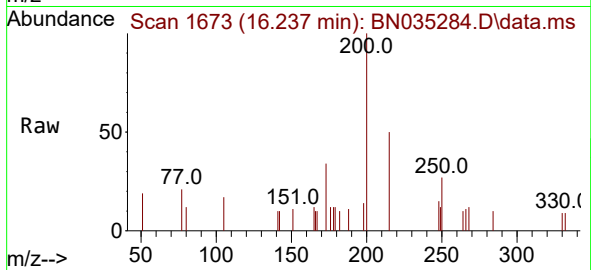
Tgt Ion:200 Resp: 643

Ion Ratio Lower Upper

200 100

173 33.5 25.8 38.8

215 49.7 38.6 58.0



#24

Pentachlorophenol

Concen: 0.407 ng

RT: 16.399 min Scan# 1686

Delta R.T. -0.000 min

Lab File: BN035284.D

Acq: 25 Nov 2024 14:29

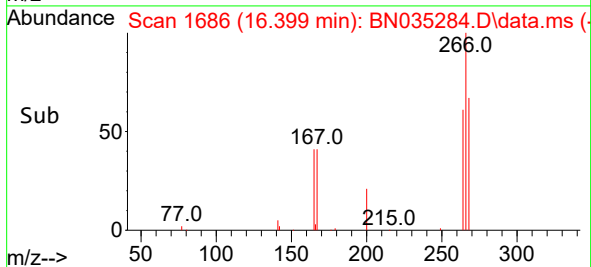
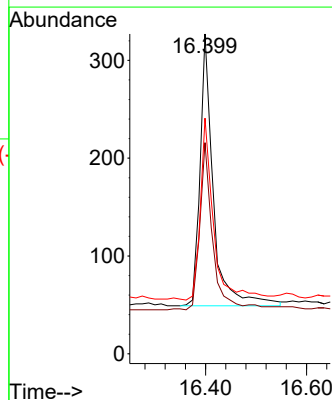
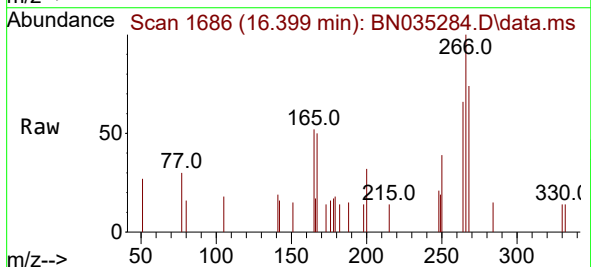
Tgt Ion:266 Resp: 510

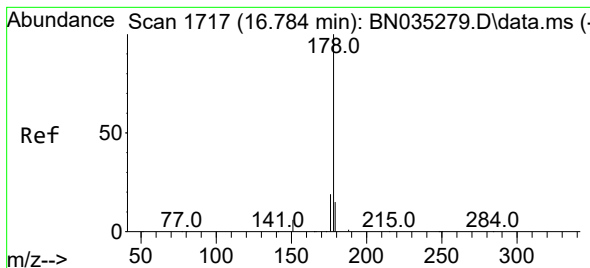
Ion Ratio Lower Upper

266 100

264 59.8 49.3 73.9

268 66.9 48.6 73.0





#25

Phenanthrene

Concen: 0.362 ng

RT: 16.784 min Scan# 1717

Delta R.T. -0.000 min

Lab File: BN035284.D

Acq: 25 Nov 2024 14:29

Instrument :

BNA_N

ClientSampleId :

ICVBN112524

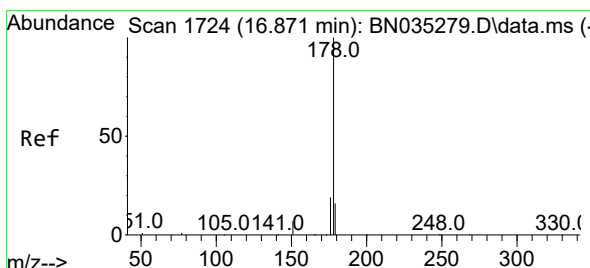
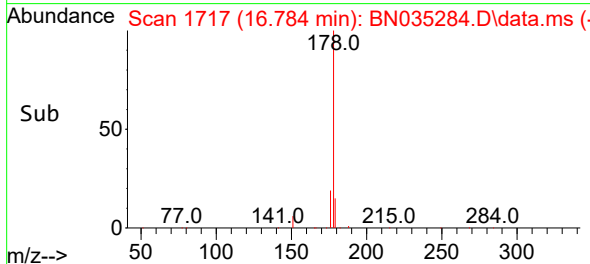
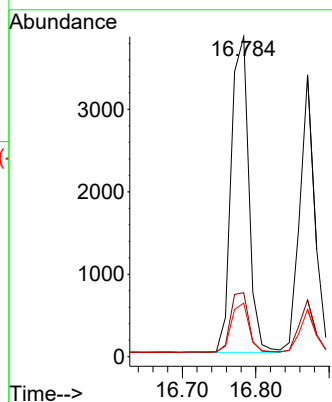
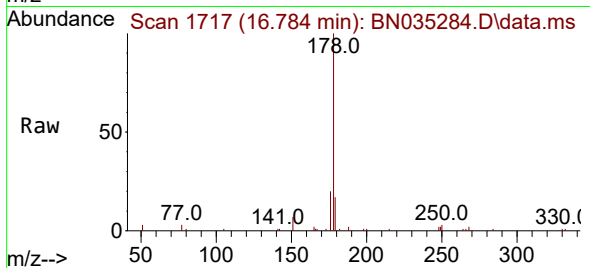
Tgt Ion:178 Resp: 6385

Ion Ratio Lower Upper

178 100

176 19.5 15.4 23.0

179 15.8 12.6 18.8



#26

Anthracene

Concen: 0.320 ng

RT: 16.870 min Scan# 1724

Delta R.T. -0.000 min

Lab File: BN035284.D

Acq: 25 Nov 2024 14:29

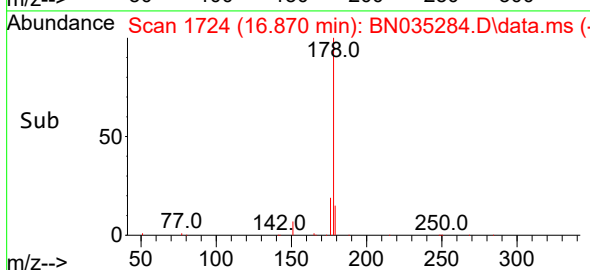
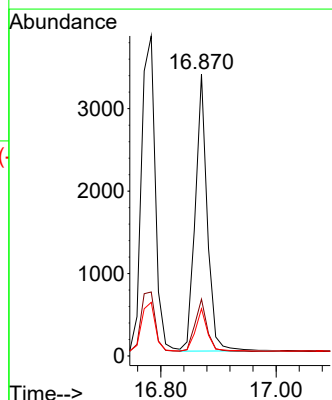
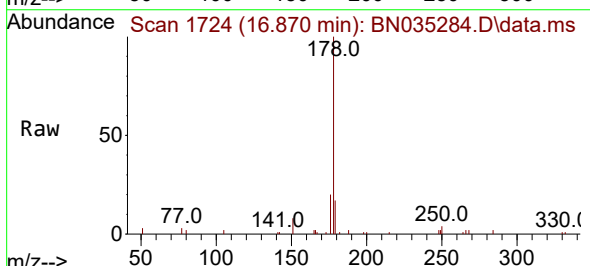
Tgt Ion:178 Resp: 4852

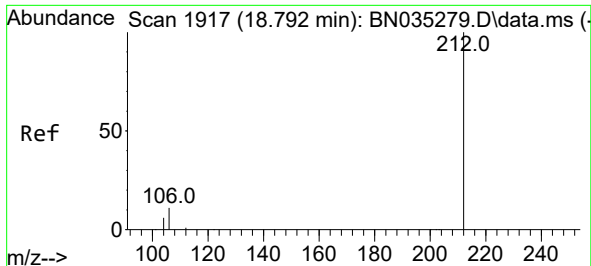
Ion Ratio Lower Upper

178 100

176 19.1 15.0 22.4

179 15.5 12.4 18.6

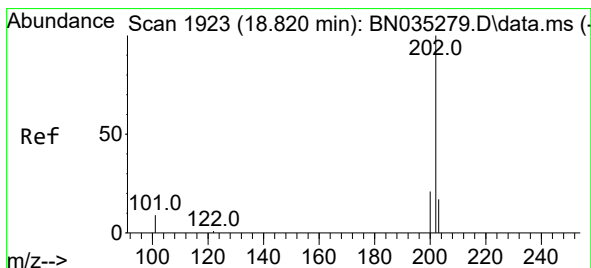
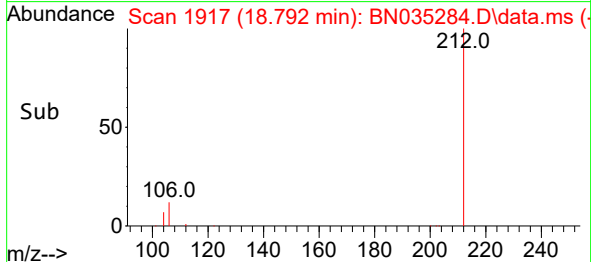
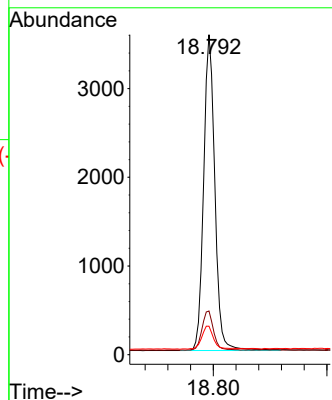
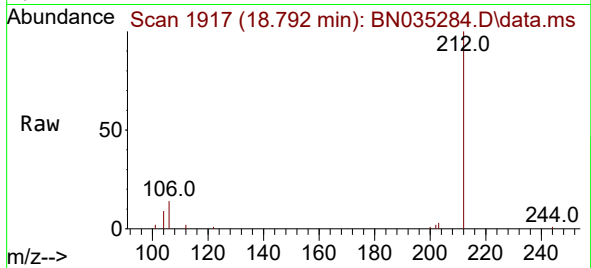




#27
Fluoranthene-d10
Concen: 0.317 ng
RT: 18.792 min Scan# 1917
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

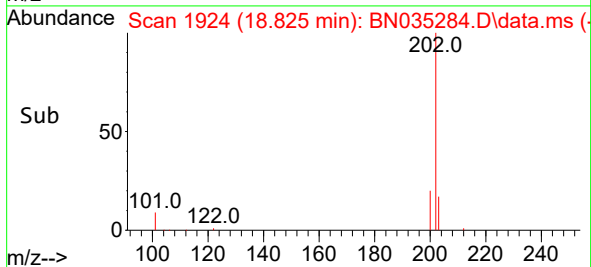
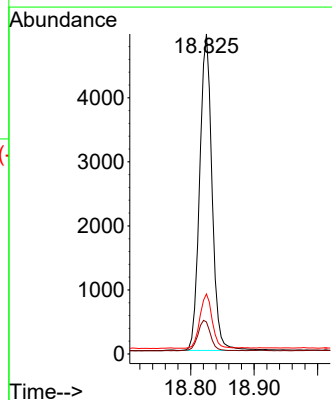
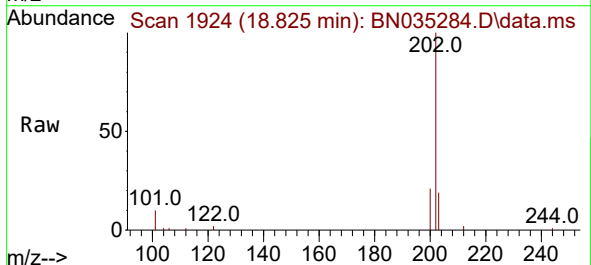
Instrument :
BNA_N
ClientSampleId :
ICVBN112524

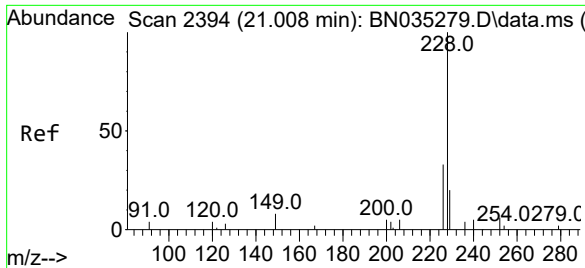
Tgt Ion:212 Resp: 4874
Ion Ratio Lower Upper
212 100
106 12.7 9.8 14.8
104 7.9 5.6 8.4



#28
Fluoranthene
Concen: 0.300 ng
RT: 18.825 min Scan# 1924
Delta R.T. 0.005 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Tgt Ion:202 Resp: 6686
Ion Ratio Lower Upper
202 100
101 9.8 7.6 11.4
203 17.1 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.008 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035284.D

Acq: 25 Nov 2024 14:29

Instrument :

BNA_N

ClientSampleId :

ICVBN112524

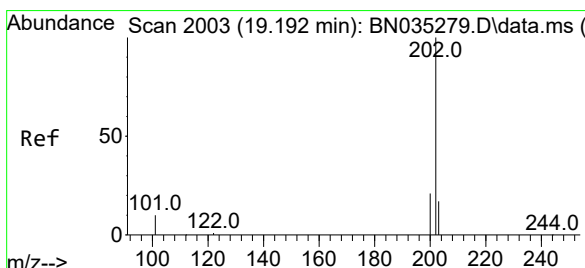
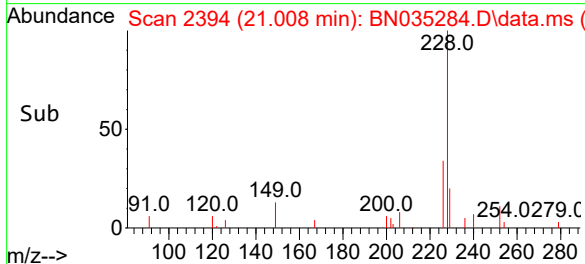
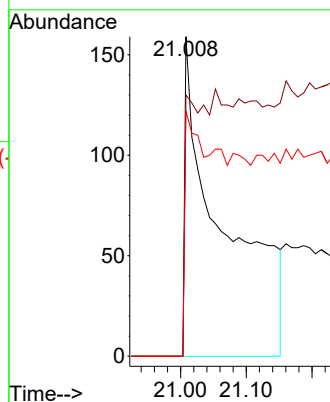
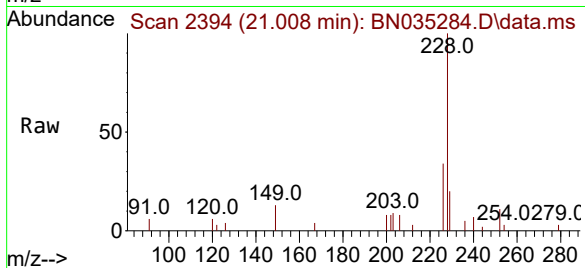
Tgt Ion:240 Resp: 611

Ion Ratio Lower Upper

240 100

120 81.8 54.9 82.3

236 76.7 54.0 81.0



#30

Pyrene

Concen: 0.294 ng

RT: 19.192 min Scan# 2003

Delta R.T. -0.000 min

Lab File: BN035284.D

Acq: 25 Nov 2024 14:29

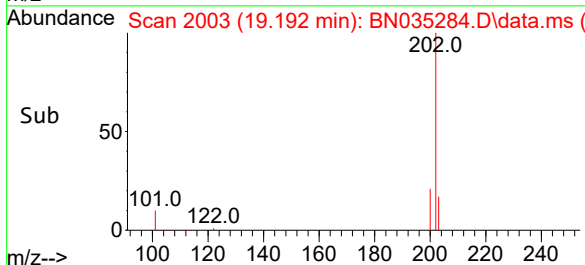
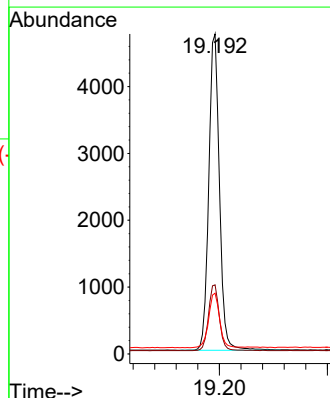
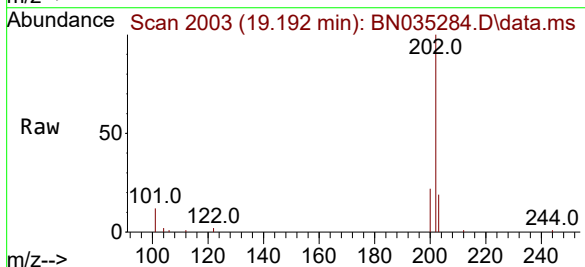
Tgt Ion:202 Resp: 6525

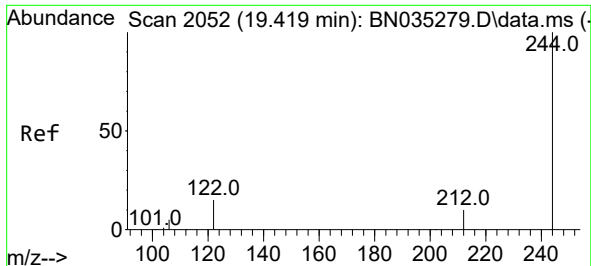
Ion Ratio Lower Upper

202 100

200 21.1 16.8 25.2

203 17.9 14.4 21.6

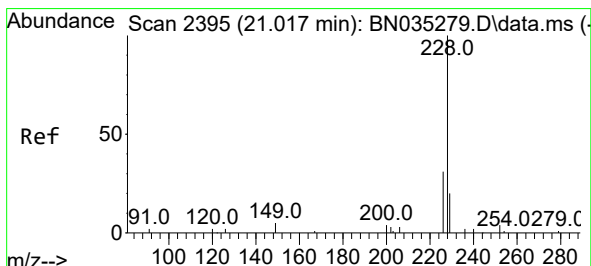
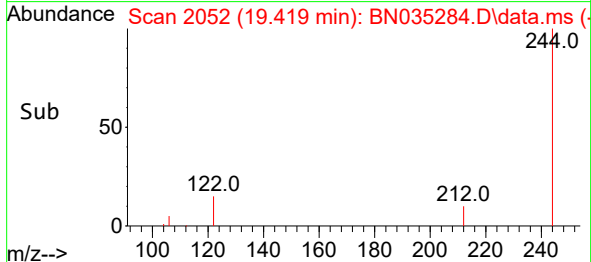
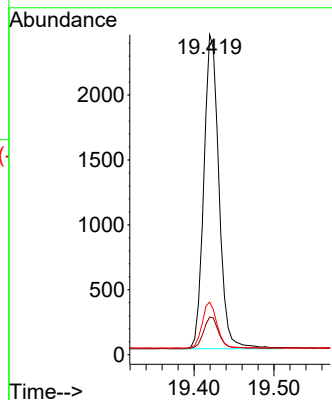
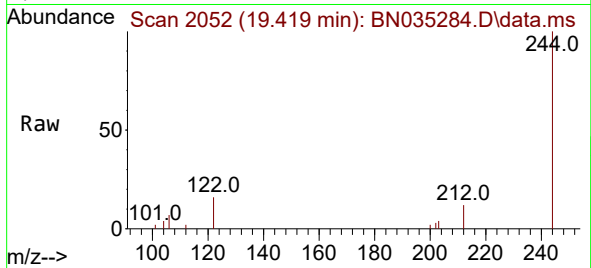




#31
 Terphenyl-d14
 Concen: 0.282 ng
 RT: 19.419 min Scan# 2052
 Delta R.T. 0.000 min
 Lab File: BN035284.D
 Acq: 25 Nov 2024 14:29

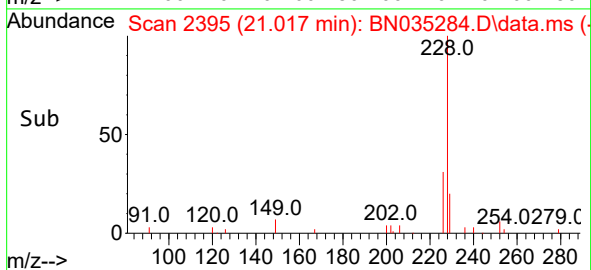
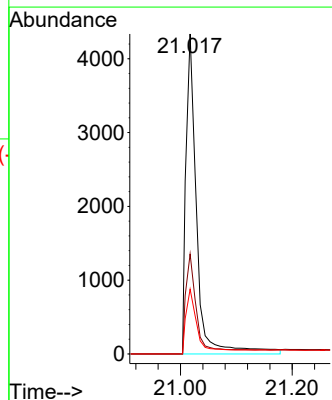
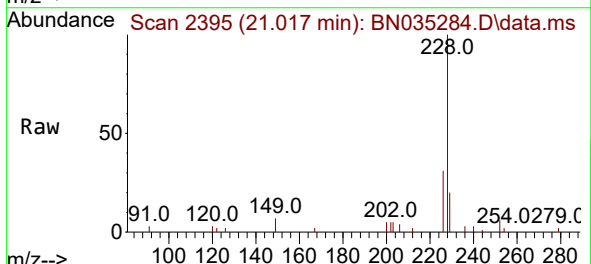
Instrument :
 BNA_N
 ClientSampleId :
 ICVBN112524

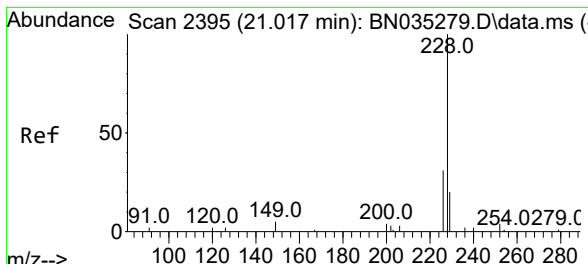
Tgt Ion:244 Resp: 3187
 Ion Ratio Lower Upper
 244 100
 212 11.8 9.4 14.0
 122 16.4 13.0 19.4



#32
 Benzo(a)anthracene
 Concen: 0.273 ng
 RT: 21.017 min Scan# 2395
 Delta R.T. 0.000 min
 Lab File: BN035284.D
 Acq: 25 Nov 2024 14:29

Tgt Ion:228 Resp: 5799
 Ion Ratio Lower Upper
 228 100
 226 31.3 24.7 37.1
 229 20.3 16.2 24.2

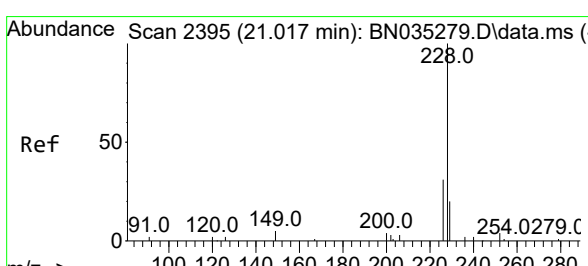
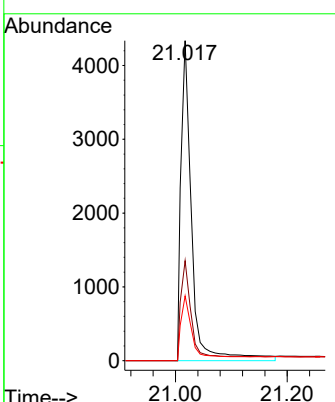
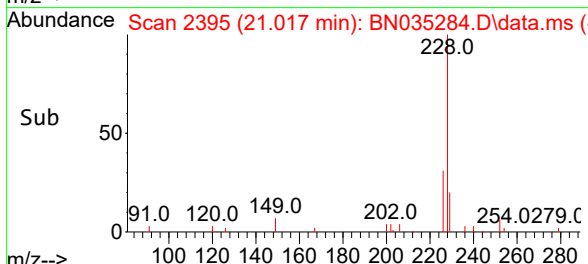
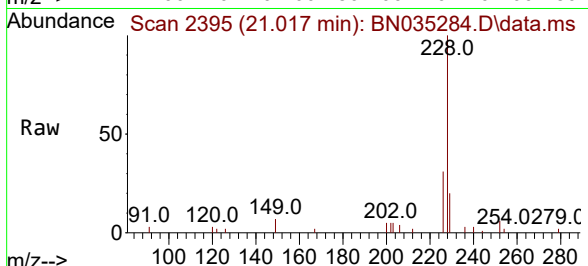




#33
 Chrysene
 Concen: 0.273 ng
 RT: 21.017 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: BN035284.D
 Acq: 25 Nov 2024 14:29

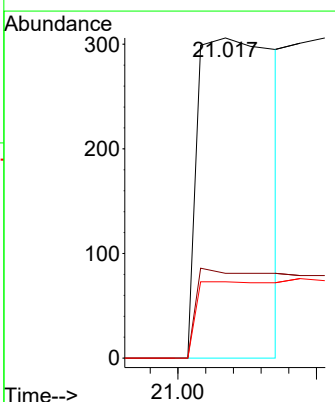
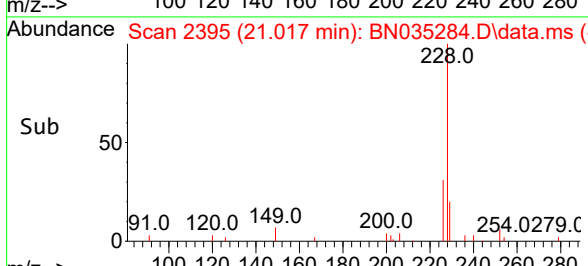
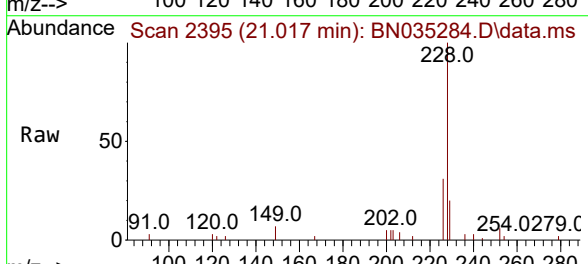
Instrument : BNA_N
 ClientSampleId : ICVBN112524

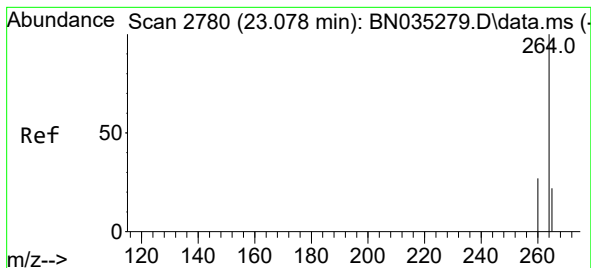
Tgt Ion:	228	Resp:	5799
Ion Ratio	Lower	Upper	
228	100		
226	31.3	24.7	37.1
229	20.3	16.2	24.2



#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.041 ng
 RT: 21.017 min Scan# 2395
 Delta R.T. 0.000 min
 Lab File: BN035284.D
 Acq: 25 Nov 2024 14:29

Tgt Ion:	149	Resp:	520
Ion Ratio	Lower	Upper	
149	100		
167	35.4	0.0	0.0#
279	17.1	13.0	19.6





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.081 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN035284.D

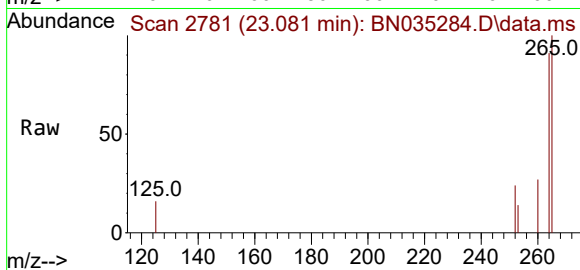
Acq: 25 Nov 2024 14:29

Instrument :

BNA_N

ClientSampleId :

ICVBN112524



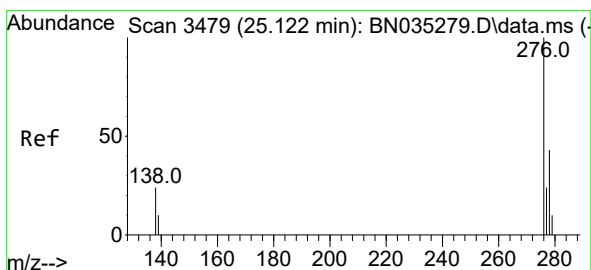
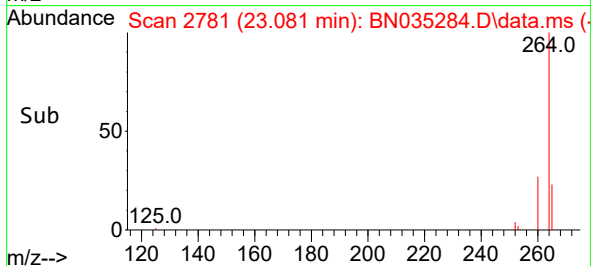
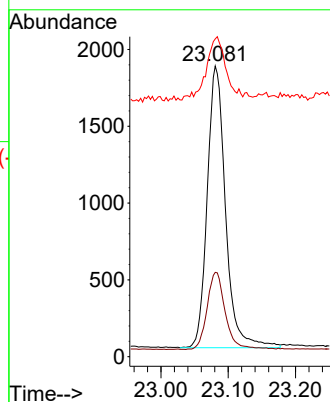
Tgt Ion:264 Resp: 3470

Ion Ratio Lower Upper

264 100

260 29.0 22.3 33.5

265 109.3 68.6 103.0#



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.398 ng

RT: 25.121 min Scan# 3479

Delta R.T. -0.000 min

Lab File: BN035284.D

Acq: 25 Nov 2024 14:29

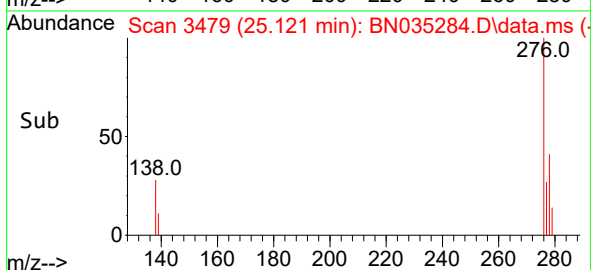
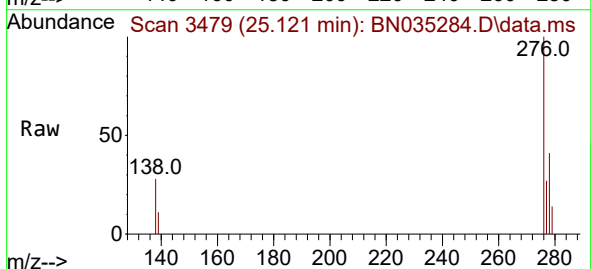
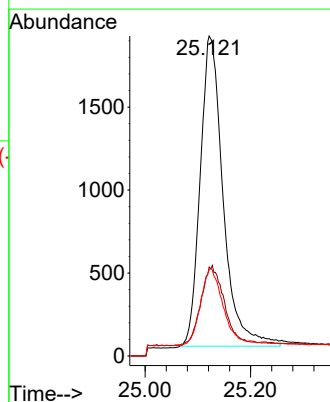
Tgt Ion:276 Resp: 5652

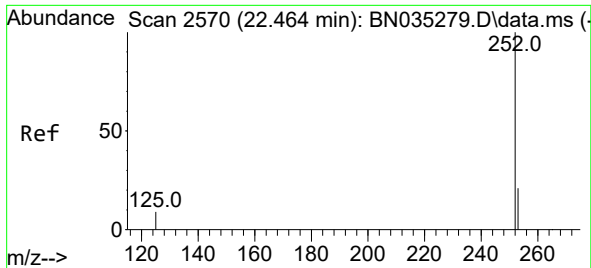
Ion Ratio Lower Upper

276 100

138 23.1 18.8 28.2

277 23.0 18.2 27.4

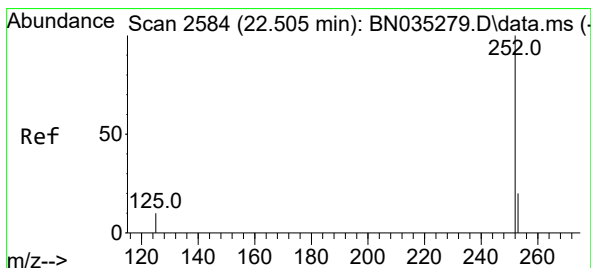
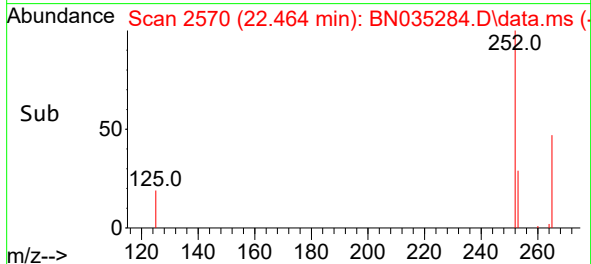
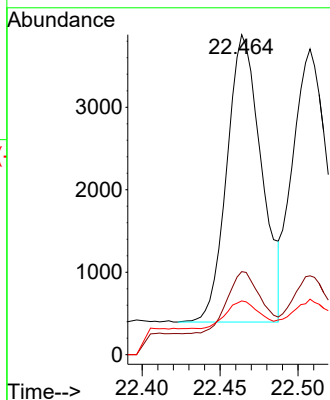
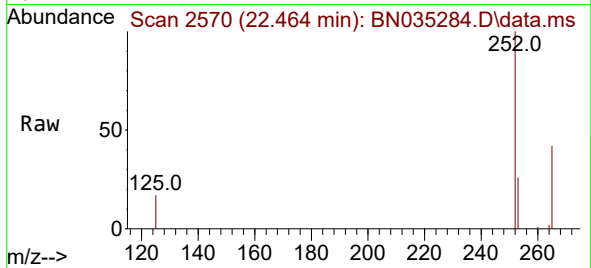




#37
Benzo(b)fluoranthene
Concen: 0.355 ng
RT: 22.464 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

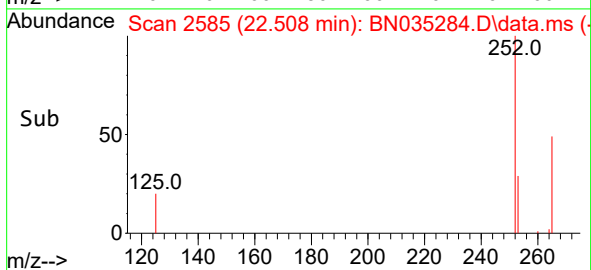
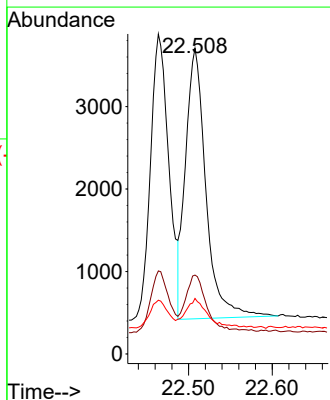
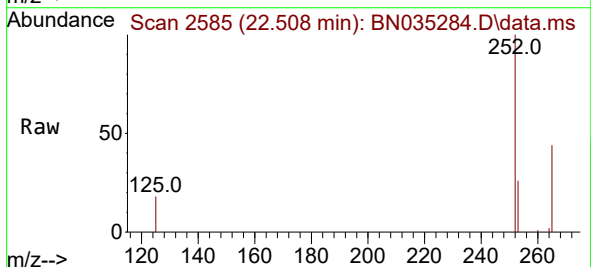
Instrument :
BNA_N
ClientSampleId :
ICVBN112524

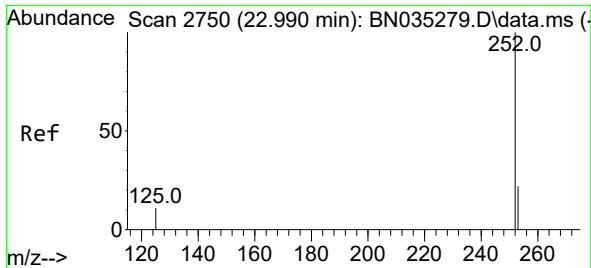
Tgt Ion:252 Resp: 5358
Ion Ratio Lower Upper
252 100
253 26.0 20.2 30.2
125 16.8 12.0 18.0



#38
Benzo(k)fluoranthene
Concen: 0.348 ng
RT: 22.508 min Scan# 2585
Delta R.T. 0.003 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

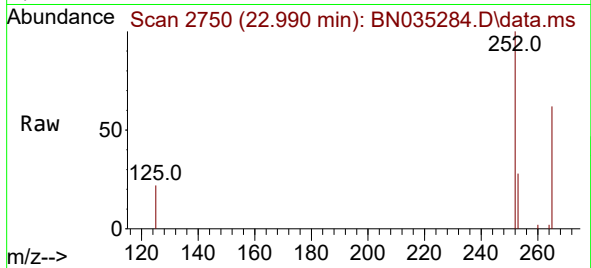
Tgt Ion:252 Resp: 5559
Ion Ratio Lower Upper
252 100
253 25.8 20.1 30.1
125 18.1 12.7 19.1



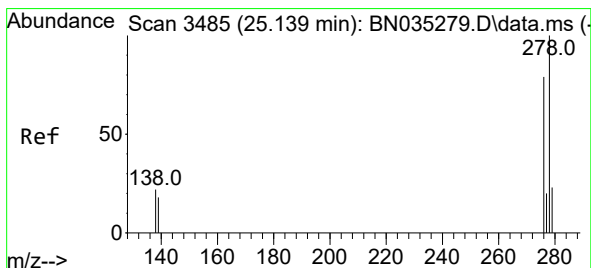
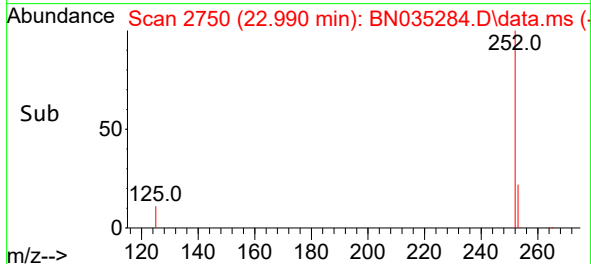
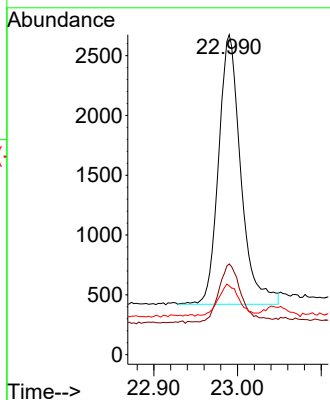


#39
Benzo(a)pyrene
Concen: 0.361 ng
RT: 22.990 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

Instrument :
BNA_N
ClientSampleId :
ICVBN112524

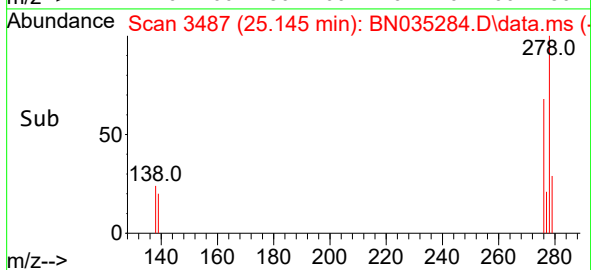
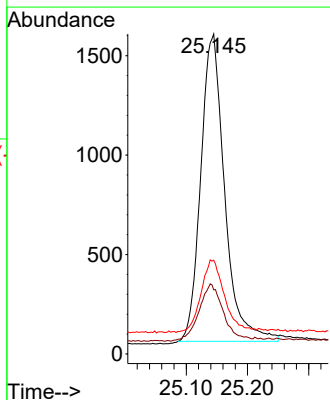
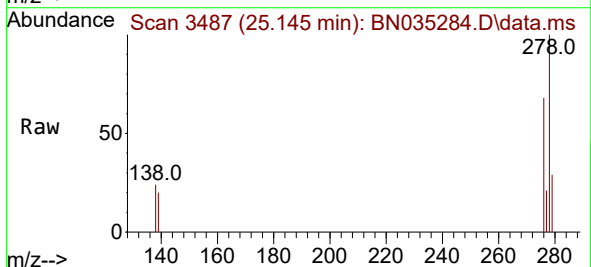


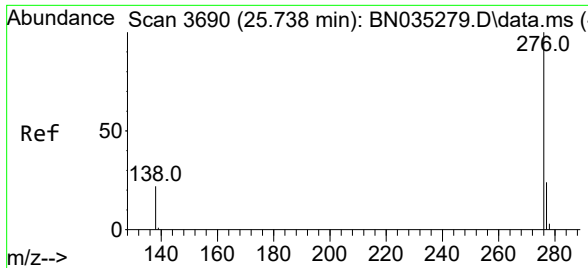
Tgt Ion:252 Resp: 4167
Ion Ratio Lower Upper
252 100
253 28.3 22.3 33.5
125 21.5 15.3 22.9



#40
Dibenzo(a,h)anthracene
Concen: 0.389 ng
RT: 25.145 min Scan# 3487
Delta R.T. 0.006 min
Lab File: BN035284.D
Acq: 25 Nov 2024 14:29

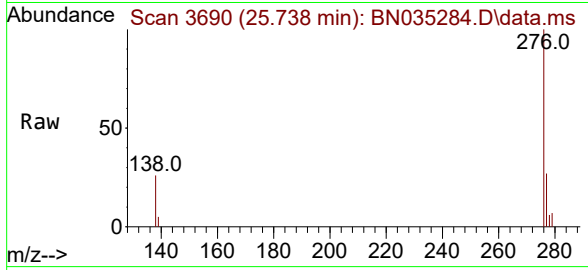
Tgt Ion:278 Resp: 4182
Ion Ratio Lower Upper
278 100
139 20.1 17.0 25.6
279 29.3 23.0 34.4



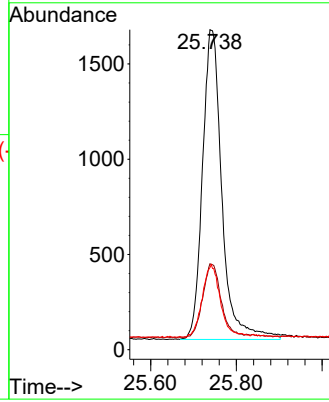
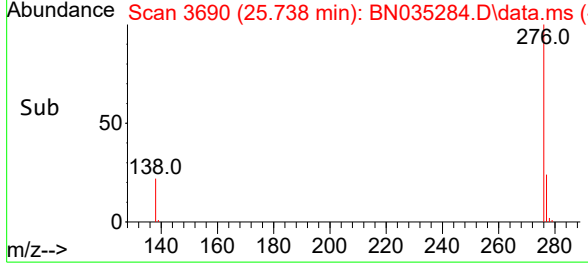


#41
 Benzo(g,h,i)perylene
 Concen: 0.412 ng
 RT: 25.738 min Scan# 30
 Delta R.T. -0.000 min
 Lab File: BN035284.D
 Acq: 25 Nov 2024 14:29

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN112524



Tgt Ion:	276	Resp:	5121
Ion	Ratio	Lower	Upper
276	100		
277	26.8	21.1	31.7
138	25.7	19.8	29.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
 Data File : BN035285.D
 Acq On : 25 Nov 2024 15:44
 Operator : RC/JU
 Sample : PB165150BL
 Misc :
 ALS Vial : 61 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB165150BL

Quant Time: Nov 25 18:32:20 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Nov 25 14:32:52 2024
 Response via : Initial Calibration

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

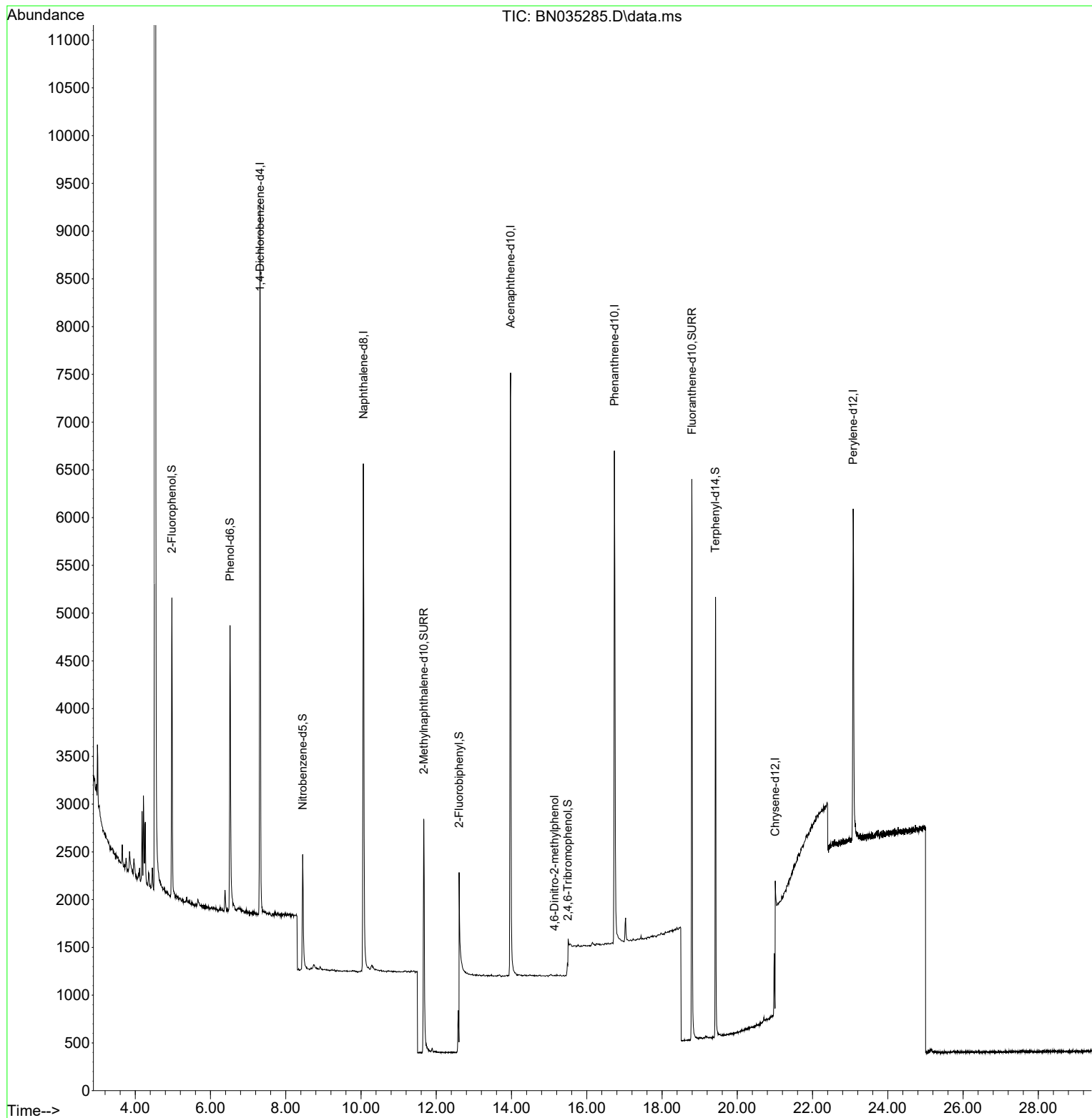
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.315	152	3592	0.400	ng	0.00
7) Naphthalene-d8	10.063	136	7815	0.400	ng	0.00
13) Acenaphthene-d10	13.976	164	3951	0.400	ng	0.00
19) Phenanthrene-d10	16.734	188	8151	0.400	ng	0.00
29) Chrysene-d12	21.008	240	804	0.400	ng	# 0.00
35) Perylene-d12	23.081	264	4507	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.975	112	2542	0.375	ng	0.00
5) Phenol-d6	6.520	99	3467	0.366	ng	0.00
8) Nitrobenzene-d5	8.450	82	1413	0.223	ng	0.00
11) 2-Methylnaphthalene-d10	11.667	152	4135	0.378	ng	0.00
14) 2,4,6-Tribromophenol	15.494	330	137	0.068	ng	0.01
15) 2-Fluorobiphenyl	12.608	172	1594	0.730	ng	0.00
27) Fluoranthene-d10	18.792	212	7109	0.326	ng	0.00
31) Terphenyl-d14	19.419	244	4697	0.316	ng	0.00
Target Compounds						
20) 4,6-Dinitro-2-methylph...	15.142	198	1	0.191	ng	# 1

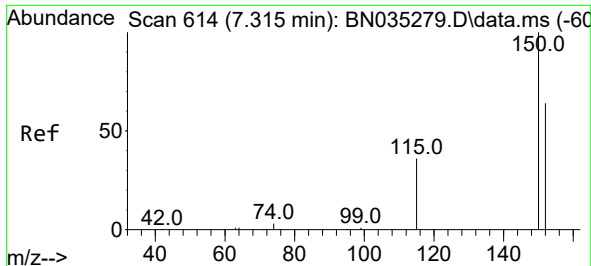
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
Data File : BN035285.D
Acq On : 25 Nov 2024 15:44
Operator : RC/JU
Sample : PB165150BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB165150BL

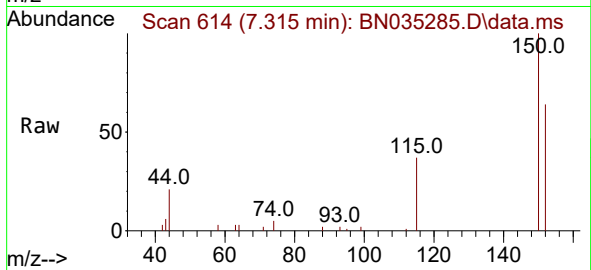
Quant Time: Nov 25 18:32:20 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 25 14:32:52 2024
Response via : Initial Calibration



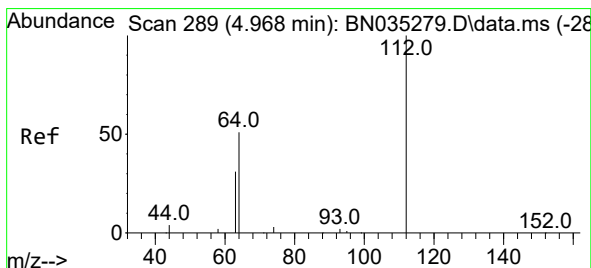
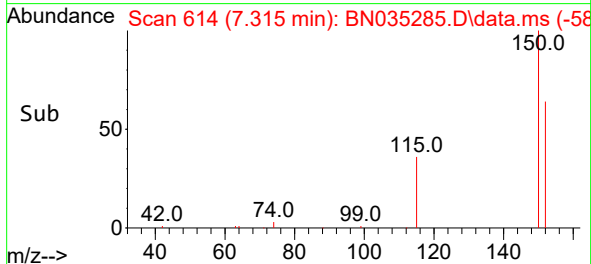
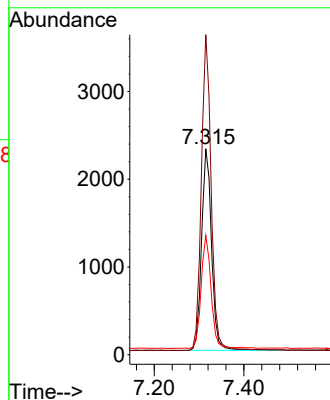


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.315 min Scan# 614
Delta R.T. -0.000 min
Lab File: BN035285.D
Acq: 25 Nov 2024 15:44

Instrument :
BNA_N
ClientSampleId :
PB165150BL

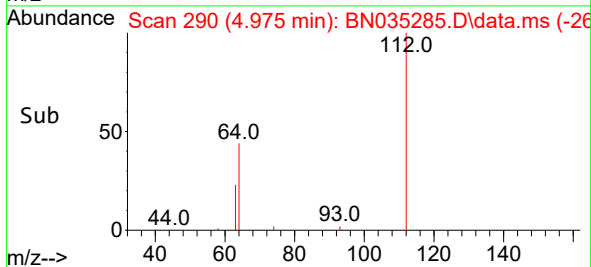
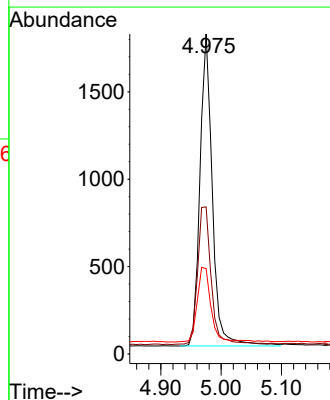
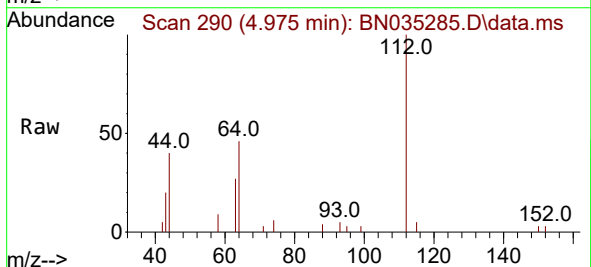


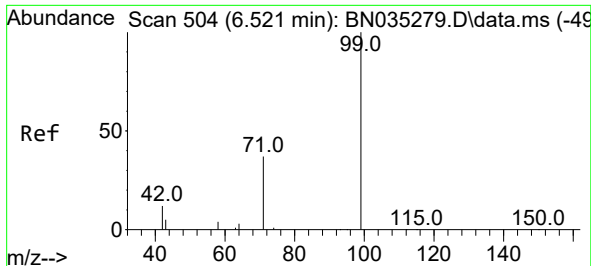
Tgt Ion:152 Resp: 3592
Ion Ratio Lower Upper
152 100
150 155.4 124.5 186.7
115 57.9 47.8 71.8



#4
2-Fluorophenol
Concen: 0.375 ng
RT: 4.975 min Scan# 290
Delta R.T. 0.007 min
Lab File: BN035285.D
Acq: 25 Nov 2024 15:44

Tgt Ion:112 Resp: 2542
Ion Ratio Lower Upper
112 100
64 48.7 40.4 60.6
63 26.7 23.8 35.8

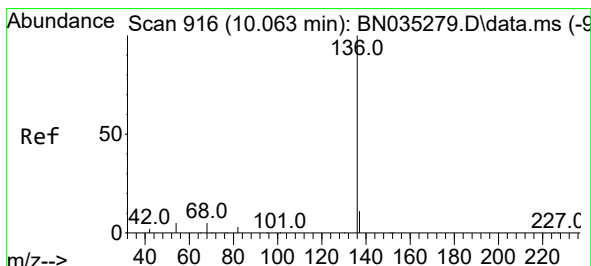
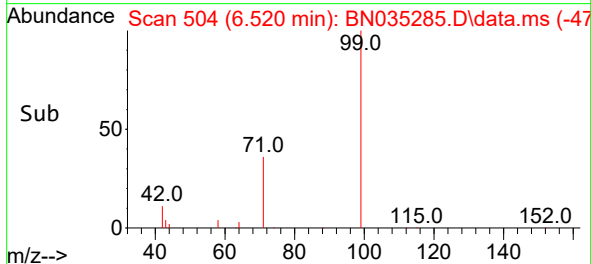
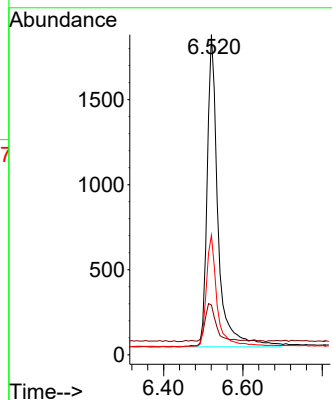
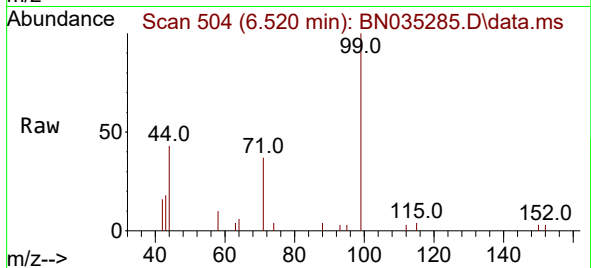




#5
Phenol-d6
Concen: 0.366 ng
RT: 6.520 min Scan# 504
Delta R.T. -0.000 min
Lab File: BN035285.D
Acq: 25 Nov 2024 15:44

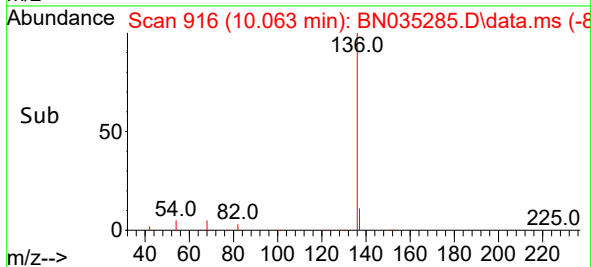
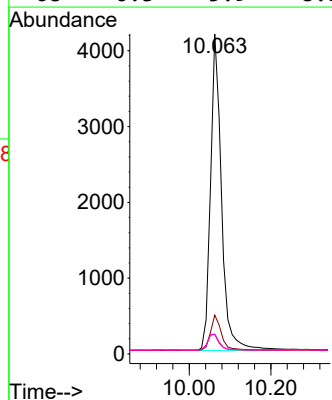
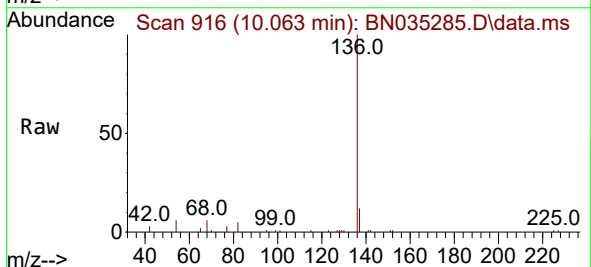
Instrument :
BNA_N
ClientSampleId :
PB165150BL

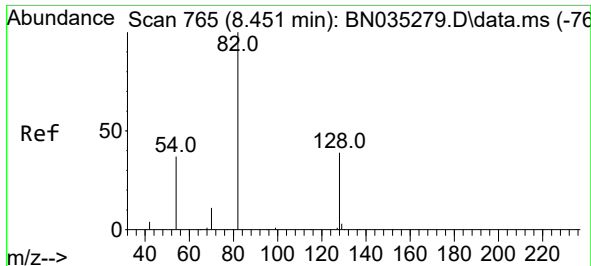
Tgt Ion: 99 Resp: 3467
Ion Ratio Lower Upper
99 100
42 12.2 12.8 19.2#
71 35.5 31.4 47.2



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.063 min Scan# 916
Delta R.T. -0.000 min
Lab File: BN035285.D
Acq: 25 Nov 2024 15:44

Tgt Ion: 136 Resp: 7815
Ion Ratio Lower Upper
136 100
137 12.2 9.7 14.5
54 6.1 5.3 7.9
68 6.3 5.9 8.9

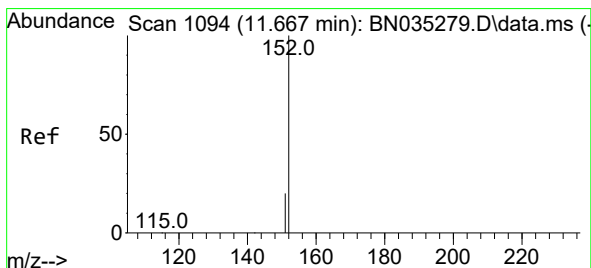
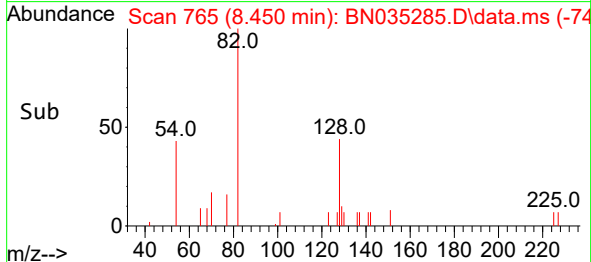
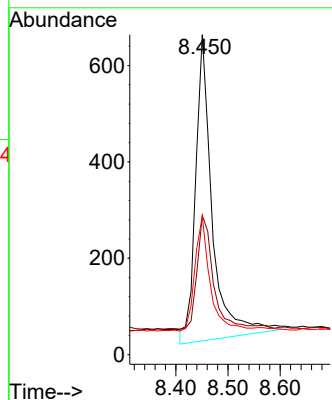
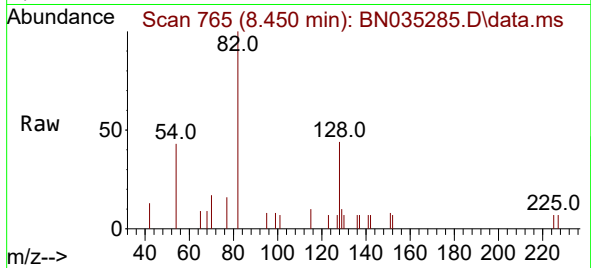




#8
Nitrobenzene-d5
Concen: 0.223 ng
RT: 8.450 min Scan# 765
Delta R.T. -0.000 min
Lab File: BN035285.D
Acq: 25 Nov 2024 15:44

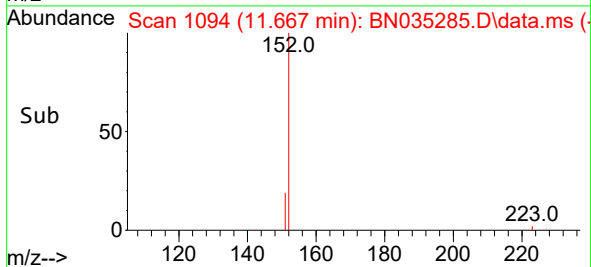
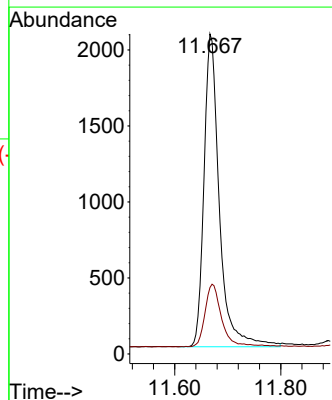
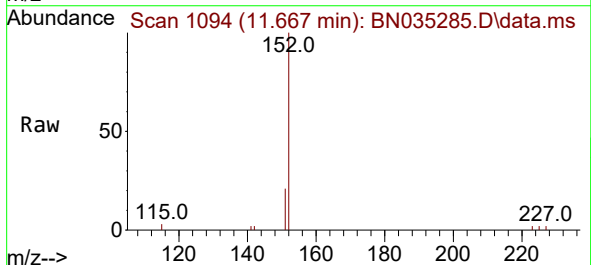
Instrument :
BNA_N
ClientSampleId :
PB165150BL

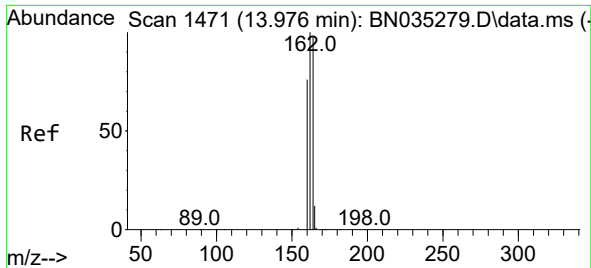
Tgt Ion: 82 Resp: 1413
Ion Ratio Lower Upper
82 100
128 43.5 33.0 49.4
54 43.2 33.3 49.9



#11
2-Methylnaphthalene-d10
Concen: 0.378 ng
RT: 11.667 min Scan# 1094
Delta R.T. -0.000 min
Lab File: BN035285.D
Acq: 25 Nov 2024 15:44

Tgt Ion:152 Resp: 4135
Ion Ratio Lower Upper
152 100
151 21.4 17.2 25.8

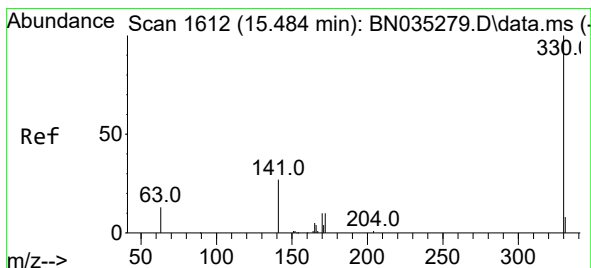
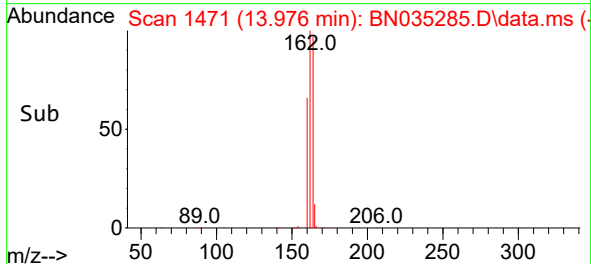
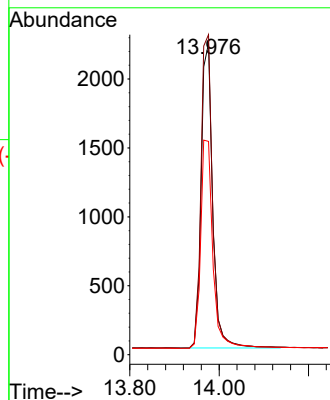
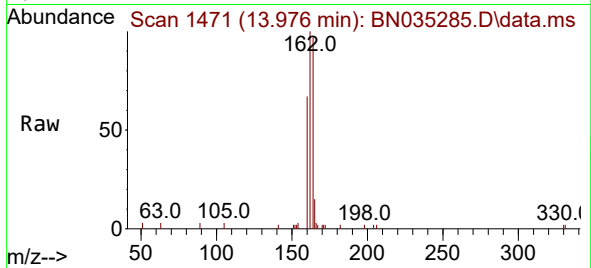




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.976 min Scan# 1471
Delta R.T. -0.000 min
Lab File: BN035285.D
Acq: 25 Nov 2024 15:44

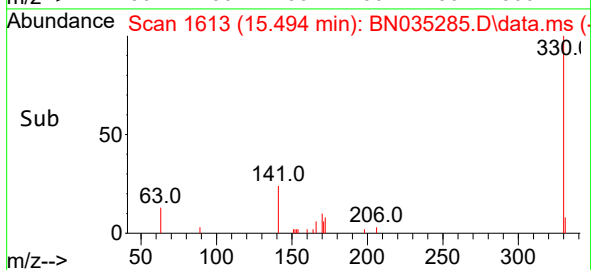
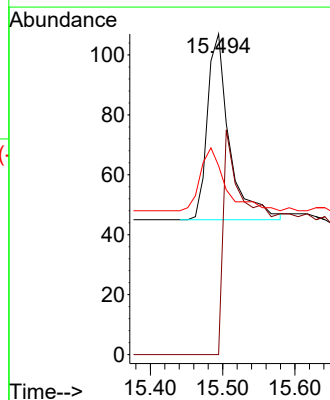
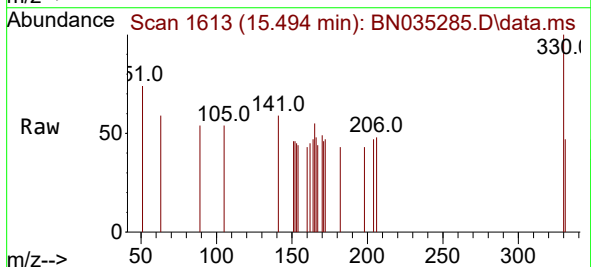
Instrument :
BNA_N
ClientSampleId :
PB165150BL

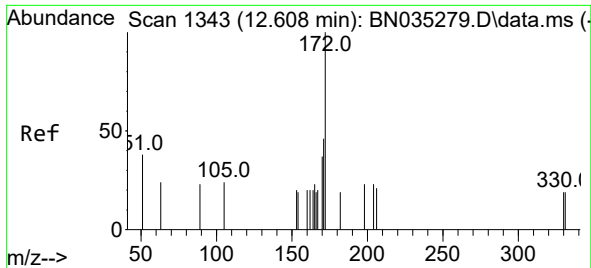
Tgt Ion:164 Resp: 3951
Ion Ratio Lower Upper
164 100
162 102.8 82.0 123.0
160 68.5 63.0 94.4



#14
2,4,6-Tribromophenol
Concen: 0.068 ng
RT: 15.494 min Scan# 1613
Delta R.T. 0.010 min
Lab File: BN035285.D
Acq: 25 Nov 2024 15:44

Tgt Ion:330 Resp: 137
Ion Ratio Lower Upper
330 100
332 197.1 0.0 0.0#
141 0.0 32.4 48.6#

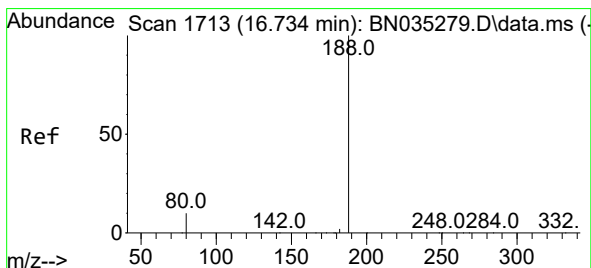
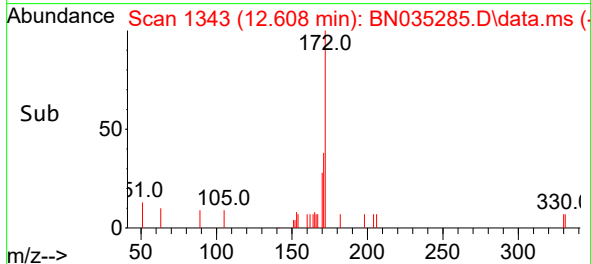
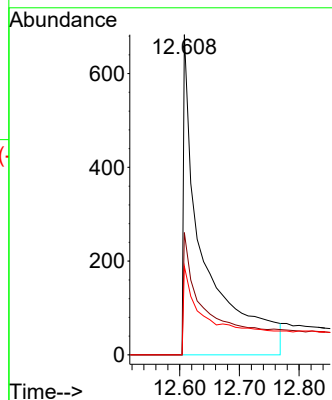
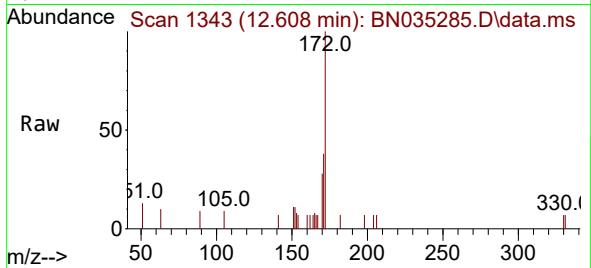




#15
2-Fluorobiphenyl
Concen: 0.730 ng
RT: 12.608 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN035285.D
Acq: 25 Nov 2024 15:44

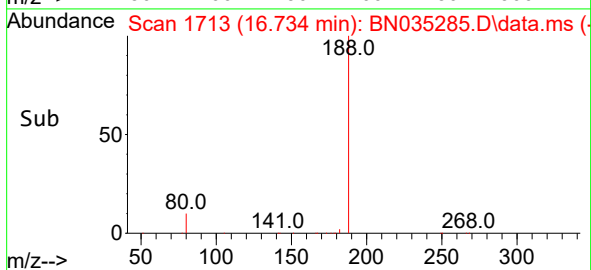
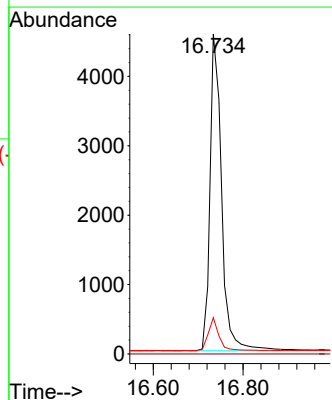
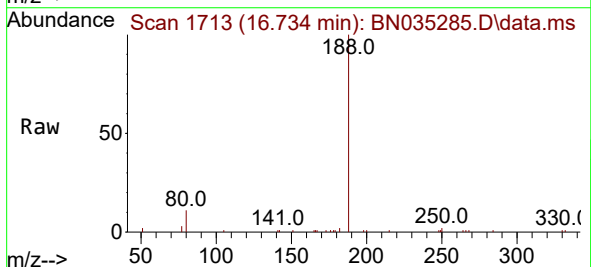
Instrument :
BNA_N
ClientSampleId :
PB165150BL

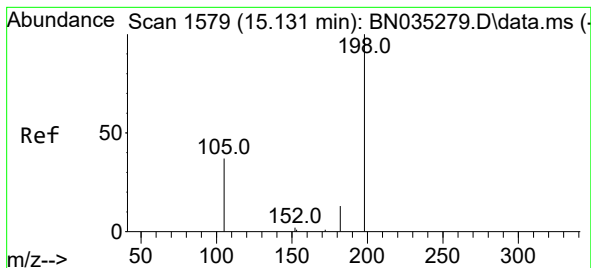
Tgt Ion:172 Resp: 1594
Ion Ratio Lower Upper
172 100
171 38.2 36.6 55.0
170 27.7 29.7 44.5#



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.734 min Scan# 1713
Delta R.T. -0.000 min
Lab File: BN035285.D
Acq: 25 Nov 2024 15:44

Tgt Ion:188 Resp: 8151
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 11.3 8.9 13.3

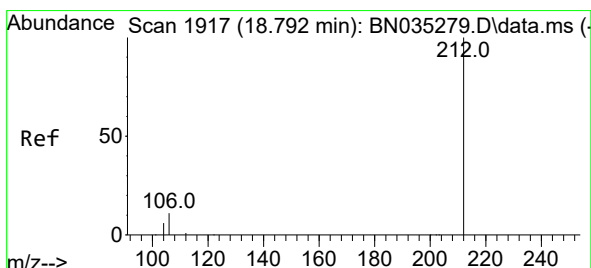
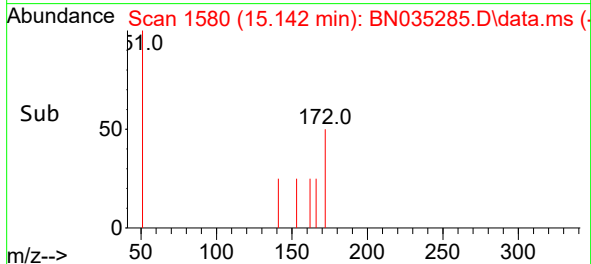
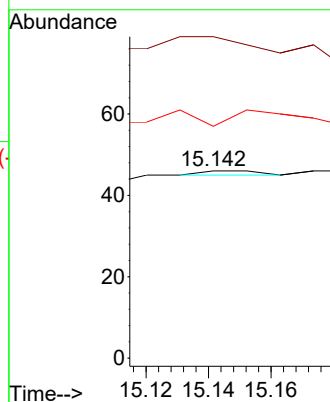
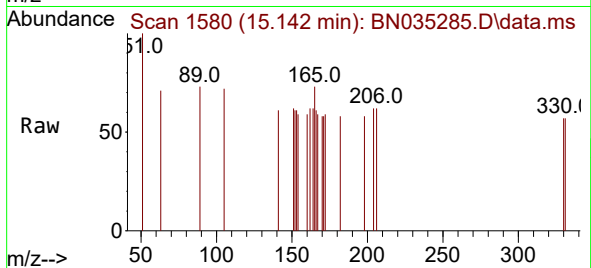




#20
4,6-Dinitro-2-methylphenol
Concen: 0.191 ng
RT: 15.142 min Scan# 1580
Delta R.T. 0.011 min
Lab File: BN035285.D
Acq: 25 Nov 2024 15:44

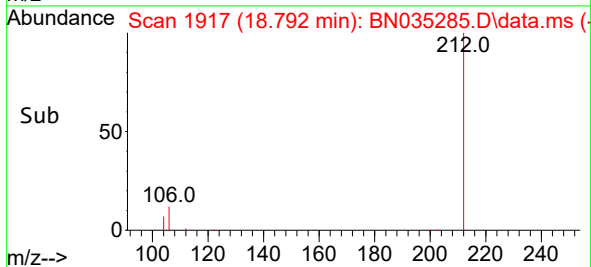
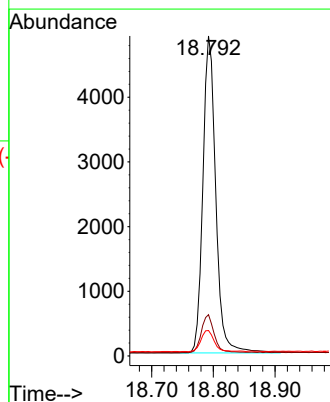
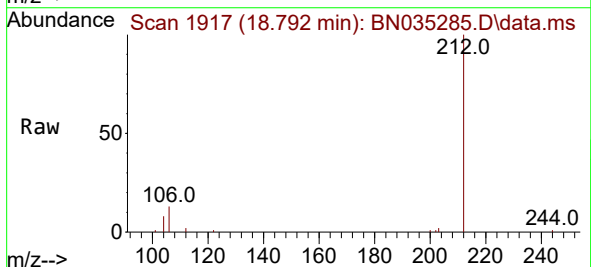
Instrument :
BNA_N
ClientSampleId :
PB165150BL

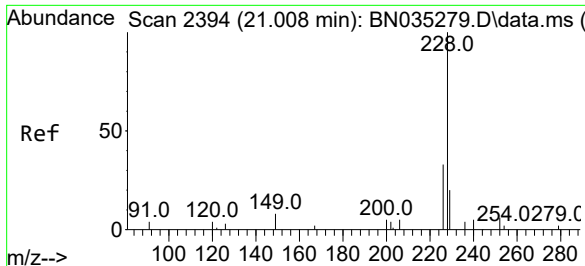
Tgt Ion:198 Resp: 1
Ion Ratio Lower Upper
198 100
51 171.7 53.6 80.4#
105 123.9 47.4 71.2#



#27
Fluoranthene-d10
Concen: 0.326 ng
RT: 18.792 min Scan# 1917
Delta R.T. -0.000 min
Lab File: BN035285.D
Acq: 25 Nov 2024 15:44

Tgt Ion:212 Resp: 7109
Ion Ratio Lower Upper
212 100
106 12.0 9.8 14.8
104 6.7 5.6 8.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.008 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035285.D

Acq: 25 Nov 2024 15:44

Instrument :

BNA_N

ClientSampleId :

PB165150BL

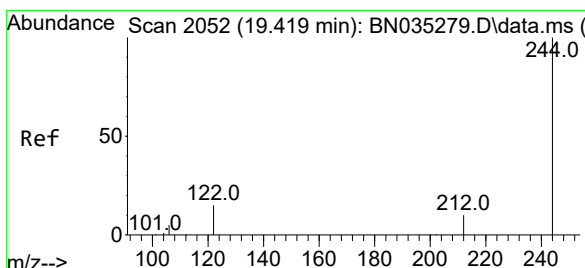
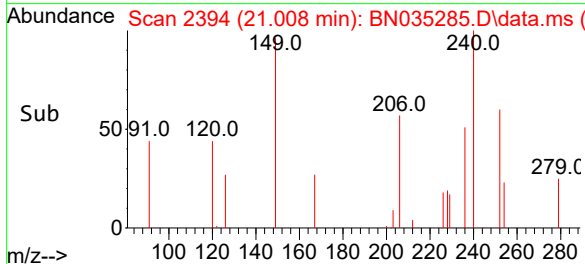
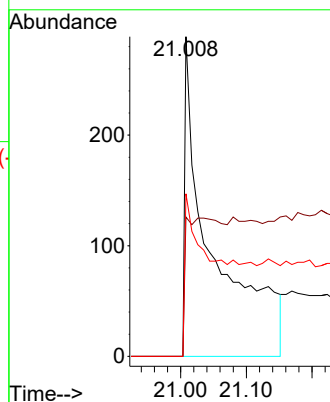
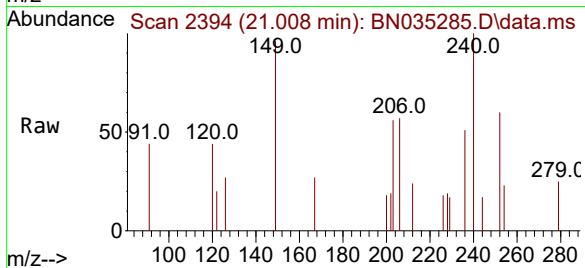
Tgt Ion:240 Resp: 804

Ion Ratio Lower Upper

240 100

120 43.6 54.9 82.3#

236 50.9 54.0 81.0#



#31

Terphenyl-d14

Concen: 0.316 ng

RT: 19.419 min Scan# 2052

Delta R.T. 0.000 min

Lab File: BN035285.D

Acq: 25 Nov 2024 15:44

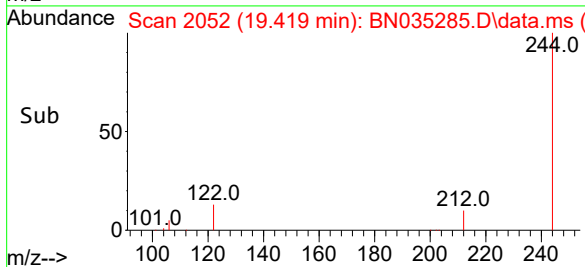
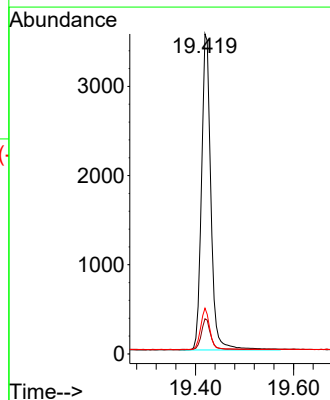
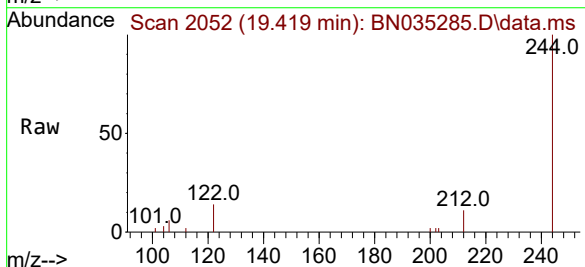
Tgt Ion:244 Resp: 4697

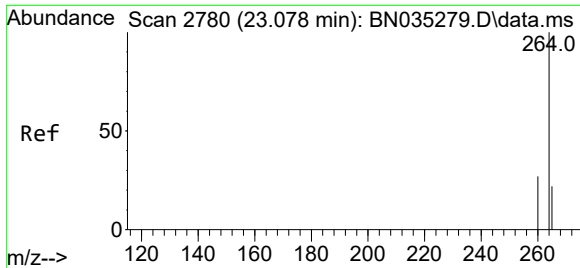
Ion Ratio Lower Upper

244 100

212 11.0 9.4 14.0

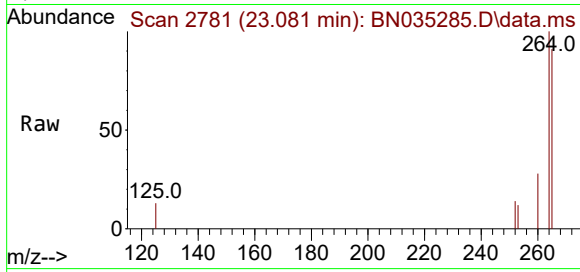
122 14.3 13.0 19.4



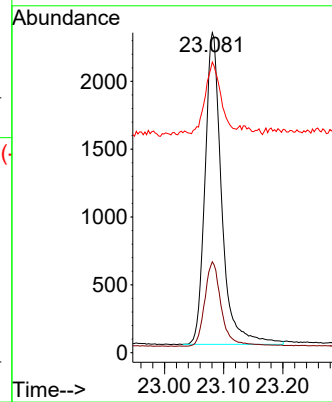
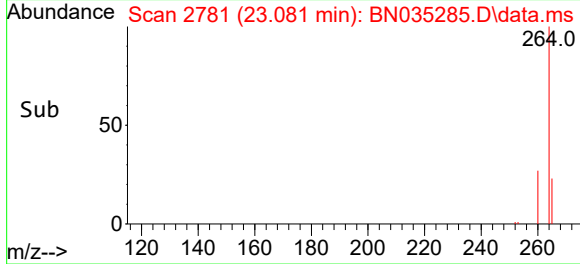


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.081 min Scan# 21
Delta R.T. 0.003 min
Lab File: BN035285.D
Acq: 25 Nov 2024 15:44

Instrument :
BNA_N
ClientSampleId :
PB165150BL



Tgt Ion:264 Resp: 4507
Ion Ratio Lower Upper
264 100
260 28.4 22.3 33.5
265 90.8 68.6 103.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
 Data File : BN035287.D
 Acq On : 25 Nov 2024 16:56
 Operator : RC/JU
 Sample : P4934-05
 Misc :
 ALS Vial : 63 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 BPOW6-10-20241119

Quant Time: Nov 25 18:32:29 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Nov 25 14:32:52 2024
 Response via : Initial Calibration

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

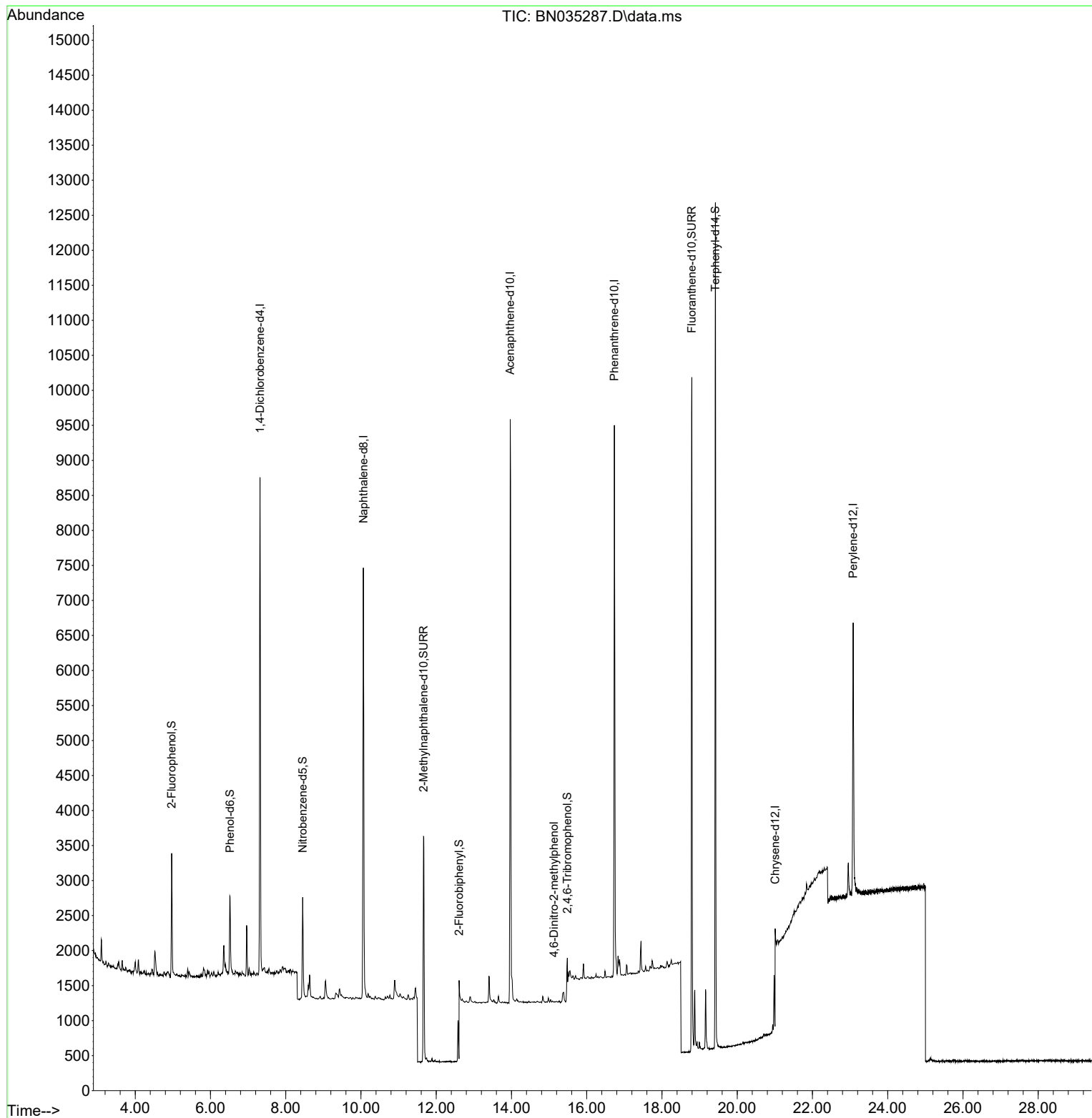
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.315	152	3377	0.400	ng	0.00
7) Naphthalene-d8	10.063	136	8188	0.400	ng	0.00
13) Acenaphthene-d10	13.966	164	4836	0.400	ng	-0.01
19) Phenanthrene-d10	16.734	188	10344	0.400	ng	0.00
29) Chrysene-d12	21.008	240	824	0.400	ng	# 0.00
35) Perylene-d12	23.081	264	5052	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.968	112	1455	0.228	ng	0.00
5) Phenol-d6	6.520	99	1180	0.132	ng	0.00
8) Nitrobenzene-d5	8.450	82	2061	0.310	ng	0.00
11) 2-Methylnaphthalene-d10	11.663	152	4637	0.405	ng	0.00
14) 2,4,6-Tribromophenol	15.484	330	579	0.235	ng	0.00
15) 2-Fluorobiphenyl	12.608	172	724	0.271	ng	0.00
27) Fluoranthene-d10	18.792	212	11214	0.405	ng	0.00
31) Terphenyl-d14	19.419	244	11493	0.755	ng	0.00
Target Compounds						
20) 4,6-Dinitro-2-methylph...	15.131	198	2	0.191	ng	# 1
34) Bis(2-ethylhexyl)phtha...	21.017	149	536	Below Cal		# 62

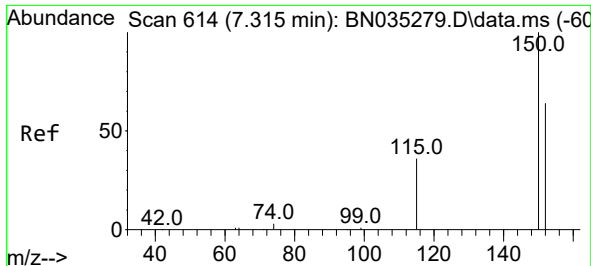
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
Data File : BN035287.D
Acq On : 25 Nov 2024 16:56
Operator : RC/JU
Sample : P4934-05
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BPOW6-10-20241119

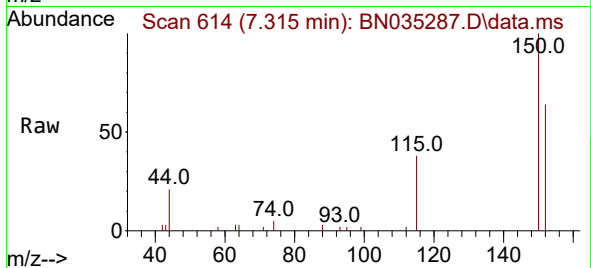
Quant Time: Nov 25 18:32:29 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 25 14:32:52 2024
Response via : Initial Calibration



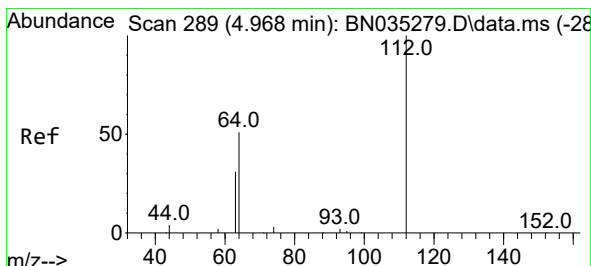
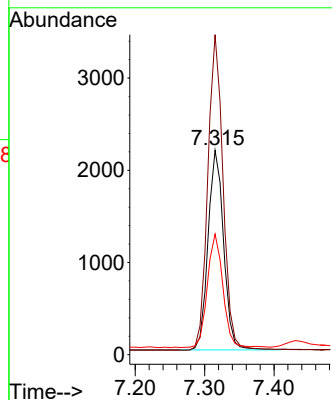
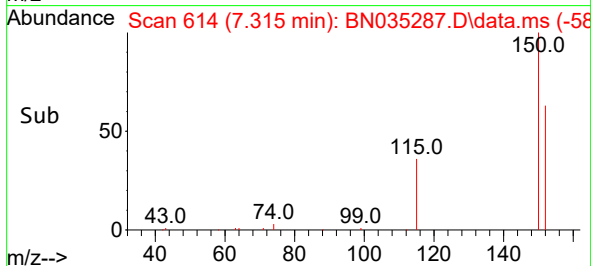


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.315 min Scan# 614
Delta R.T. -0.000 min
Lab File: BN035287.D
Acq: 25 Nov 2024 16:56

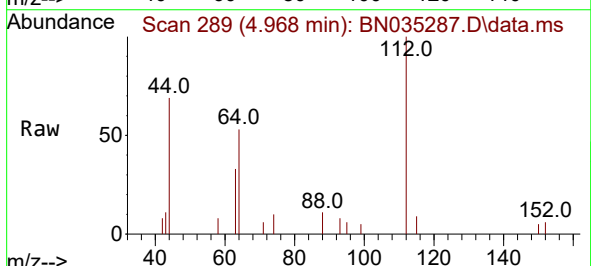
Instrument :
BNA_N
ClientSampleId :
BPOW6-10-20241119



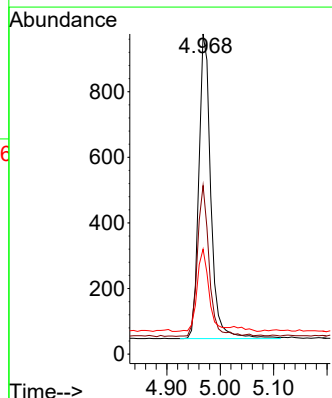
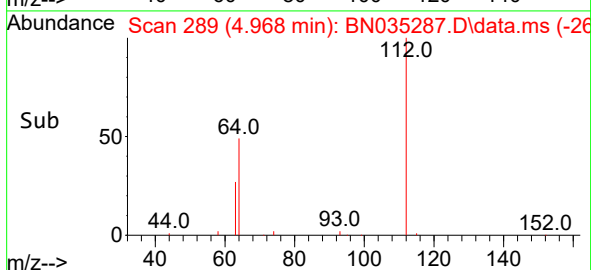
Tgt Ion:152 Resp: 3377
Ion Ratio Lower Upper
152 100
150 156.6 124.5 186.7
115 59.0 47.8 71.8

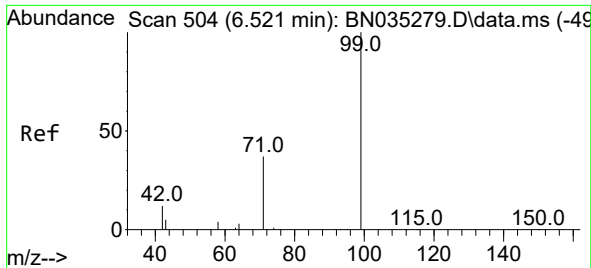


#4
2-Fluorophenol
Concen: 0.228 ng
RT: 4.968 min Scan# 289
Delta R.T. -0.000 min
Lab File: BN035287.D
Acq: 25 Nov 2024 16:56



Tgt Ion:112 Resp: 1455
Ion Ratio Lower Upper
112 100
64 48.0 40.4 60.6
63 26.4 23.8 35.8

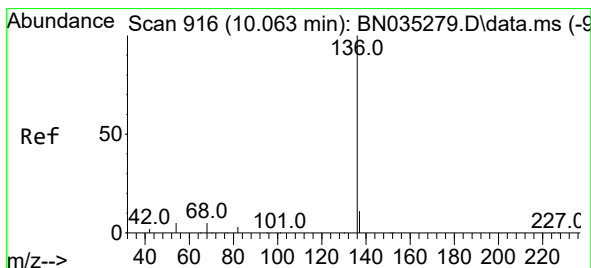
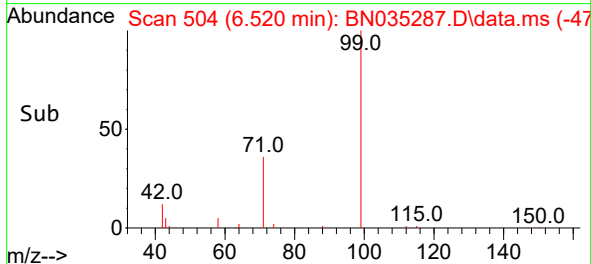
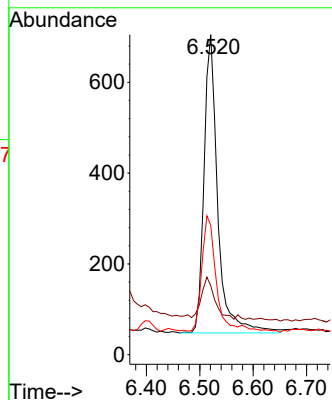
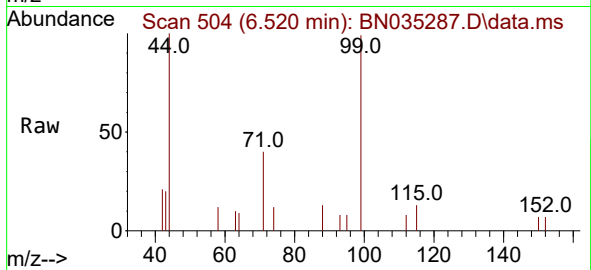




#5
Phenol-d6
Concen: 0.132 ng
RT: 6.520 min Scan# 504
Delta R.T. -0.000 min
Lab File: BN035287.D
Acq: 25 Nov 2024 16:56

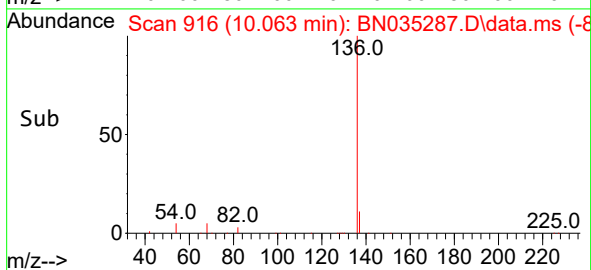
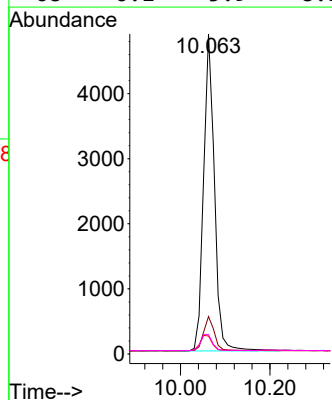
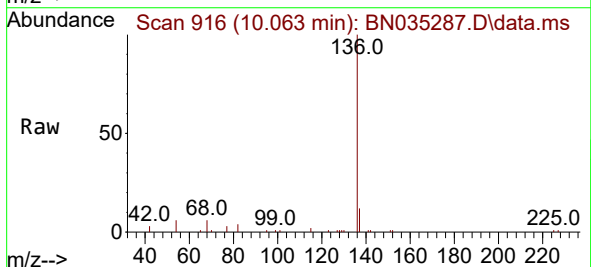
Instrument :
BNA_N
ClientSampleId :
BPOW6-10-20241119

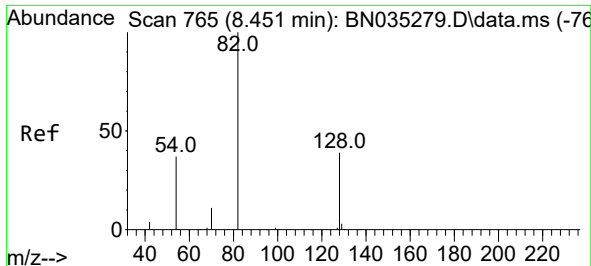
Tgt Ion: 99 Resp: 1180
Ion Ratio Lower Upper
99 100
42 13.6 12.8 19.2
71 41.9 31.4 47.2



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.063 min Scan# 916
Delta R.T. -0.000 min
Lab File: BN035287.D
Acq: 25 Nov 2024 16:56

Tgt Ion: 136 Resp: 8188
Ion Ratio Lower Upper
136 100
137 11.7 9.7 14.5
54 5.6 5.3 7.9
68 6.1 5.9 8.9

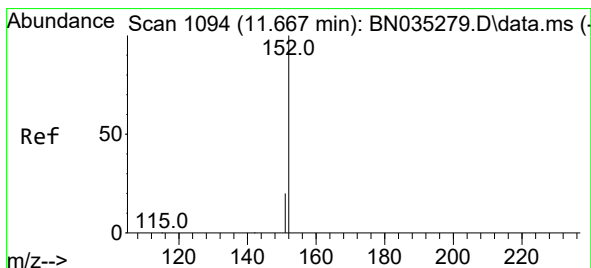
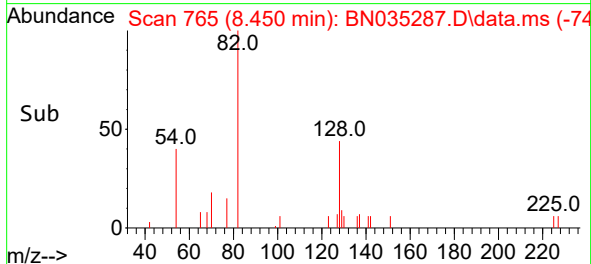
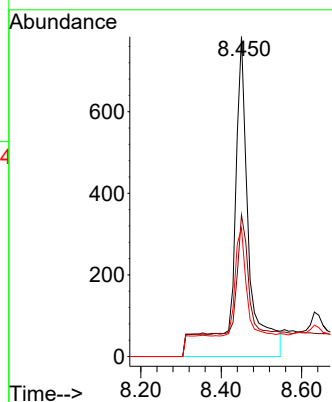
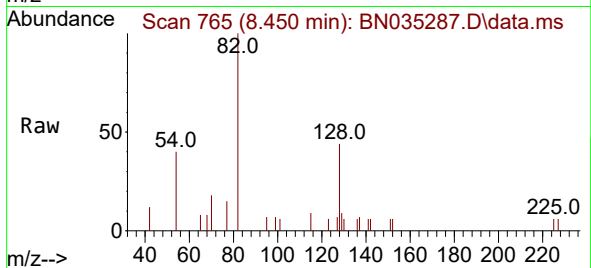




#8
Nitrobenzene-d5
Concen: 0.310 ng
RT: 8.450 min Scan# 70
Delta R.T. -0.000 min
Lab File: BN035287.D
Acq: 25 Nov 2024 16:56

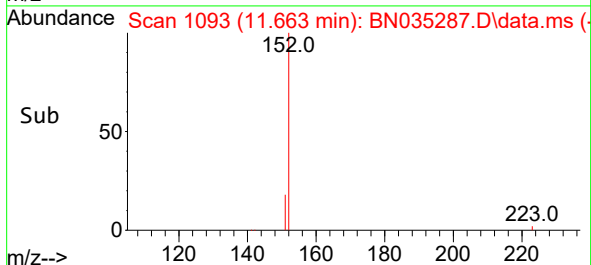
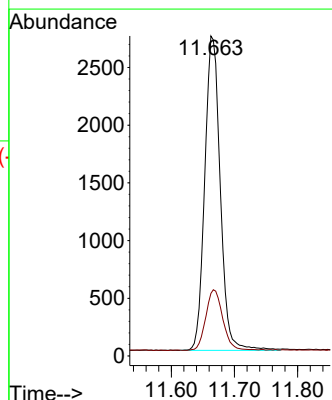
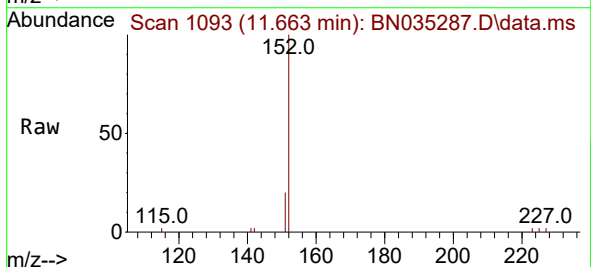
Instrument :
BNA_N
ClientSampleId :
BPOW6-10-20241119

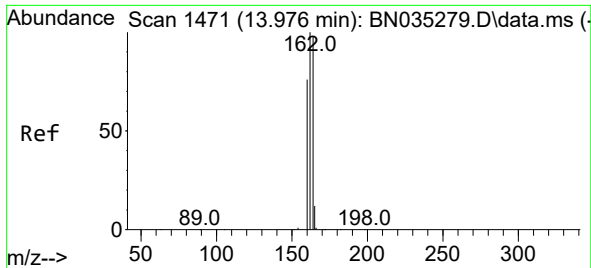
Tgt Ion:	82	Resp:	2061
Ion	Ratio	Lower	Upper
82	100		
128	44.3	33.0	49.4
54	40.2	33.3	49.9



#11
2-Methylnaphthalene-d10
Concen: 0.405 ng
RT: 11.663 min Scan# 1093
Delta R.T. -0.004 min
Lab File: BN035287.D
Acq: 25 Nov 2024 16:56

Tgt Ion:	152	Resp:	4637
Ion	Ratio	Lower	Upper
152	100		
151	21.1	17.2	25.8

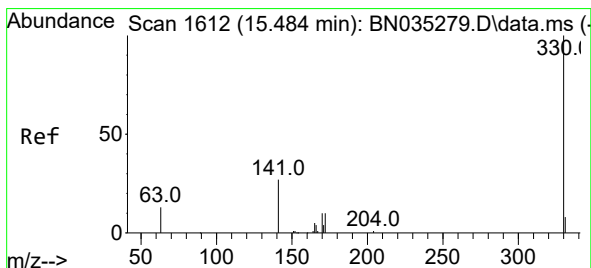
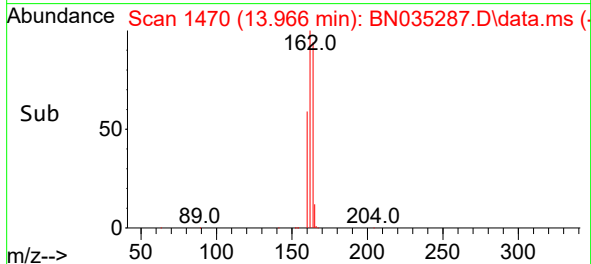
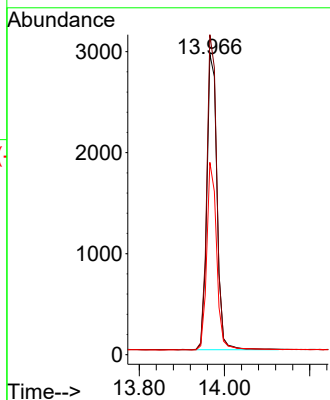
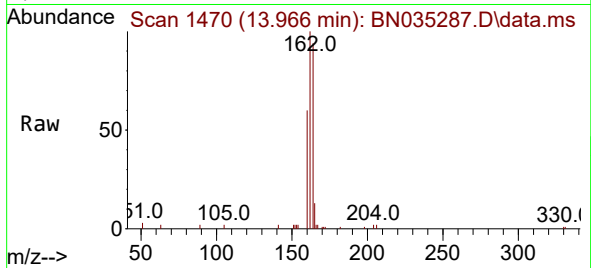




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.966 min Scan# 1471
Delta R.T. -0.011 min
Lab File: BN035287.D
Acq: 25 Nov 2024 16:56

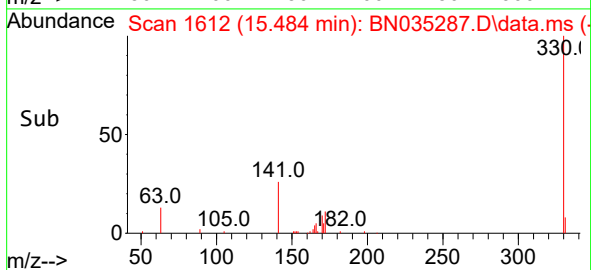
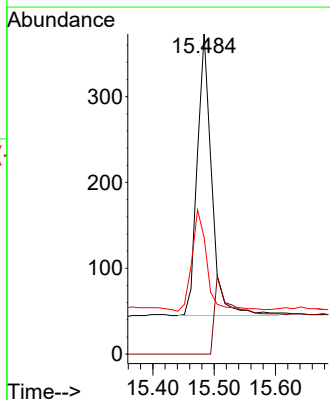
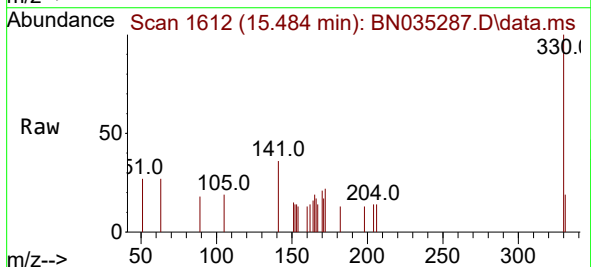
Instrument :
BNA_N
ClientSampleId :
BPOW6-10-20241119

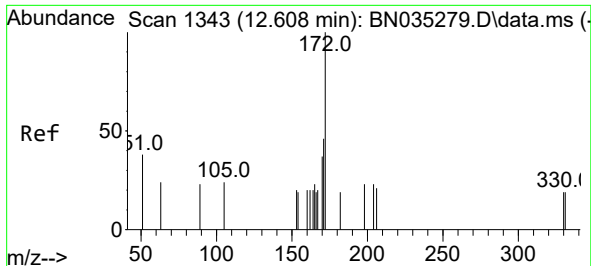
Tgt Ion:164 Resp: 4836
Ion Ratio Lower Upper
164 100
162 106.5 82.0 123.0
160 64.0 63.0 94.4



#14
2,4,6-Tribromophenol
Concen: 0.235 ng
RT: 15.484 min Scan# 1612
Delta R.T. -0.000 min
Lab File: BN035287.D
Acq: 25 Nov 2024 16:56

Tgt Ion:330 Resp: 579
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 37.7 32.4 48.6

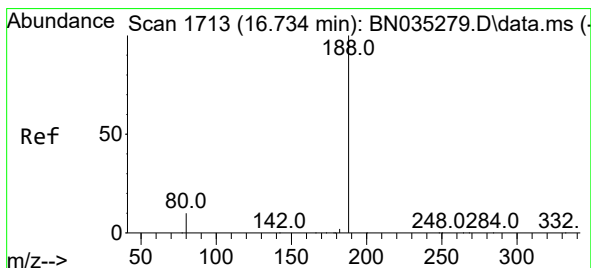
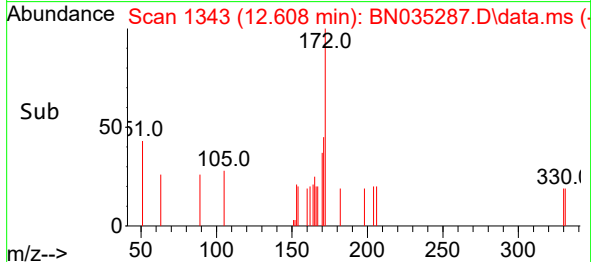
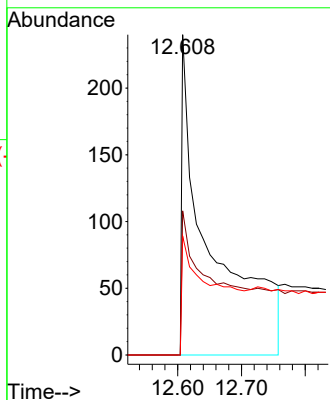
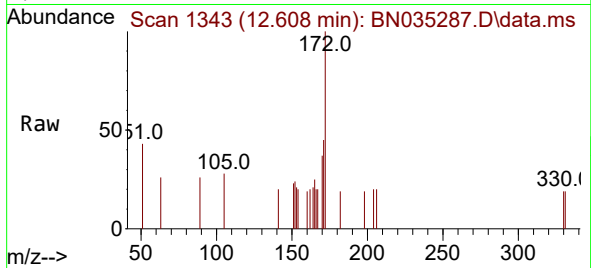




#15
2-Fluorobiphenyl
Concen: 0.271 ng
RT: 12.608 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN035287.D
Acq: 25 Nov 2024 16:56

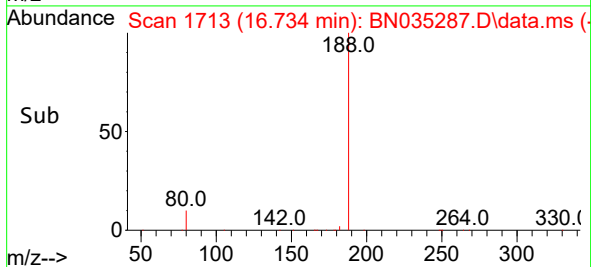
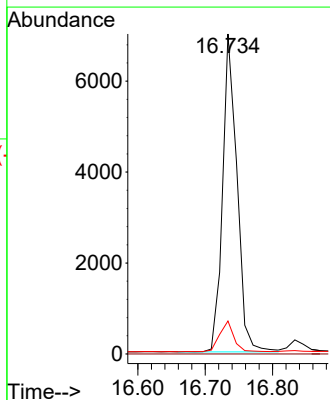
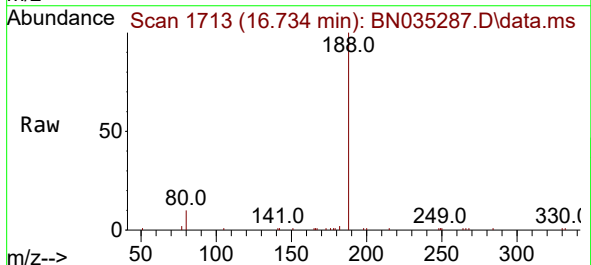
Instrument :
BNA_N
ClientSampleId :
BPOW6-10-20241119

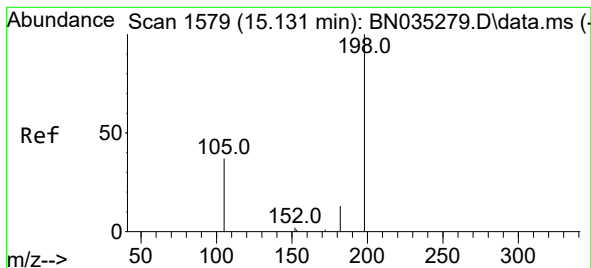
Tgt Ion:172 Resp: 724
Ion Ratio Lower Upper
172 100
171 45.0 36.6 55.0
170 37.1 29.7 44.5



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.734 min Scan# 1713
Delta R.T. -0.000 min
Lab File: BN035287.D
Acq: 25 Nov 2024 16:56

Tgt Ion:188 Resp: 10344
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 10.3 8.9 13.3

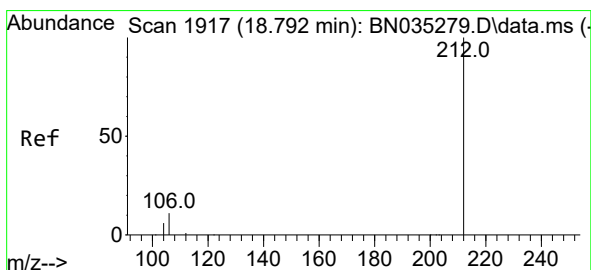
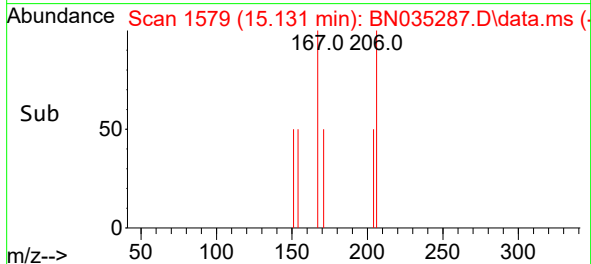
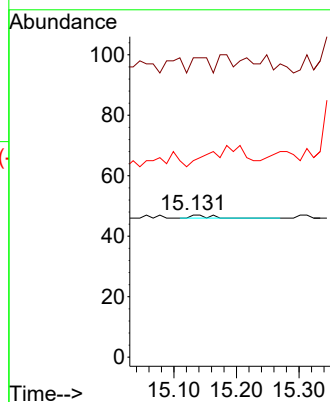
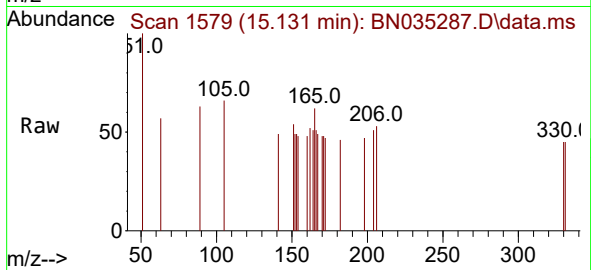




#20
4,6-Dinitro-2-methylphenol
Concen: 0.191 ng
RT: 15.131 min Scan# 1579
Delta R.T. -0.000 min
Lab File: BN035287.D
Acq: 25 Nov 2024 16:56

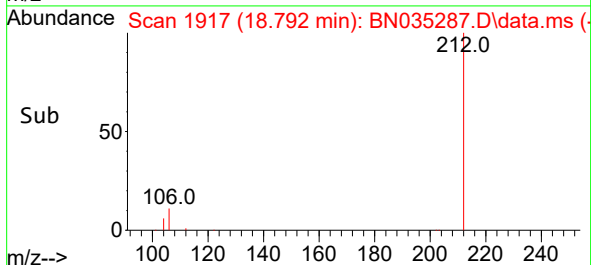
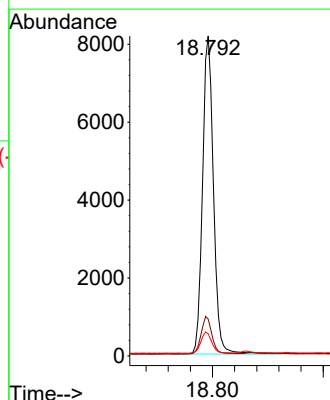
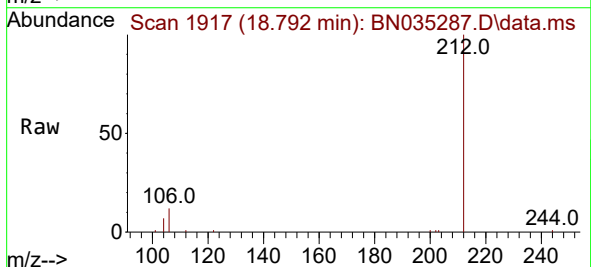
Instrument :
BNA_N
ClientSampleId :
BPOW6-10-20241119

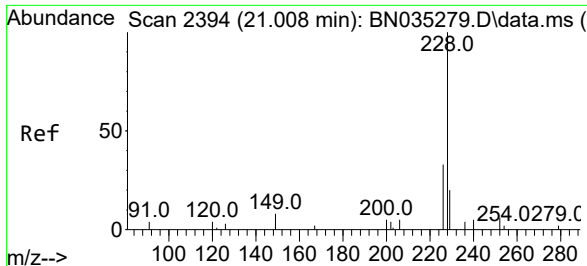
Tgt Ion:198 Resp: 2
Ion Ratio Lower Upper
198 100
51 210.6 53.6 80.4#
105 138.3 47.4 71.2#



#27
Fluoranthene-d10
Concen: 0.405 ng
RT: 18.792 min Scan# 1917
Delta R.T. -0.000 min
Lab File: BN035287.D
Acq: 25 Nov 2024 16:56

Tgt Ion:212 Resp: 11214
Ion Ratio Lower Upper
212 100
106 11.4 9.8 14.8
104 6.8 5.6 8.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.008 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035287.D

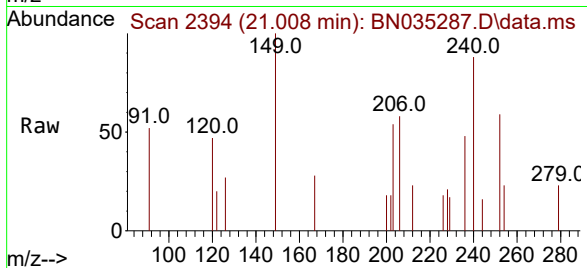
Acq: 25 Nov 2024 16:56

Instrument :

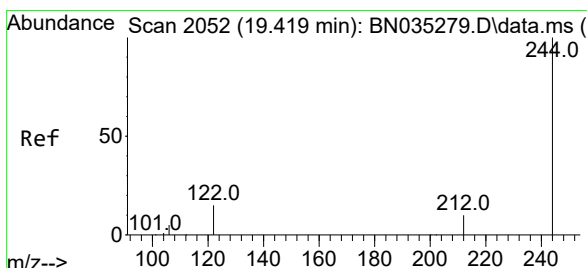
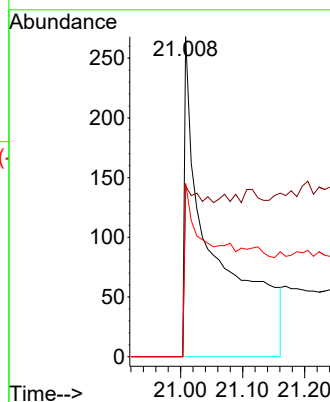
BNA_N

ClientSampleId :

BPOW6-10-20241119



Tgt Ion:	240	Resp:	824
Ion Ratio	Lower	Upper	
240	100		
120	53.4	54.9	82.3#
236	54.1	54.0	81.0



#31

Terphenyl-d14

Concen: 0.755 ng

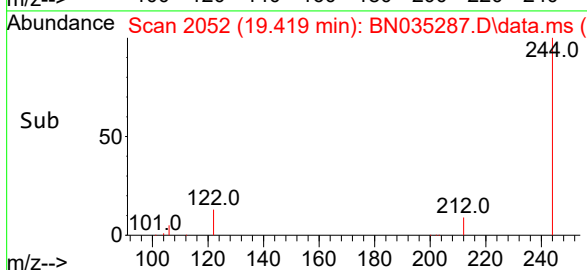
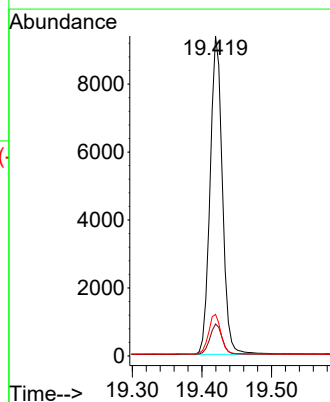
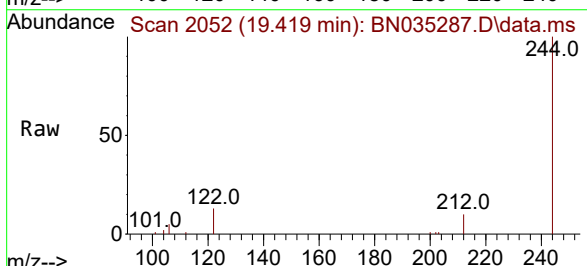
RT: 19.419 min Scan# 2052

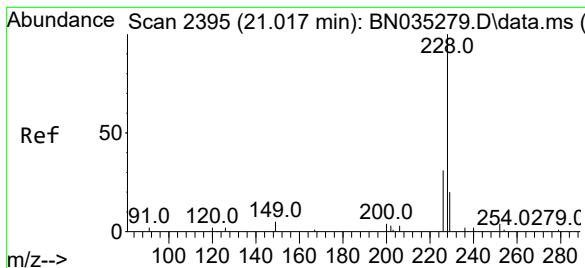
Delta R.T. 0.000 min

Lab File: BN035287.D

Acq: 25 Nov 2024 16:56

Tgt Ion:	244	Resp:	11493
Ion Ratio	Lower	Upper	
244	100		
212	10.0	9.4	14.0
122	13.0	13.0	19.4

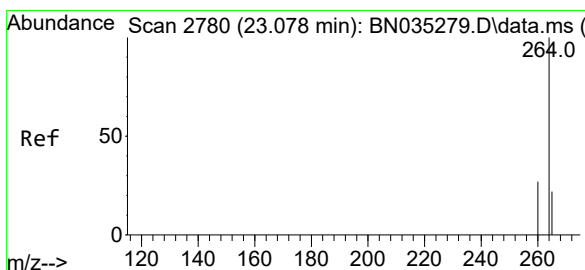
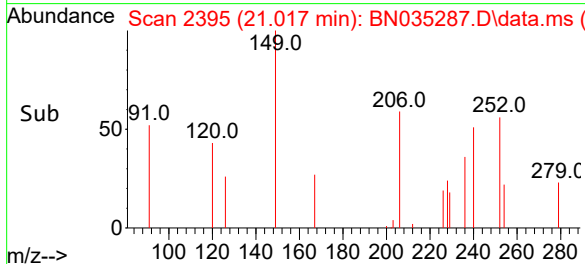
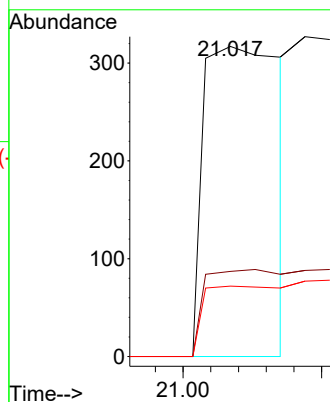
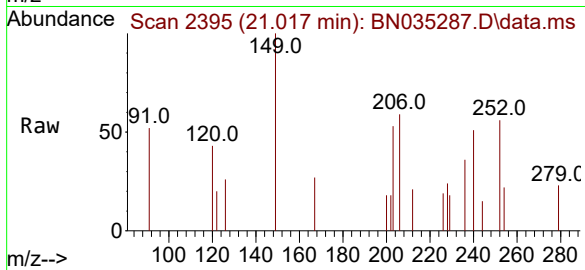




#34
Bis(2-ethylhexyl)phthalate
Concen: Below Cal
RT: 21.017 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN035287.D
Acq: 25 Nov 2024 16:56

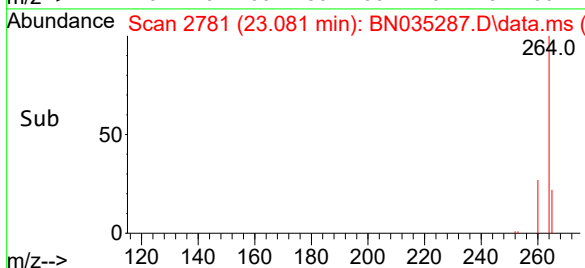
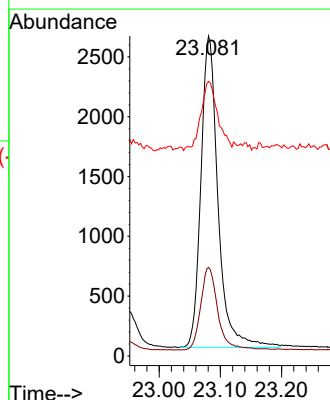
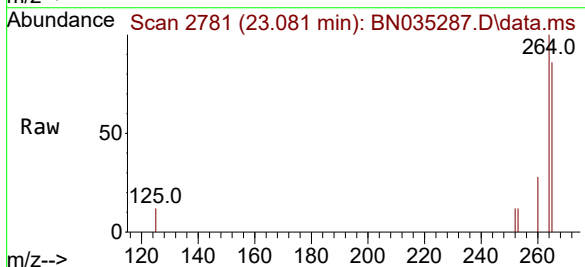
Instrument :
BNA_N
ClientSampleId :
BPOW6-10-20241119

Tgt Ion:149 Resp: 536
Ion Ratio Lower Upper
149 100
167 27.8 0.0 0.0#
279 0.0 13.0 19.6#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.081 min Scan# 2781
Delta R.T. 0.003 min
Lab File: BN035287.D
Acq: 25 Nov 2024 16:56

Tgt Ion:264 Resp: 5052
Ion Ratio Lower Upper
264 100
260 27.7 22.3 33.5
265 85.8 68.6 103.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
 Data File : BN035288.D
 Acq On : 25 Nov 2024 17:32
 Operator : RC/JU
 Sample : P4934-06MS
 Misc :
 ALS Vial : 64 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 BPOW6-10-20241119MS

Quant Time: Nov 26 03:31:15 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 26 02:36:08 2024
 Response via : Initial Calibration

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

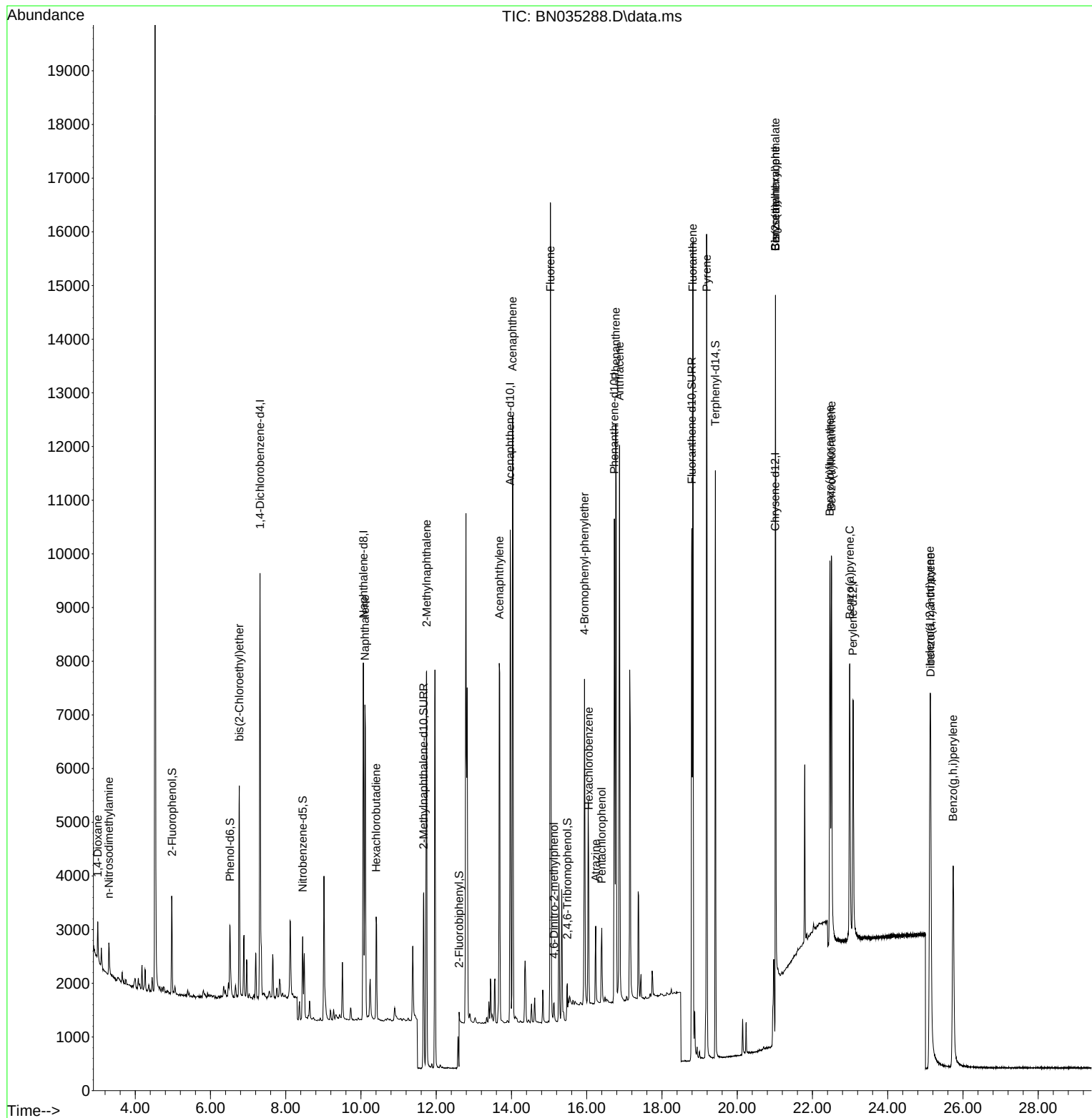
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.315	152	3628	0.400	ng	0.00
7) Naphthalene-d8	10.063	136	8728	0.400	ng	# 0.00
13) Acenaphthene-d10	13.966	164	5209	0.400	ng	#-0.01
19) Phenanthrene-d10	16.734	188	11399	0.400	ng	0.00
29) Chrysene-d12	21.008	240	743	0.400	ng	0.00
35) Perylene-d12	23.078	264	5613	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.975	112	1549	0.226	ng	0.00
5) Phenol-d6	6.521	99	1362	0.142	ng	0.00
8) Nitrobenzene-d5	8.450	82	1496	0.211	ng	0.00
11) 2-Methylnaphthalene-d10	11.663	152	4722	0.386	ng	0.00
14) 2,4,6-Tribromophenol	15.484	330	658	0.247	ng	0.00
15) 2-Fluorobiphenyl	12.608	172	421	0.146	ng	0.00
27) Fluoranthene-d10	18.792	212	11634	0.381	ng	0.00
31) Terphenyl-d14	19.419	244	10548	0.768	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.003	88	511	0.196	ng	# 90
3) n-Nitrosodimethylamine	3.299	42	354	0.131	ng	# 72
6) bis(2-Chloroethyl)ether	6.766	93	2973	0.369	ng	99
9) Naphthalene	10.105	128	7856	0.324	ng	99
10) Hexachlorobutadiene	10.404	225	1619	0.238	ng	# 100
12) 2-Methylnaphthalene	11.742	142	5352	0.338	ng	99
16) Acenaphthylene	13.677	152	8167	0.312	ng	99
17) Acenaphthene	14.030	154	5230	0.317	ng	# 88
18) Fluorene	15.035	166	7099	0.307	ng	98
20) 4,6-Dinitro-2-methylph...	15.131	198	305	0.374	ng	89
21) 4-Bromophenyl-phenylether	15.939	248	2574	0.356	ng	98
22) Hexachlorobenzene	16.051	284	3029	0.292	ng	99
23) Atrazine	16.237	200	1155	0.379	ng	96
24) Pentachlorophenol	16.399	266	774	0.312	ng	98
25) Phenanthrene	16.771	178	12309	0.352	ng	99
26) Anthracene	16.870	178	10530	0.350	ng	100
28) Fluoranthene	18.820	202	13774	0.312	ng	99
30) Pyrene	19.187	202	13805	0.511	ng	100
32) Benzo(a)anthracene	21.017	228	10096	0.390	ng	99
33) Chrysene	21.017	228	10096	0.390	ng	99
34) Bis(2-ethylhexyl)phtha...	21.017	149	578	0.407	ng	# 62
36) Indeno(1,2,3-cd)pyrene	25.124	276	9354	0.407	ng	99
37) Benzo(b)fluoranthene	22.464	252	8402	0.344	ng	98
38) Benzo(k)fluoranthene	22.505	252	9589	0.372	ng	98
39) Benzo(a)pyrene	22.990	252	7534	0.404	ng	97
40) Dibenzo(a,h)anthracene	25.139	278	7128	0.410	ng	96
41) Benzo(g,h,i)perylene	25.738	276	7780	0.387	ng	99

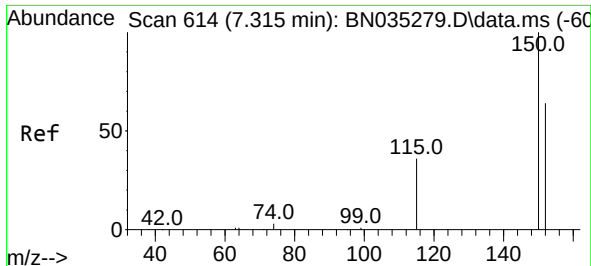
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
Data File : BN035288.D
Acq On : 25 Nov 2024 17:32
Operator : RC/JU
Sample : P4934-06MS
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BPOW6-10-20241119MS

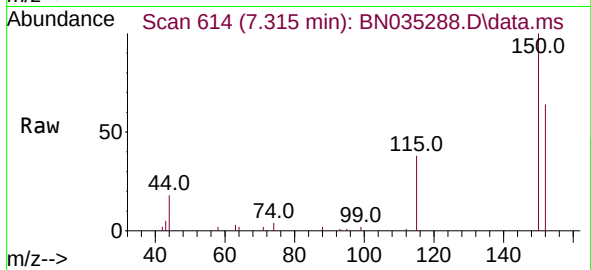
Quant Time: Nov 26 03:31:15 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 26 02:36:08 2024
Response via : Initial Calibration



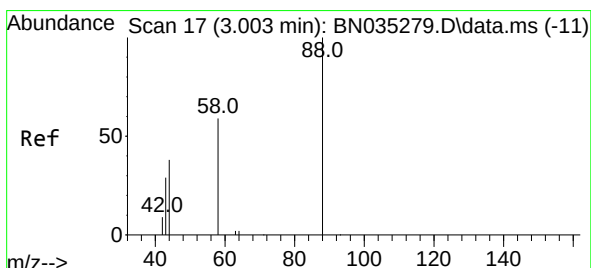
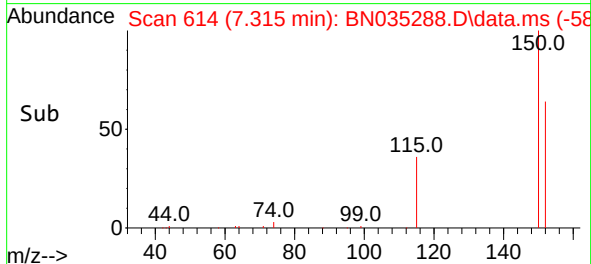
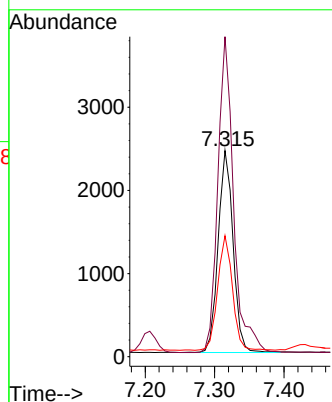


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.315 min Scan# 614
Delta R.T. -0.000 min
Lab File: BN035288.D
Acq: 25 Nov 2024 17:32

Instrument :
BNA_N
ClientSampleId :
BPOW6-10-20241119MS

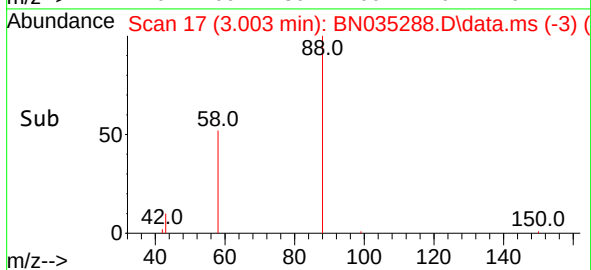
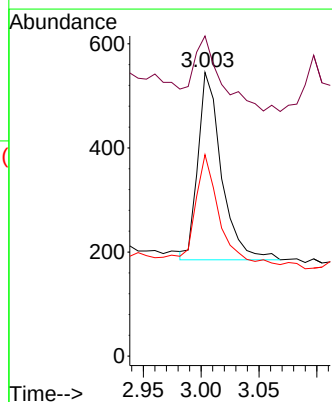
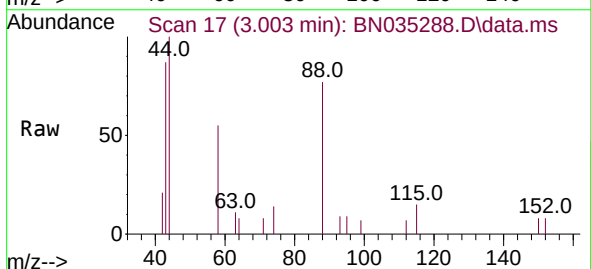


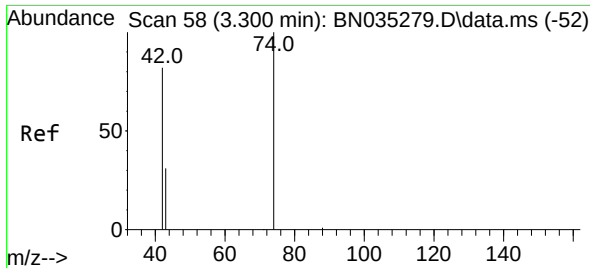
Tgt Ion:152 Resp: 3628
Ion Ratio Lower Upper
152 100
150 155.3 124.5 186.7
115 58.7 47.8 71.8



#2
1,4-Dioxane
Concen: 0.196 ng
RT: 3.003 min Scan# 17
Delta R.T. 0.000 min
Lab File: BN035288.D
Acq: 25 Nov 2024 17:32

Tgt Ion: 88 Resp: 511
Ion Ratio Lower Upper
88 100
43 46.4 48.1 72.1#
58 60.3 46.9 70.3

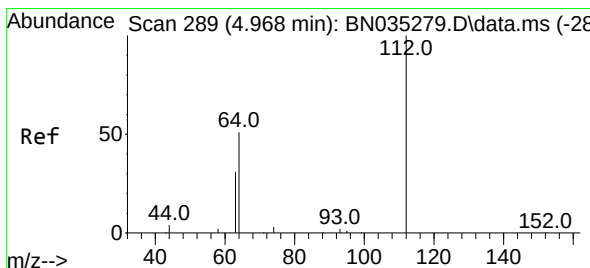
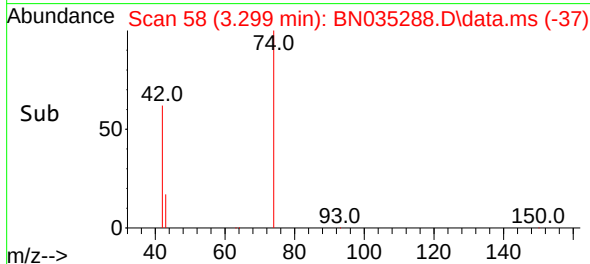
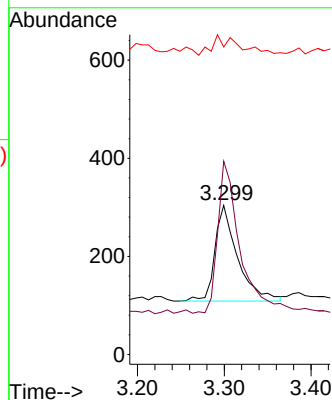
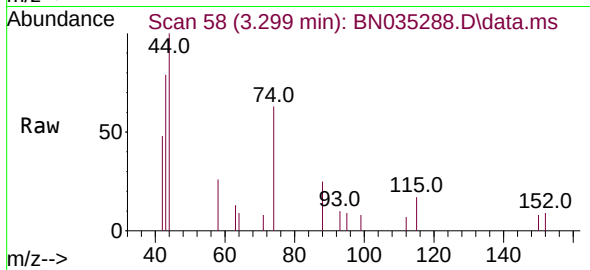




#3
 n-Nitrosodimethylamine
 Concen: 0.131 ng
 RT: 3.299 min Scan# 51
 Delta R.T. -0.001 min
 Lab File: BN035288.D
 Acq: 25 Nov 2024 17:32

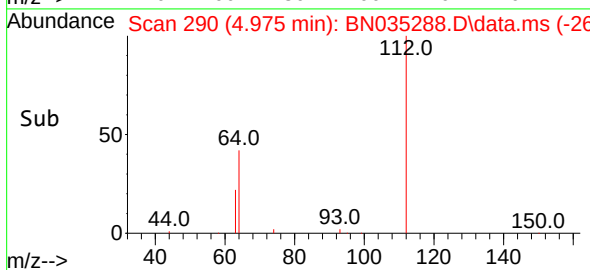
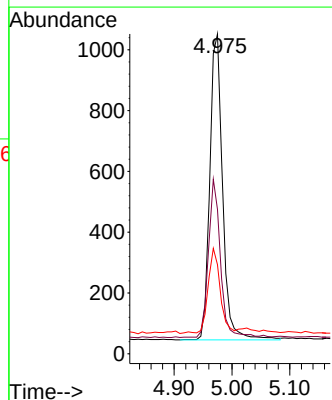
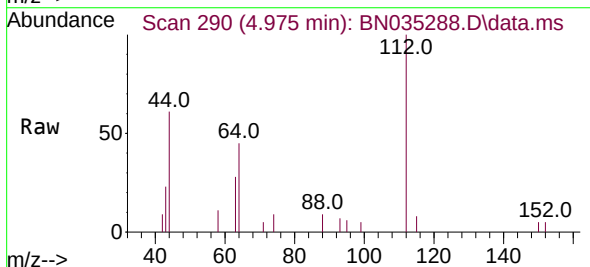
Instrument :
 BNA_N
 ClientSampleId :
 BPOW6-10-20241119MS

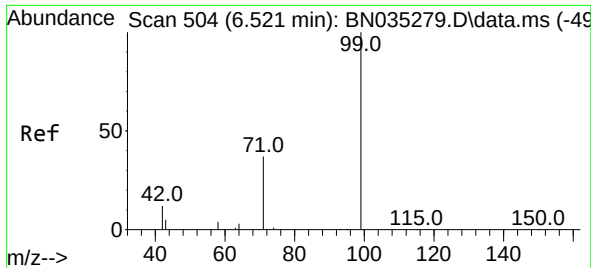
Tgt Ion: 42 Resp: 354
 Ion Ratio Lower Upper
 42 100
 74 161.6 102.7 154.1#
 44 26.6 34.1 51.1#



#4
 2-Fluorophenol
 Concen: 0.226 ng
 RT: 4.975 min Scan# 290
 Delta R.T. 0.007 min
 Lab File: BN035288.D
 Acq: 25 Nov 2024 17:32

Tgt Ion: 112 Resp: 1549
 Ion Ratio Lower Upper
 112 100
 64 47.9 40.4 60.6
 63 25.6 23.8 35.8

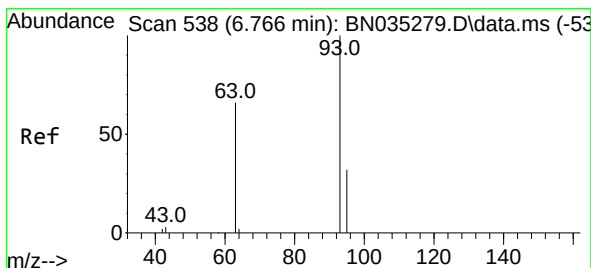
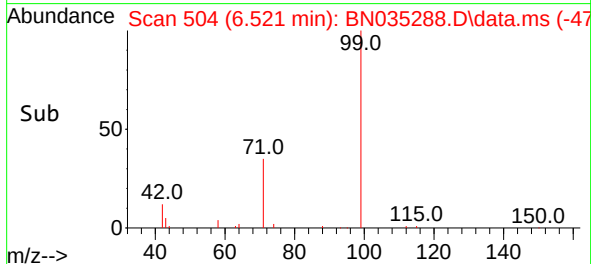
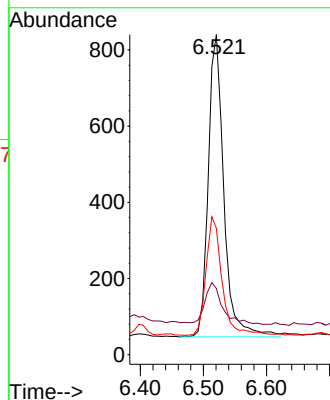
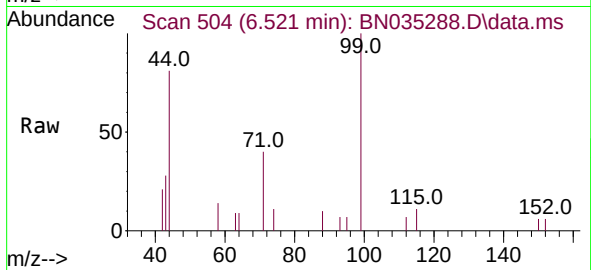




#5
Phenol-d6
Concen: 0.142 ng
RT: 6.521 min Scan# 504
Delta R.T. -0.000 min
Lab File: BN035288.D
Acq: 25 Nov 2024 17:32

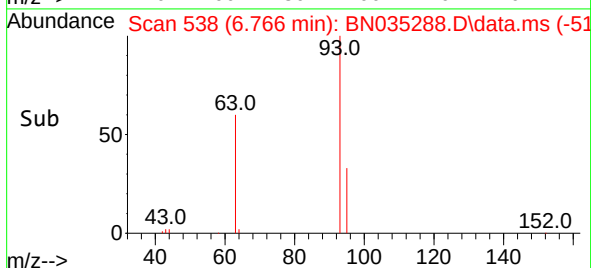
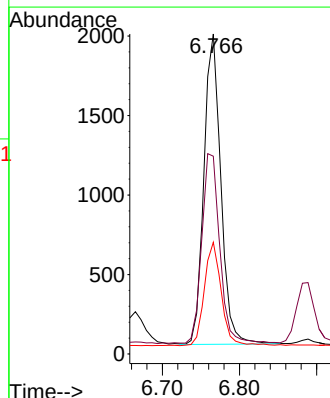
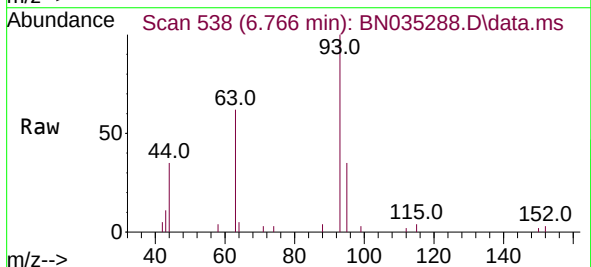
Instrument :
BNA_N
ClientSampleId :
BPOW6-10-20241119MS

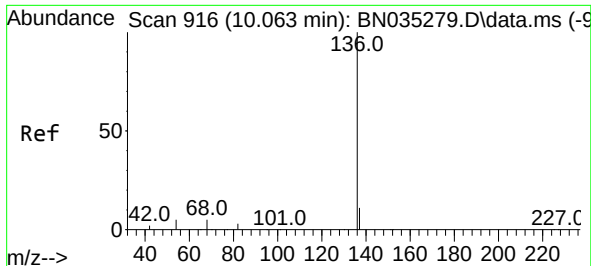
Tgt Ion:	99	Resp:	1362
Ion	Ratio	Lower	Upper
99	100		
42	15.4	12.8	19.2
71	40.7	31.4	47.2



#6
bis(2-Chloroethyl)ether
Concen: 0.369 ng
RT: 6.766 min Scan# 538
Delta R.T. -0.000 min
Lab File: BN035288.D
Acq: 25 Nov 2024 17:32

Tgt Ion:	93	Resp:	2973
Ion	Ratio	Lower	Upper
93	100		
63	65.3	52.3	78.5
95	33.3	25.5	38.3

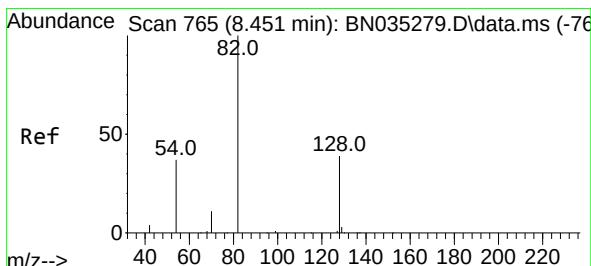
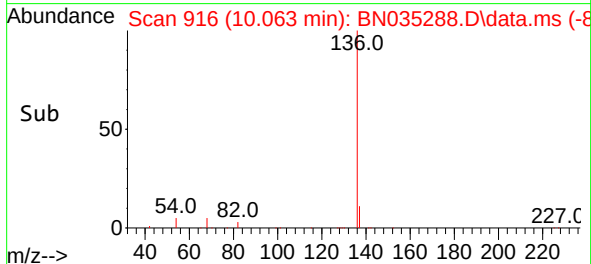
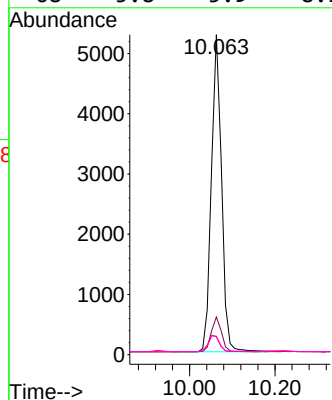
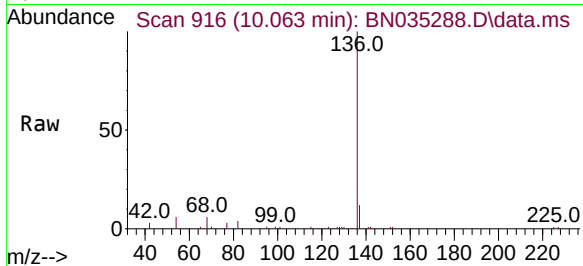




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.063 min Scan# 916
Delta R.T. -0.000 min
Lab File: BN035288.D
Acq: 25 Nov 2024 17:32

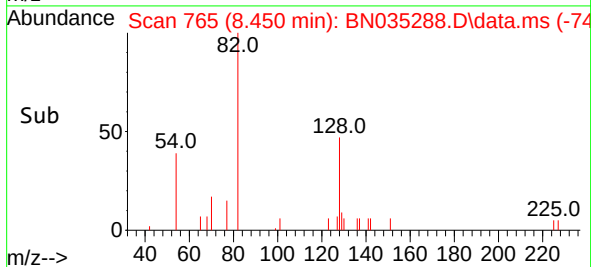
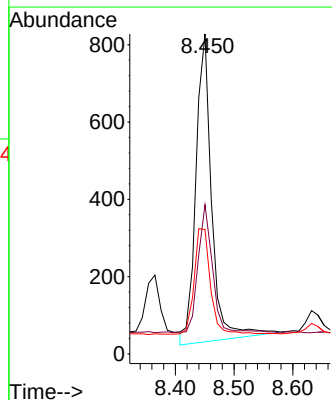
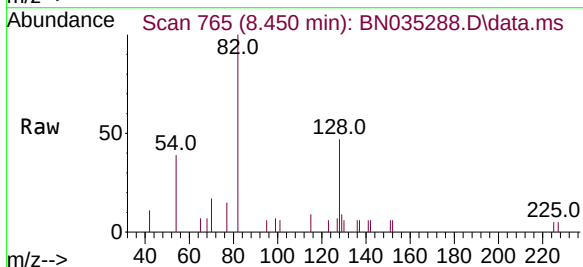
Instrument :
BNA_N
ClientSampleId :
BPOW6-10-20241119MS

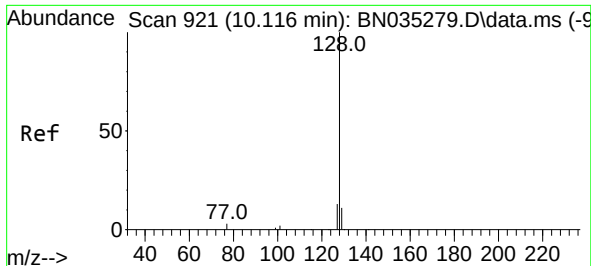
Tgt Ion:	136	Resp:	8728
Ion	Ratio	Lower	Upper
136	100		
137	11.8	9.7	14.5
54	5.6	5.3	7.9
68	5.8	5.9	8.9



#8
Nitrobenzene-d5
Concen: 0.211 ng
RT: 8.450 min Scan# 765
Delta R.T. -0.000 min
Lab File: BN035288.D
Acq: 25 Nov 2024 17:32

Tgt Ion:	82	Resp:	1496
Ion	Ratio	Lower	Upper
82	100		
128	46.6	33.0	49.4
54	38.9	33.3	49.9

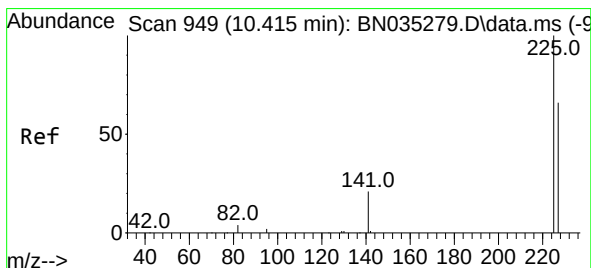
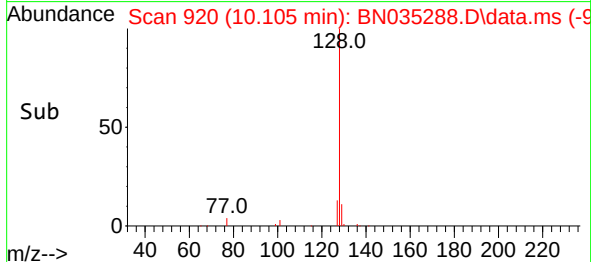
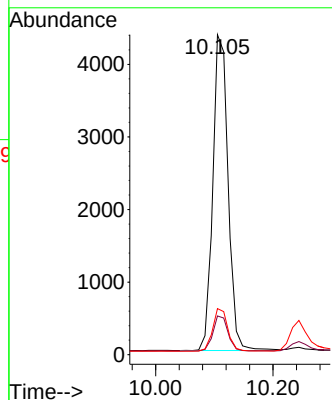
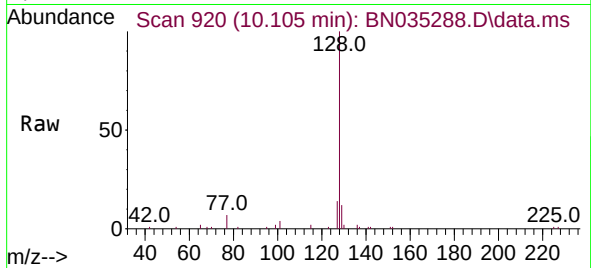




#9
Naphthalene
Concen: 0.324 ng
RT: 10.105 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035288.D
Acq: 25 Nov 2024 17:32

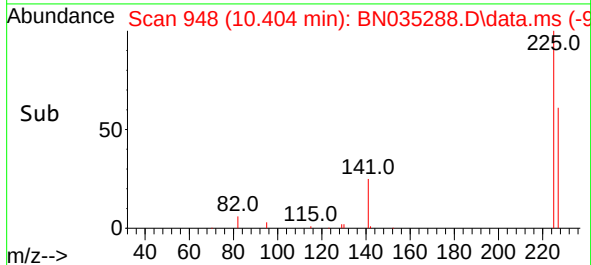
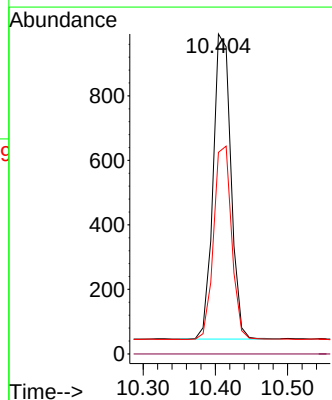
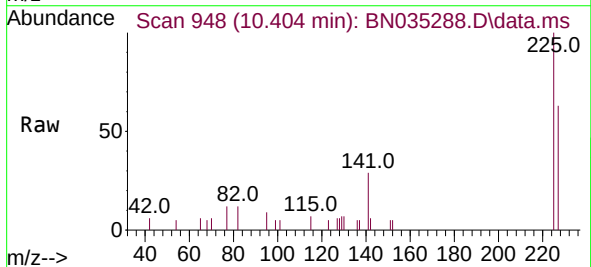
Instrument :
BNA_N
ClientSampleId :
BPOW6-10-20241119MS

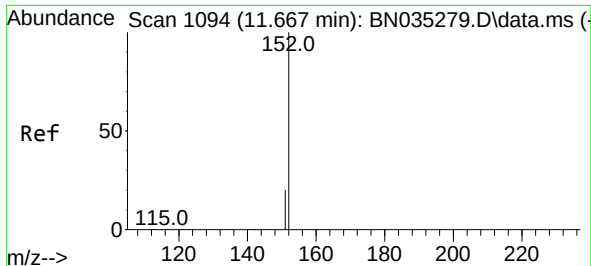
Tgt Ion:	128	Resp:	7856
Ion	Ratio	Lower	Upper
128	100		
129	12.1	9.6	14.4
127	14.4	11.3	16.9



#10
Hexachlorobutadiene
Concen: 0.238 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.011 min
Lab File: BN035288.D
Acq: 25 Nov 2024 17:32

Tgt Ion:	225	Resp:	1619
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.0	51.3	76.9

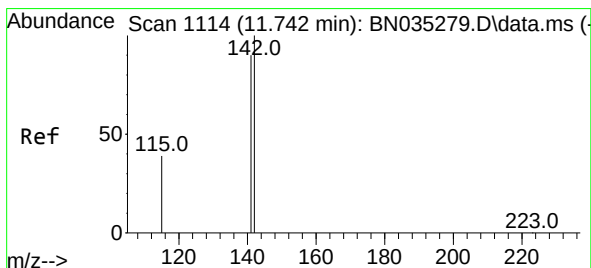
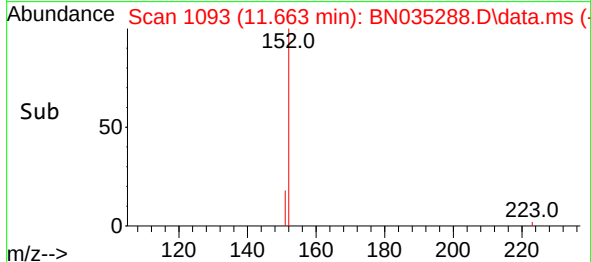
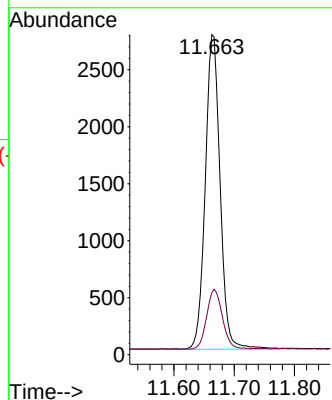
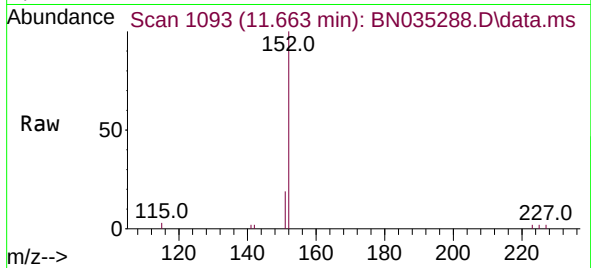




#11
2-Methylnaphthalene-d10
Concen: 0.386 ng
RT: 11.663 min Scan# 1093
Delta R.T. -0.004 min
Lab File: BN035288.D
Acq: 25 Nov 2024 17:32

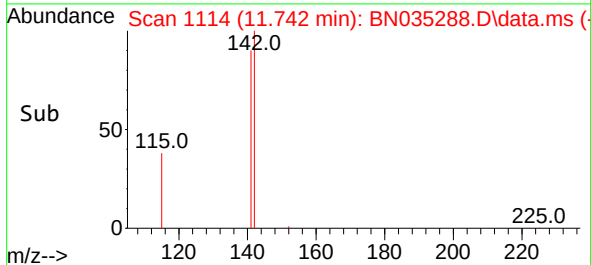
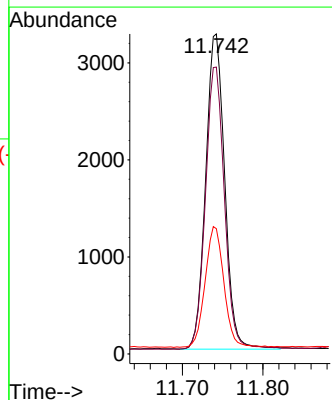
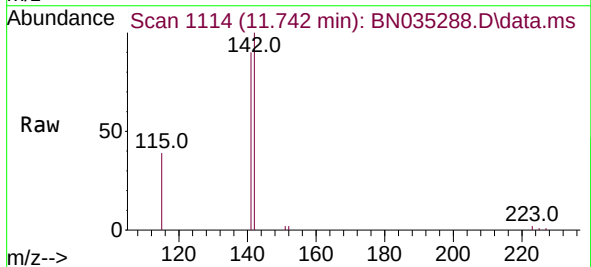
Instrument :
BNA_N
ClientSampleId :
BPOW6-10-20241119MS

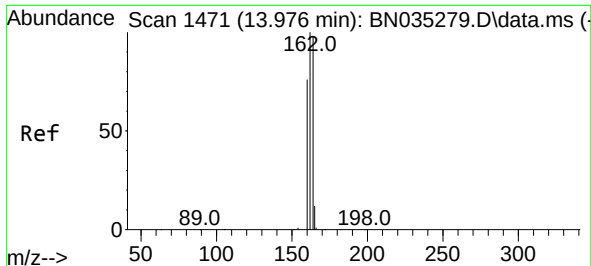
Tgt Ion:152 Resp: 4722
Ion Ratio Lower Upper
152 100
151 20.0 17.2 25.8



#12
2-Methylnaphthalene
Concen: 0.338 ng
RT: 11.742 min Scan# 1114
Delta R.T. 0.000 min
Lab File: BN035288.D
Acq: 25 Nov 2024 17:32

Tgt Ion:142 Resp: 5352
Ion Ratio Lower Upper
142 100
141 89.7 71.8 107.8
115 39.2 32.6 49.0

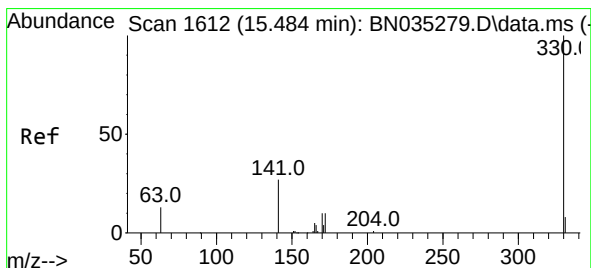
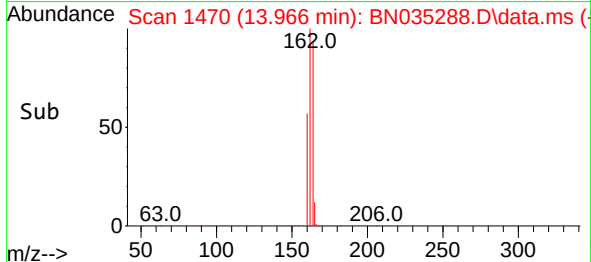
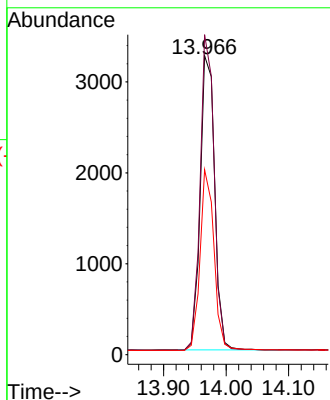
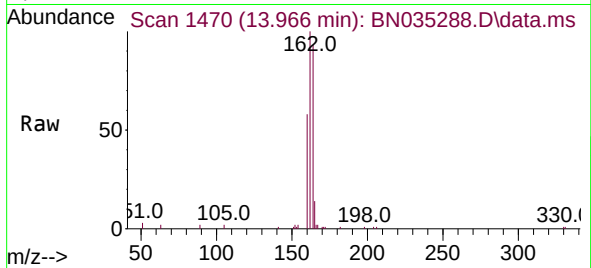




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.966 min Scan# 1471
Delta R.T. -0.011 min
Lab File: BN035288.D
Acq: 25 Nov 2024 17:32

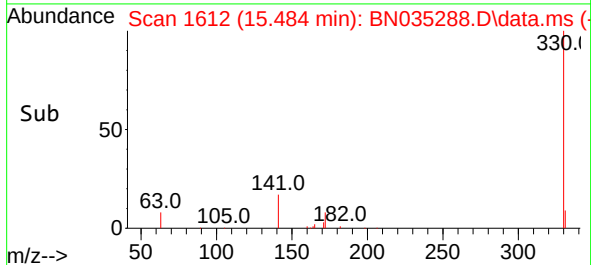
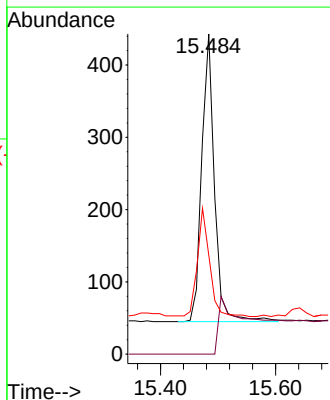
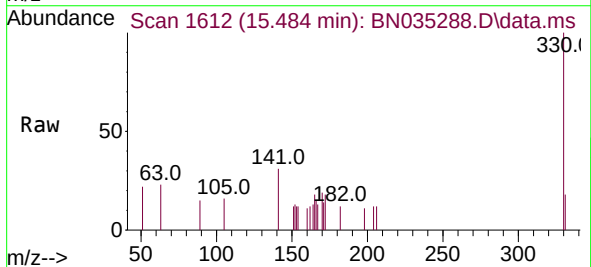
Instrument :
BNA_N
ClientSampleId :
BPOW6-10-20241119MS

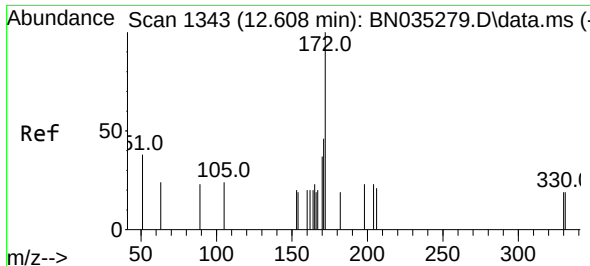
Tgt Ion:164 Resp: 5209
Ion Ratio Lower Upper
164 100
162 107.1 82.0 123.0
160 61.9 63.0 94.4#



#14
2,4,6-Tribromophenol
Concen: 0.247 ng
RT: 15.484 min Scan# 1612
Delta R.T. -0.000 min
Lab File: BN035288.D
Acq: 25 Nov 2024 17:32

Tgt Ion:330 Resp: 658
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 35.4 32.4 48.6

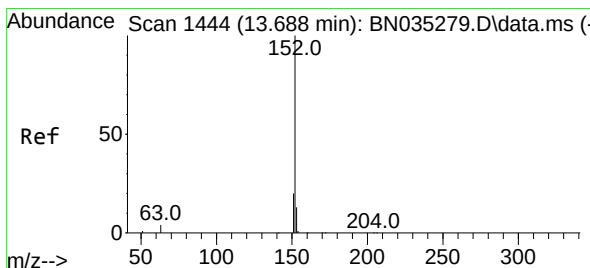
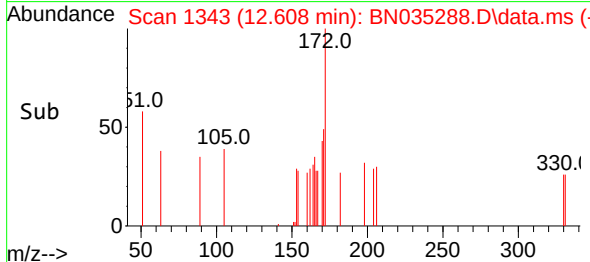
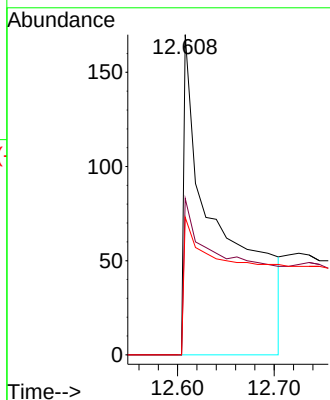
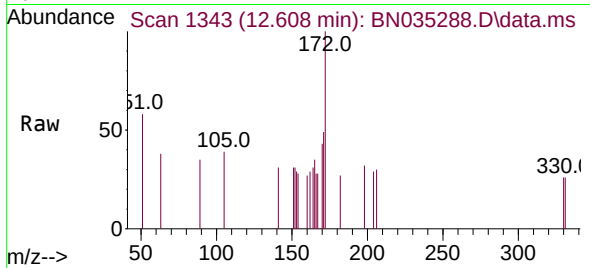




#15
2-Fluorobiphenyl
Concen: 0.146 ng
RT: 12.608 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN035288.D
Acq: 25 Nov 2024 17:32

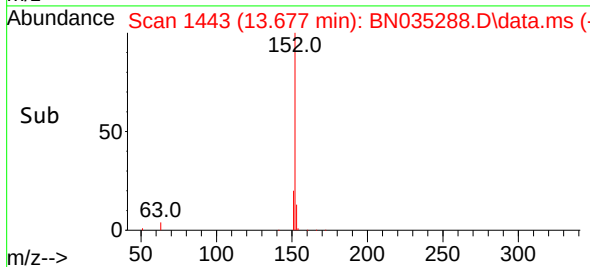
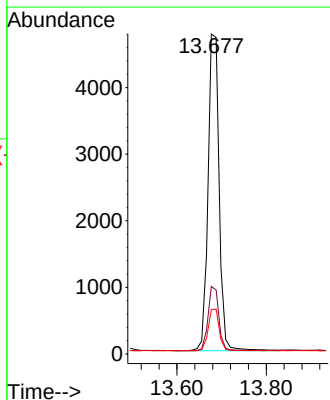
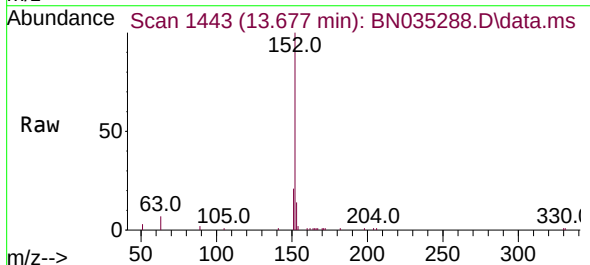
Instrument :
BNA_N
ClientSampleId :
BPOW6-10-20241119MS

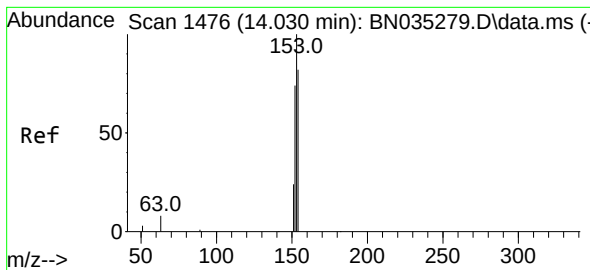
Tgt Ion:	172	Resp:	421
Ion	Ratio	Lower	Upper
172	100		
171	48.8	36.6	55.0
170	42.9	29.7	44.5



#16
Acenaphthylene
Concen: 0.312 ng
RT: 13.677 min Scan# 1443
Delta R.T. -0.011 min
Lab File: BN035288.D
Acq: 25 Nov 2024 17:32

Tgt Ion:	152	Resp:	8167
Ion	Ratio	Lower	Upper
152	100		
151	19.7	15.9	23.9
153	13.1	10.2	15.4





#17

Acenaphthene

Concen: 0.317 ng

RT: 14.030 min Scan# 1476

Delta R.T. -0.000 min

Lab File: BN035288.D

Acq: 25 Nov 2024 17:32

Instrument :

BNA_N

ClientSampleId :

BPOW6-10-20241119MS

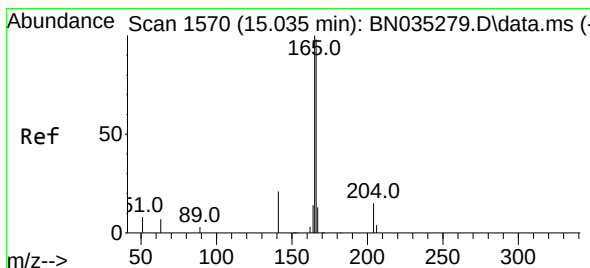
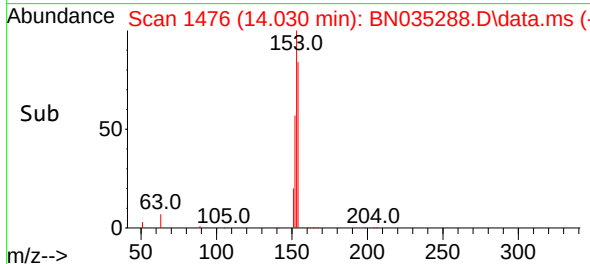
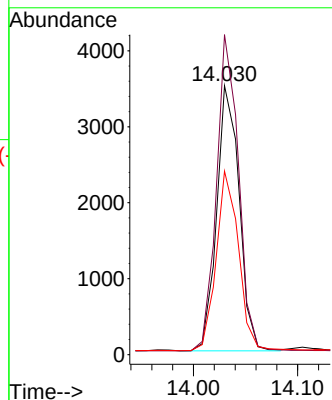
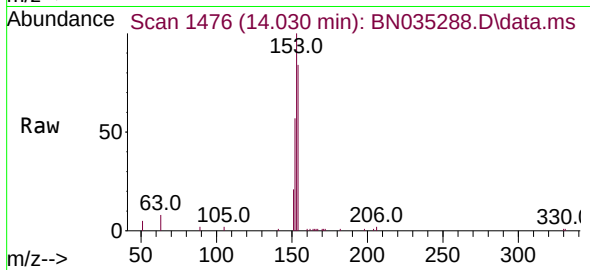
Tgt Ion:154 Resp: 5230

Ion Ratio Lower Upper

154 100

153 117.7 96.1 144.1

152 67.5 72.2 108.2#



#18

Fluorene

Concen: 0.307 ng

RT: 15.035 min Scan# 1570

Delta R.T. -0.000 min

Lab File: BN035288.D

Acq: 25 Nov 2024 17:32

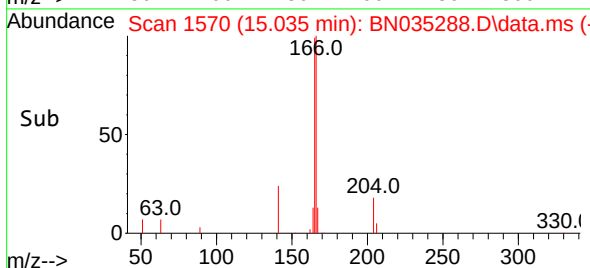
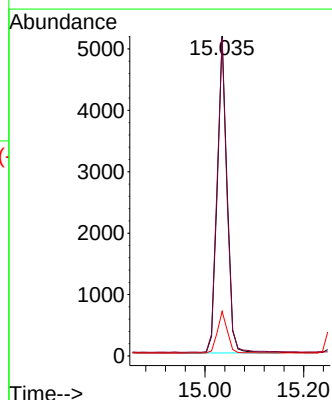
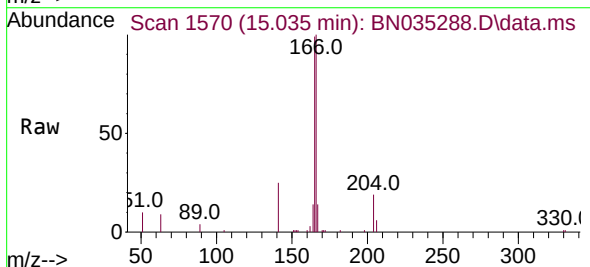
Tgt Ion:166 Resp: 7099

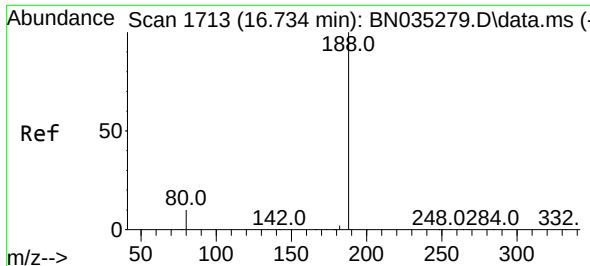
Ion Ratio Lower Upper

166 100

165 99.7 81.2 121.8

167 13.4 10.5 15.7

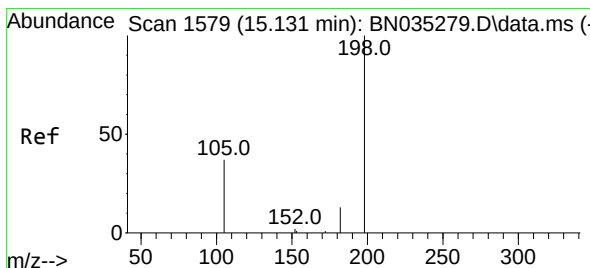
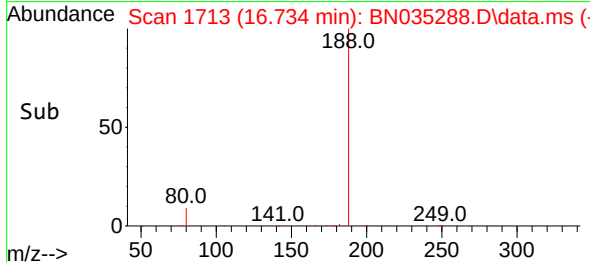
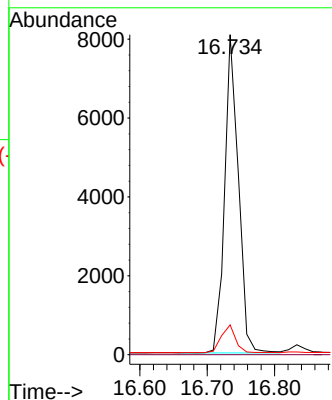
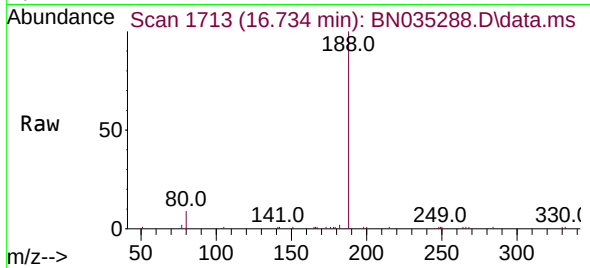




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.734 min Scan# 1713
Delta R.T. -0.000 min
Lab File: BN035288.D
Acq: 25 Nov 2024 17:32

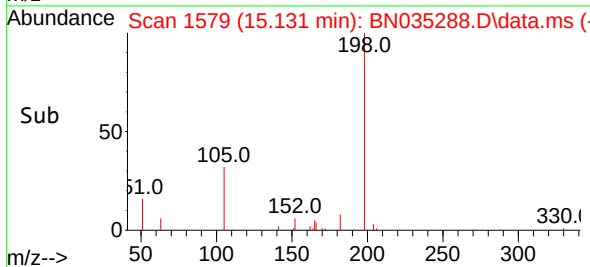
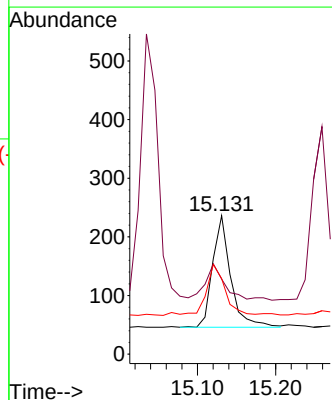
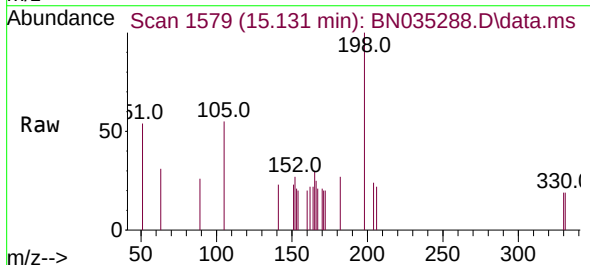
Instrument :
BNA_N
ClientSampleId :
BPOW6-10-20241119MS

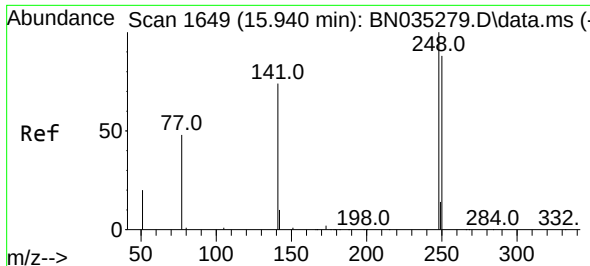
Tgt Ion:188 Resp: 11399
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 9.3 8.9 13.3



#20
4,6-Dinitro-2-methylphenol
Concen: 0.374 ng
RT: 15.131 min Scan# 1579
Delta R.T. -0.000 min
Lab File: BN035288.D
Acq: 25 Nov 2024 17:32

Tgt Ion:198 Resp: 305
Ion Ratio Lower Upper
198 100
51 54.2 53.6 80.4
105 54.7 47.4 71.2

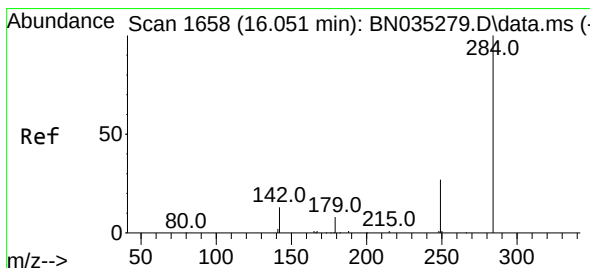
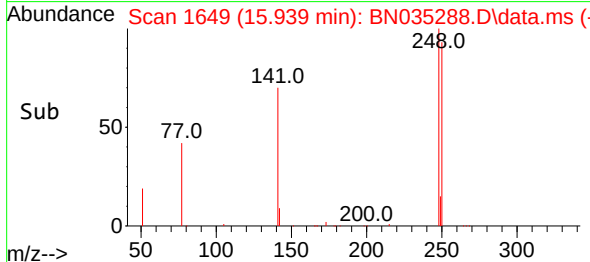
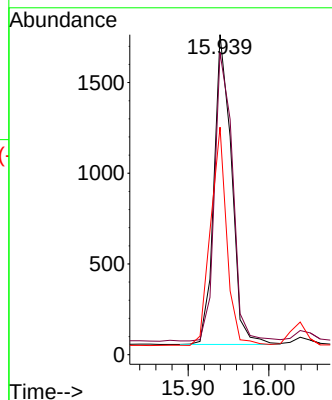
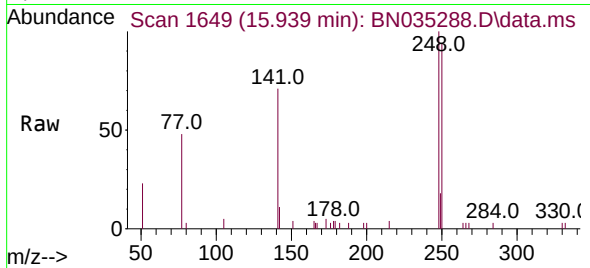




#21
4-Bromophenyl-phenylether
Concen: 0.356 ng
RT: 15.939 min Scan# 1649
Delta R.T. -0.001 min
Lab File: BN035288.D
Acq: 25 Nov 2024 17:32

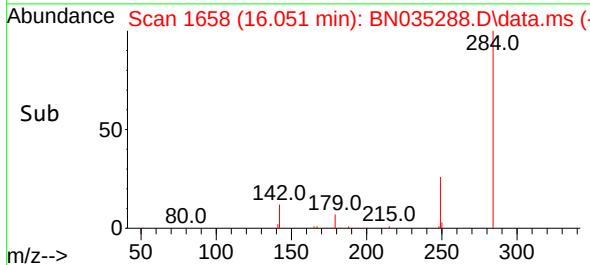
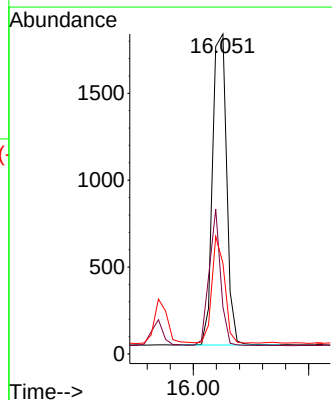
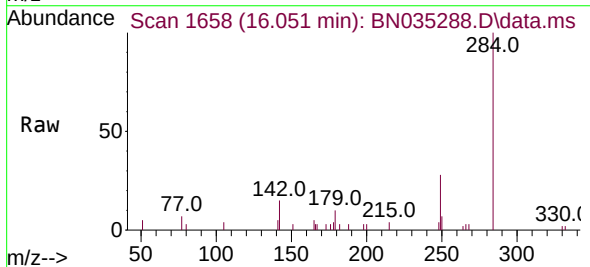
Instrument :
BNA_N
ClientSampleId :
BPOW6-10-20241119MS

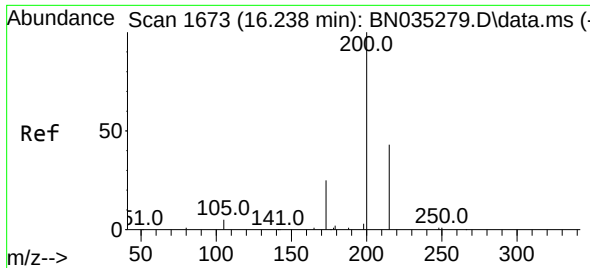
Tgt Ion:248 Resp: 2574
Ion Ratio Lower Upper
248 100
250 94.3 74.8 112.2
141 71.1 59.0 88.4



#22
Hexachlorobenzene
Concen: 0.292 ng
RT: 16.051 min Scan# 1658
Delta R.T. -0.000 min
Lab File: BN035288.D
Acq: 25 Nov 2024 17:32

Tgt Ion:284 Resp: 3029
Ion Ratio Lower Upper
284 100
142 36.0 28.7 43.1
249 30.9 25.4 38.0

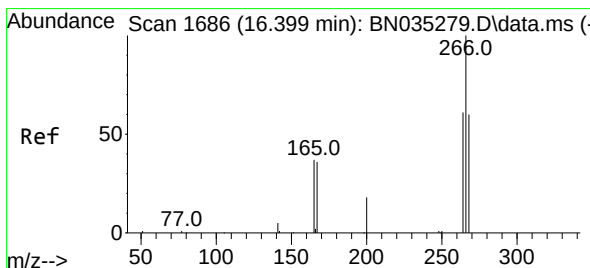
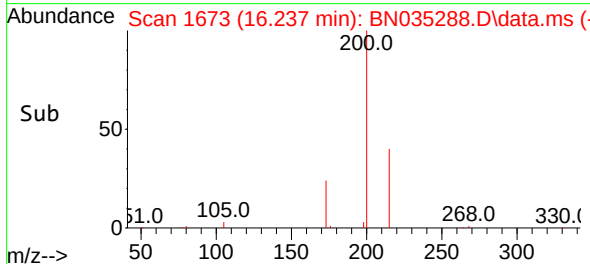
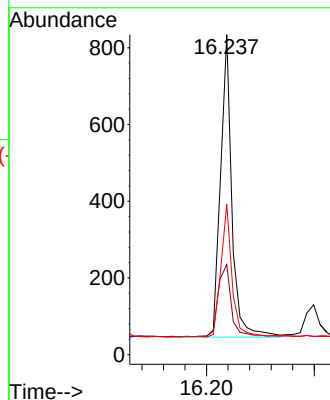
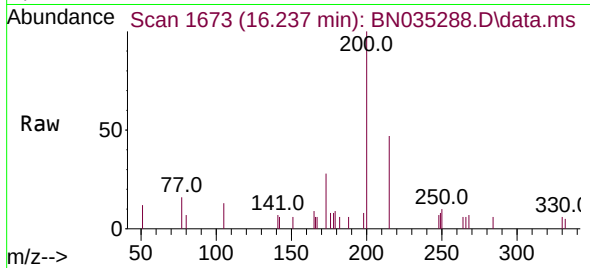




#23
 Atrazine
 Concen: 0.379 ng
 RT: 16.237 min Scan# 1673
 Delta R.T. -0.000 min
 Lab File: BN035288.D
 Acq: 25 Nov 2024 17:32

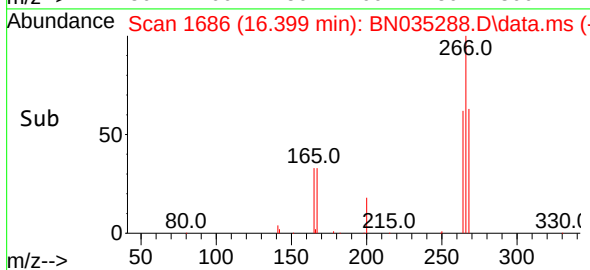
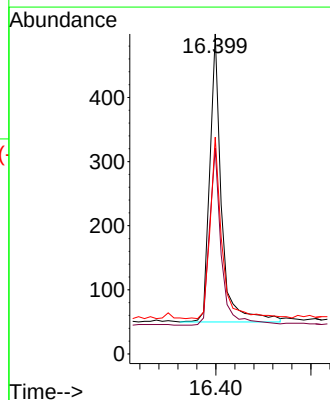
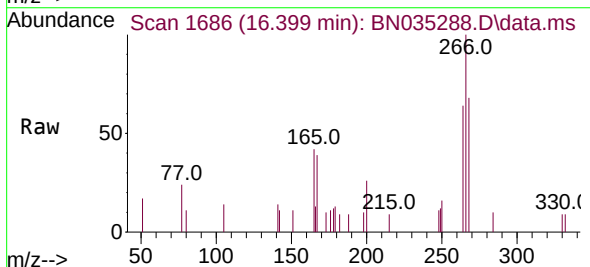
Instrument :
 BNA_N
 ClientSampleId :
 BPOW6-10-20241119MS

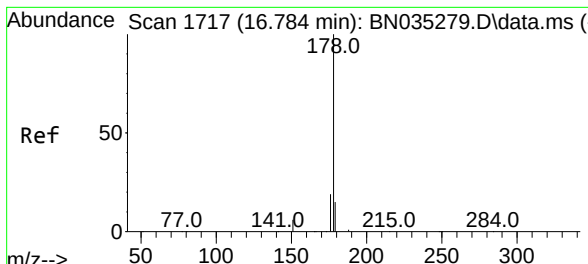
Tgt Ion:	200	Resp:	1155
Ion Ratio	Lower	Upper	
200	100		
173	28.2	25.8	38.8
215	47.0	38.6	58.0



#24
 Pentachlorophenol
 Concen: 0.312 ng
 RT: 16.399 min Scan# 1686
 Delta R.T. -0.000 min
 Lab File: BN035288.D
 Acq: 25 Nov 2024 17:32

Tgt Ion:	266	Resp:	774
Ion Ratio	Lower	Upper	
266	100		
264	61.9	49.3	73.9
268	63.3	48.6	73.0





#25

Phenanthrene

Concen: 0.352 ng

RT: 16.771 min Scan# 1716

Delta R.T. -0.013 min

Lab File: BN035288.D

Acq: 25 Nov 2024 17:32

Instrument :

BNA_N

ClientSampleId :

BPOW6-10-20241119MS

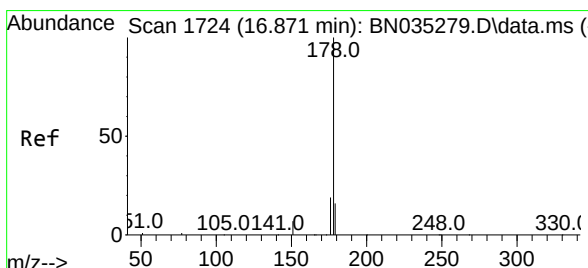
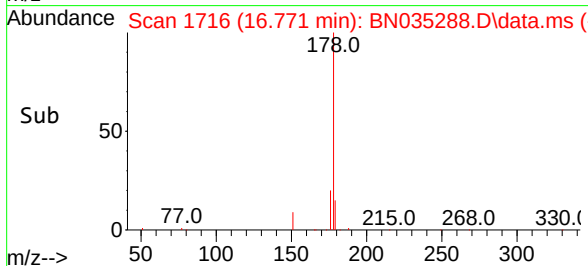
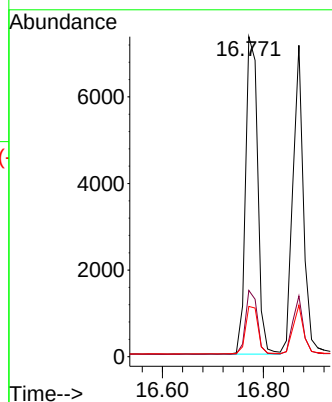
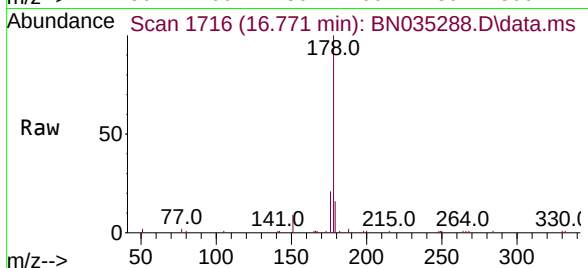
Tgt Ion:178 Resp: 12309

Ion Ratio Lower Upper

178 100

176 19.4 15.4 23.0

179 15.3 12.6 18.8



#26

Anthracene

Concen: 0.350 ng

RT: 16.870 min Scan# 1724

Delta R.T. -0.000 min

Lab File: BN035288.D

Acq: 25 Nov 2024 17:32

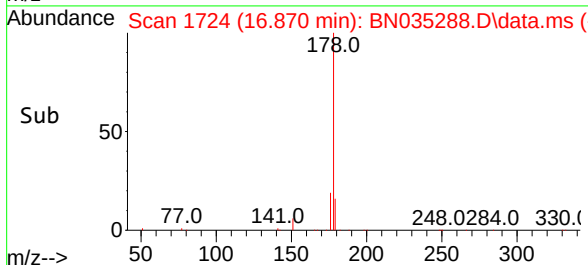
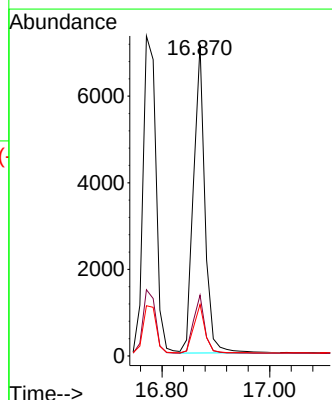
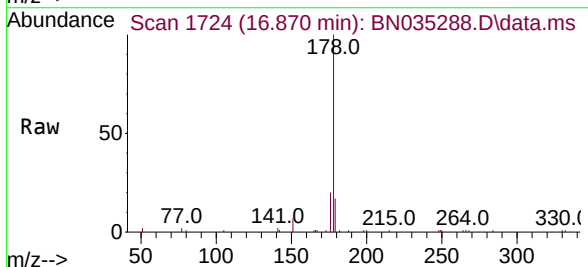
Tgt Ion:178 Resp: 10530

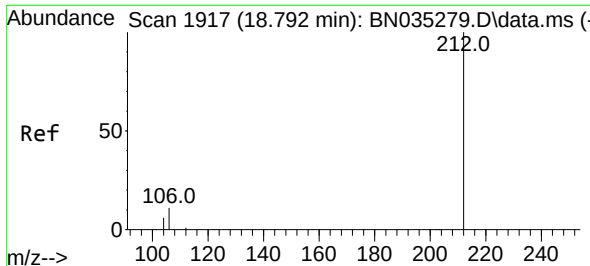
Ion Ratio Lower Upper

178 100

176 18.7 15.0 22.4

179 15.7 12.4 18.6

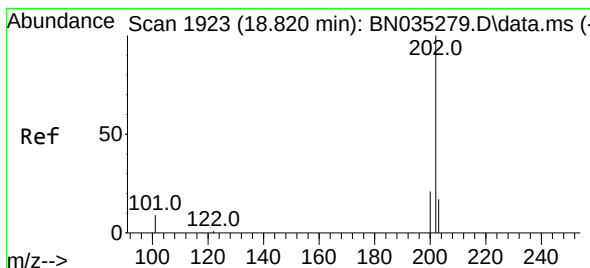
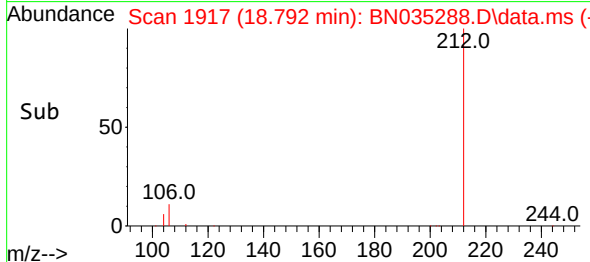
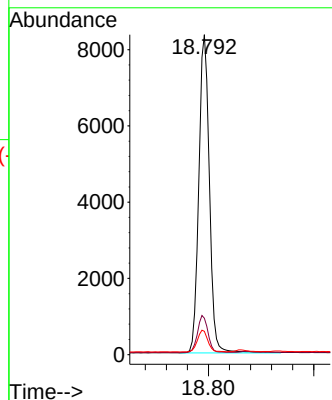
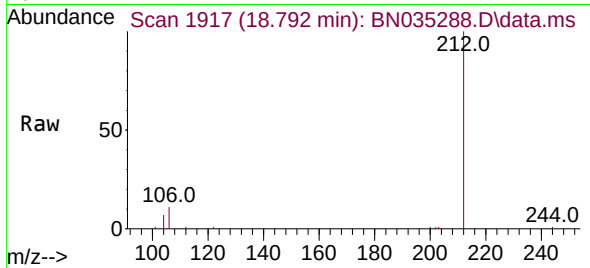




#27
Fluoranthene-d10
Concen: 0.381 ng
RT: 18.792 min Scan# 1917
Delta R.T. -0.000 min
Lab File: BN035288.D
Acq: 25 Nov 2024 17:32

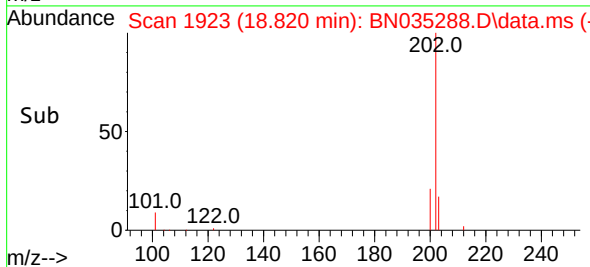
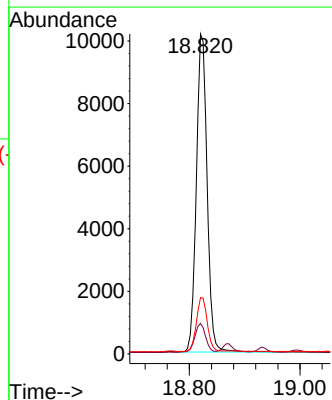
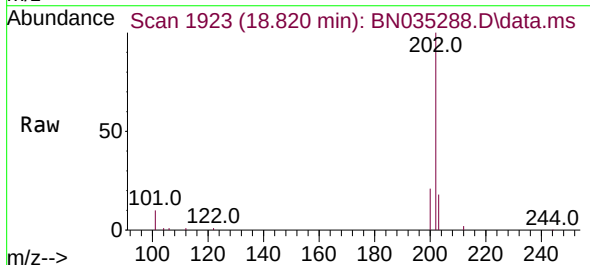
Instrument :
BNA_N
ClientSampleId :
BPOW6-10-20241119MS

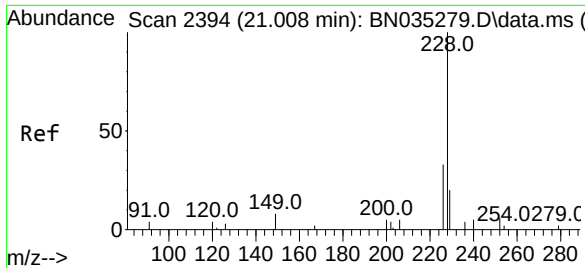
Tgt Ion:212 Resp: 11634
Ion Ratio Lower Upper
212 100
106 11.5 9.8 14.8
104 6.7 5.6 8.4



#28
Fluoranthene
Concen: 0.312 ng
RT: 18.820 min Scan# 1923
Delta R.T. 0.000 min
Lab File: BN035288.D
Acq: 25 Nov 2024 17:32

Tgt Ion:202 Resp: 13774
Ion Ratio Lower Upper
202 100
101 9.0 7.6 11.4
203 17.0 13.8 20.8

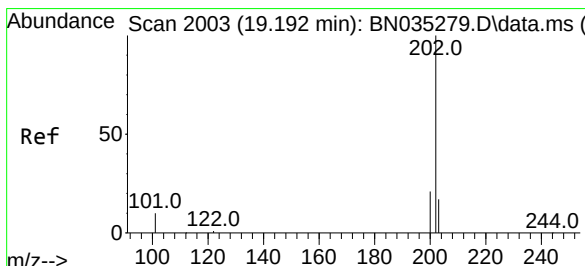
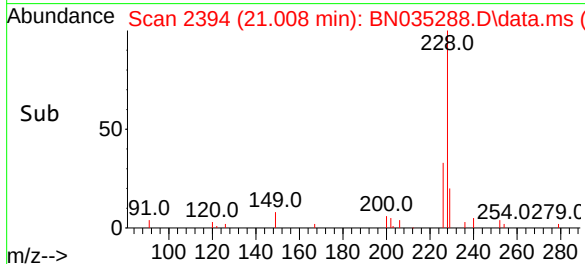
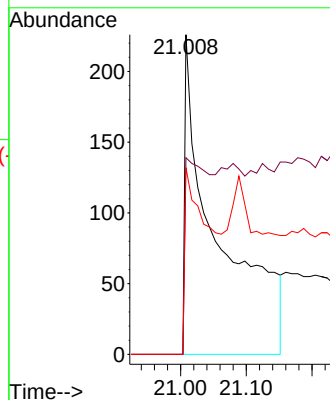
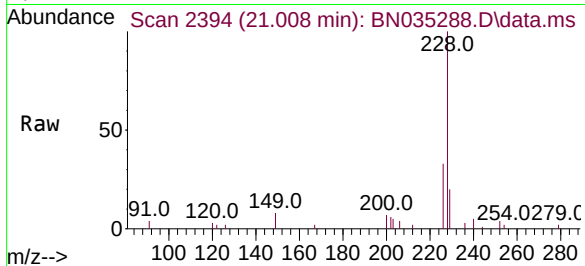




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.008 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN035288.D
Acq: 25 Nov 2024 17:32

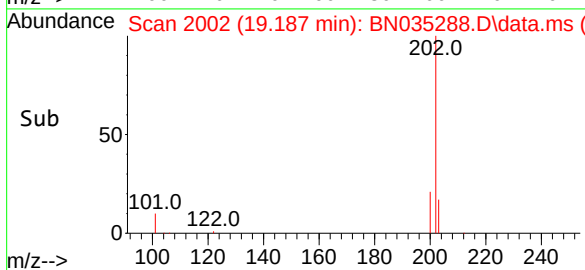
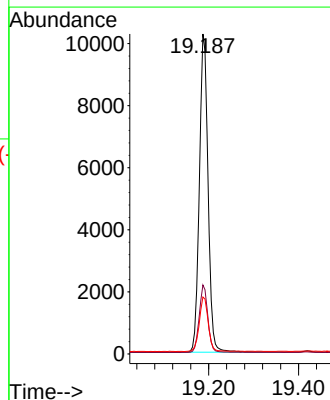
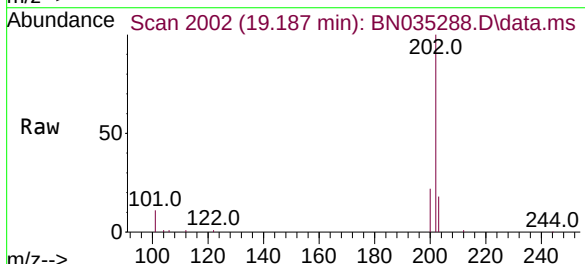
Instrument :
BNA_N
ClientSampleId :
BPOW6-10-20241119MS

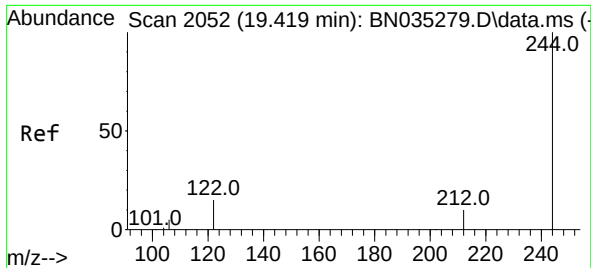
Tgt Ion:	240	Resp:	743
Ion Ratio	Lower	Upper	
240	100		
120	61.5	54.9	82.3
236	58.4	54.0	81.0



#30
Pyrene
Concen: 0.511 ng
RT: 19.187 min Scan# 2002
Delta R.T. -0.005 min
Lab File: BN035288.D
Acq: 25 Nov 2024 17:32

Tgt Ion:	202	Resp:	13805
Ion Ratio	Lower	Upper	
202	100		
200	21.0	16.8	25.2
203	17.6	14.4	21.6

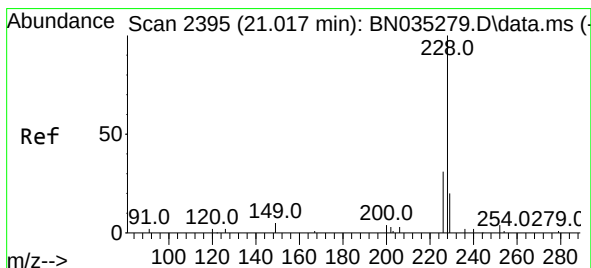
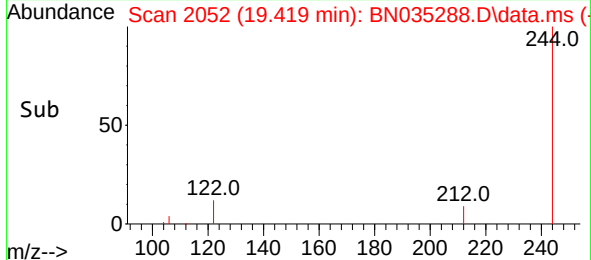
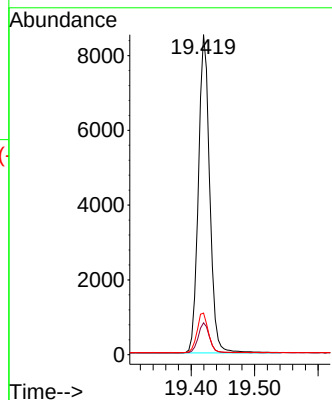
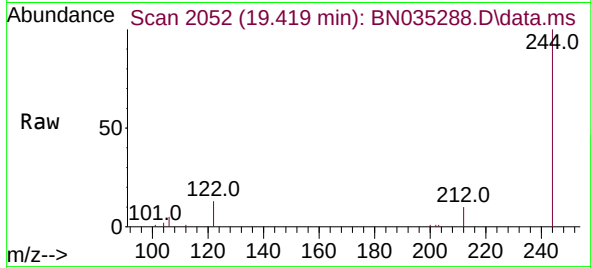




#31
 Terphenyl-d14
 Concen: 0.768 ng
 RT: 19.419 min Scan# 2052
 Delta R.T. 0.000 min
 Lab File: BN035288.D
 Acq: 25 Nov 2024 17:32

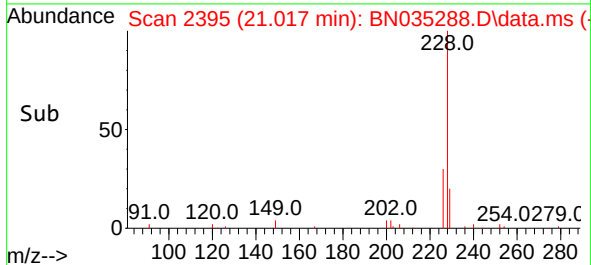
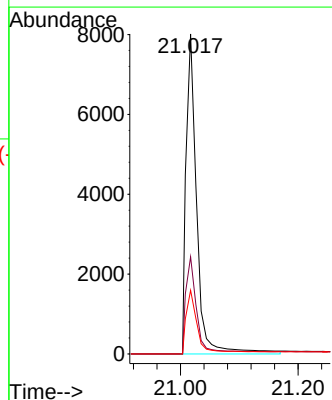
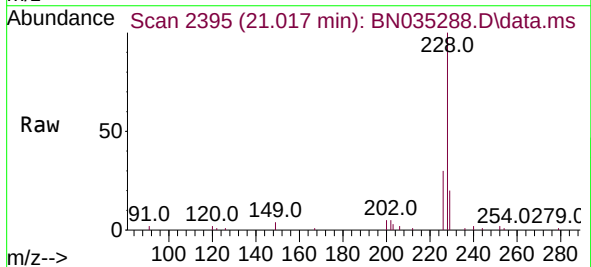
Instrument :
 BNA_N
 ClientSampleId :
 BPOW6-10-20241119MS

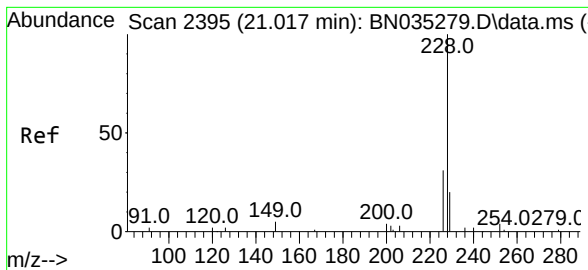
Tgt Ion:244 Resp: 10548
 Ion Ratio Lower Upper
 244 100
 212 10.0 9.4 14.0
 122 13.0 13.0 19.4



#32
 Benzo(a)anthracene
 Concen: 0.390 ng
 RT: 21.017 min Scan# 2395
 Delta R.T. 0.000 min
 Lab File: BN035288.D
 Acq: 25 Nov 2024 17:32

Tgt Ion:228 Resp: 10096
 Ion Ratio Lower Upper
 228 100
 226 30.4 24.7 37.1
 229 19.9 16.2 24.2





#33

Chrysene

Concen: 0.390 ng

RT: 21.017 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035288.D

Acq: 25 Nov 2024 17:32

Instrument :

BNA_N

ClientSampleId :

BPOW6-10-20241119MS

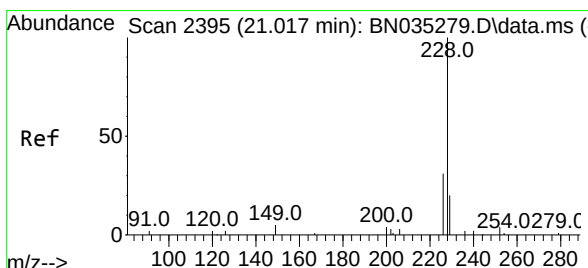
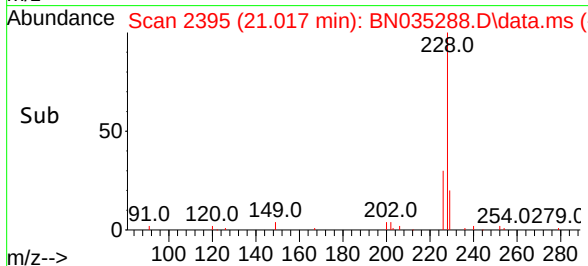
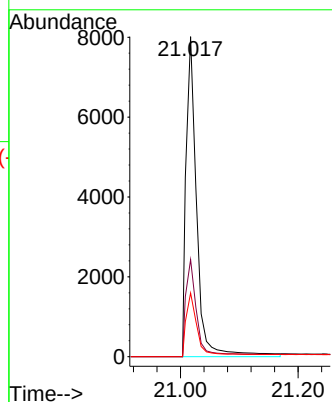
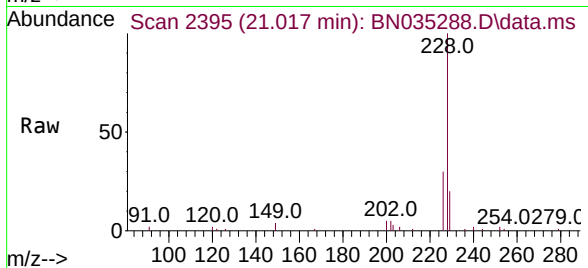
Tgt Ion:228 Resp: 10096

Ion Ratio Lower Upper

228 100

226 30.4 24.7 37.1

229 19.9 16.2 24.2



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.407 ng

RT: 21.017 min Scan# 2395

Delta R.T. 0.000 min

Lab File: BN035288.D

Acq: 25 Nov 2024 17:32

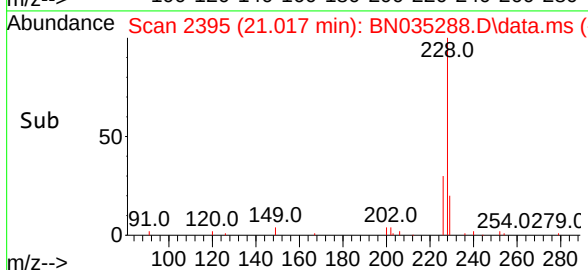
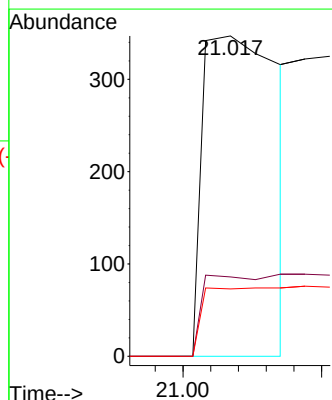
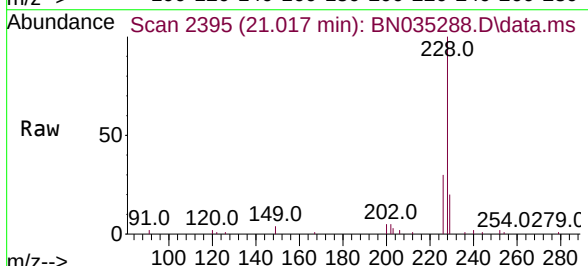
Tgt Ion:149 Resp: 578

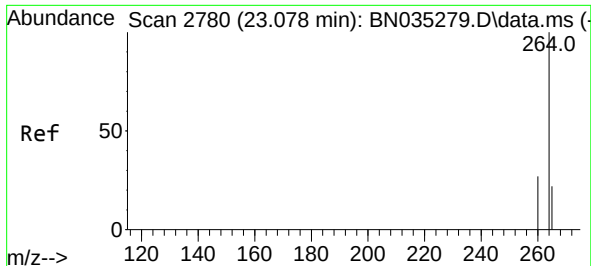
Ion Ratio Lower Upper

149 100

167 18.2 0.0 0.0#

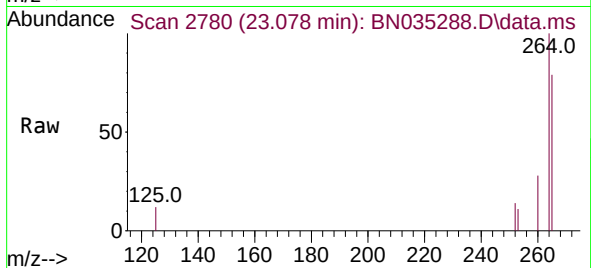
279 0.0 13.0 19.6#



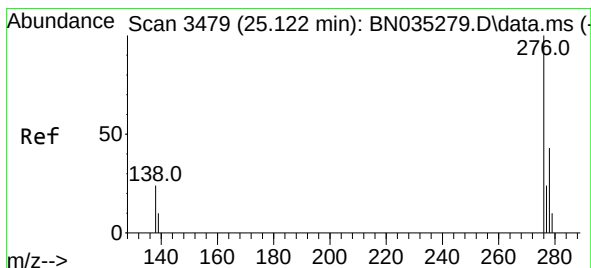
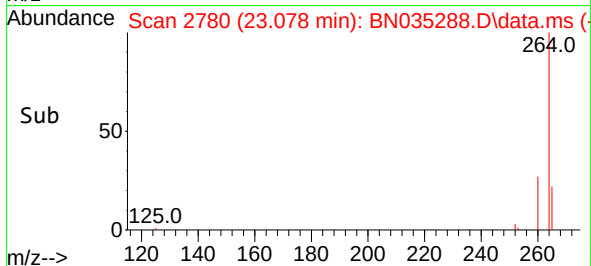
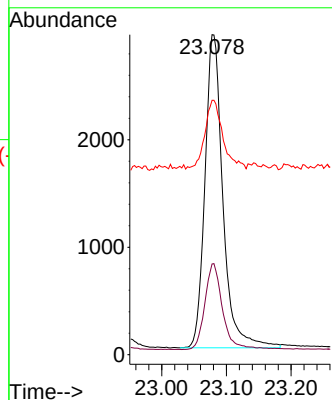


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.078 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN035288.D
Acq: 25 Nov 2024 17:32

Instrument :
BNA_N
ClientSampleId :
BPOW6-10-20241119MS

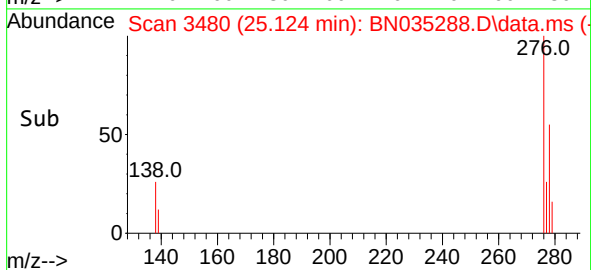
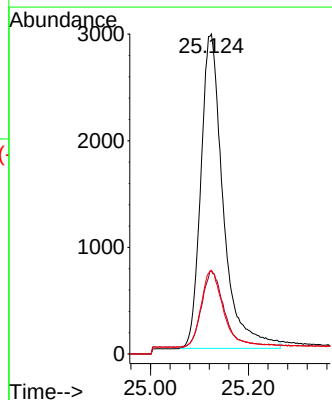
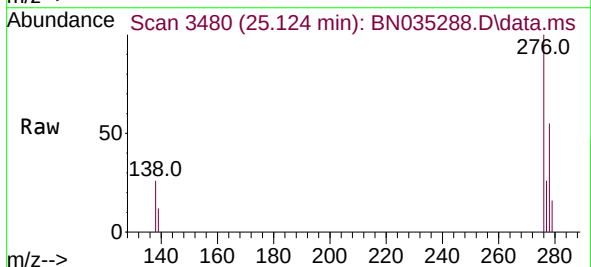


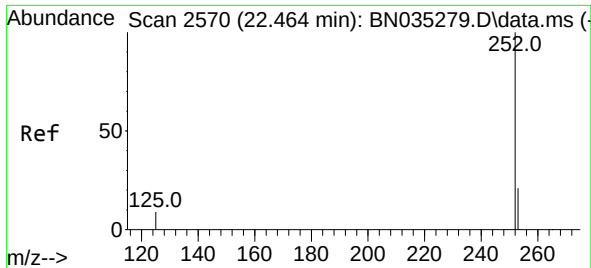
Tgt Ion:264 Resp: 5613
Ion Ratio Lower Upper
264 100
260 28.4 22.3 33.5
265 79.5 68.6 103.0



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.407 ng
RT: 25.124 min Scan# 3480
Delta R.T. 0.003 min
Lab File: BN035288.D
Acq: 25 Nov 2024 17:32

Tgt Ion:276 Resp: 9354
Ion Ratio Lower Upper
276 100
138 23.4 18.8 28.2
277 24.0 18.2 27.4

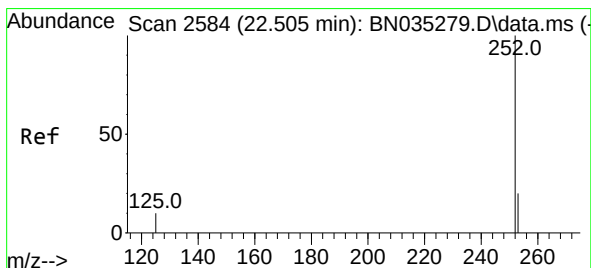
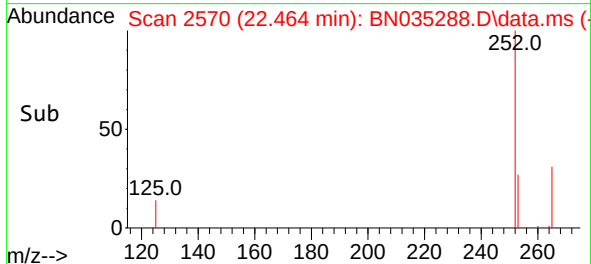
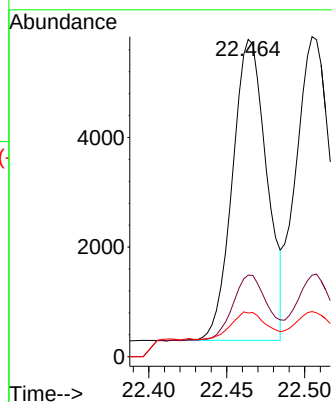
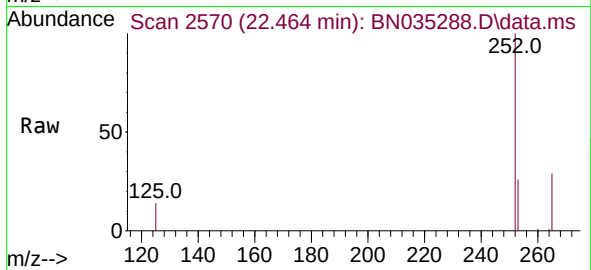




#37
Benzo(b)fluoranthene
Concen: 0.344 ng
RT: 22.464 min Scan# 2570
Delta R.T. -0.000 min
Lab File: BN035288.D
Acq: 25 Nov 2024 17:32

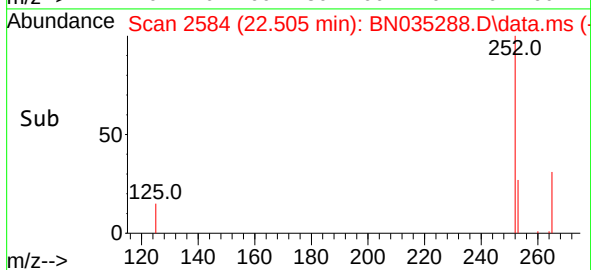
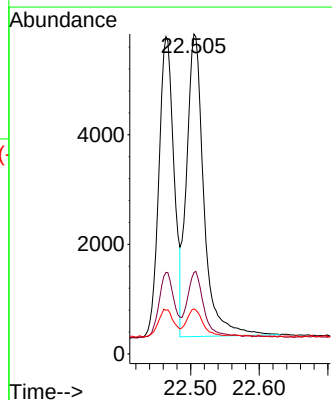
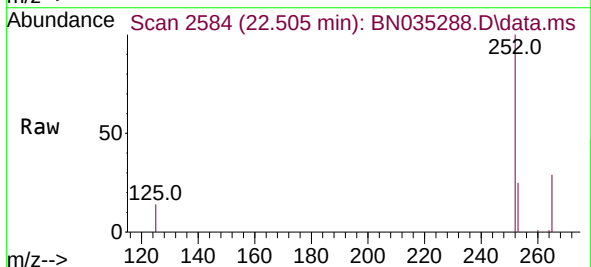
Instrument :
BNA_N
ClientSampleId :
BPOW6-10-20241119MS

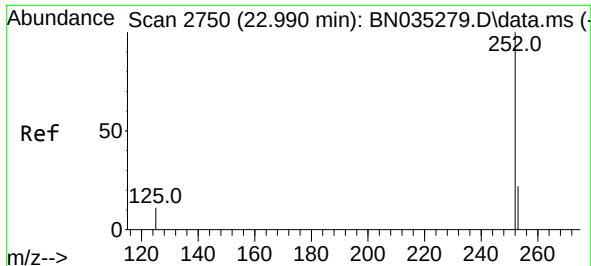
Tgt Ion:252 Resp: 8402
Ion Ratio Lower Upper
252 100
253 25.7 20.2 30.2
125 13.8 12.0 18.0



#38
Benzo(k)fluoranthene
Concen: 0.372 ng
RT: 22.505 min Scan# 2584
Delta R.T. -0.000 min
Lab File: BN035288.D
Acq: 25 Nov 2024 17:32

Tgt Ion:252 Resp: 9589
Ion Ratio Lower Upper
252 100
253 25.5 20.1 30.1
125 14.1 12.7 19.1

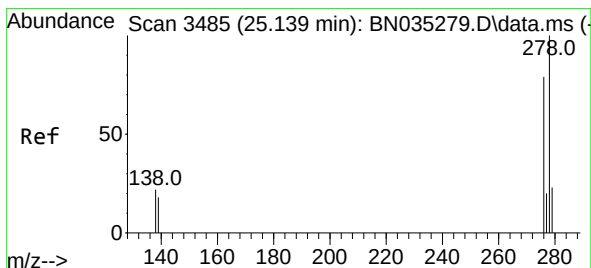
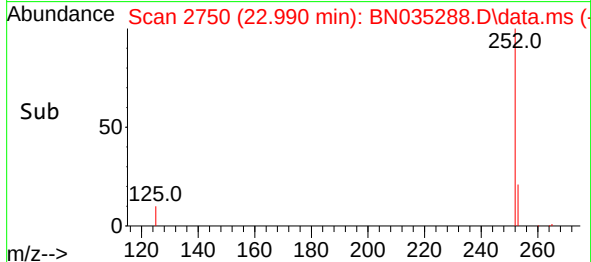
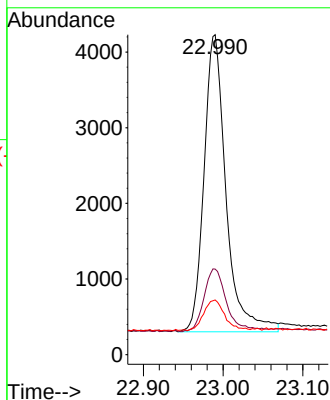
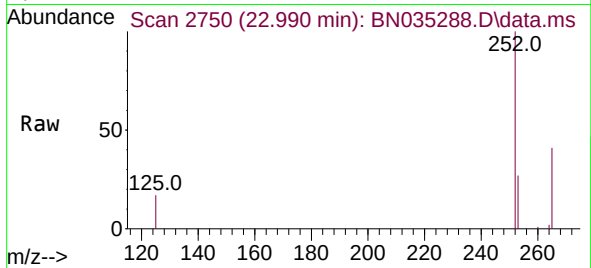




#39
Benzo(a)pyrene
Concen: 0.404 ng
RT: 22.990 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN035288.D
Acq: 25 Nov 2024 17:32

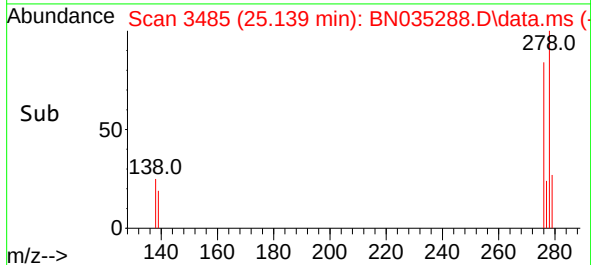
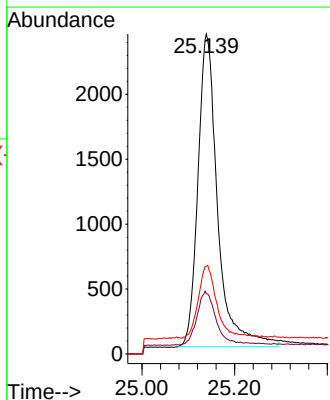
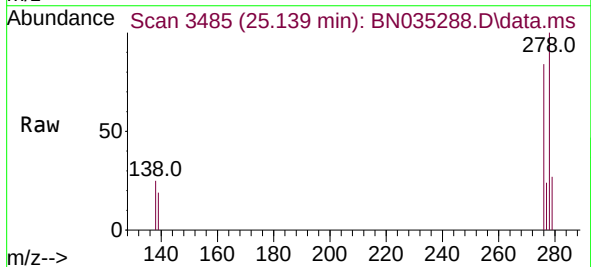
Instrument :
BNA_N
ClientSampleId :
BPOW6-10-20241119MS

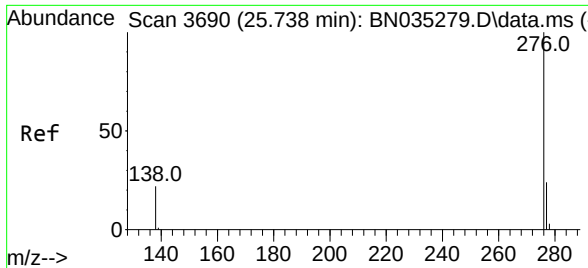
Tgt Ion:	252	Resp:	7534
Ion	Ratio	Lower	Upper
252	100		
253	26.7	22.3	33.5
125	17.1	15.3	22.9



#40
Dibenzo(a,h)anthracene
Concen: 0.410 ng
RT: 25.139 min Scan# 3485
Delta R.T. -0.000 min
Lab File: BN035288.D
Acq: 25 Nov 2024 17:32

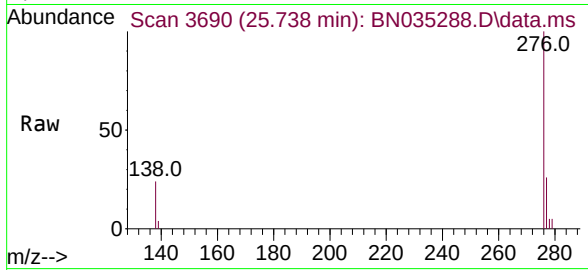
Tgt Ion:	278	Resp:	7128
Ion	Ratio	Lower	Upper
278	100		
139	18.9	17.0	25.6
279	27.4	23.0	34.4



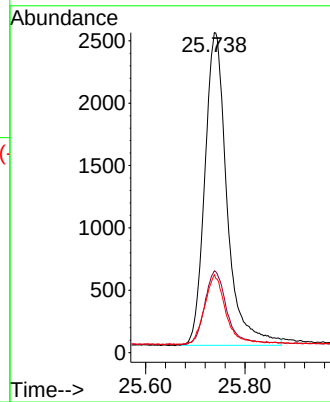
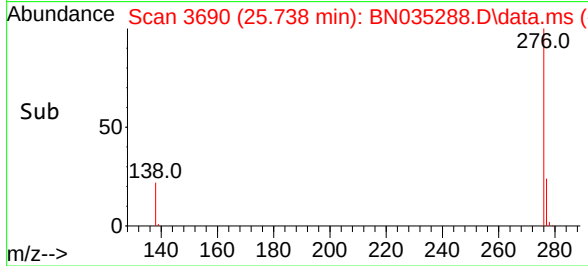


#41
Benzo(g,h,i)perylene
Concen: 0.387 ng
RT: 25.738 min Scan# 30
Delta R.T. -0.000 min
Lab File: BN035288.D
Acq: 25 Nov 2024 17:32

Instrument :
BNA_N
ClientSampleId :
BPOW6-10-20241119MS



Tgt Ion:	276	Resp:	7780
Ion	Ratio	Lower	Upper
276	100		
277	25.6	21.1	31.7
138	24.4	19.8	29.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
 Data File : BN035289.D
 Acq On : 25 Nov 2024 18:08
 Operator : RC/JU
 Sample : P4934-07MSD
 Misc :
 ALS Vial : 65 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 BPOW6-10-20241119MSD

Quant Time: Nov 26 03:31:38 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 26 02:36:08 2024
 Response via : Initial Calibration

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

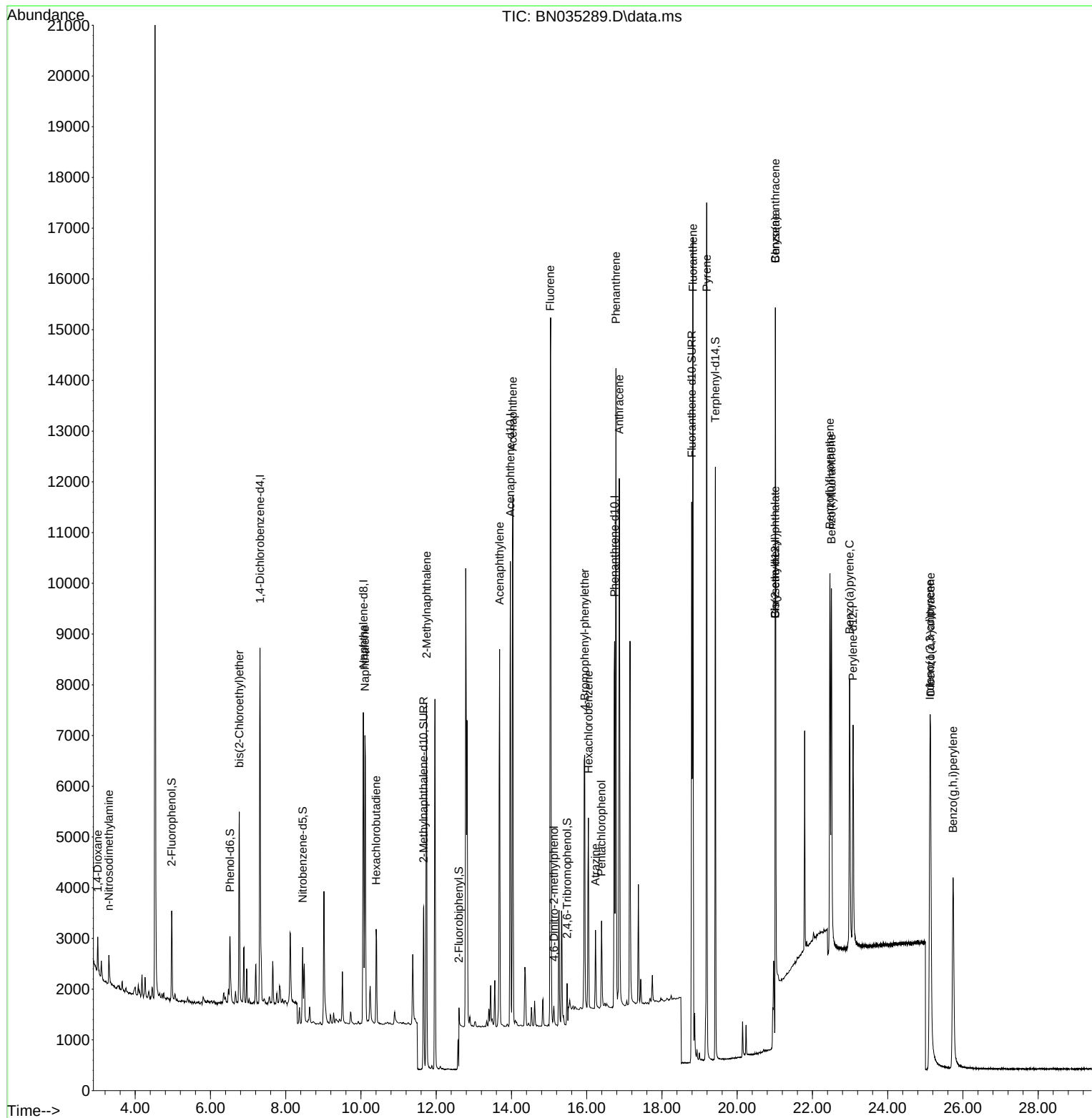
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.315	152	3339	0.400	ng	0.00
7) Naphthalene-d8	10.063	136	8134	0.400	ng	# 0.00
13) Acenaphthene-d10	13.973	164	4891	0.400	ng	# 0.00
19) Phenanthrene-d10	16.741	188	10884	0.400	ng	# 0.00
29) Chrysene-d12	21.006	240	706	0.400	ng	# 0.00
35) Perylene-d12	23.078	264	5495	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.968	112	1508	0.239	ng	0.00
5) Phenol-d6	6.521	99	1353	0.154	ng	0.00
8) Nitrobenzene-d5	8.451	82	1421	0.215	ng	0.00
11) 2-Methylnaphthalene-d10	11.663	152	4611	0.405	ng	0.00
14) 2,4,6-Tribromophenol	15.480	330	693	0.278	ng	0.00
15) 2-Fluorobiphenyl	12.604	172	705	0.261	ng	0.00
27) Fluoranthene-d10	18.790	212	12387	0.425	ng	0.00
31) Terphenyl-d14	19.422	244	11299	0.866	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.003	88	513	0.214	ng	98
3) n-Nitrosodimethylamine	3.300	42	342	0.137	ng	# 66
6) bis(2-Chloroethyl)ether	6.766	93	2896	0.390	ng	100
9) Naphthalene	10.105	128	7573	0.336	ng	99
10) Hexachlorobutadiene	10.404	225	1554	0.245	ng	# 100
12) 2-Methylnaphthalene	11.742	142	5217	0.353	ng	99
16) Acenaphthylene	13.684	152	8019	0.326	ng	99
17) Acenaphthene	14.037	154	5118	0.330	ng	# 88
18) Fluorene	15.031	166	7060	0.325	ng	98
20) 4,6-Dinitro-2-methylph...	15.127	198	326	0.396	ng	93
21) 4-Bromophenyl-phenylether	15.947	248	2609	0.378	ng	# 78
22) Hexachlorobenzene	16.046	284	2959	0.299	ng	100
23) Atrazine	16.232	200	1177	0.405	ng	100
24) Pentachlorophenol	16.393	266	881	0.371	ng	98
25) Phenanthrene	16.778	178	12541	0.375	ng	100
26) Anthracene	16.865	178	10829	0.377	ng	100
28) Fluoranthene	18.823	202	14601	0.346	ng	99
30) Pyrene	19.189	202	14755	0.575	ng	100
32) Benzo(a)anthracene	21.015	228	11175	0.455	ng	99
33) Chrysene	21.015	228	11175	0.455	ng	99
34) Bis(2-ethylhexyl)phtha...	21.006	149	746	0.552	ng	# 97
36) Indeno(1,2,3-cd)pyrene	25.122	276	9501	0.422	ng	99
37) Benzo(b)fluoranthene	22.464	252	8918	0.373	ng	99
38) Benzo(k)fluoranthene	22.505	252	9698	0.384	ng	97
39) Benzo(a)pyrene	22.988	252	7735	0.424	ng	97
40) Dibenzo(a,h)anthracene	25.140	278	7121	0.419	ng	97
41) Benzo(g,h,i)perylene	25.739	276	7906	0.402	ng	98

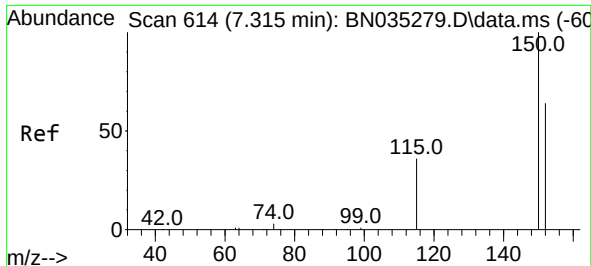
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
Data File : BN035289.D
Acq On : 25 Nov 2024 18:08
Operator : RC/JU
Sample : P4934-07MSD
Misc :
ALS Vial : 65 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BPOW6-10-20241119MSD

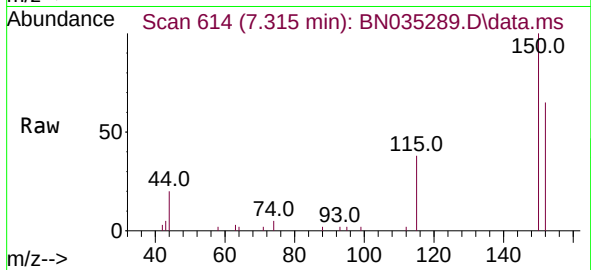
Quant Time: Nov 26 03:31:38 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 26 02:36:08 2024
Response via : Initial Calibration





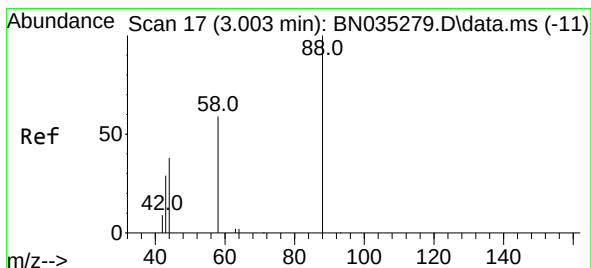
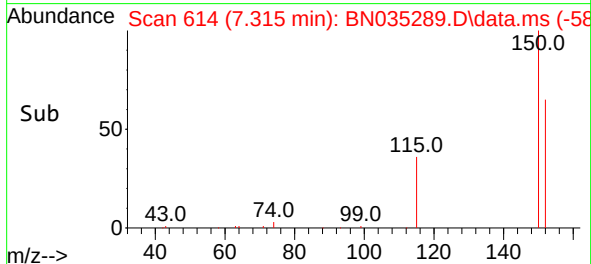
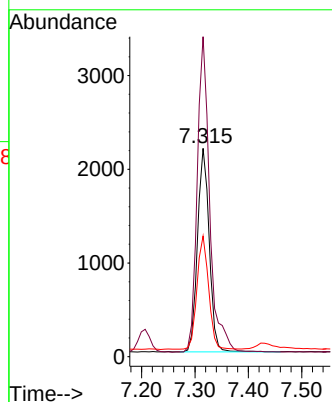
#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.315 min Scan# 614
 Delta R.T. 0.000 min
 Lab File: BN035289.D
 Acq: 25 Nov 2024 18:08

Instrument :
 BNA_N
 ClientSampleId :
 BPOW6-10-20241119MSD



Tgt Ion: 152 Resp: 3339

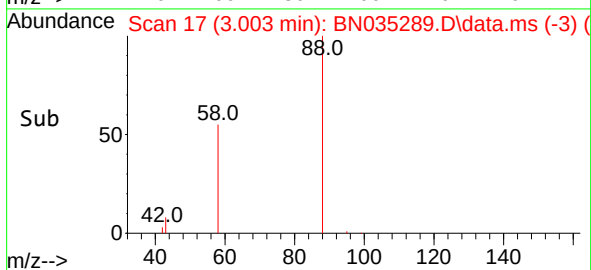
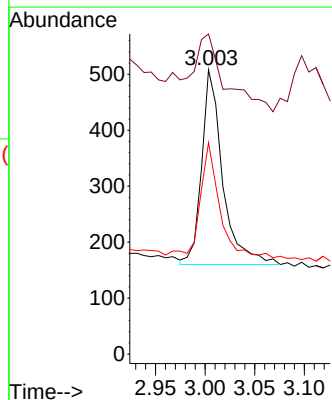
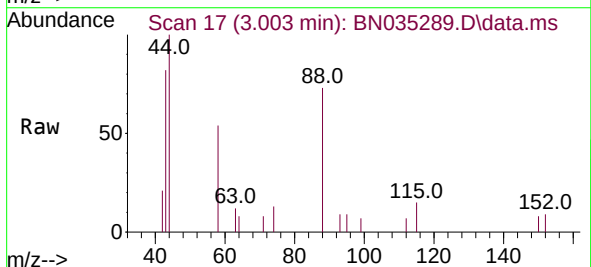
Ion	Ratio	Lower	Upper
152	100		
150	153.6	124.5	186.7
115	57.9	47.8	71.8

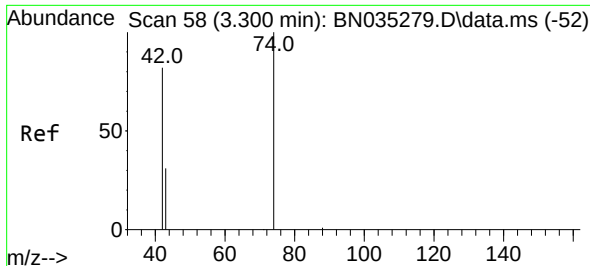


#2
 1,4-Dioxane
 Concen: 0.214 ng
 RT: 3.003 min Scan# 17
 Delta R.T. 0.000 min
 Lab File: BN035289.D
 Acq: 25 Nov 2024 18:08

Tgt Ion: 88 Resp: 513

Ion	Ratio	Lower	Upper
88	100		
43	60.2	48.1	72.1
58	55.2	46.9	70.3





#3

n-Nitrosodimethylamine

Concen: 0.137 ng

RT: 3.300 min Scan# 58

Delta R.T. -0.000 min

Lab File: BN035289.D

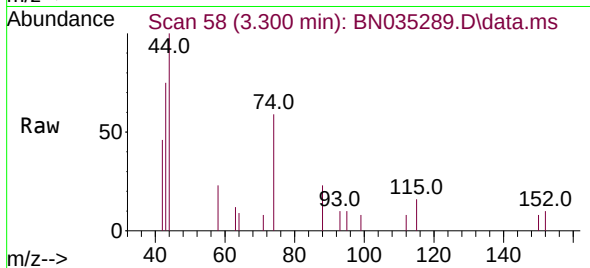
Acq: 25 Nov 2024 18:08

Instrument :

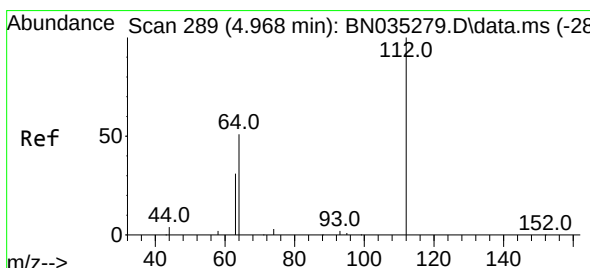
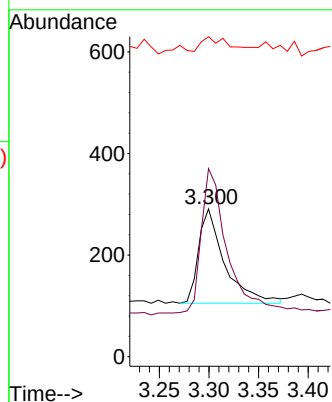
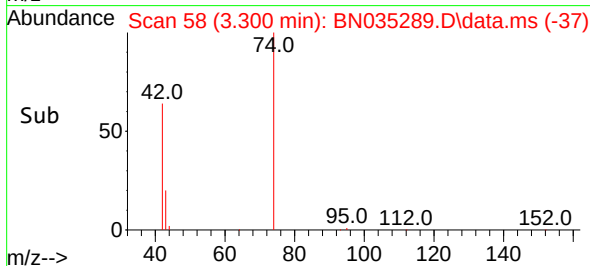
BNA_N

ClientSampleId :

BPOW6-10-20241119MSD



Tgt Ion:	42	Resp:	342
Ion Ratio	Lower	Upper	
42	100		
74	165.8	102.7	154.1#
44	17.3	34.1	51.1#



#4

2-Fluorophenol

Concen: 0.239 ng

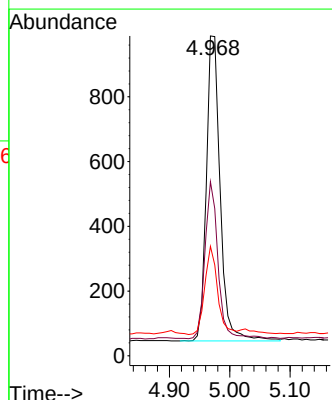
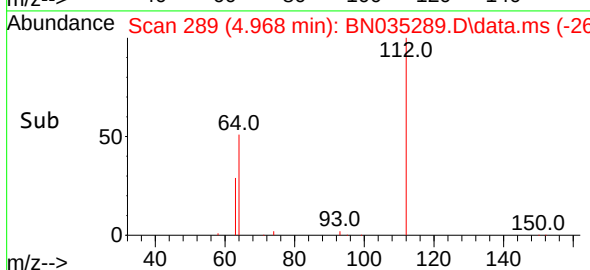
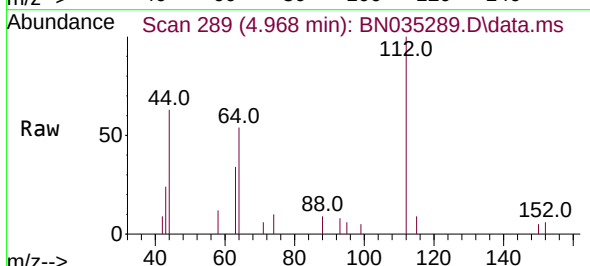
RT: 4.968 min Scan# 289

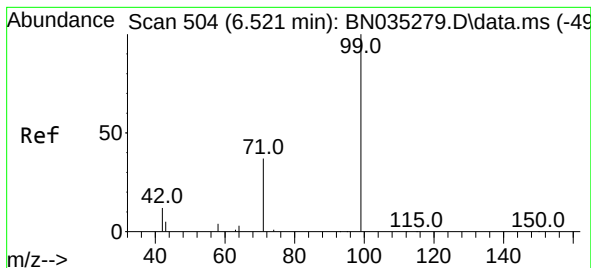
Delta R.T. 0.000 min

Lab File: BN035289.D

Acq: 25 Nov 2024 18:08

Tgt Ion:	112	Resp:	1508
Ion Ratio	Lower	Upper	
112	100		
64	48.6	40.4	60.6
63	26.7	23.8	35.8





#5

Phenol-d6

Concen: 0.154 ng

RT: 6.521 min Scan# 504

Delta R.T. 0.000 min

Lab File: BN035289.D

Acq: 25 Nov 2024 18:08

Instrument :

BNA_N

ClientSampleId :

BPOW6-10-20241119MSD

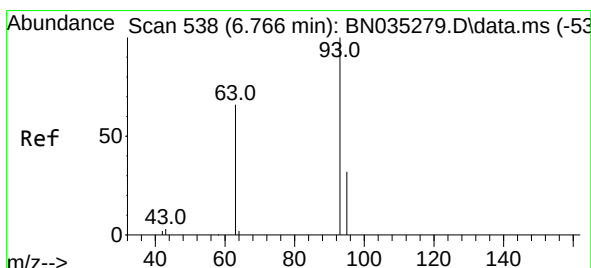
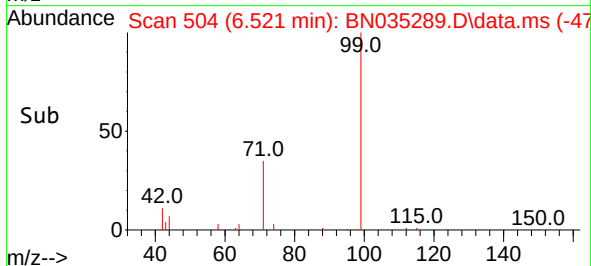
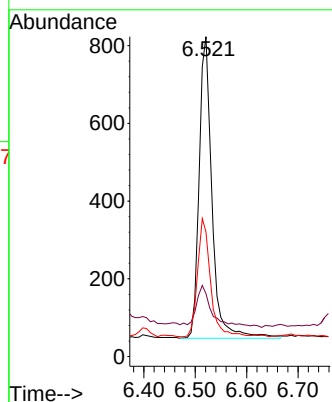
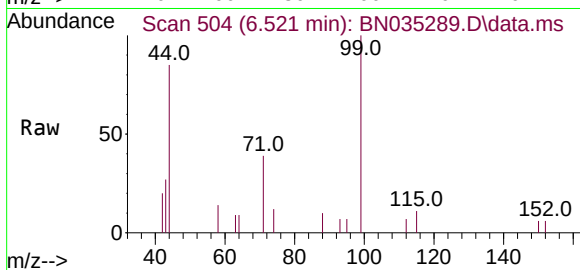
Tgt Ion: 99 Resp: 1353

Ion Ratio Lower Upper

99 100

42 16.9 12.8 19.2

71 39.3 31.4 47.2



#6

bis(2-Chloroethyl)ether

Concen: 0.390 ng

RT: 6.766 min Scan# 538

Delta R.T. 0.000 min

Lab File: BN035289.D

Acq: 25 Nov 2024 18:08

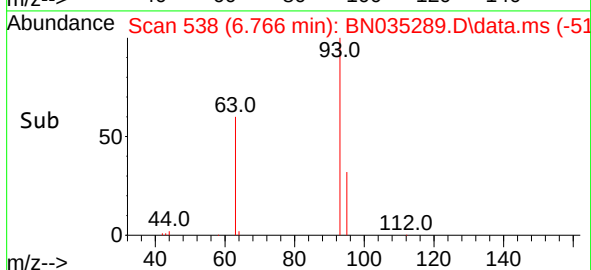
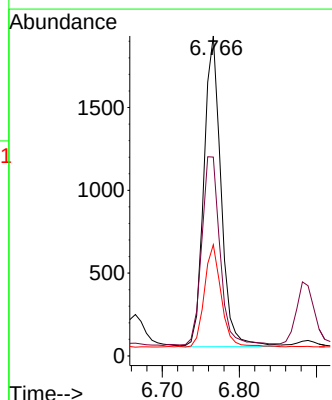
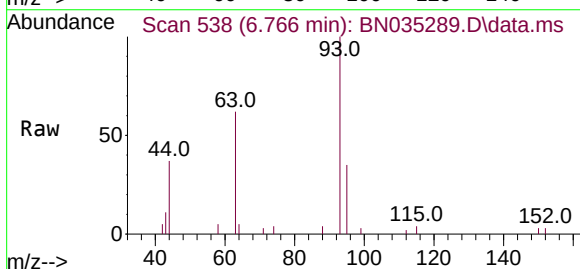
Tgt Ion: 93 Resp: 2896

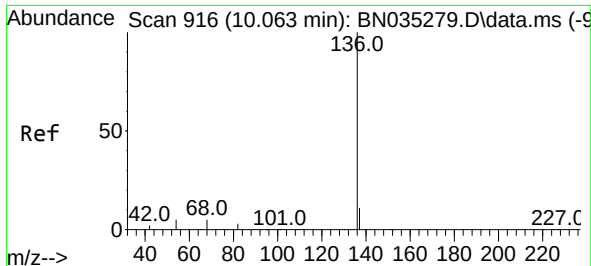
Ion Ratio Lower Upper

93 100

63 64.9 52.3 78.5

95 32.0 25.5 38.3

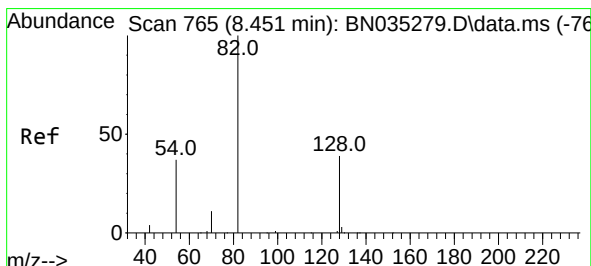
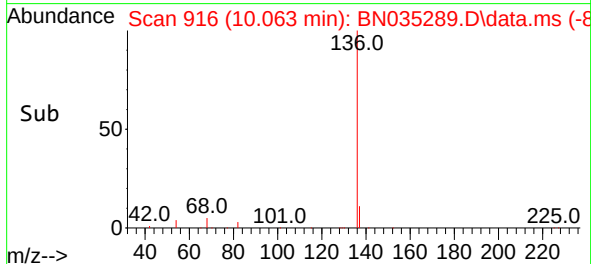
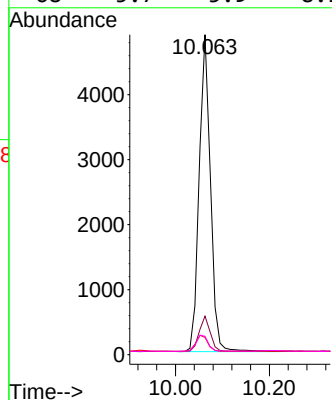
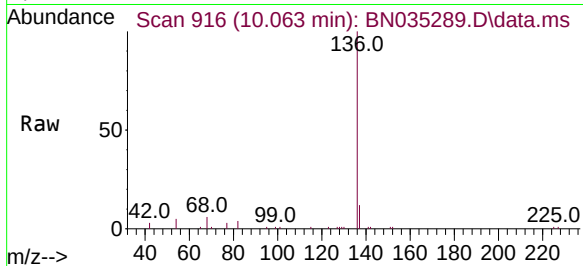




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.063 min Scan# 916
Delta R.T. 0.000 min
Lab File: BN035289.D
Acq: 25 Nov 2024 18:08

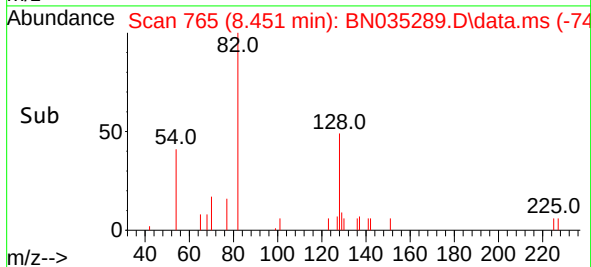
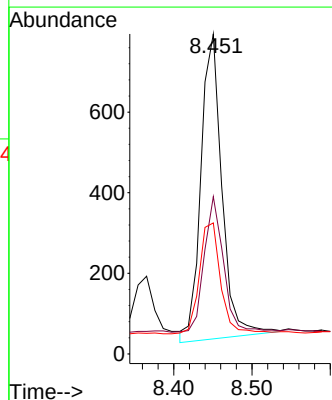
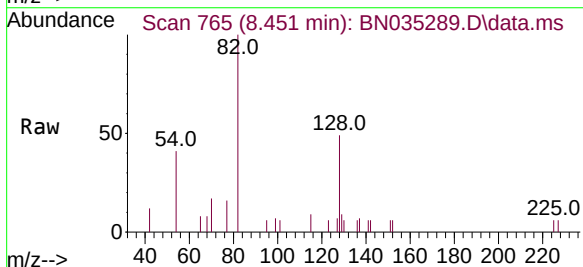
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BNA_N
ClientSampleId :
BPOW6-10-20241119MSD

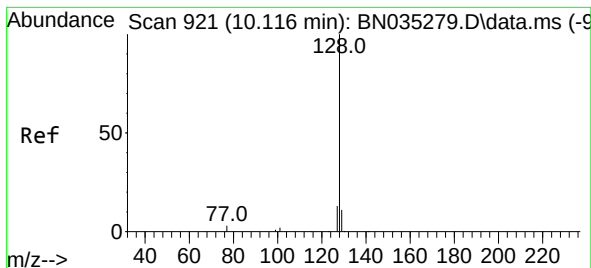
Tgt Ion:	136	Resp:	8134
Ion	Ratio	Lower	Upper
136	100		
137	12.0	9.7	14.5
54	5.4	5.3	7.9
68	5.7	5.9	8.9



#8
Nitrobenzene-d5
Concen: 0.215 ng
RT: 8.451 min Scan# 765
Delta R.T. 0.000 min
Lab File: BN035289.D
Acq: 25 Nov 2024 18:08

Tgt Ion:	82	Resp:	1421
Ion	Ratio	Lower	Upper
82	100		
128	49.1	33.0	49.4
54	40.9	33.3	49.9





#9

Naphthalene

Concen: 0.336 ng

RT: 10.105 min Scan# 91

Delta R.T. -0.011 min

Lab File: BN035289.D

Acq: 25 Nov 2024 18:08

Instrument :

BNA_N

ClientSampleId :

BPOW6-10-20241119MSD

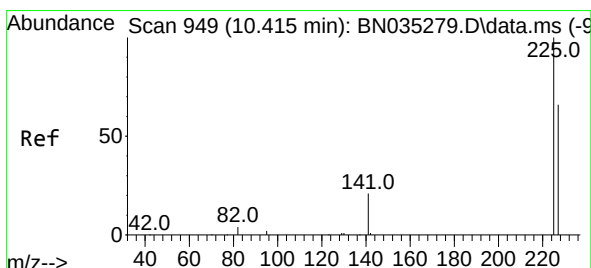
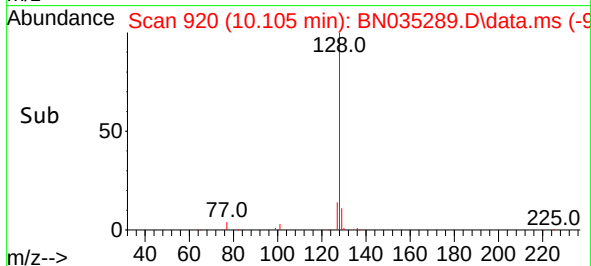
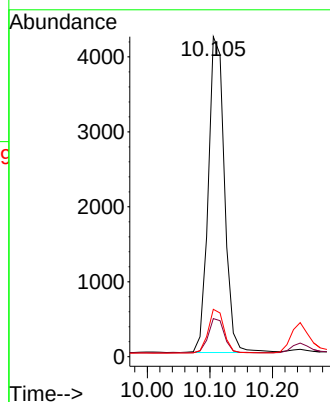
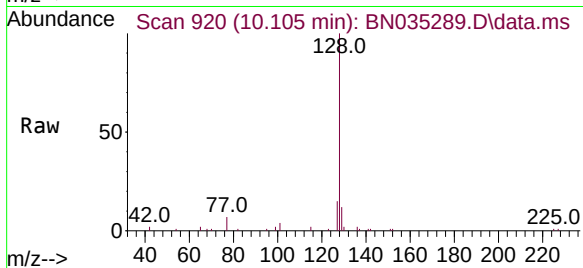
Tgt Ion:128 Resp: 7573

Ion Ratio Lower Upper

128 100

129 11.9 9.6 14.4

127 14.8 11.3 16.9



#10

Hexachlorobutadiene

Concen: 0.245 ng

RT: 10.404 min Scan# 948

Delta R.T. -0.011 min

Lab File: BN035289.D

Acq: 25 Nov 2024 18:08

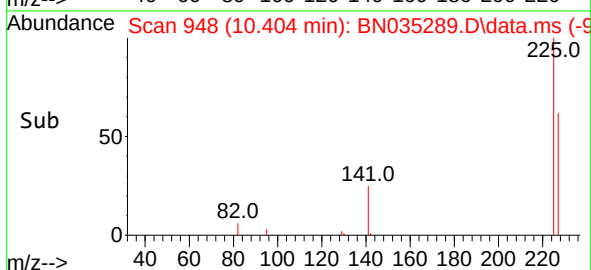
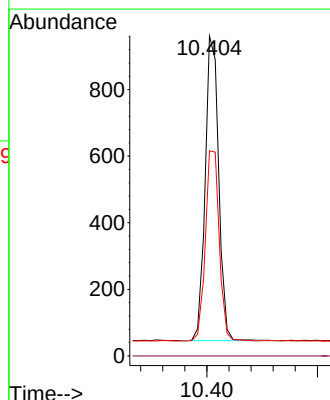
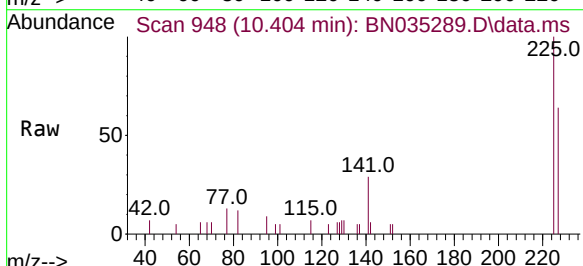
Tgt Ion:225 Resp: 1554

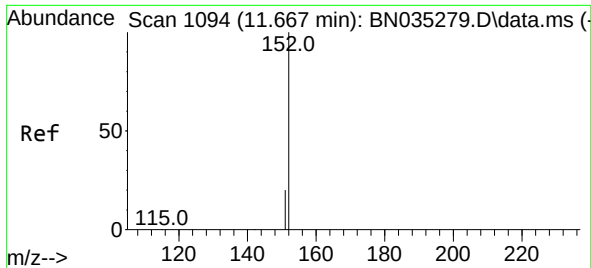
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 64.4 51.3 76.9

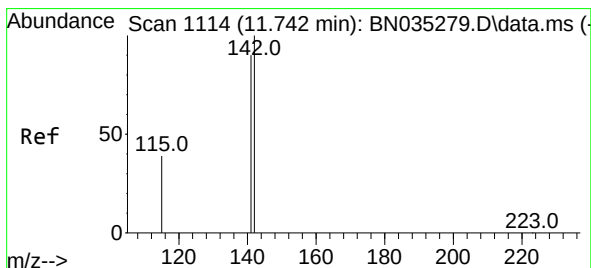
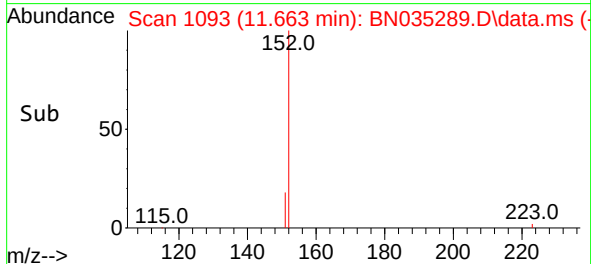
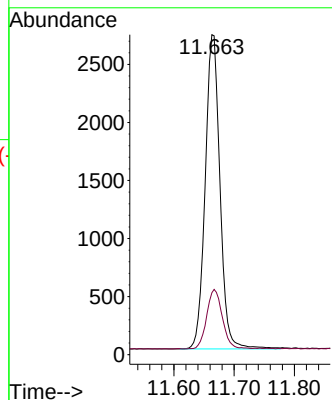
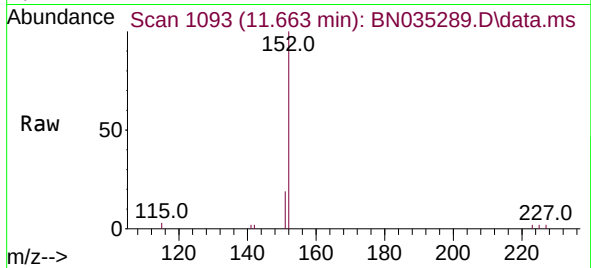




#11
2-Methylnaphthalene-d10
Concen: 0.405 ng
RT: 11.663 min Scan# 1093
Delta R.T. -0.004 min
Lab File: BN035289.D
Acq: 25 Nov 2024 18:08

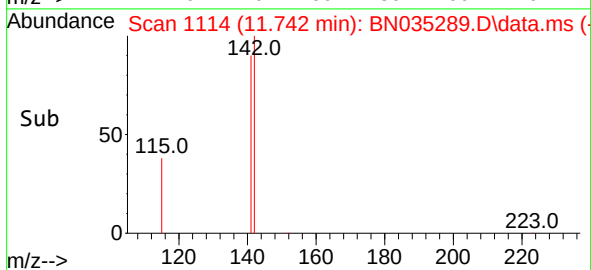
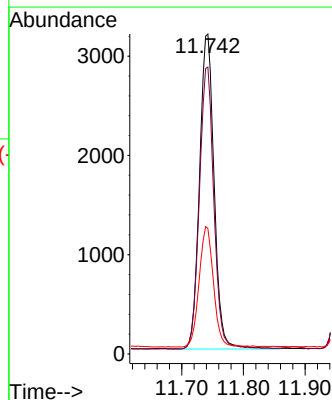
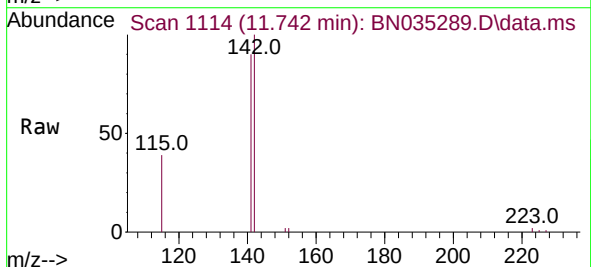
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ClientSampleId :
BPOW6-10-20241119MSD

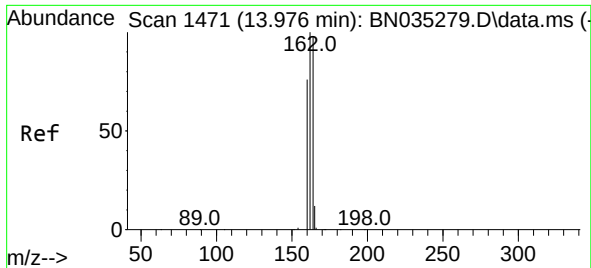
Tgt Ion:152 Resp: 4611
Ion Ratio Lower Upper
152 100
151 20.0 17.2 25.8



#12
2-Methylnaphthalene
Concen: 0.353 ng
RT: 11.742 min Scan# 1114
Delta R.T. 0.000 min
Lab File: BN035289.D
Acq: 25 Nov 2024 18:08

Tgt Ion:142 Resp: 5217
Ion Ratio Lower Upper
142 100
141 89.7 71.8 107.8
115 39.2 32.6 49.0

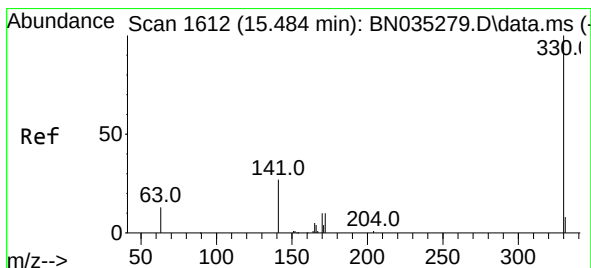
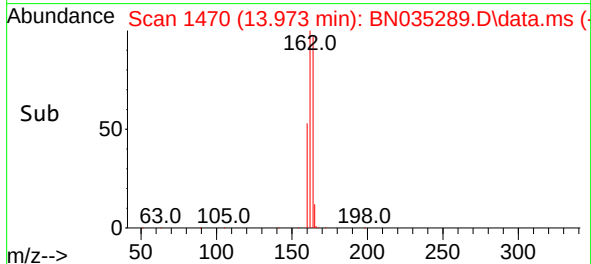
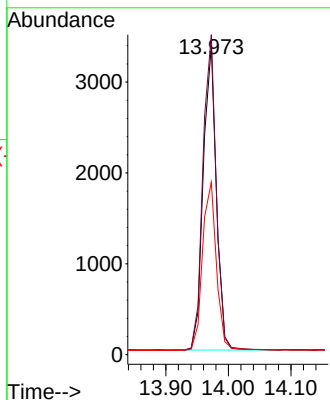
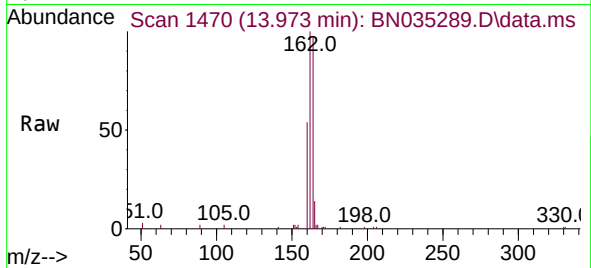




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.973 min Scan# 1471
Delta R.T. -0.004 min
Lab File: BN035289.D
Acq: 25 Nov 2024 18:08

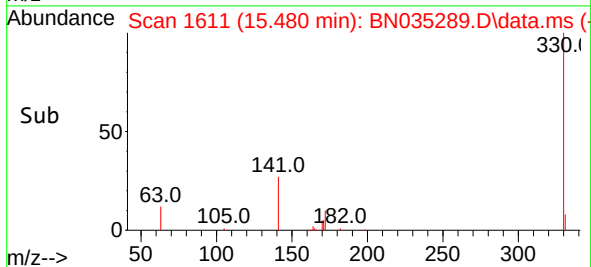
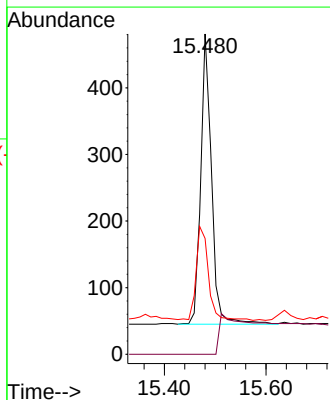
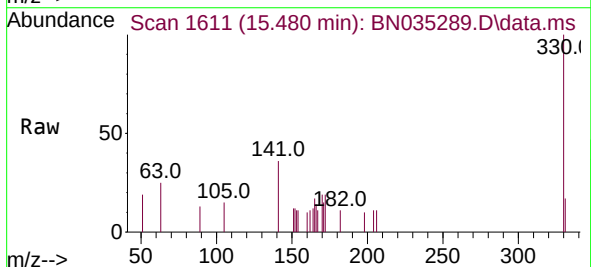
Instrument :
BNA_N
ClientSampleId :
BPOW6-10-20241119MSD

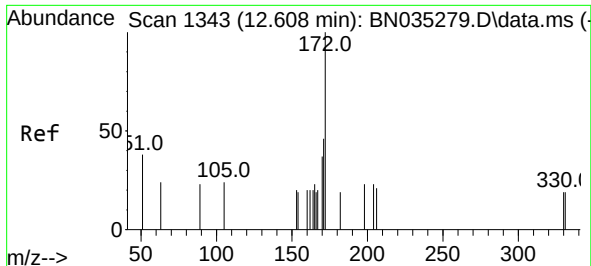
Tgt Ion:164 Resp: 4891
Ion Ratio Lower Upper
164 100
162 103.5 82.0 123.0
160 55.8 63.0 94.4#



#14
2,4,6-Tribromophenol
Concen: 0.278 ng
RT: 15.480 min Scan# 1611
Delta R.T. -0.004 min
Lab File: BN035289.D
Acq: 25 Nov 2024 18:08

Tgt Ion:330 Resp: 693
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 36.4 32.4 48.6

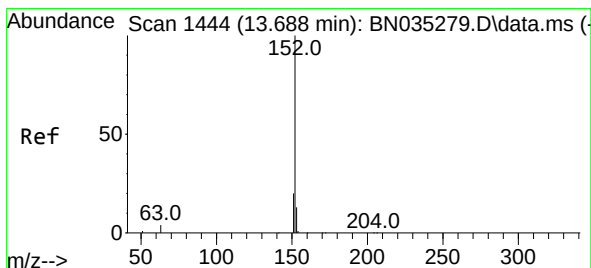
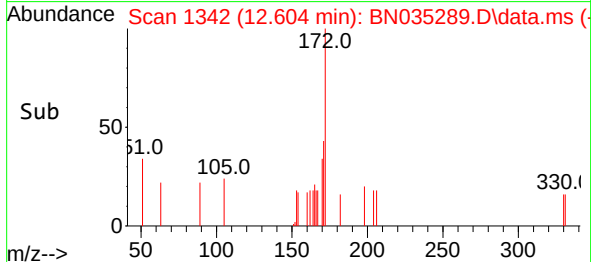
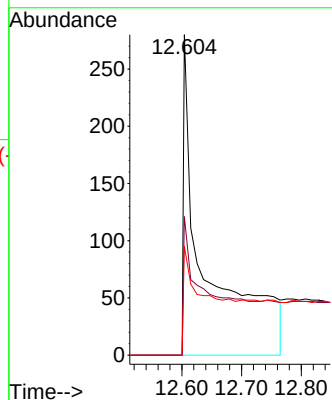
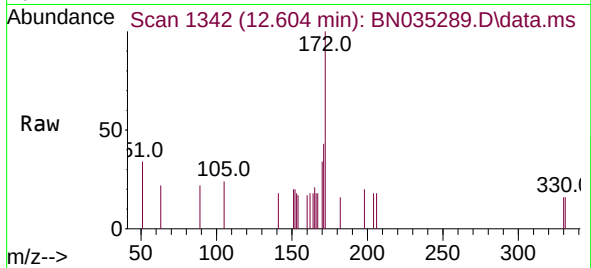




#15
2-Fluorobiphenyl
Concen: 0.261 ng
RT: 12.604 min Scan# 11
Delta R.T. -0.004 min
Lab File: BN035289.D
Acq: 25 Nov 2024 18:08

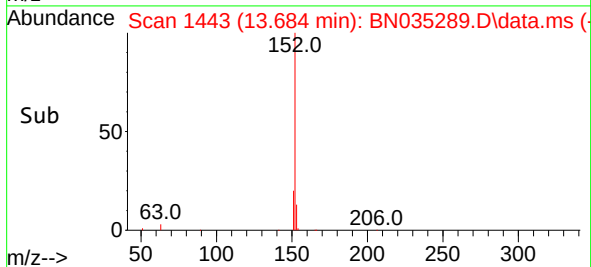
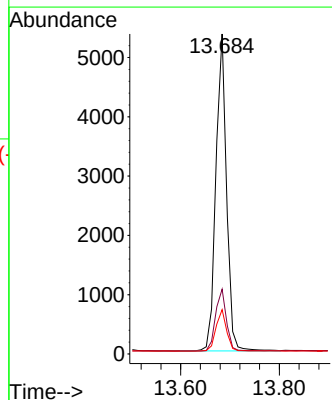
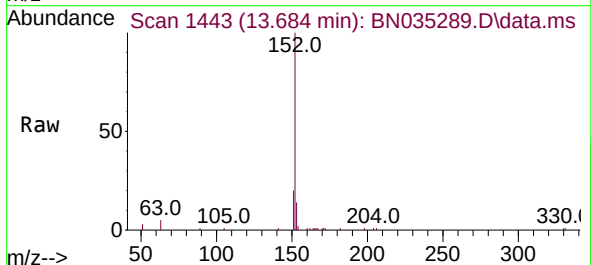
Instrument :
BNA_N
ClientSampleId :
BPOW6-10-20241119MSD

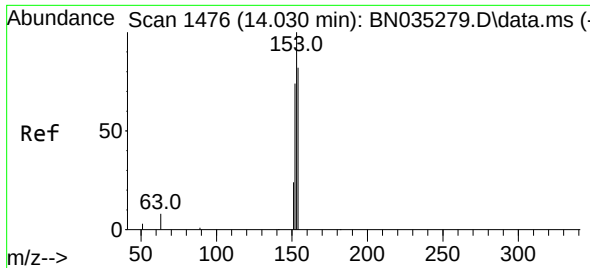
Tgt Ion:	172	Resp:	705
Ion Ratio	Lower	Upper	
172	100		
171	43.2	36.6	55.0
170	33.9	29.7	44.5



#16
Acenaphthylene
Concen: 0.326 ng
RT: 13.684 min Scan# 1443
Delta R.T. -0.004 min
Lab File: BN035289.D
Acq: 25 Nov 2024 18:08

Tgt Ion:	152	Resp:	8019
Ion Ratio	Lower	Upper	
152	100		
151	20.2	15.9	23.9
153	13.2	10.2	15.4

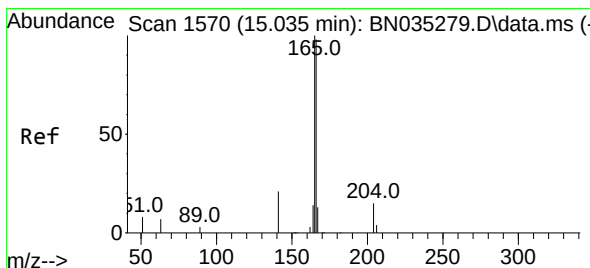
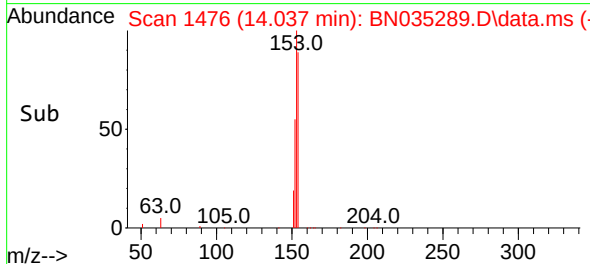
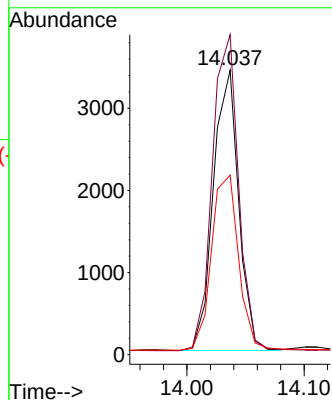
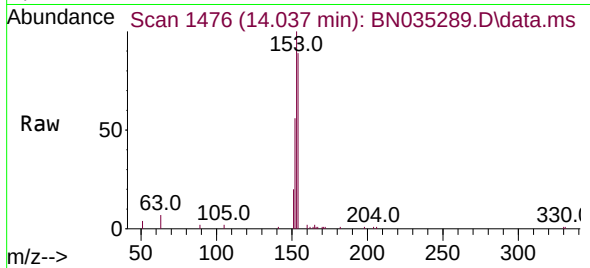




#17
Acenaphthene
Concen: 0.330 ng
RT: 14.037 min Scan# 1476
Delta R.T. 0.007 min
Lab File: BN035289.D
Acq: 25 Nov 2024 18:08

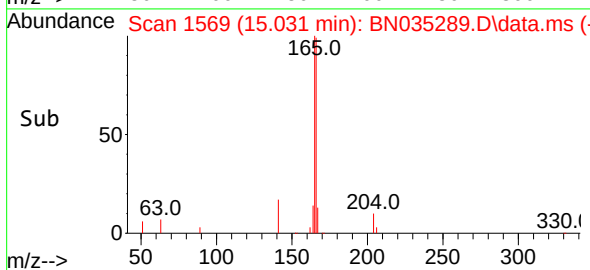
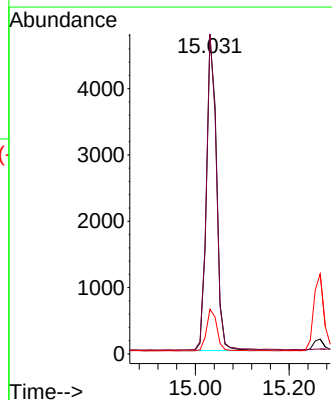
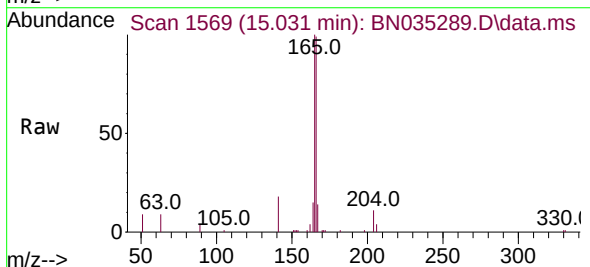
Instrument :
BNA_N
ClientSampleId :
BPOW6-10-20241119MSD

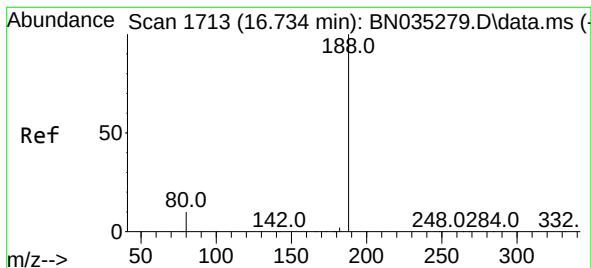
Tgt Ion:154 Resp: 5118
Ion Ratio Lower Upper
154 100
153 117.1 96.1 144.1
152 67.3 72.2 108.2#



#18
Fluorene
Concen: 0.325 ng
RT: 15.031 min Scan# 1569
Delta R.T. -0.004 min
Lab File: BN035289.D
Acq: 25 Nov 2024 18:08

Tgt Ion:166 Resp: 7060
Ion Ratio Lower Upper
166 100
165 99.4 81.2 121.8
167 13.5 10.5 15.7





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.741 min Scan# 11

Delta R.T. 0.007 min

Lab File: BN035289.D

Acq: 25 Nov 2024 18:08

Instrument :

BNA_N

ClientSampleId :

BPOW6-10-20241119MSD

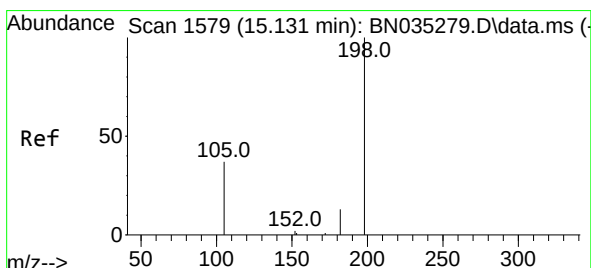
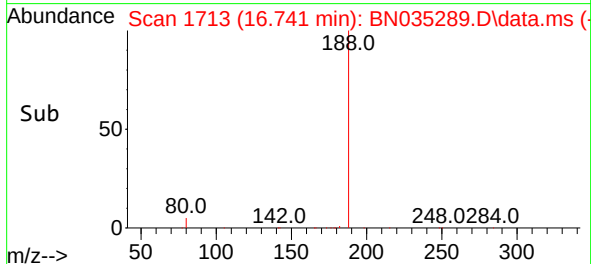
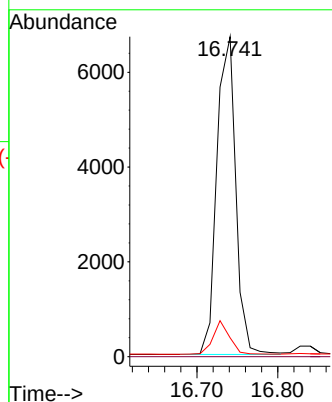
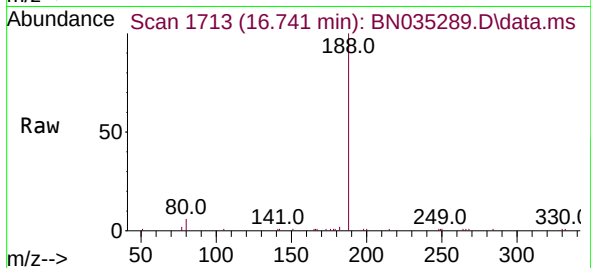
Tgt Ion:188 Resp: 10884

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 5.9 8.9 13.3#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.396 ng

RT: 15.127 min Scan# 1578

Delta R.T. -0.004 min

Lab File: BN035289.D

Acq: 25 Nov 2024 18:08

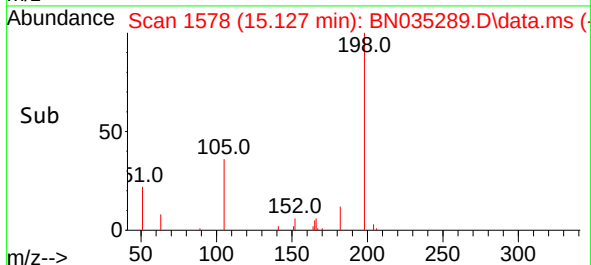
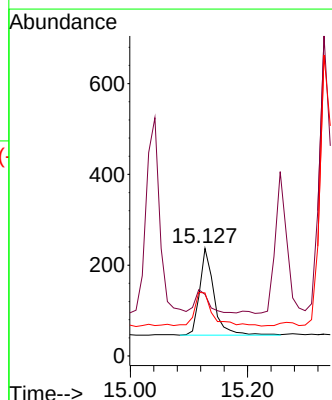
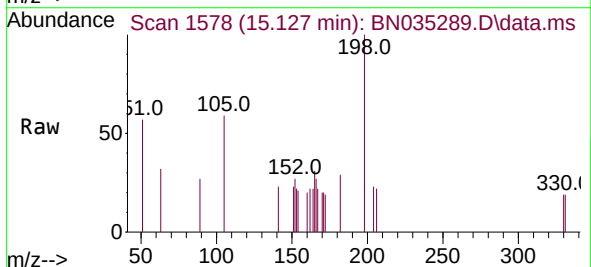
Tgt Ion:198 Resp: 326

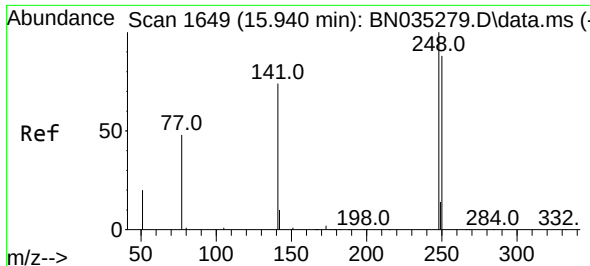
Ion Ratio Lower Upper

198 100

51 57.4 53.6 80.4

105 58.6 47.4 71.2

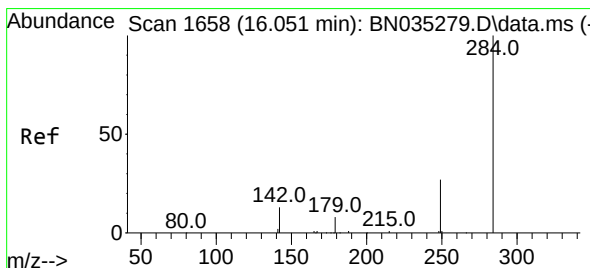
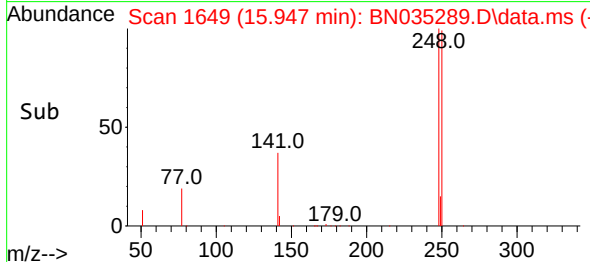
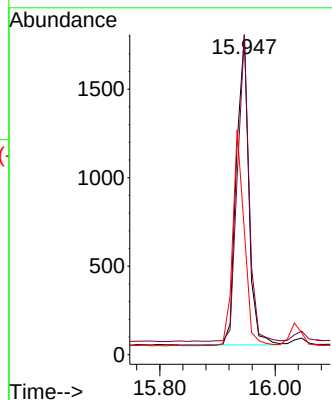
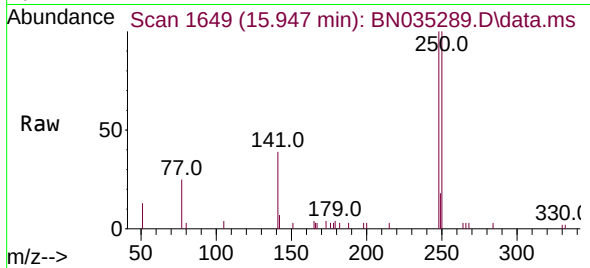




#21
4-Bromophenyl-phenylether
Concen: 0.378 ng
RT: 15.947 min Scan# 1649
Delta R.T. 0.007 min
Lab File: BN035289.D
Acq: 25 Nov 2024 18:08

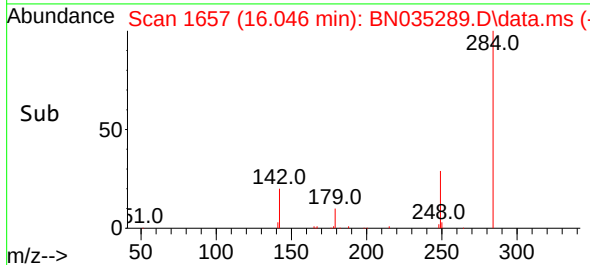
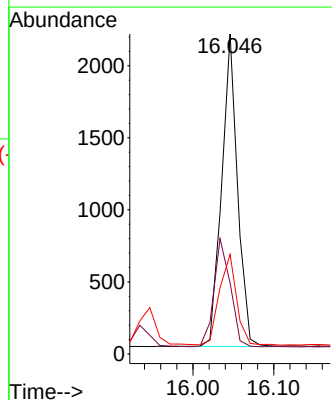
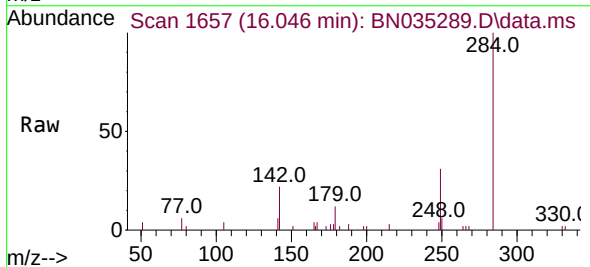
Instrument :
BNA_N
ClientSampleId :
BPOW6-10-20241119MSD

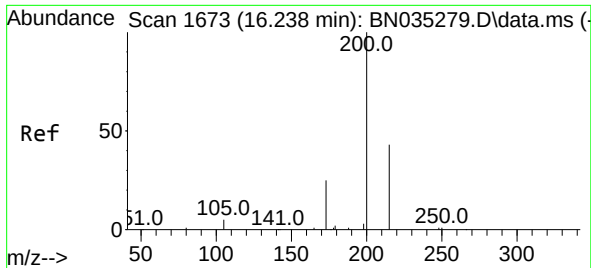
Tgt Ion	Ratio	Lower	Upper
248	100		
250	99.8	74.8	112.2
141	38.7	59.0	88.4



#22
Hexachlorobenzene
Concen: 0.299 ng
RT: 16.046 min Scan# 1657
Delta R.T. -0.005 min
Lab File: BN035289.D
Acq: 25 Nov 2024 18:08

Tgt Ion	Ratio	Lower	Upper
284	100		
142	35.8	28.7	43.1
249	31.3	25.4	38.0

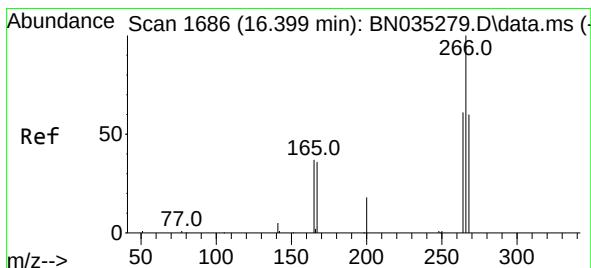
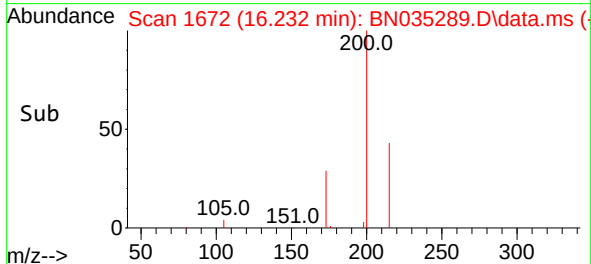
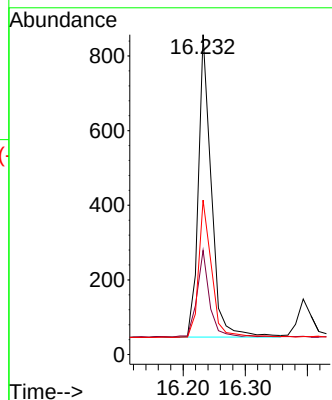
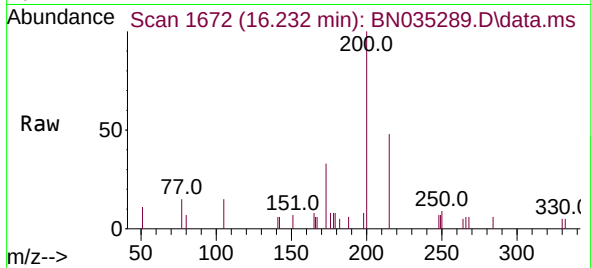




#23
Atrazine
Concen: 0.405 ng
RT: 16.232 min Scan# 1672
Delta R.T. -0.005 min
Lab File: BN035289.D
Acq: 25 Nov 2024 18:08

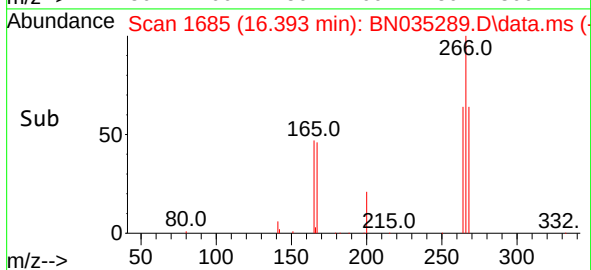
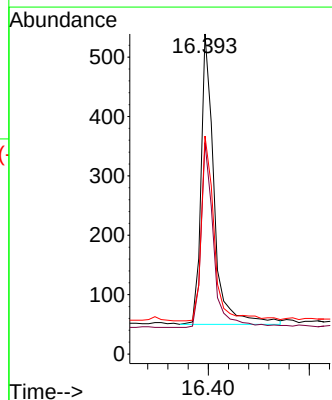
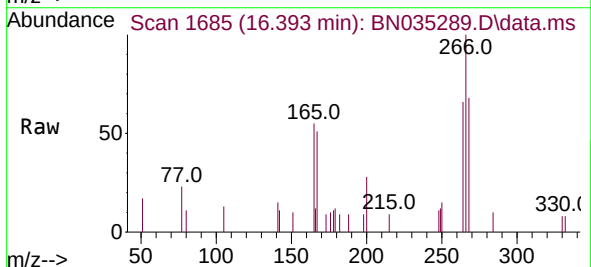
Instrument :
BNA_N
ClientSampleId :
BPOW6-10-20241119MSD

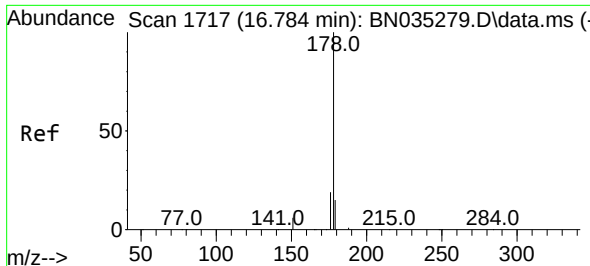
Tgt Ion:200 Resp: 1177
Ion Ratio Lower Upper
200 100
173 32.6 25.8 38.8
215 48.3 38.6 58.0



#24
Pentachlorophenol
Concen: 0.371 ng
RT: 16.393 min Scan# 1685
Delta R.T. -0.006 min
Lab File: BN035289.D
Acq: 25 Nov 2024 18:08

Tgt Ion:266 Resp: 881
Ion Ratio Lower Upper
266 100
264 61.1 49.3 73.9
268 62.9 48.6 73.0

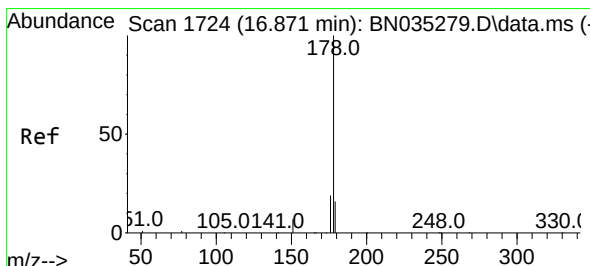
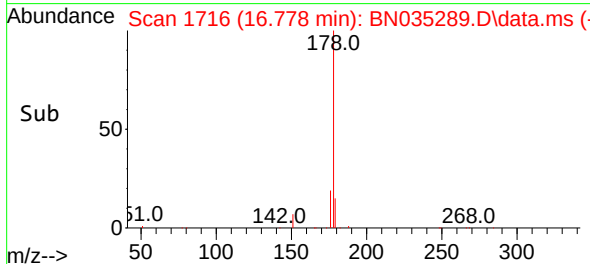
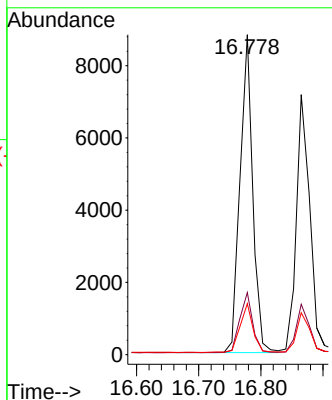
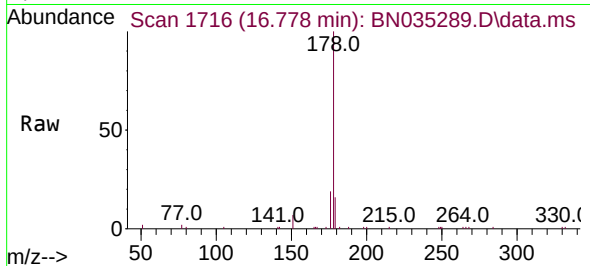




#25
Phenanthrene
Concen: 0.375 ng
RT: 16.778 min Scan# 1716
Delta R.T. -0.005 min
Lab File: BN035289.D
Acq: 25 Nov 2024 18:08

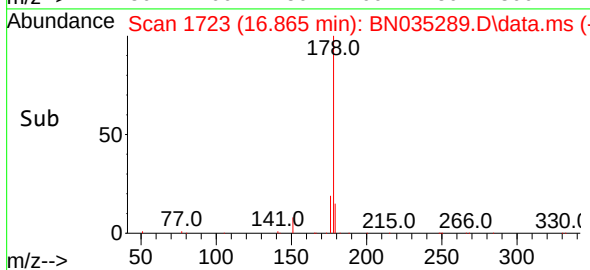
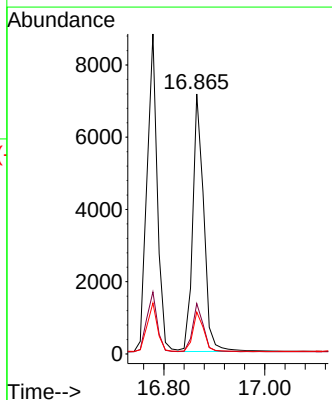
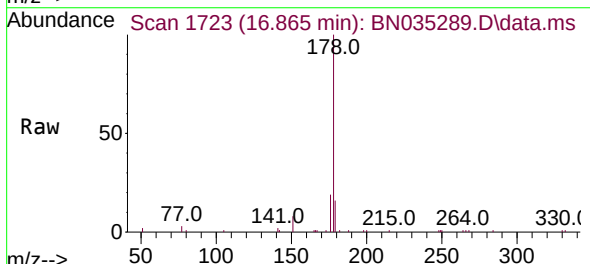
Instrument :
BNA_N
ClientSampleId :
BPOW6-10-20241119MSD

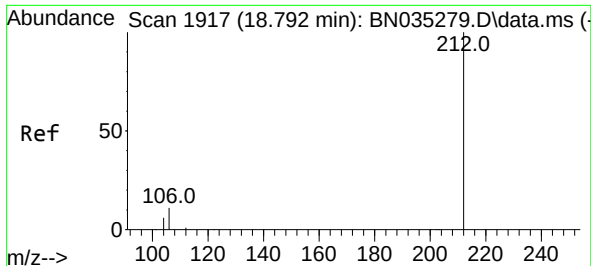
Tgt Ion:178 Resp: 12541
Ion Ratio Lower Upper
178 100
176 19.2 15.4 23.0
179 15.6 12.6 18.8



#26
Anthracene
Concen: 0.377 ng
RT: 16.865 min Scan# 1723
Delta R.T. -0.005 min
Lab File: BN035289.D
Acq: 25 Nov 2024 18:08

Tgt Ion:178 Resp: 10829
Ion Ratio Lower Upper
178 100
176 18.6 15.0 22.4
179 15.4 12.4 18.6

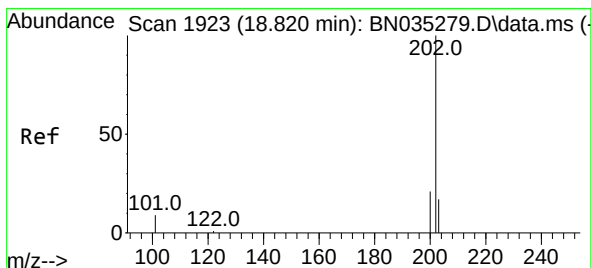
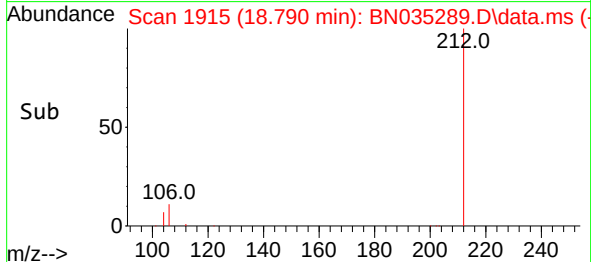
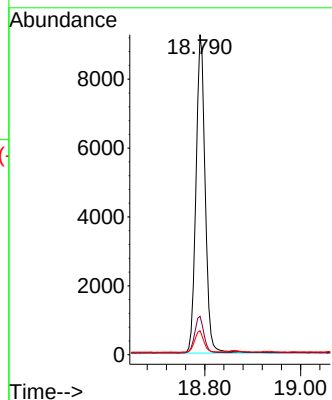
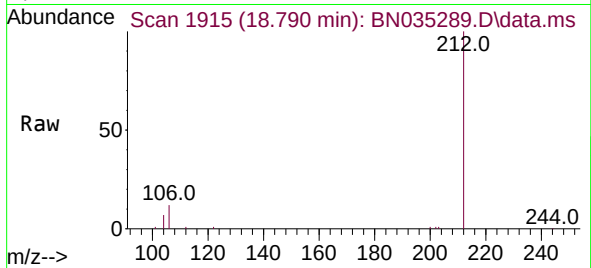




#27
Fluoranthene-d10
Concen: 0.425 ng
RT: 18.790 min Scan# 1917
Delta R.T. -0.002 min
Lab File: BN035289.D
Acq: 25 Nov 2024 18:08

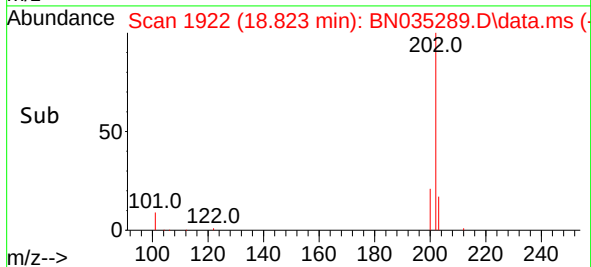
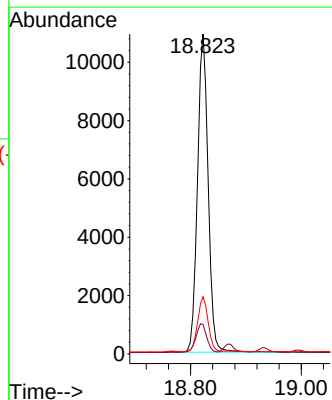
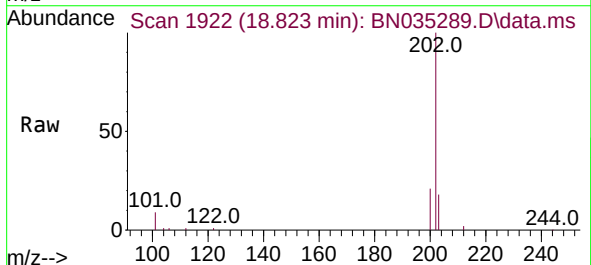
Instrument :
BNA_N
ClientSampleId :
BPOW6-10-20241119MSD

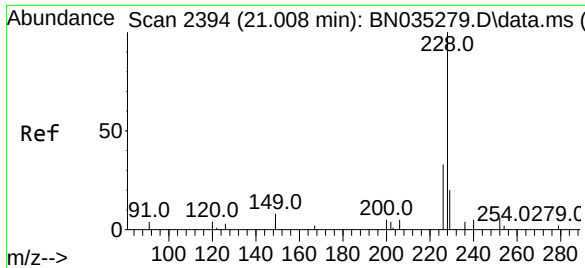
Tgt Ion:212 Resp: 12387
Ion Ratio Lower Upper
212 100
106 11.5 9.8 14.8
104 6.7 5.6 8.4



#28
Fluoranthene
Concen: 0.346 ng
RT: 18.823 min Scan# 1922
Delta R.T. 0.003 min
Lab File: BN035289.D
Acq: 25 Nov 2024 18:08

Tgt Ion:202 Resp: 14601
Ion Ratio Lower Upper
202 100
101 9.4 7.6 11.4
203 16.8 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.006 min Scan# 21

Delta R.T. -0.002 min

Lab File: BN035289.D

Acq: 25 Nov 2024 18:08

Instrument :

BNA_N

ClientSampleId :

BPOW6-10-20241119MSD

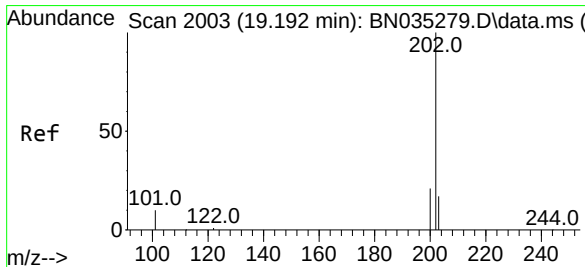
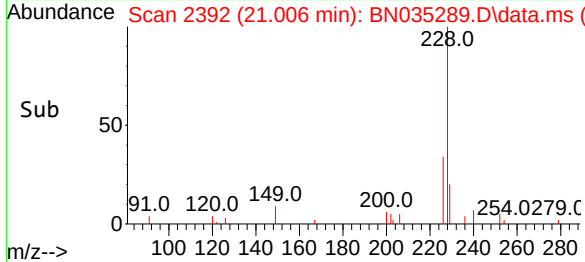
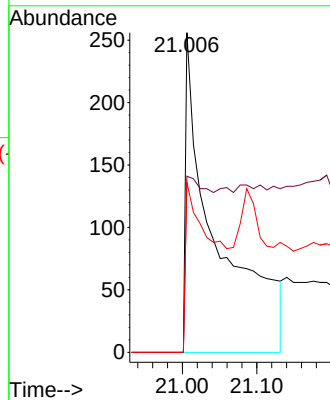
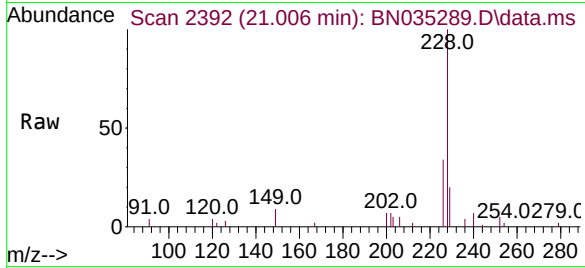
Tgt Ion:240 Resp: 706

Ion Ratio Lower Upper

240 100

120 55.1 54.9 82.3

236 53.1 54.0 81.0#



#30

Pyrene

Concen: 0.575 ng

RT: 19.189 min Scan# 2001

Delta R.T. -0.003 min

Lab File: BN035289.D

Acq: 25 Nov 2024 18:08

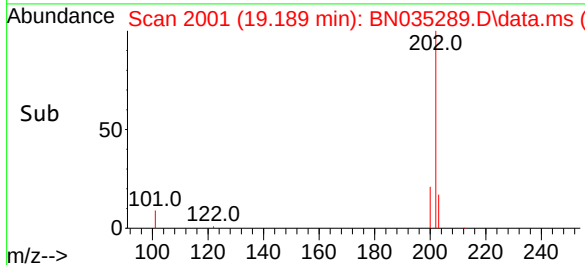
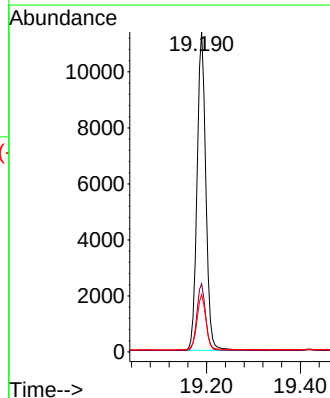
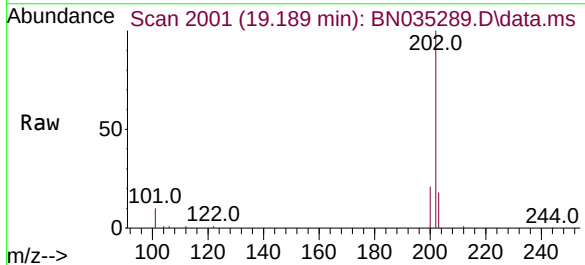
Tgt Ion:202 Resp: 14755

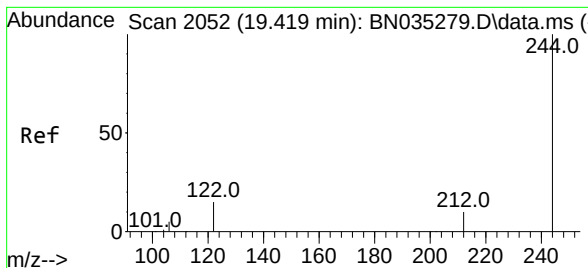
Ion Ratio Lower Upper

202 100

200 21.0 16.8 25.2

203 17.7 14.4 21.6





#31

Terphenyl-d14

Concen: 0.866 ng

RT: 19.422 min Scan# 2052

Delta R.T. 0.003 min

Lab File: BN035289.D

Acq: 25 Nov 2024 18:08

Instrument :

BNA_N

ClientSampleId :

BPOW6-10-20241119MSD

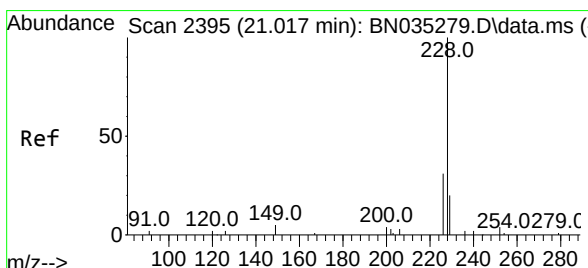
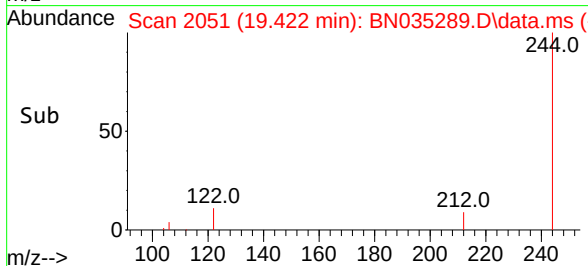
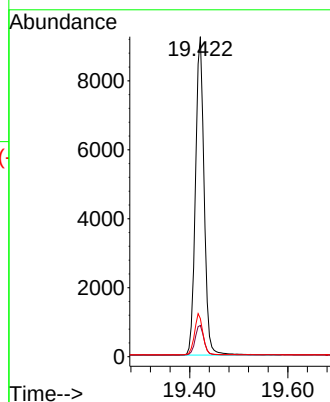
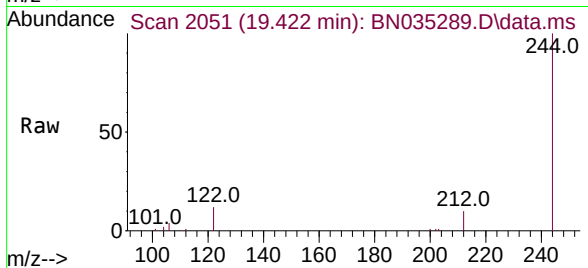
Tgt Ion:244 Resp: 11299

Ion Ratio Lower Upper

244 100

212 9.8 9.4 14.0

122 11.9 13.0 19.4#



#32

Benzo(a)anthracene

Concen: 0.455 ng

RT: 21.015 min Scan# 2393

Delta R.T. -0.002 min

Lab File: BN035289.D

Acq: 25 Nov 2024 18:08

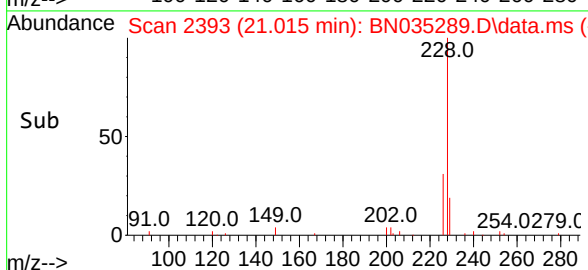
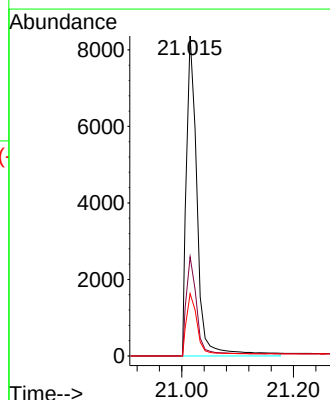
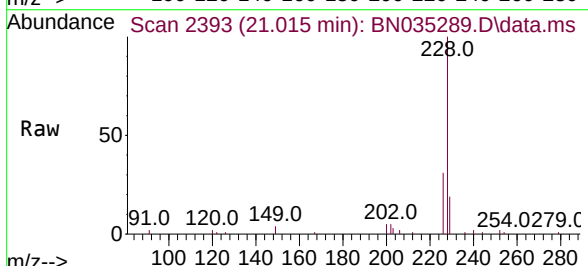
Tgt Ion:228 Resp: 11175

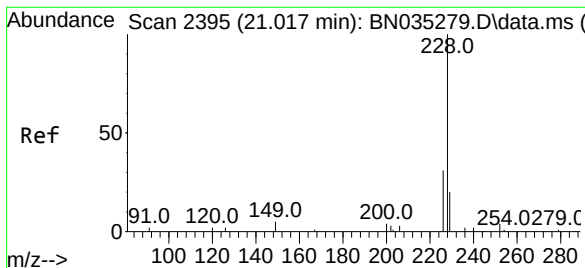
Ion Ratio Lower Upper

228 100

226 31.0 24.7 37.1

229 19.4 16.2 24.2





#33

Chrysene

Concen: 0.455 ng

RT: 21.015 min Scan# 21

Delta R.T. -0.002 min

Lab File: BN035289.D

Acq: 25 Nov 2024 18:08

Instrument :

BNA_N

ClientSampleId :

BPOW6-10-20241119MSD

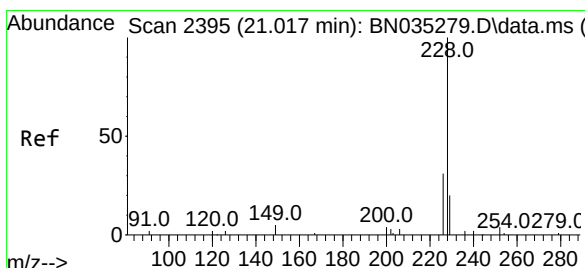
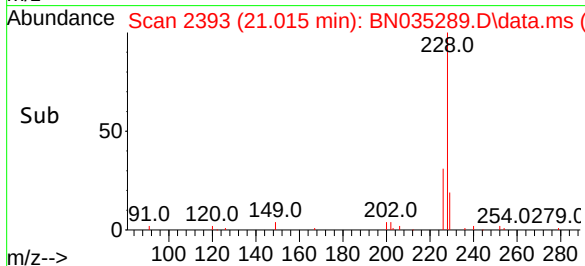
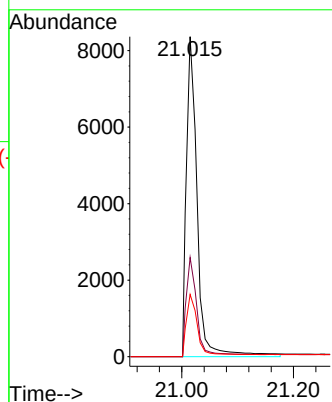
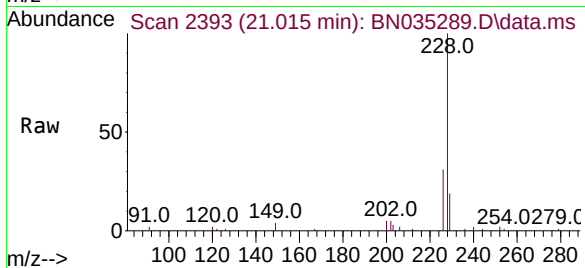
Tgt Ion:228 Resp: 11175

Ion Ratio Lower Upper

228 100

226 31.0 24.7 37.1

229 19.4 16.2 24.2



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.552 ng

RT: 21.006 min Scan# 2392

Delta R.T. -0.011 min

Lab File: BN035289.D

Acq: 25 Nov 2024 18:08

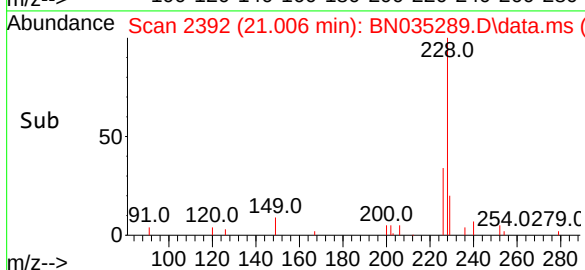
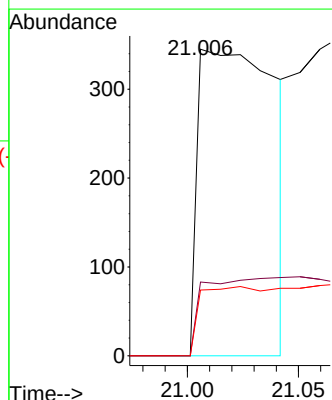
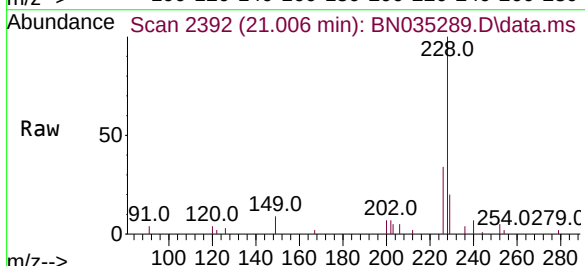
Tgt Ion:149 Resp: 746

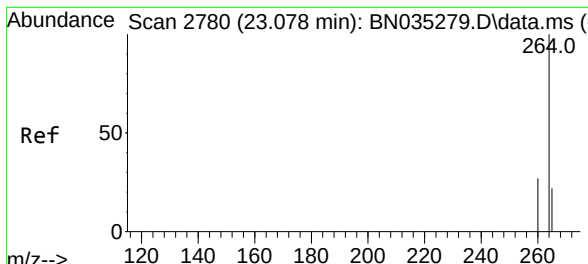
Ion Ratio Lower Upper

149 100

167 0.0 0.0 0.0

279 17.4 13.0 19.6



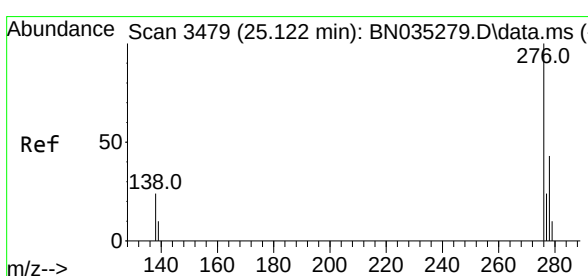
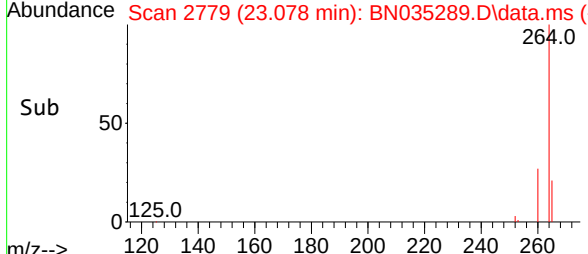
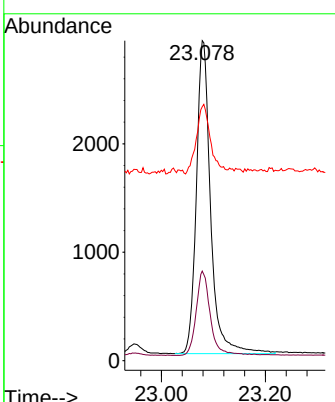
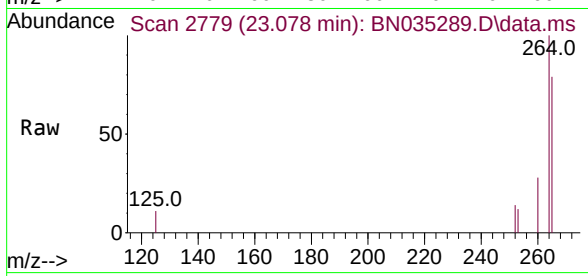


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.078 min Scan# 21
Delta R.T. 0.001 min
Lab File: BN035289.D
Acq: 25 Nov 2024 18:08

Instrument :
BNA_N
ClientSampleId :
BPOW6-10-20241119MSD

Tgt Ion:264 Resp: 5495

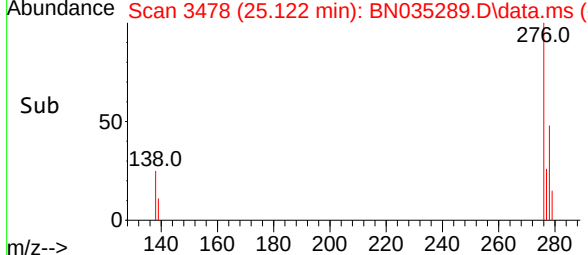
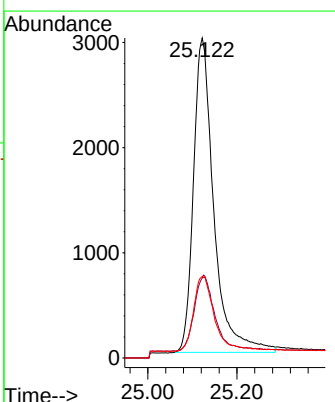
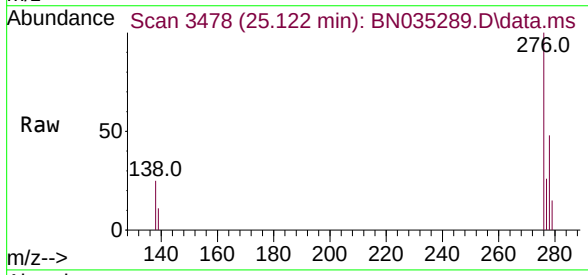
Ion	Ratio	Lower	Upper
264	100		
260	28.0	22.3	33.5
265	79.3	68.6	103.0

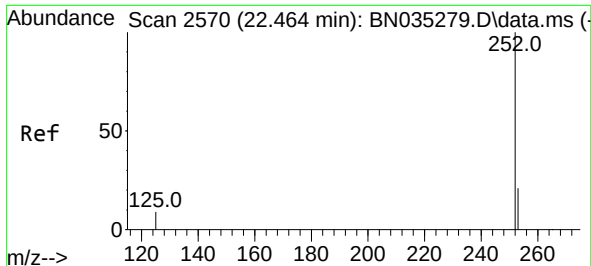


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.422 ng
RT: 25.122 min Scan# 3478
Delta R.T. 0.001 min
Lab File: BN035289.D
Acq: 25 Nov 2024 18:08

Tgt Ion:276 Resp: 9501

Ion	Ratio	Lower	Upper
276	100		
138	23.6	18.8	28.2
277	23.4	18.2	27.4

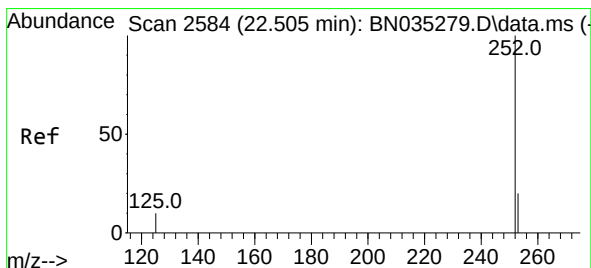
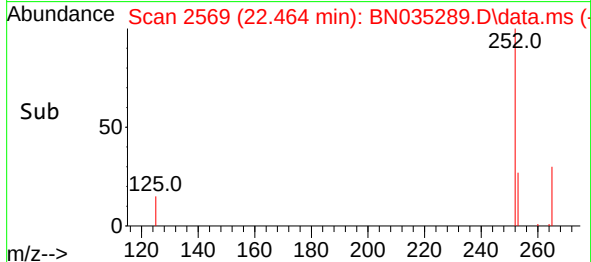
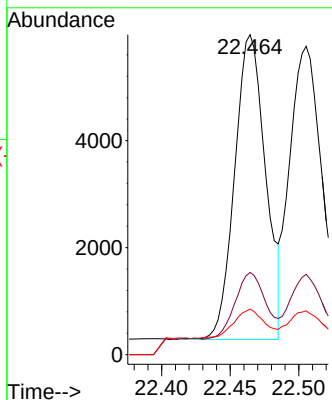
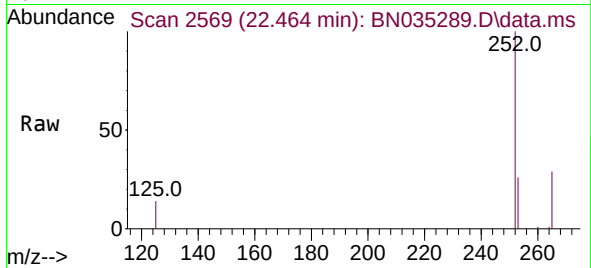




#37
Benzo(b)fluoranthene
Concen: 0.373 ng
RT: 22.464 min Scan# 2570
Delta R.T. 0.001 min
Lab File: BN035289.D
Acq: 25 Nov 2024 18:08

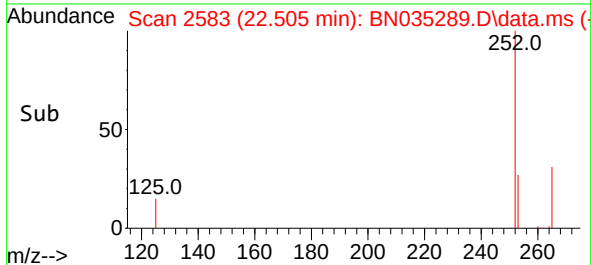
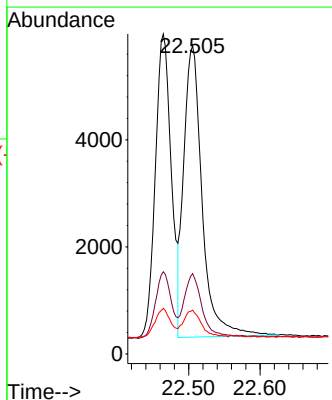
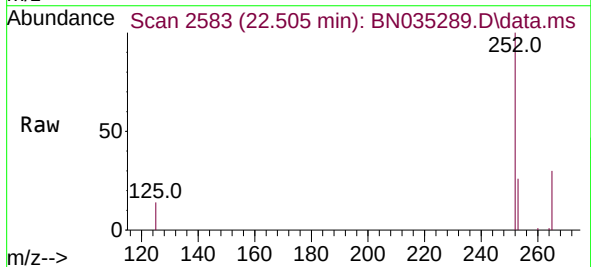
Instrument :
BNA_N
ClientSampleId :
BPOW6-10-20241119MSD

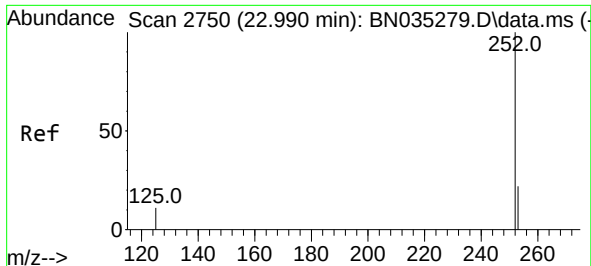
Tgt Ion:252 Resp: 8918
Ion Ratio Lower Upper
252 100
253 25.7 20.2 30.2
125 14.3 12.0 18.0



#38
Benzo(k)fluoranthene
Concen: 0.384 ng
RT: 22.505 min Scan# 2583
Delta R.T. 0.001 min
Lab File: BN035289.D
Acq: 25 Nov 2024 18:08

Tgt Ion:252 Resp: 9698
Ion Ratio Lower Upper
252 100
253 26.1 20.1 30.1
125 14.2 12.7 19.1

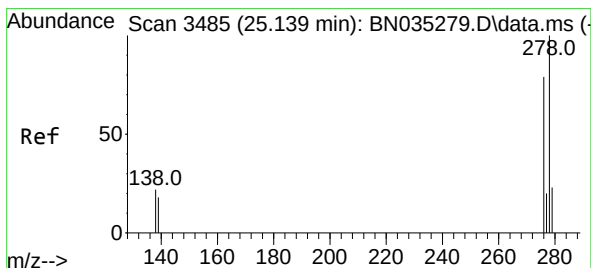
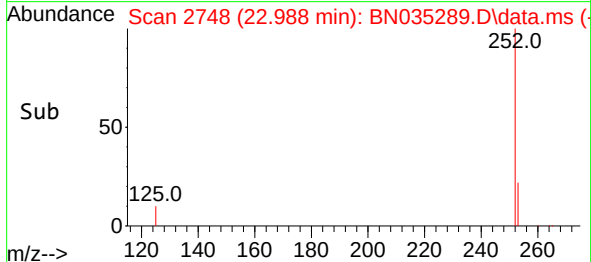
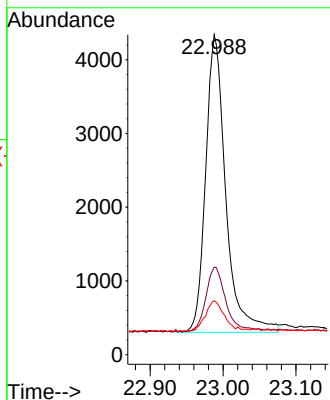
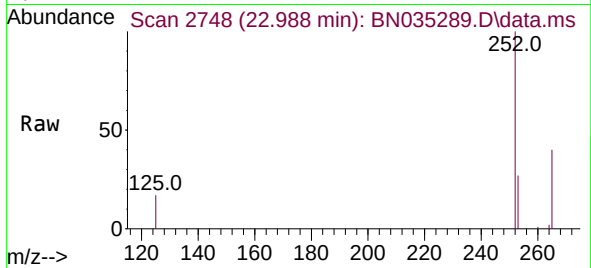




#39
Benzo(a)pyrene
Concen: 0.424 ng
RT: 22.988 min Scan# 21
Delta R.T. -0.002 min
Lab File: BN035289.D
Acq: 25 Nov 2024 18:08

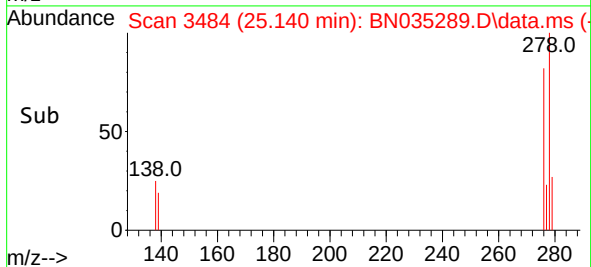
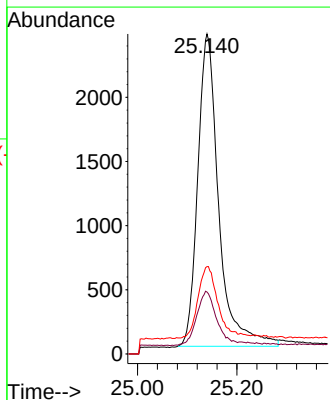
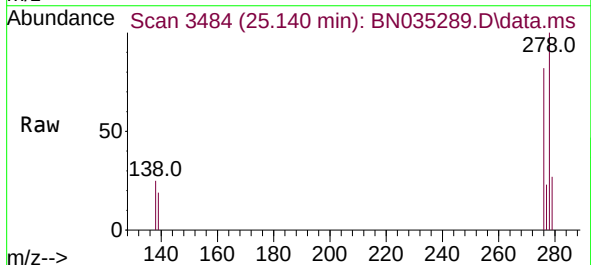
Instrument :
BNA_N
ClientSampleId :
BPOW6-10-20241119MSD

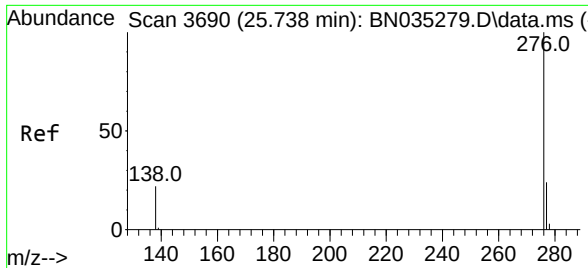
Tgt Ion:	252	Resp:	7735
Ion Ratio	Lower	Upper	
252	100		
253	27.4	22.3	33.5
125	16.8	15.3	22.9



#40
Dibenzo(a,h)anthracene
Concen: 0.419 ng
RT: 25.140 min Scan# 3484
Delta R.T. 0.001 min
Lab File: BN035289.D
Acq: 25 Nov 2024 18:08

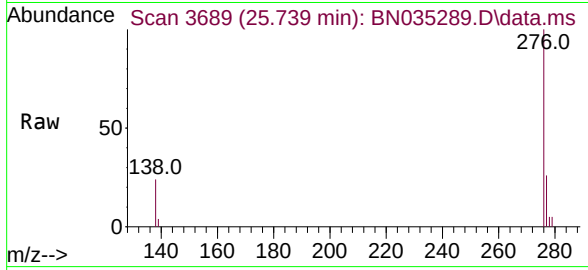
Tgt Ion:	278	Resp:	7121
Ion Ratio	Lower	Upper	
278	100		
139	19.4	17.0	25.6
279	27.3	23.0	34.4



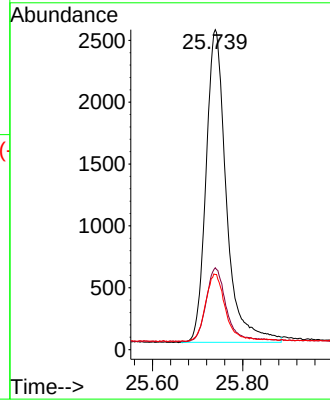
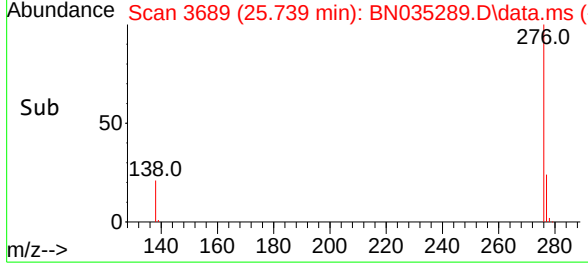


#41
Benzo(g,h,i)perylene
Concen: 0.402 ng
RT: 25.739 min Scan# 30
Delta R.T. 0.001 min
Lab File: BN035289.D
Acq: 25 Nov 2024 18:08

Instrument :
BNA_N
ClientSampleId :
BPOW6-10-20241119MSD



Tgt Ion:	276	Resp:	7906
Ion	Ratio	Lower	Upper
276	100		
277	25.6	21.1	31.7
138	23.5	19.8	29.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
 Data File : BN035290.D
 Acq On : 25 Nov 2024 18:44
 Operator : RC/JU
 Sample : PB165150BS
 Misc :
 ALS Vial : 66 Sample Multiplier: 1

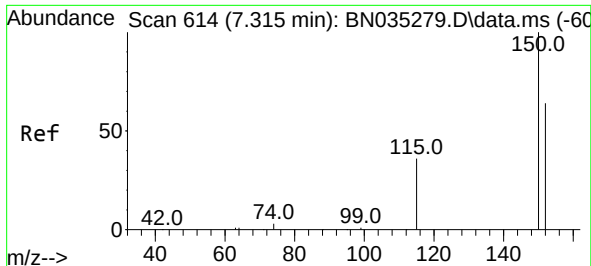
Instrument :
 BNA_N
 ClientSampleId :
 PB165150BS

Quant Time: Nov 26 03:32:01 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 26 02:36:08 2024
 Response via : Initial Calibration

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

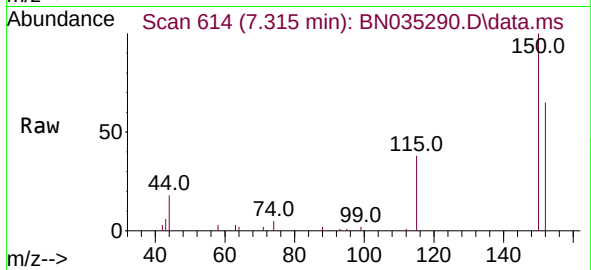
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.315	152	3630	0.400	ng	0.00
7) Naphthalene-d8	10.063	136	8519	0.400	ng	# 0.00
13) Acenaphthene-d10	13.966	164	4791	0.400	ng	#-0.01
19) Phenanthrene-d10	16.734	188	9614	0.400	ng	0.00
29) Chrysene-d12	21.008	240	730	0.400	ng	0.00
35) Perylene-d12	23.081	264	5488	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.975	112	2994	0.437	ng	0.00
5) Phenol-d6	6.520	99	3620	0.378	ng	0.00
8) Nitrobenzene-d5	8.450	82	1711	0.248	ng	0.00
11) 2-Methylnaphthalene-d10	11.663	152	5762	0.483	ng	0.00
14) 2,4,6-Tribromophenol	15.484	330	538	0.220	ng	0.00
15) 2-Fluorobiphenyl	12.608	172	722	0.273	ng	0.00
27) Fluoranthene-d10	18.792	212	8963	0.348	ng	0.00
31) Terphenyl-d14	19.419	244	6215	0.461	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.003	88	1166	0.447	ng	# 87
3) n-Nitrosodimethylamine	3.292	42	1003	0.371	ng	# 74
6) bis(2-Chloroethyl)ether	6.766	93	3531	0.438	ng	94
9) Naphthalene	10.105	128	8426	0.356	ng	99
10) Hexachlorobutadiene	10.415	225	1969	0.296	ng	# 100
12) 2-Methylnaphthalene	11.742	142	5618	0.363	ng	99
16) Acenaphthylene	13.688	152	8047	0.334	ng	100
17) Acenaphthene	14.030	154	5138	0.338	ng	# 87
18) Fluorene	15.035	166	6631	0.312	ng	98
20) 4,6-Dinitro-2-methylph...	15.131	198	262	0.378	ng	95
21) 4-Bromophenyl-phenylether	15.939	248	2264	0.371	ng	97
22) Hexachlorobenzene	16.051	284	2814	0.322	ng	98
23) Atrazine	16.237	200	929	0.362	ng	97
24) Pentachlorophenol	16.399	266	706	0.337	ng	97
25) Phenanthrene	16.771	178	10143	0.343	ng	100
26) Anthracene	16.870	178	8875	0.350	ng	99
28) Fluoranthene	18.820	202	10421	0.280	ng	99
30) Pyrene	19.187	202	9974	0.376	ng	99
32) Benzo(a)anthracene	21.017	228	8490	0.334	ng	99
33) Chrysene	21.017	228	8490	0.334	ng	99
34) Bis(2-ethylhexyl)phtha...	21.008	149	560	0.401	ng	# 62
36) Indeno(1,2,3-cd)pyrene	25.124	276	8459	0.376	ng	99
37) Benzo(b)fluoranthene	22.464	252	7319	0.307	ng	98
38) Benzo(k)fluoranthene	22.505	252	8291	0.329	ng	98
39) Benzo(a)pyrene	22.990	252	6610	0.363	ng	98
40) Dibenzo(a,h)anthracene	25.142	278	6393	0.376	ng	97
41) Benzo(g,h,i)perylene	25.741	276	7117	0.362	ng	98

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

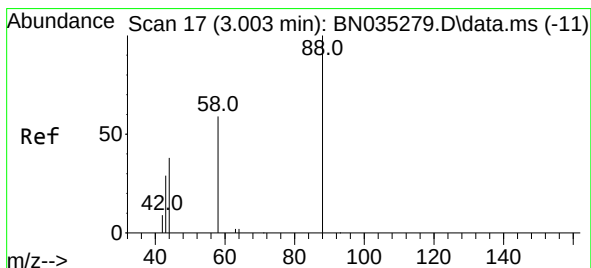
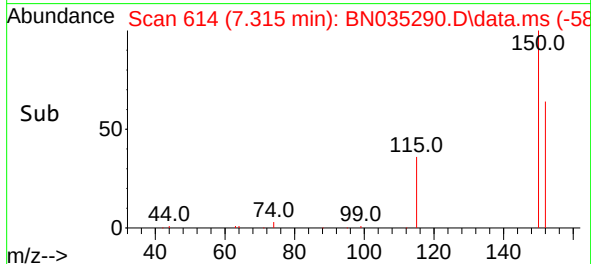
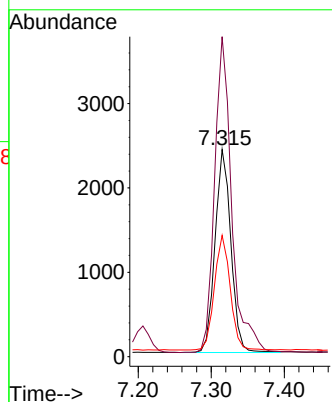


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.315 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035290.D
Acq: 25 Nov 2024 18:44

Instrument :
BNA_N
ClientSampleId :
PB165150BS

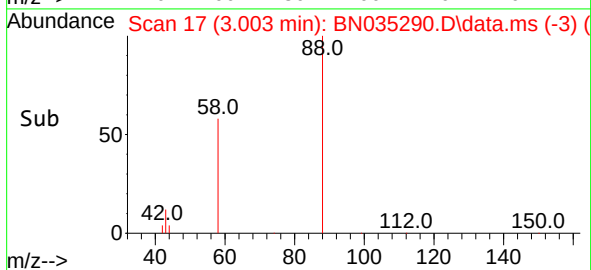
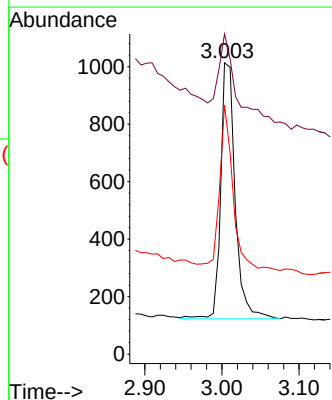
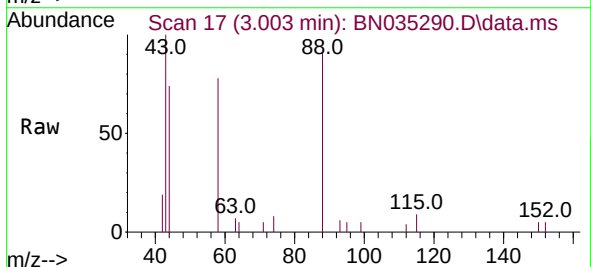


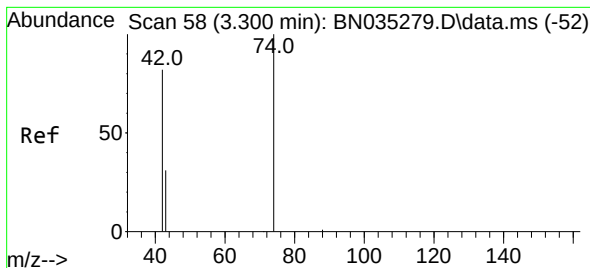
Tgt Ion:152 Resp: 3630
Ion Ratio Lower Upper
152 100
150 154.4 124.5 186.7
115 58.5 47.8 71.8



#2
1,4-Dioxane
Concen: 0.447 ng
RT: 3.003 min Scan# 17
Delta R.T. 0.000 min
Lab File: BN035290.D
Acq: 25 Nov 2024 18:44

Tgt Ion: 88 Resp: 1166
Ion Ratio Lower Upper
88 100
43 41.9 48.1 72.1#
58 59.9 46.9 70.3





#3

n-Nitrosodimethylamine

Concen: 0.371 ng

RT: 3.292 min Scan# 51

Delta R.T. -0.008 min

Lab File: BN035290.D

Acq: 25 Nov 2024 18:44

Instrument :

BNA_N

ClientSampleId :

PB165150BS

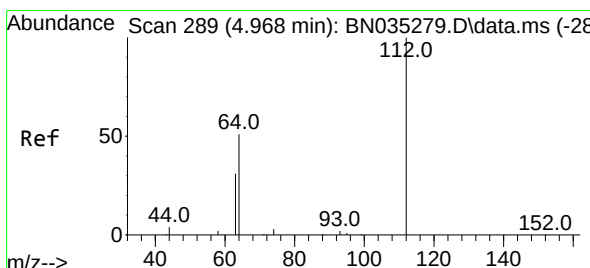
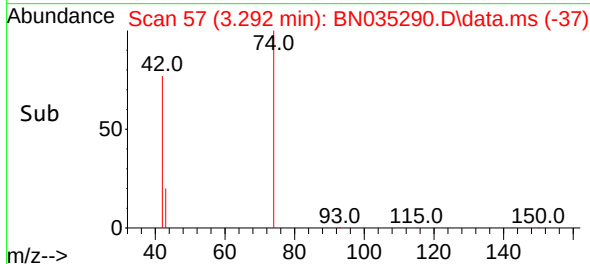
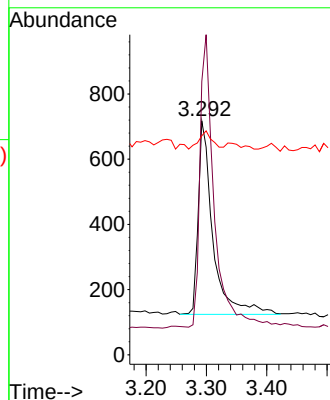
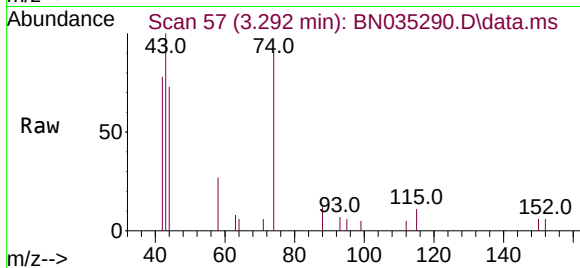
Tgt Ion: 42 Resp: 1003

Ion Ratio Lower Upper

42 100

74 147.2 102.7 154.1

44 8.2 34.1 51.1#



#4

2-Fluorophenol

Concen: 0.437 ng

RT: 4.975 min Scan# 290

Delta R.T. 0.007 min

Lab File: BN035290.D

Acq: 25 Nov 2024 18:44

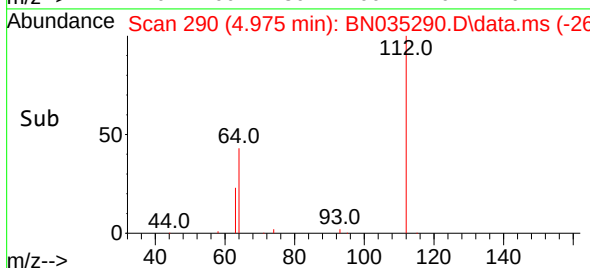
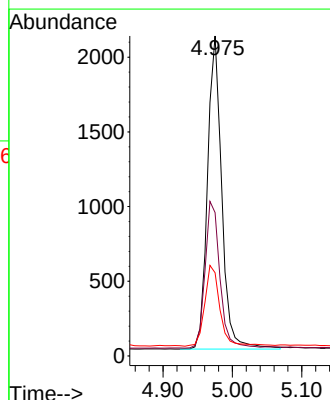
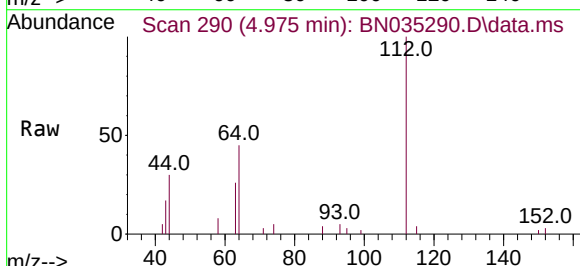
Tgt Ion: 112 Resp: 2994

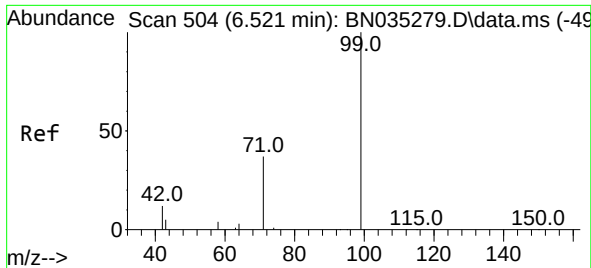
Ion Ratio Lower Upper

112 100

64 48.5 40.4 60.6

63 27.5 23.8 35.8

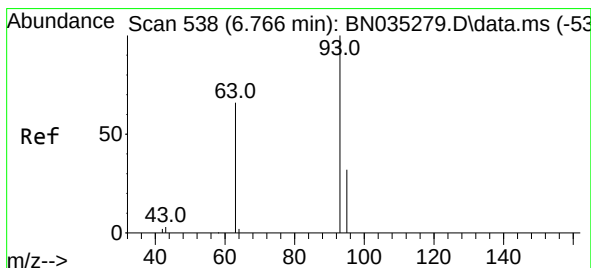
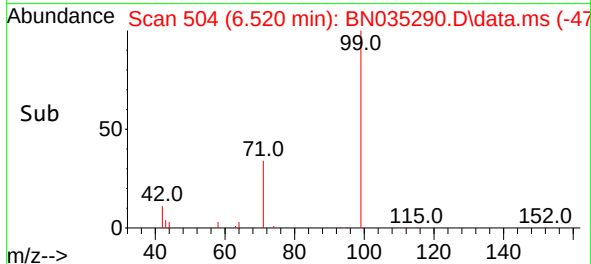
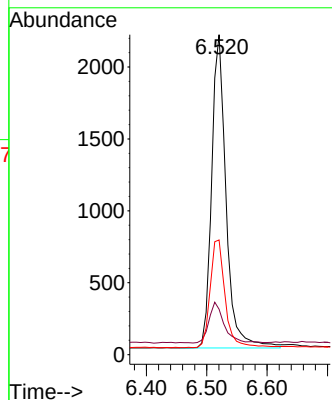
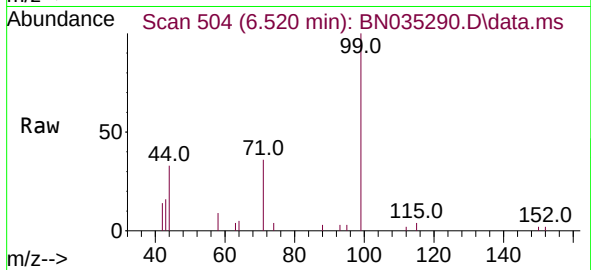




#5
Phenol-d6
Concen: 0.378 ng
RT: 6.520 min Scan# 504
Delta R.T. -0.000 min
Lab File: BN035290.D
Acq: 25 Nov 2024 18:44

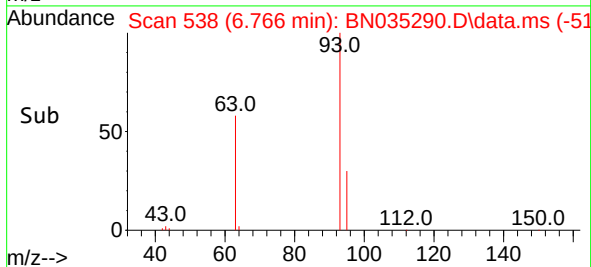
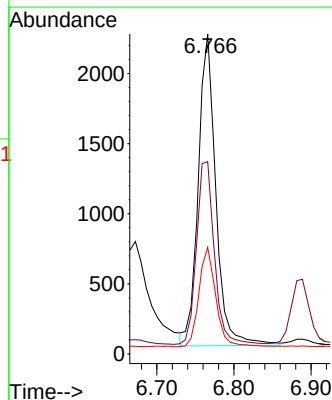
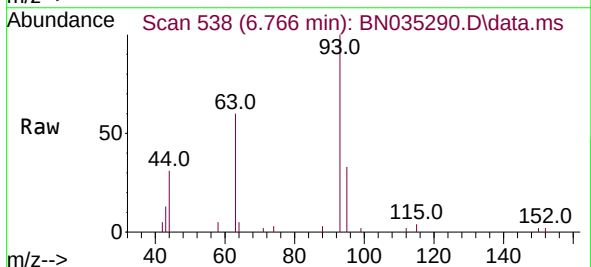
Instrument :
BNA_N
ClientSampleId :
PB165150BS

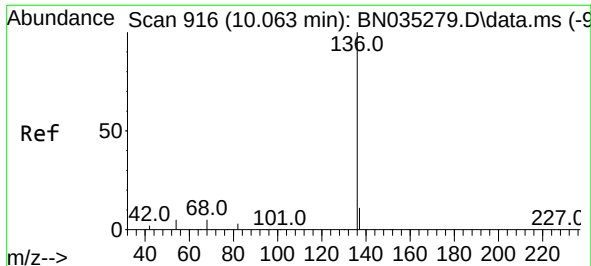
Tgt Ion: 99 Resp: 3620
Ion Ratio Lower Upper
99 100
42 13.8 12.8 19.2
71 35.9 31.4 47.2



#6
bis(2-Chloroethyl)ether
Concen: 0.438 ng
RT: 6.766 min Scan# 538
Delta R.T. -0.000 min
Lab File: BN035290.D
Acq: 25 Nov 2024 18:44

Tgt Ion: 93 Resp: 3531
Ion Ratio Lower Upper
93 100
63 59.4 52.3 78.5
95 30.4 25.5 38.3

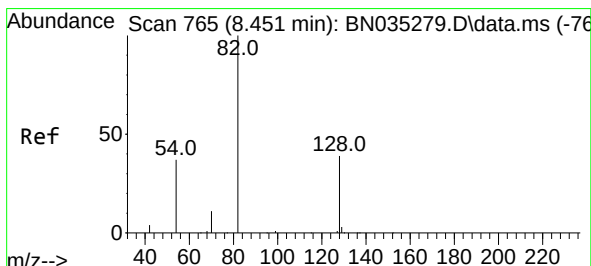
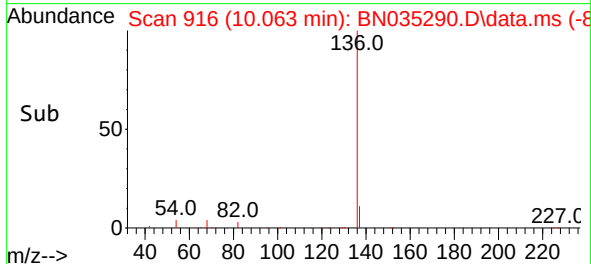
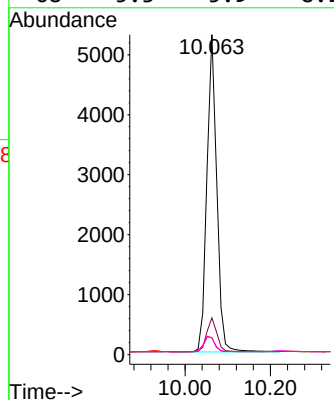
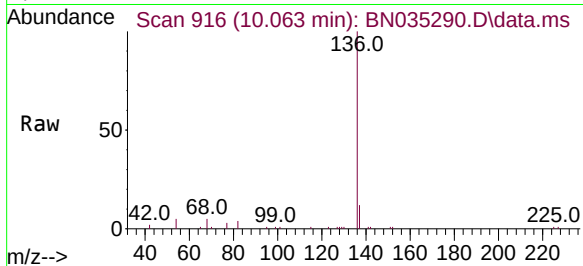




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.063 min Scan# 916
Delta R.T. -0.000 min
Lab File: BN035290.D
Acq: 25 Nov 2024 18:44

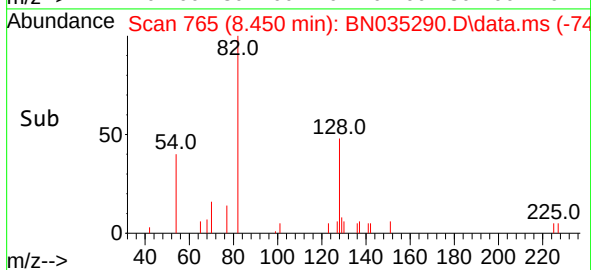
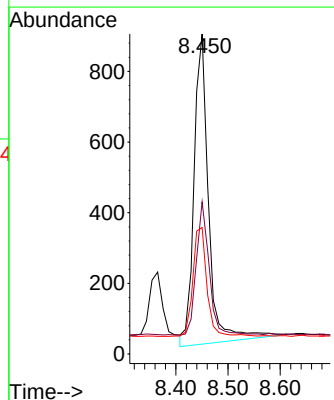
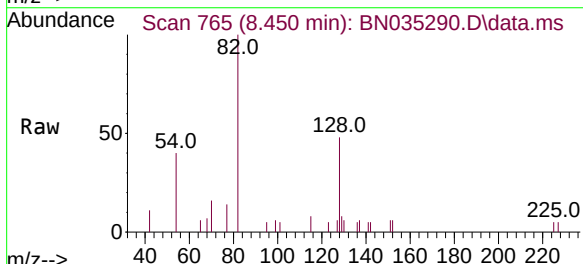
Instrument :
BNA_N
ClientSampleId :
PB165150BS

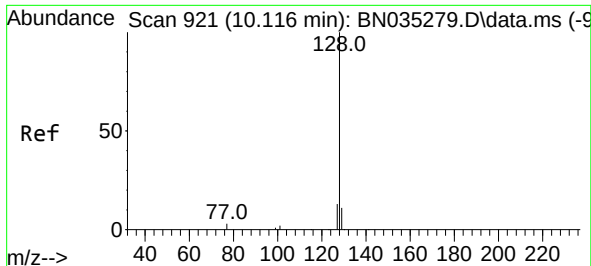
Tgt Ion:	136	Resp:	8519
Ion	Ratio	Lower	Upper
136	100		
137	11.5	9.7	14.5
54	5.3	5.3	7.9
68	5.3	5.9	8.9



#8
Nitrobenzene-d5
Concen: 0.248 ng
RT: 8.450 min Scan# 765
Delta R.T. -0.000 min
Lab File: BN035290.D
Acq: 25 Nov 2024 18:44

Tgt Ion:	82	Resp:	1711
Ion	Ratio	Lower	Upper
82	100		
128	47.6	33.0	49.4
54	39.5	33.3	49.9

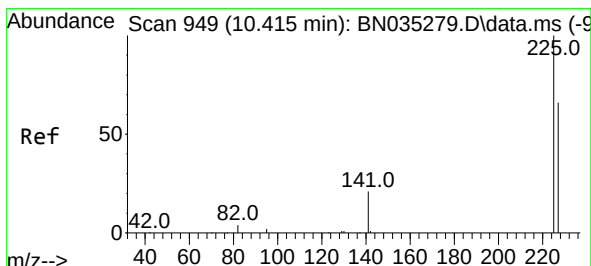
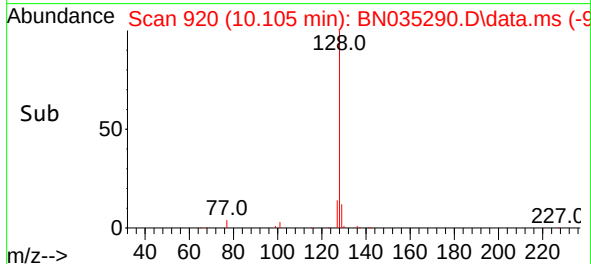
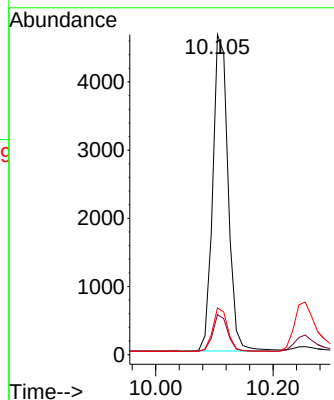
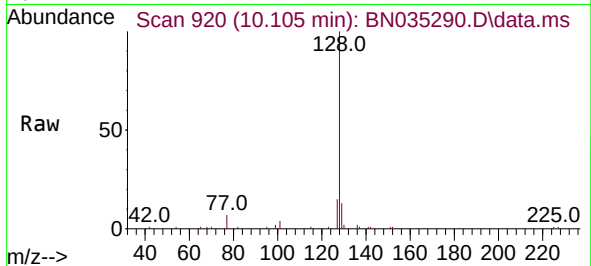




#9
Naphthalene
Concen: 0.356 ng
RT: 10.105 min Scan# 910
Delta R.T. -0.011 min
Lab File: BN035290.D
Acq: 25 Nov 2024 18:44

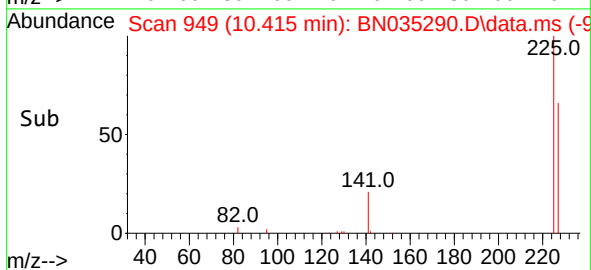
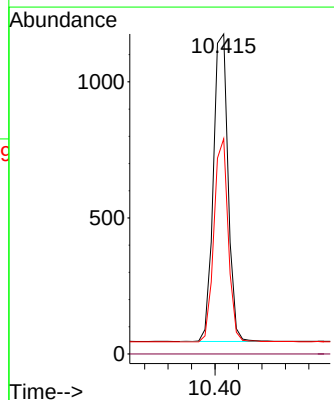
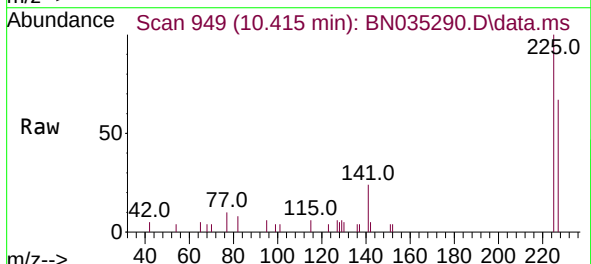
Instrument :
BNA_N
ClientSampleId :
PB165150BS

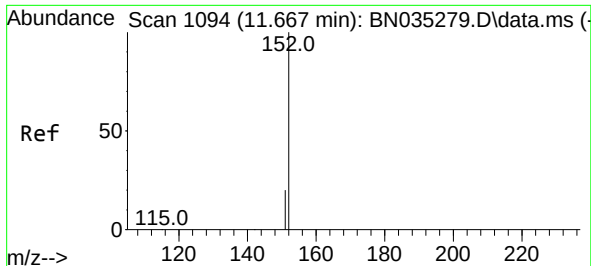
Tgt Ion:	128	Resp:	8426
Ion	Ratio	Lower	Upper
128	100		
129	12.6	9.6	14.4
127	14.6	11.3	16.9



#10
Hexachlorobutadiene
Concen: 0.296 ng
RT: 10.415 min Scan# 949
Delta R.T. -0.000 min
Lab File: BN035290.D
Acq: 25 Nov 2024 18:44

Tgt Ion:	225	Resp:	1969
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.9	51.3	76.9

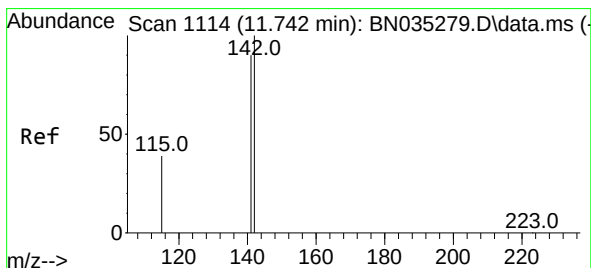
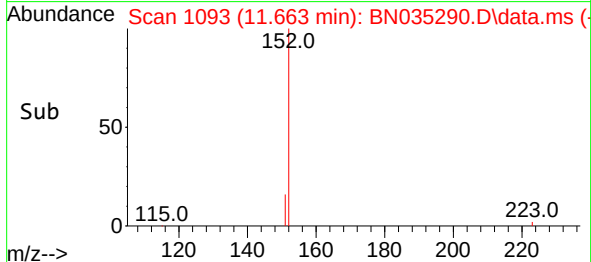
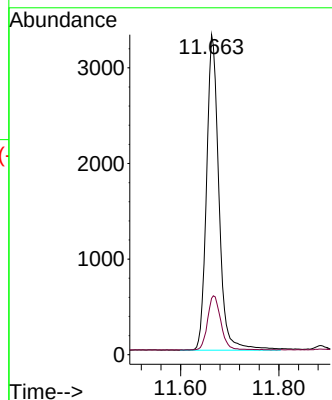
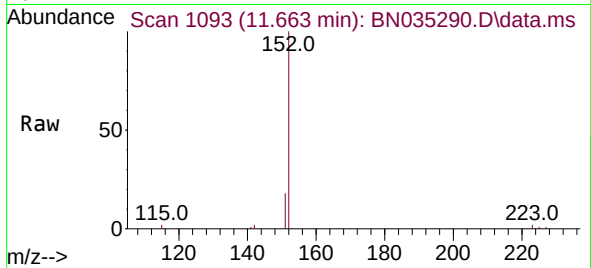




#11
2-Methylnaphthalene-d10
Concen: 0.483 ng
RT: 11.663 min Scan# 1094
Delta R.T. -0.004 min
Lab File: BN035290.D
Acq: 25 Nov 2024 18:44

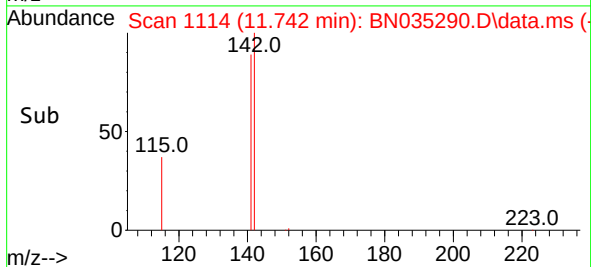
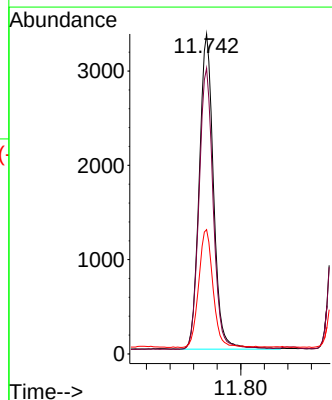
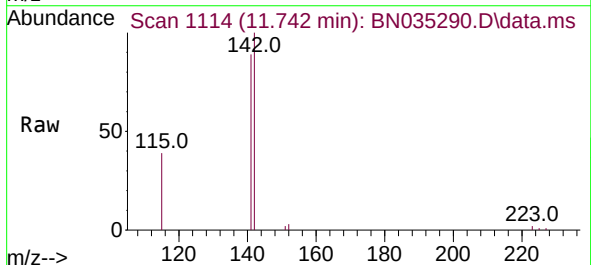
Instrument :
BNA_N
ClientSampleId :
PB165150BS

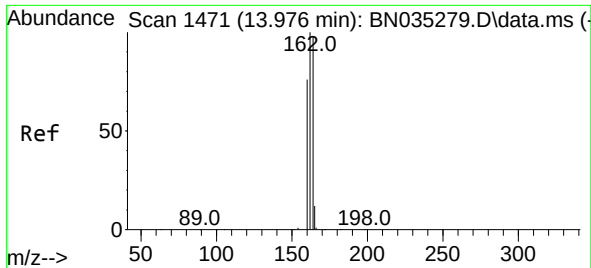
Tgt Ion:152 Resp: 5762
Ion Ratio Lower Upper
152 100
151 18.4 17.2 25.8



#12
2-Methylnaphthalene
Concen: 0.363 ng
RT: 11.742 min Scan# 1114
Delta R.T. 0.000 min
Lab File: BN035290.D
Acq: 25 Nov 2024 18:44

Tgt Ion:142 Resp: 5618
Ion Ratio Lower Upper
142 100
141 89.3 71.8 107.8
115 38.8 32.6 49.0

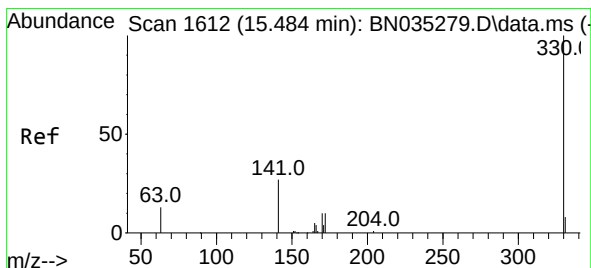
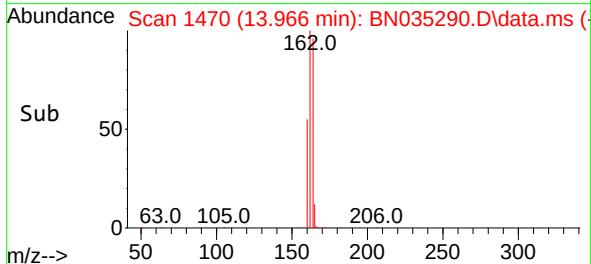
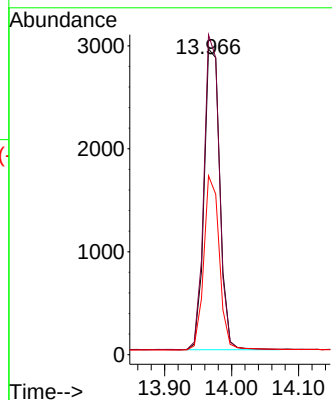
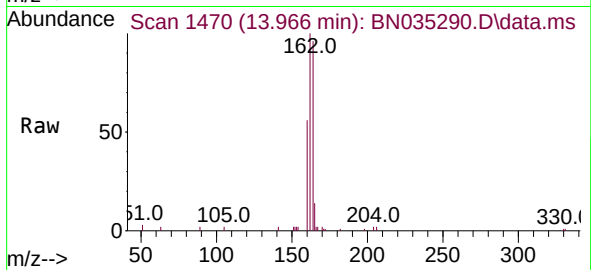




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.966 min Scan# 1471
Delta R.T. -0.011 min
Lab File: BN035290.D
Acq: 25 Nov 2024 18:44

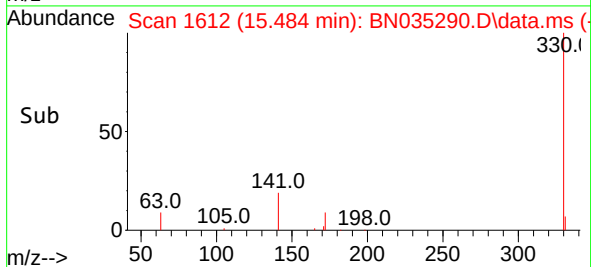
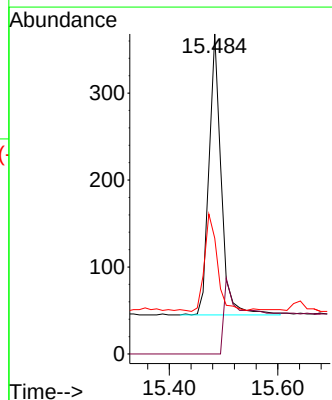
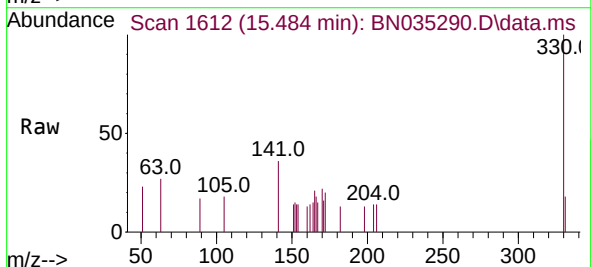
Instrument :
BNA_N
ClientSampleId :
PB165150BS

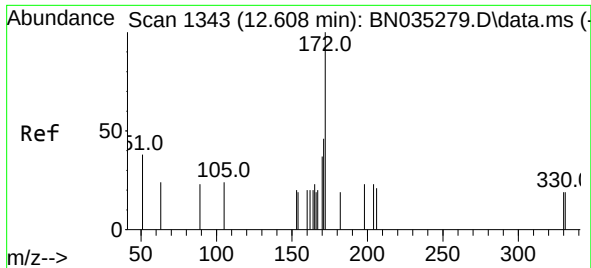
Tgt Ion:164 Resp: 4791
Ion Ratio Lower Upper
164 100
162 104.6 82.0 123.0
160 58.5 63.0 94.4#



#14
2,4,6-Tribromophenol
Concen: 0.220 ng
RT: 15.484 min Scan# 1612
Delta R.T. -0.000 min
Lab File: BN035290.D
Acq: 25 Nov 2024 18:44

Tgt Ion:330 Resp: 538
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 35.7 32.4 48.6

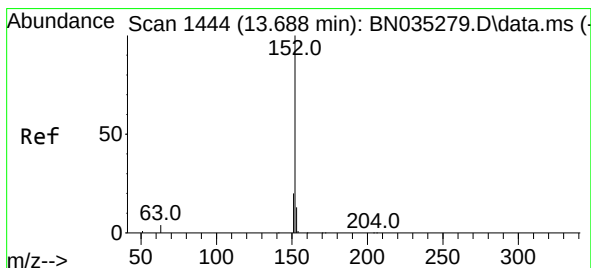
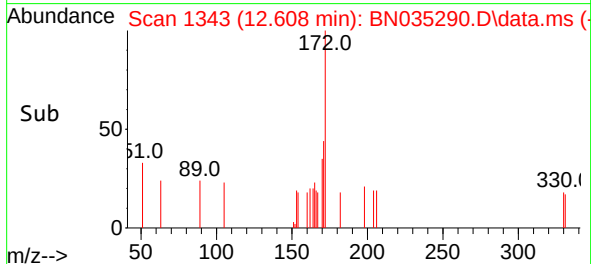
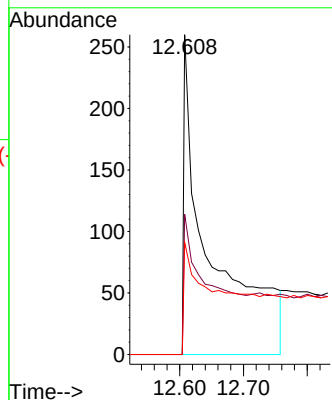
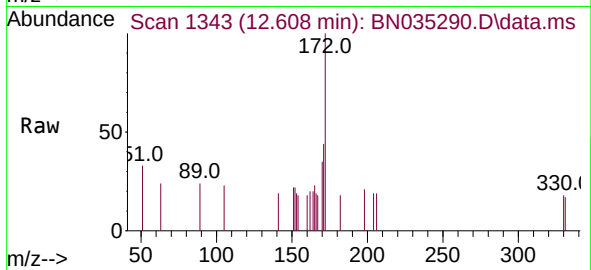




#15
2-Fluorobiphenyl
Concen: 0.273 ng
RT: 12.608 min Scan# 1343
Delta R.T. -0.000 min
Lab File: BN035290.D
Acq: 25 Nov 2024 18:44

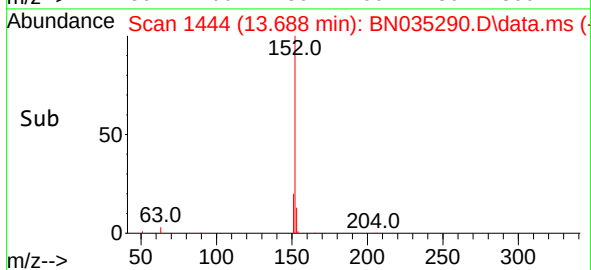
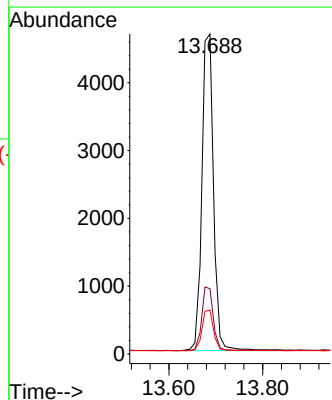
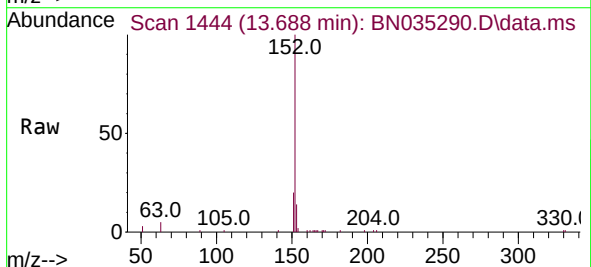
Instrument :
BNA_N
ClientSampleId :
PB165150BS

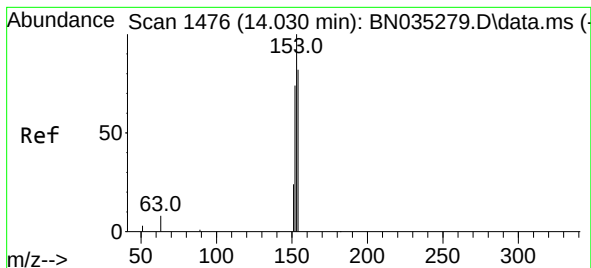
Tgt Ion:	172	Resp:	722
Ion	Ratio	Lower	Upper
172	100		
171	43.8	36.6	55.0
170	35.0	29.7	44.5



#16
Acenaphthylene
Concen: 0.334 ng
RT: 13.688 min Scan# 1444
Delta R.T. -0.000 min
Lab File: BN035290.D
Acq: 25 Nov 2024 18:44

Tgt Ion:	152	Resp:	8047
Ion	Ratio	Lower	Upper
152	100		
151	20.0	15.9	23.9
153	12.8	10.2	15.4





#17

Acenaphthene

Concen: 0.338 ng

RT: 14.030 min Scan# 1476

Delta R.T. -0.000 min

Lab File: BN035290.D

Acq: 25 Nov 2024 18:44

Instrument :

BNA_N

ClientSampleId :

PB165150BS

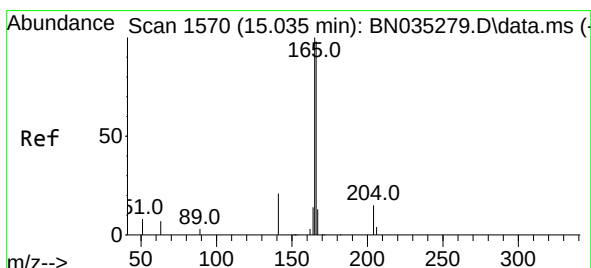
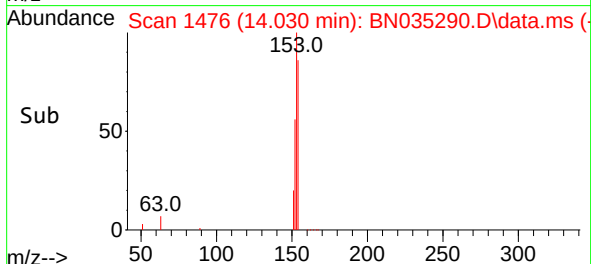
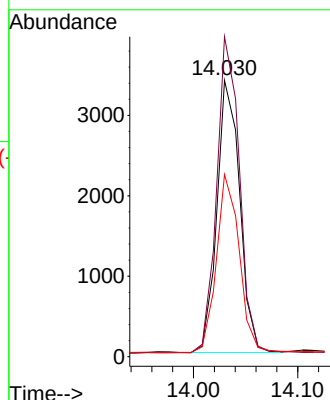
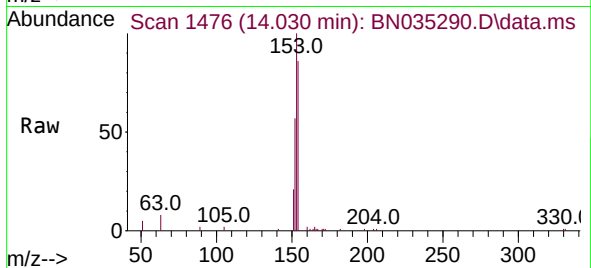
Tgt Ion:154 Resp: 5138

Ion Ratio Lower Upper

154 100

153 116.2 96.1 144.1

152 66.0 72.2 108.2#



#18

Fluorene

Concen: 0.312 ng

RT: 15.035 min Scan# 1570

Delta R.T. -0.000 min

Lab File: BN035290.D

Acq: 25 Nov 2024 18:44

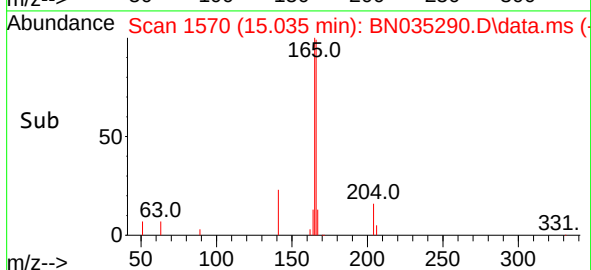
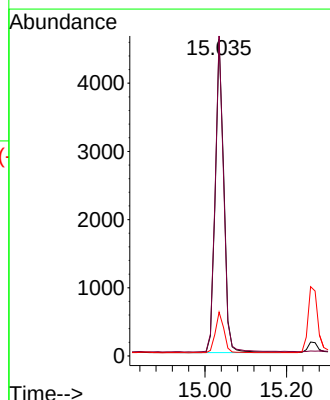
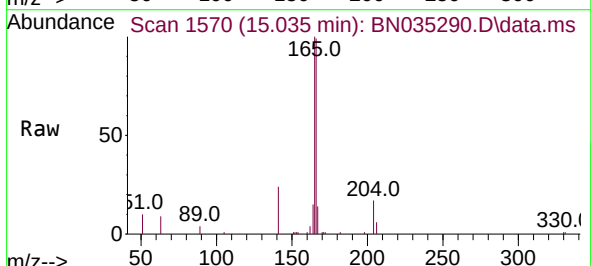
Tgt Ion:166 Resp: 6631

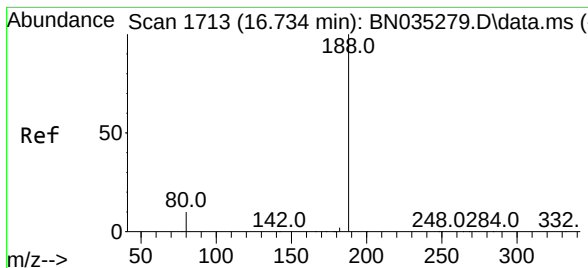
Ion Ratio Lower Upper

166 100

165 99.7 81.2 121.8

167 13.4 10.5 15.7





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.734 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN035290.D

Acq: 25 Nov 2024 18:44

Instrument :

BNA_N

ClientSampleId :

PB165150BS

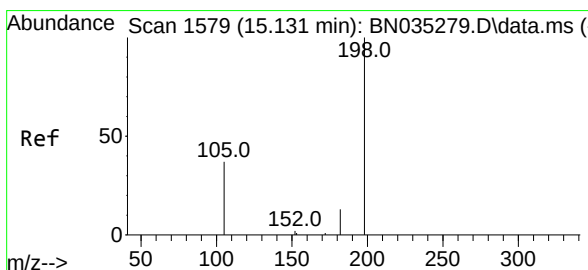
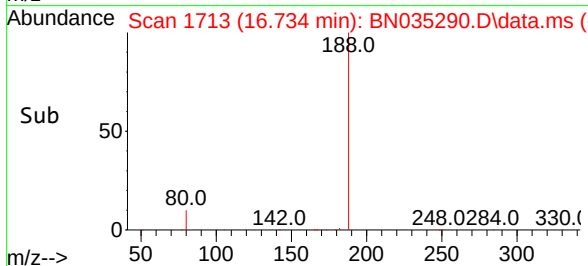
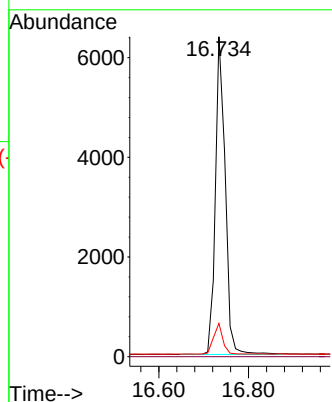
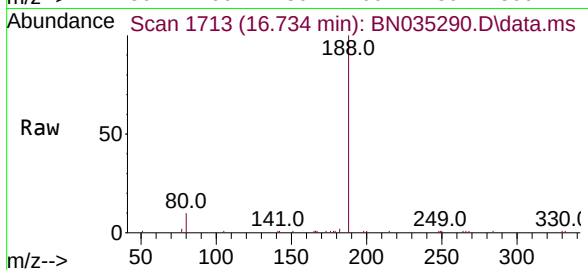
Tgt Ion:188 Resp: 9614

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.4 8.9 13.3



#20

4,6-Dinitro-2-methylphenol

Concen: 0.378 ng

RT: 15.131 min Scan# 1579

Delta R.T. -0.000 min

Lab File: BN035290.D

Acq: 25 Nov 2024 18:44

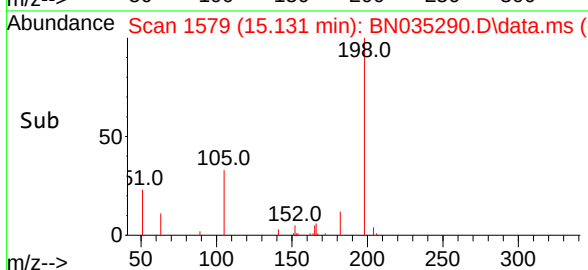
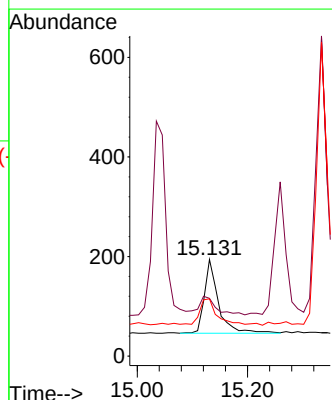
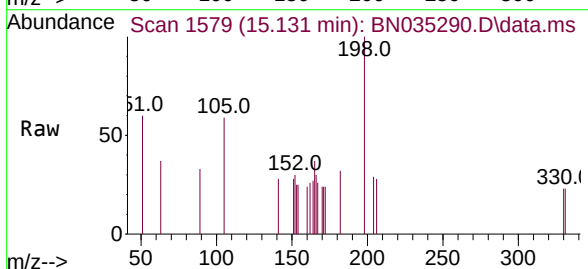
Tgt Ion:198 Resp: 262

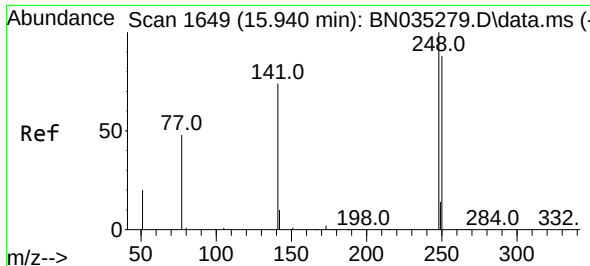
Ion Ratio Lower Upper

198 100

51 59.8 53.6 80.4

105 59.3 47.4 71.2

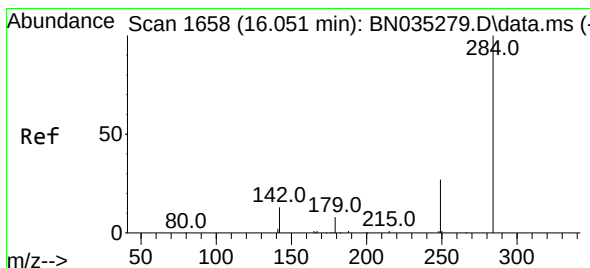
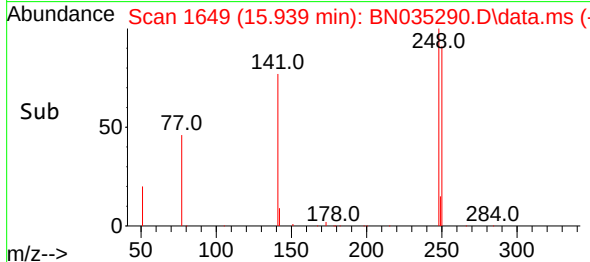
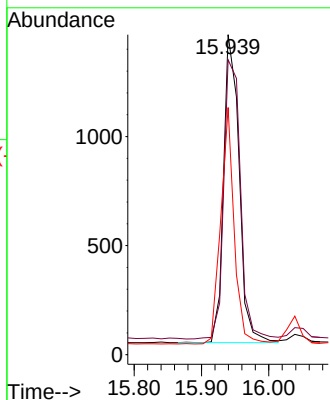
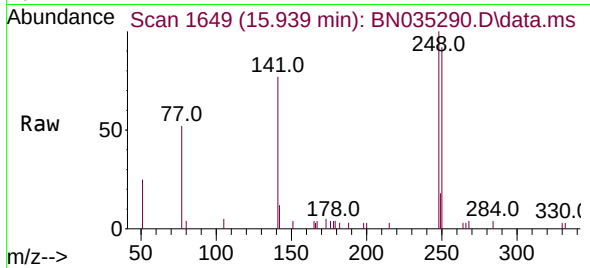




#21
4-Bromophenyl-phenylether
Concen: 0.371 ng
RT: 15.939 min Scan# 1649
Delta R.T. -0.001 min
Lab File: BN035290.D
Acq: 25 Nov 2024 18:44

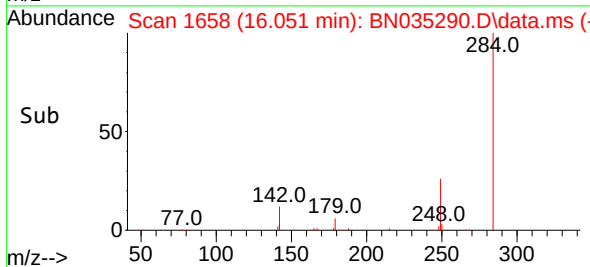
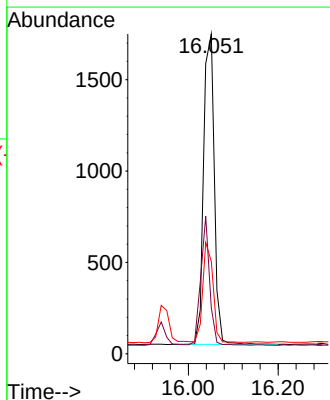
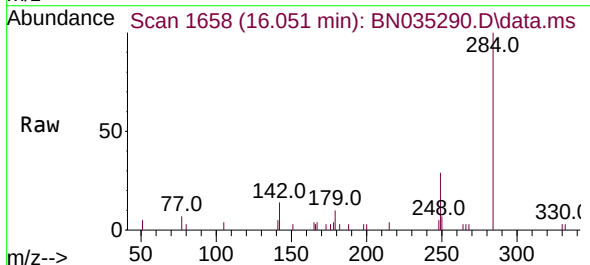
Instrument :
BNA_N
ClientSampleId :
PB165150BS

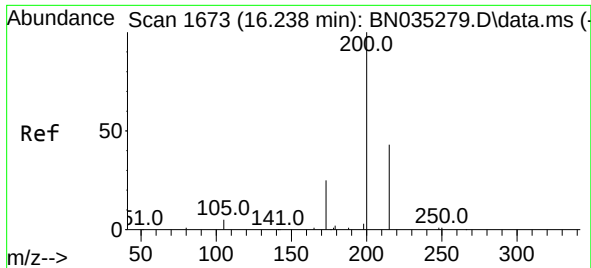
Tgt Ion:248 Resp: 2264
Ion Ratio Lower Upper
248 100
250 92.2 74.8 112.2
141 77.2 59.0 88.4



#22
Hexachlorobenzene
Concen: 0.322 ng
RT: 16.051 min Scan# 1658
Delta R.T. -0.000 min
Lab File: BN035290.D
Acq: 25 Nov 2024 18:44

Tgt Ion:284 Resp: 2814
Ion Ratio Lower Upper
284 100
142 34.5 28.7 43.1
249 30.6 25.4 38.0

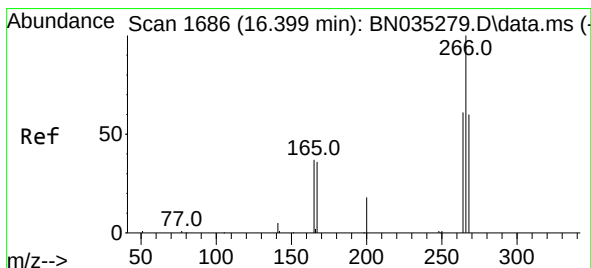
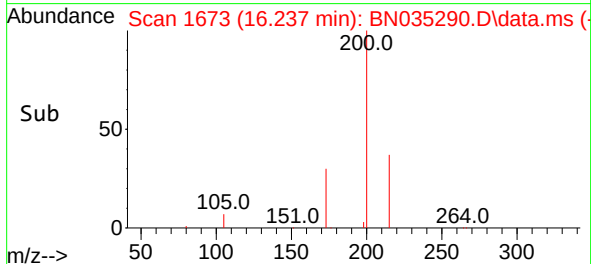
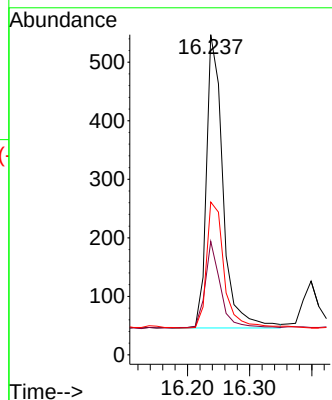
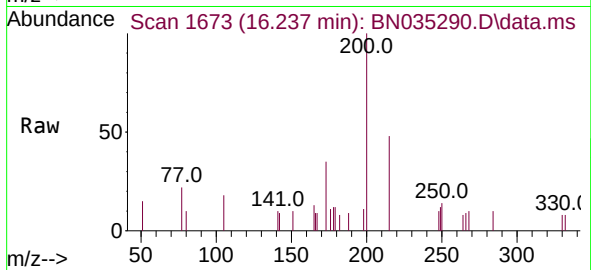




#23
Atrazine
Concen: 0.362 ng
RT: 16.237 min Scan# 1673
Delta R.T. -0.000 min
Lab File: BN035290.D
Acq: 25 Nov 2024 18:44

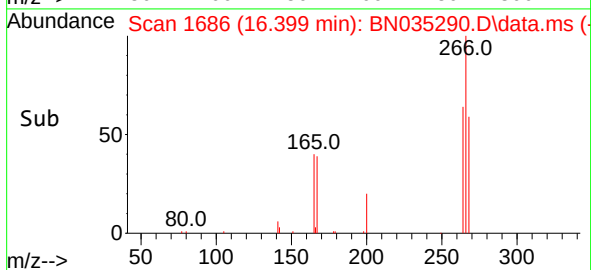
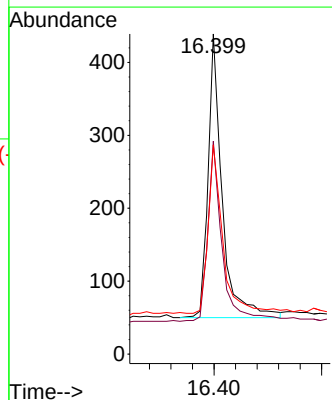
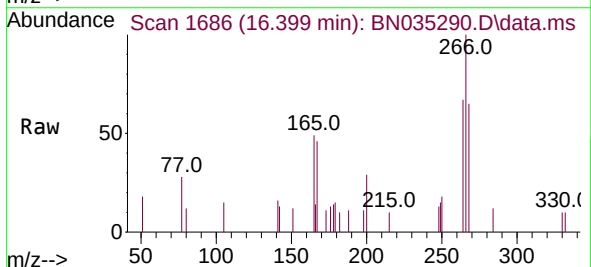
Instrument :
BNA_N
ClientSampleId :
PB165150BS

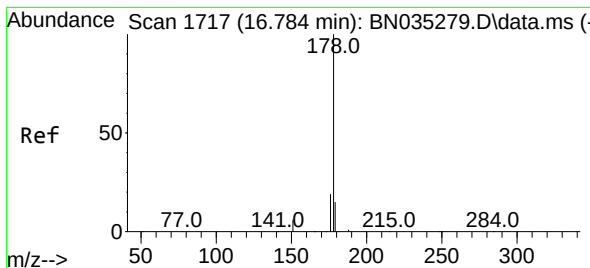
Tgt Ion:200 Resp: 929
Ion Ratio Lower Upper
200 100
173 35.5 25.8 38.8
215 47.7 38.6 58.0



#24
Pentachlorophenol
Concen: 0.337 ng
RT: 16.399 min Scan# 1686
Delta R.T. -0.000 min
Lab File: BN035290.D
Acq: 25 Nov 2024 18:44

Tgt Ion:266 Resp: 706
Ion Ratio Lower Upper
266 100
264 64.3 49.3 73.9
268 62.0 48.6 73.0





#25

Phenanthrene

Concen: 0.343 ng

RT: 16.771 min Scan# 1716

Delta R.T. -0.013 min

Lab File: BN035290.D

Acq: 25 Nov 2024 18:44

Instrument :

BNA_N

ClientSampleId :

PB165150BS

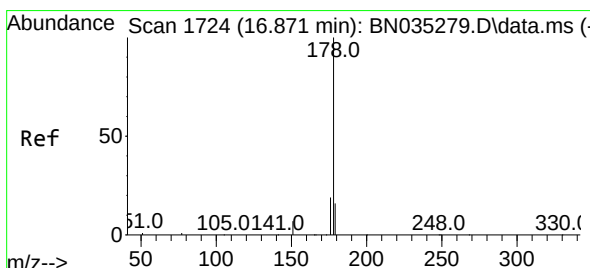
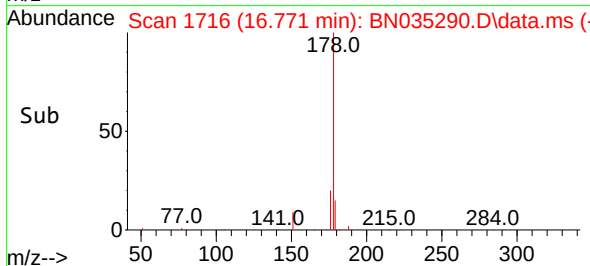
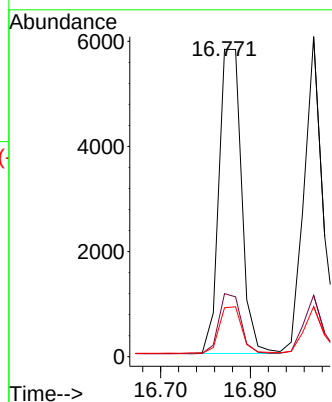
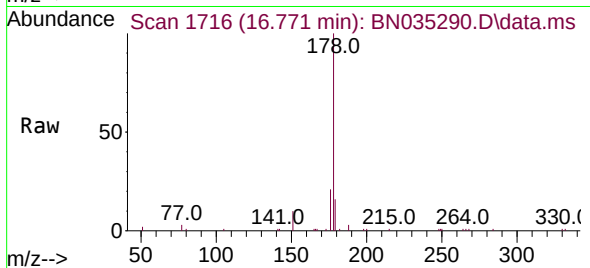
Tgt Ion:178 Resp: 10143

Ion Ratio Lower Upper

178 100

176 19.4 15.4 23.0

179 15.5 12.6 18.8



#26

Anthracene

Concen: 0.350 ng

RT: 16.870 min Scan# 1724

Delta R.T. -0.000 min

Lab File: BN035290.D

Acq: 25 Nov 2024 18:44

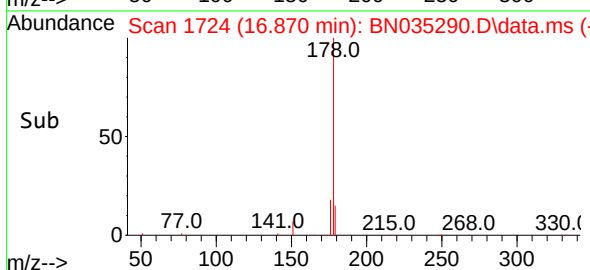
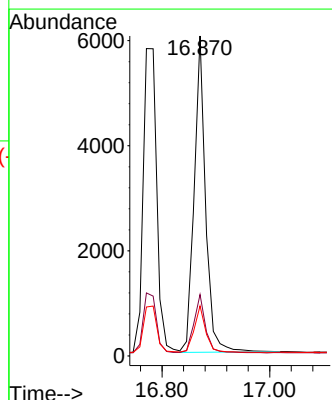
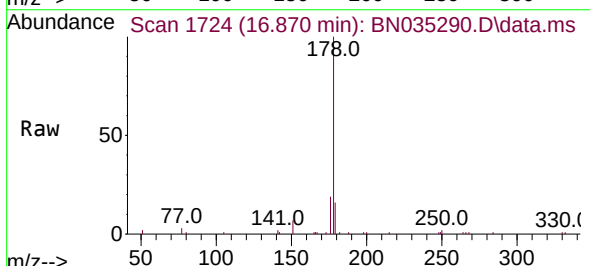
Tgt Ion:178 Resp: 8875

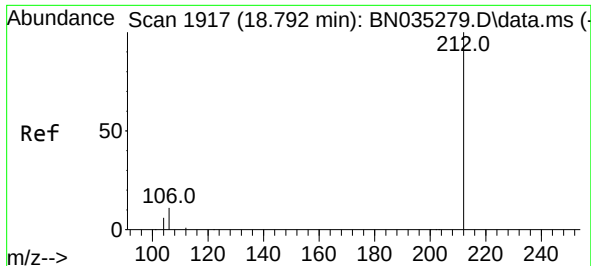
Ion Ratio Lower Upper

178 100

176 18.8 15.0 22.4

179 14.8 12.4 18.6

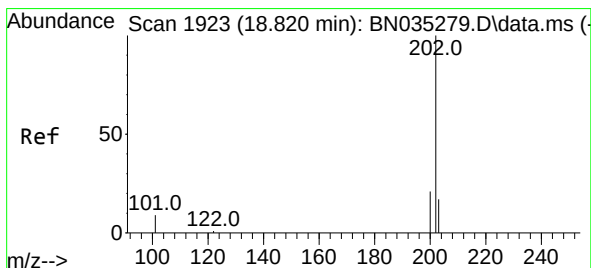
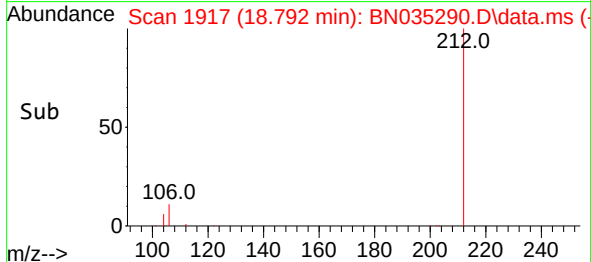
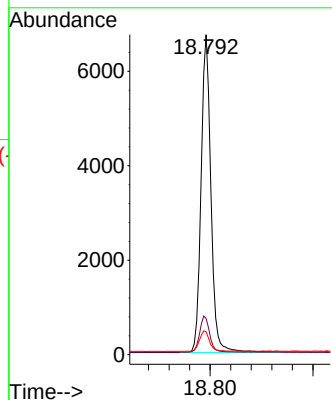
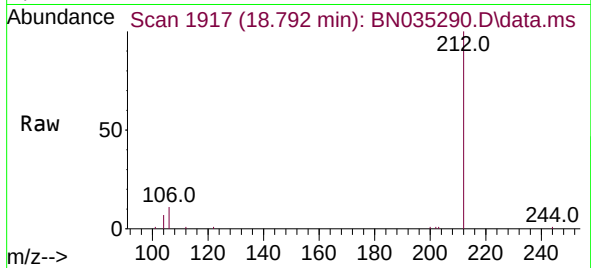




#27
Fluoranthene-d10
Concen: 0.348 ng
RT: 18.792 min Scan# 1917
Delta R.T. -0.000 min
Lab File: BN035290.D
Acq: 25 Nov 2024 18:44

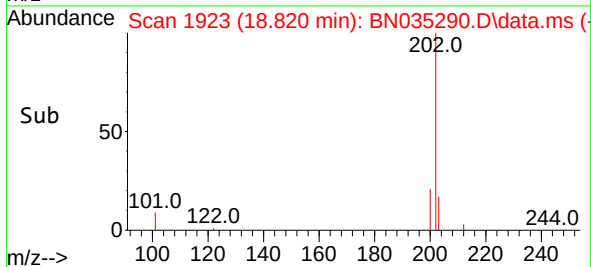
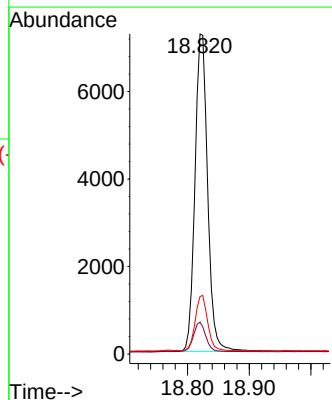
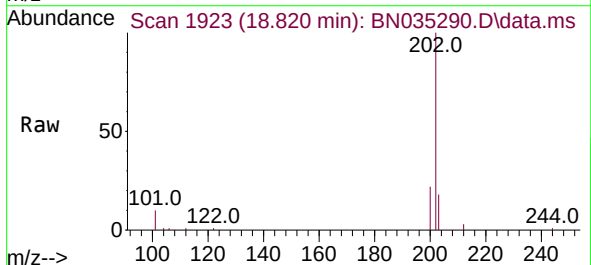
Instrument :
BNA_N
ClientSampleId :
PB165150BS

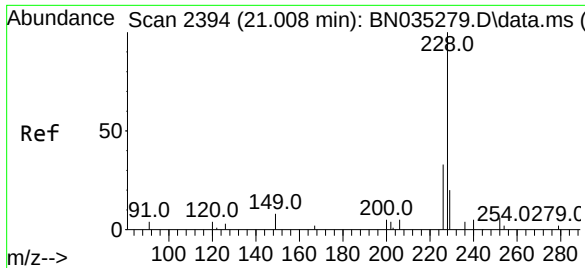
Tgt Ion:212 Resp: 8963
Ion Ratio Lower Upper
212 100
106 11.6 9.8 14.8
104 6.7 5.6 8.4



#28
Fluoranthene
Concen: 0.280 ng
RT: 18.820 min Scan# 1923
Delta R.T. 0.000 min
Lab File: BN035290.D
Acq: 25 Nov 2024 18:44

Tgt Ion:202 Resp: 10421
Ion Ratio Lower Upper
202 100
101 9.1 7.6 11.4
203 16.9 13.8 20.8

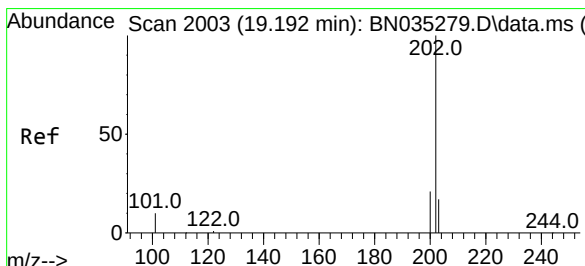
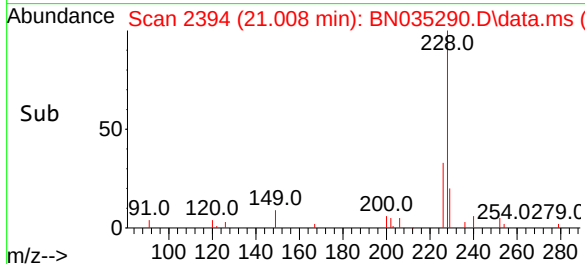
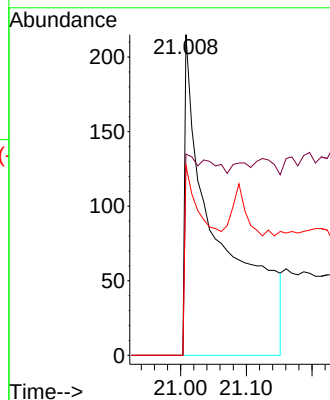
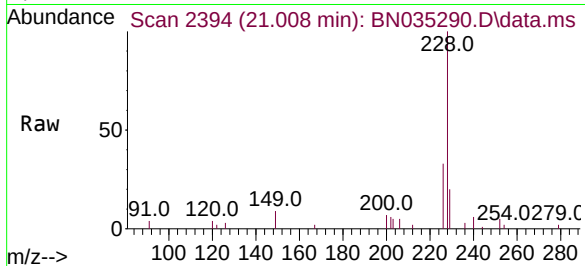




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.008 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN035290.D
Acq: 25 Nov 2024 18:44

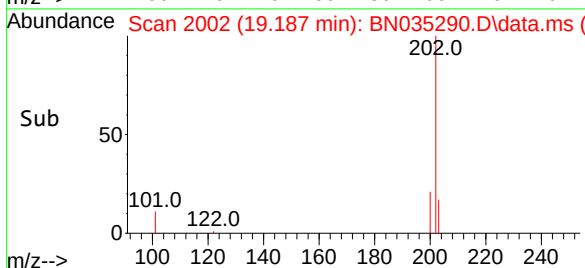
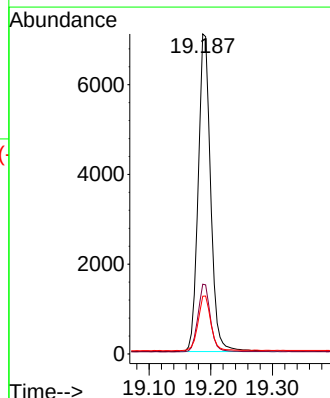
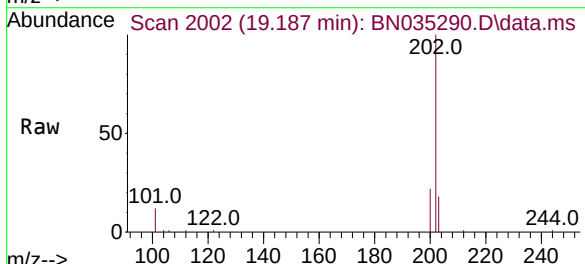
Instrument :
BNA_N
ClientSampleId :
PB165150BS

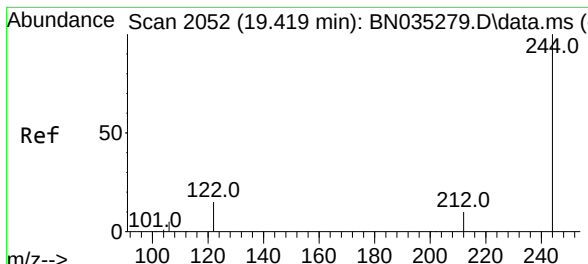
Tgt Ion:240 Resp: 730
Ion Ratio Lower Upper
240 100
120 62.8 54.9 82.3
236 59.1 54.0 81.0



#30
Pyrene
Concen: 0.376 ng
RT: 19.187 min Scan# 2002
Delta R.T. -0.005 min
Lab File: BN035290.D
Acq: 25 Nov 2024 18:44

Tgt Ion:202 Resp: 9974
Ion Ratio Lower Upper
202 100
200 21.2 16.8 25.2
203 17.6 14.4 21.6

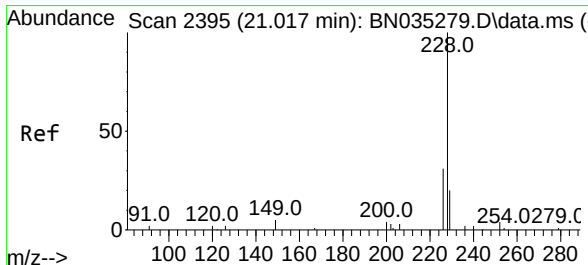
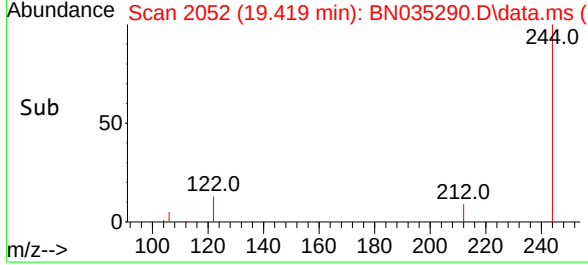
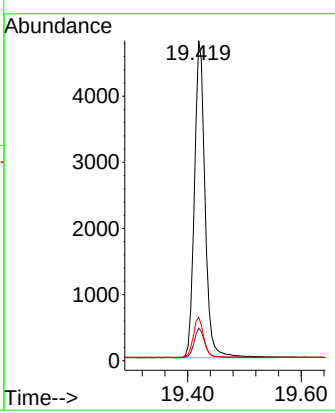
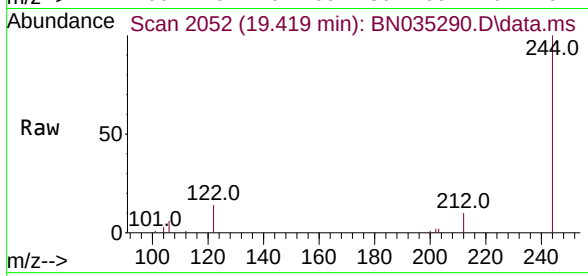




#31
 Terphenyl-d14
 Concen: 0.461 ng
 RT: 19.419 min Scan# 2052
 Delta R.T. 0.000 min
 Lab File: BN035290.D
 Acq: 25 Nov 2024 18:44

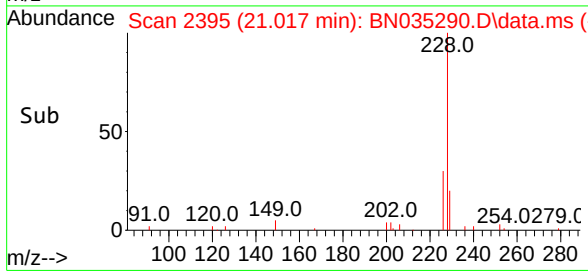
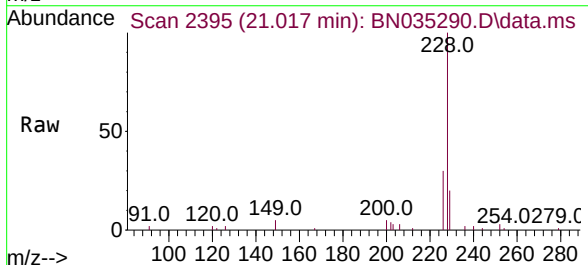
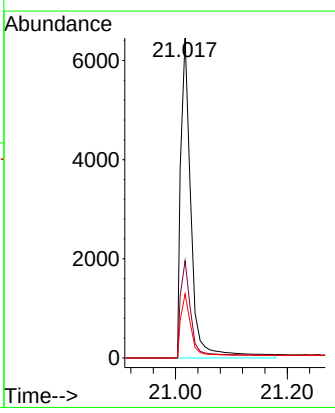
Instrument :
 BNA_N
 ClientSampleId :
 PB165150BS

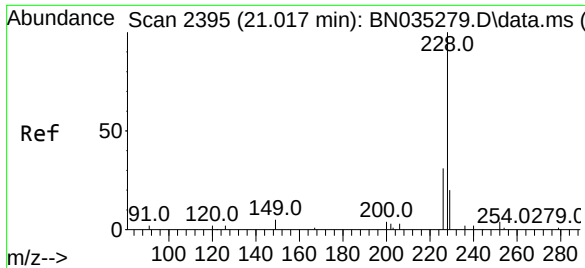
Tgt Ion:	244	Resp:	6215
Ion Ratio	Lower	Upper	
244	100		
212	10.2	9.4	14.0
122	13.6	13.0	19.4



#32
 Benzo(a)anthracene
 Concen: 0.334 ng
 RT: 21.017 min Scan# 2395
 Delta R.T. 0.000 min
 Lab File: BN035290.D
 Acq: 25 Nov 2024 18:44

Tgt Ion:	228	Resp:	8490
Ion Ratio	Lower	Upper	
228	100		
226	30.4	24.7	37.1
229	20.1	16.2	24.2





#33

Chrysene

Concen: 0.334 ng

RT: 21.017 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035290.D

Acq: 25 Nov 2024 18:44

Instrument :

BNA_N

ClientSampleId :

PB165150BS

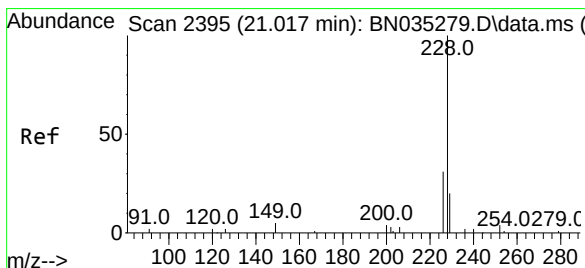
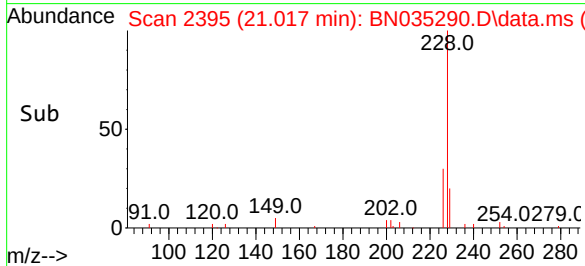
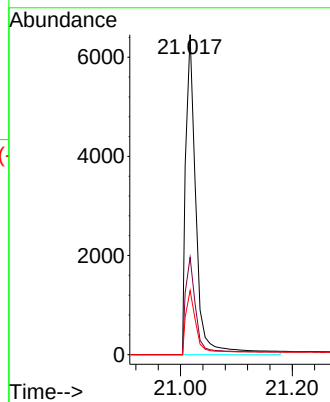
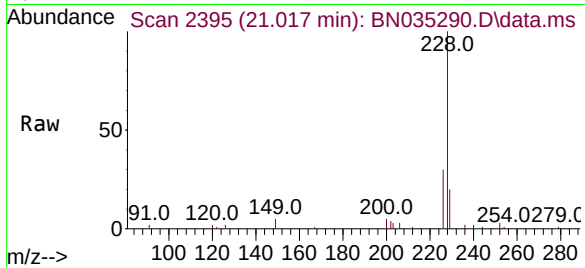
Tgt Ion:228 Resp: 8490

Ion Ratio Lower Upper

228 100

226 30.4 24.7 37.1

229 20.1 16.2 24.2



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.401 ng

RT: 21.008 min Scan# 2394

Delta R.T. -0.009 min

Lab File: BN035290.D

Acq: 25 Nov 2024 18:44

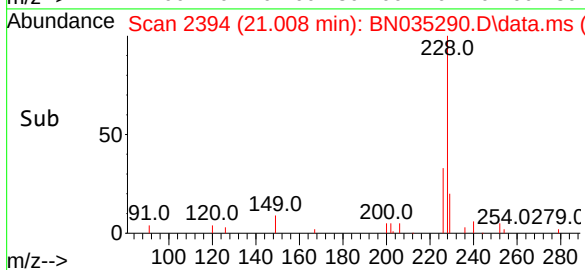
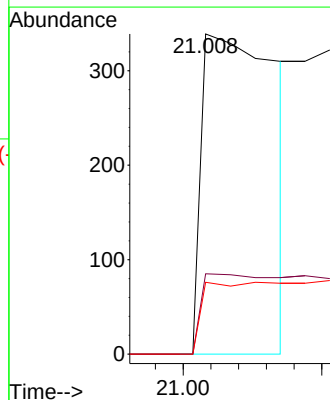
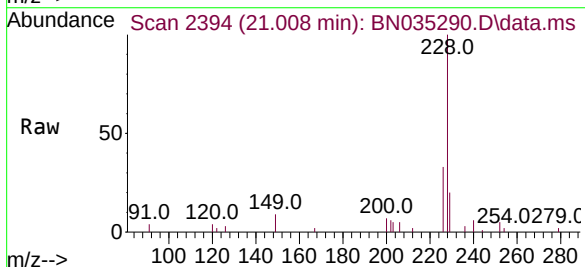
Tgt Ion:149 Resp: 560

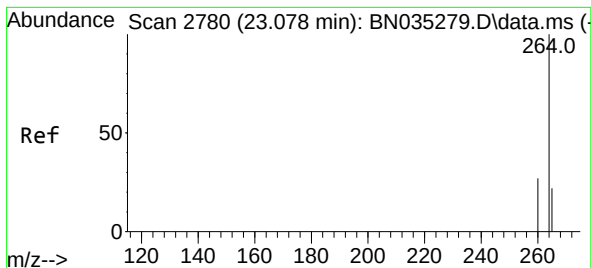
Ion Ratio Lower Upper

149 100

167 25.7 0.0 0.0#

279 0.0 13.0 19.6#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.081 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN035290.D

Acq: 25 Nov 2024 18:44

Instrument :

BNA_N

ClientSampleId :

PB165150BS

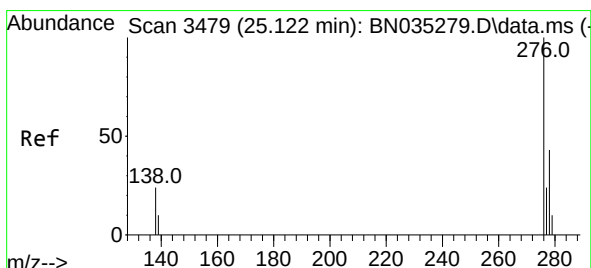
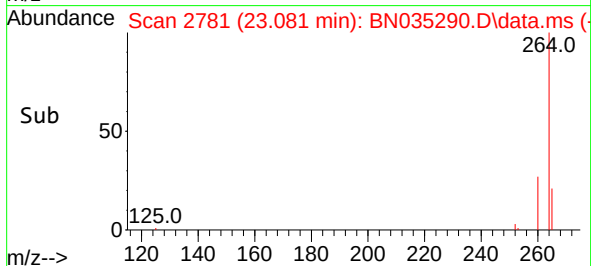
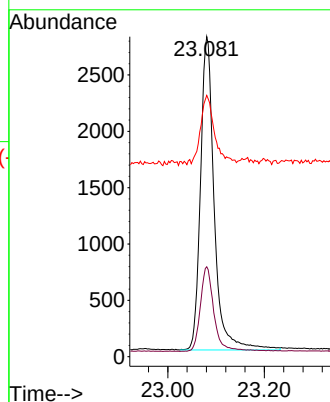
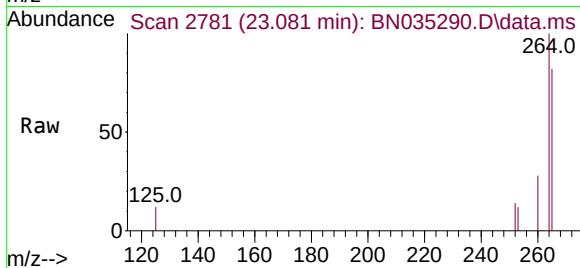
Tgt Ion:264 Resp: 5488

Ion Ratio Lower Upper

264 100

260 28.1 22.3 33.5

265 81.7 68.6 103.0



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.376 ng

RT: 25.124 min Scan# 3480

Delta R.T. 0.003 min

Lab File: BN035290.D

Acq: 25 Nov 2024 18:44

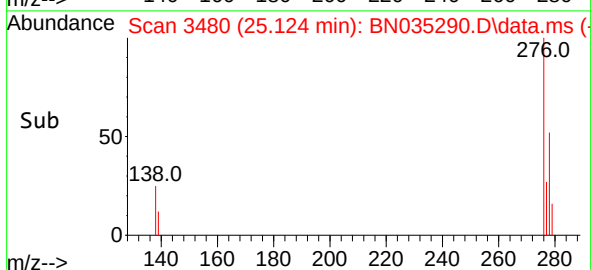
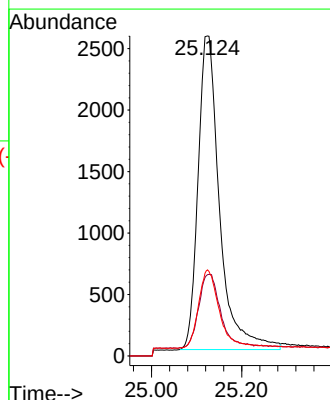
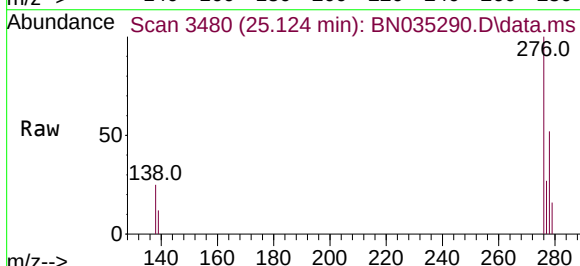
Tgt Ion:276 Resp: 8459

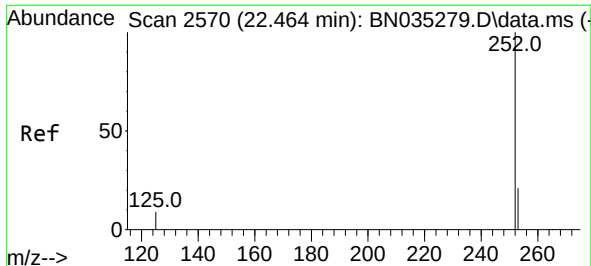
Ion Ratio Lower Upper

276 100

138 22.7 18.8 28.2

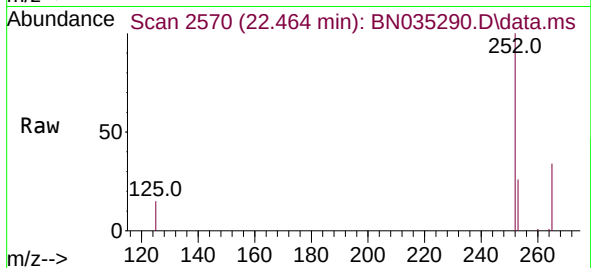
277 23.4 18.2 27.4



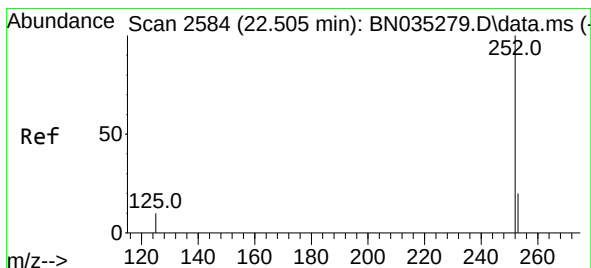
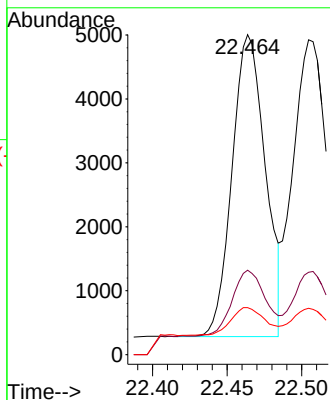
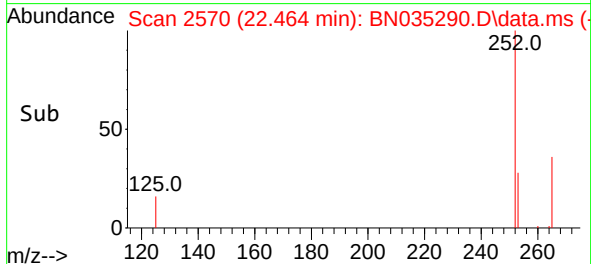


#37
Benzo(b)fluoranthene
Concen: 0.307 ng
RT: 22.464 min Scan# 2570
Delta R.T. -0.000 min
Lab File: BN035290.D
Acq: 25 Nov 2024 18:44

Instrument :
BNA_N
ClientSampleId :
PB165150BS

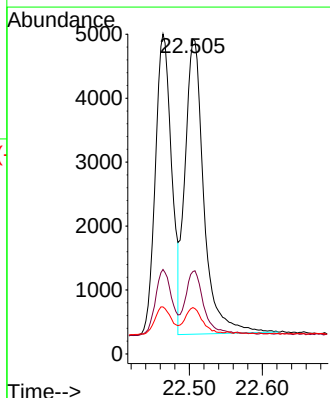
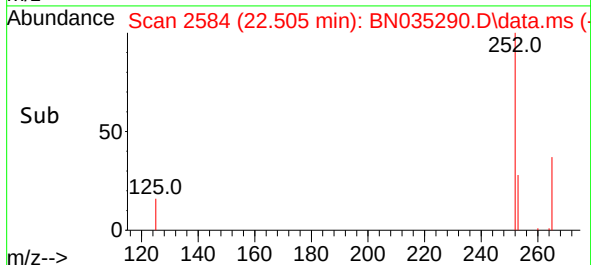
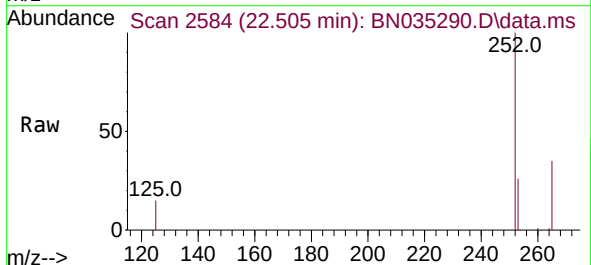


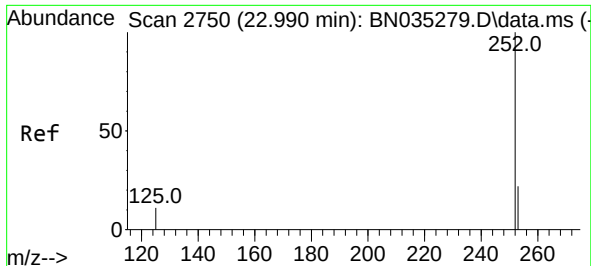
Tgt Ion:252 Resp: 7319
Ion Ratio Lower Upper
252 100
253 26.4 20.2 30.2
125 14.7 12.0 18.0



#38
Benzo(k)fluoranthene
Concen: 0.329 ng
RT: 22.505 min Scan# 2584
Delta R.T. -0.000 min
Lab File: BN035290.D
Acq: 25 Nov 2024 18:44

Tgt Ion:252 Resp: 8291
Ion Ratio Lower Upper
252 100
253 26.2 20.1 30.1
125 14.8 12.7 19.1

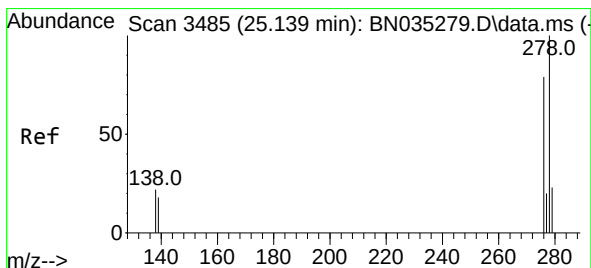
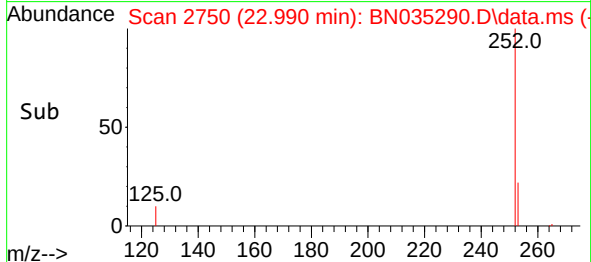
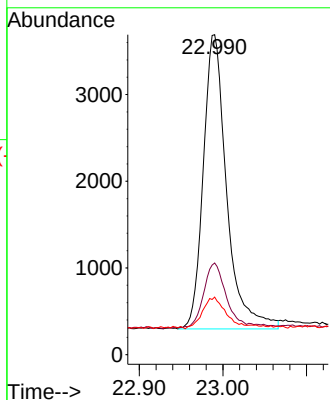
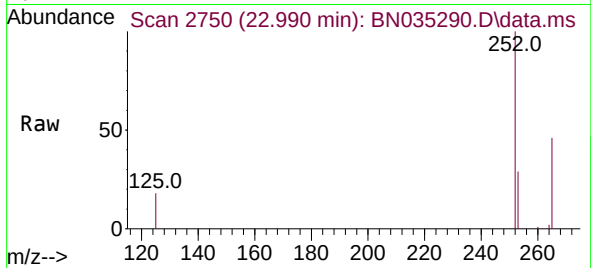




#39
Benzo(a)pyrene
Concen: 0.363 ng
RT: 22.990 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN035290.D
Acq: 25 Nov 2024 18:44

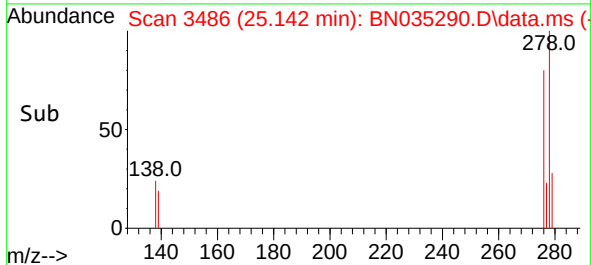
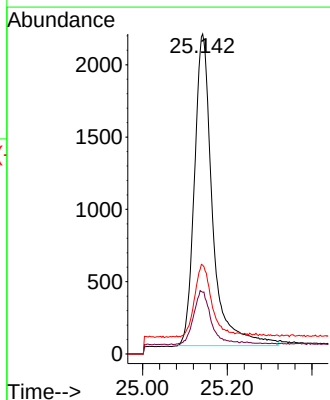
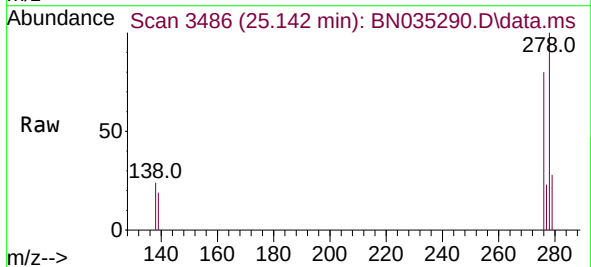
Instrument :
BNA_N
ClientSampleId :
PB165150BS

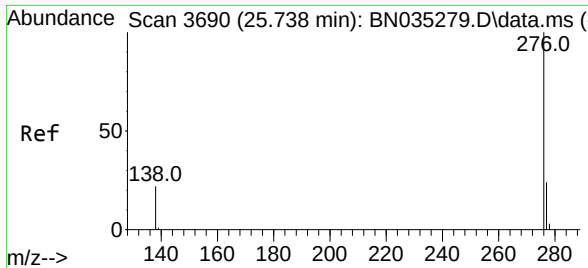
Tgt Ion:252 Resp: 6610
Ion Ratio Lower Upper
252 100
253 28.7 22.3 33.5
125 18.0 15.3 22.9



#40
Dibenzo(a,h)anthracene
Concen: 0.376 ng
RT: 25.142 min Scan# 3486
Delta R.T. 0.003 min
Lab File: BN035290.D
Acq: 25 Nov 2024 18:44

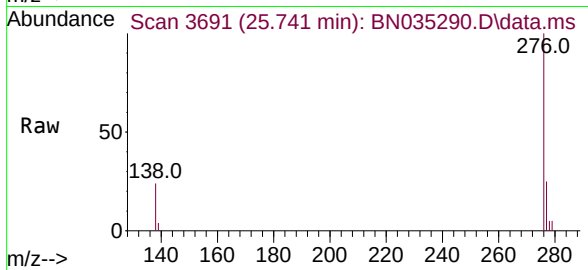
Tgt Ion:278 Resp: 6393
Ion Ratio Lower Upper
278 100
139 19.3 17.0 25.6
279 27.7 23.0 34.4



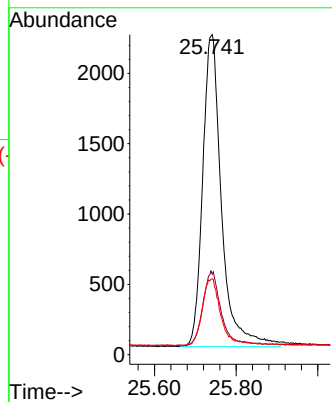
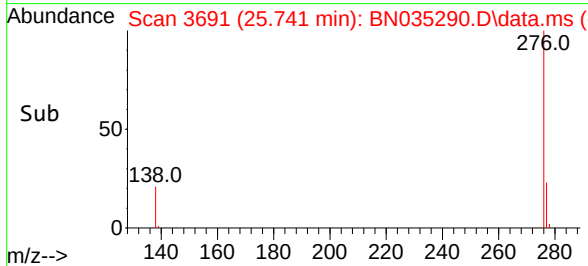


#41
Benzo(g,h,i)perylene
Concen: 0.362 ng
RT: 25.741 min Scan# 30
Delta R.T. 0.003 min
Lab File: BN035290.D
Acq: 25 Nov 2024 18:44

Instrument :
BNA_N
ClientSampleId :
PB165150BS



Tgt Ion:276 Resp: 7117
Ion Ratio Lower Upper
276 100
277 25.1 21.1 31.7
138 23.7 19.8 29.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112524\
 Data File : BN035291.D
 Acq On : 25 Nov 2024 19:20
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 67 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Nov 26 03:32:31 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112524.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 26 02:36:08 2024
 Response via : Initial Calibration

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

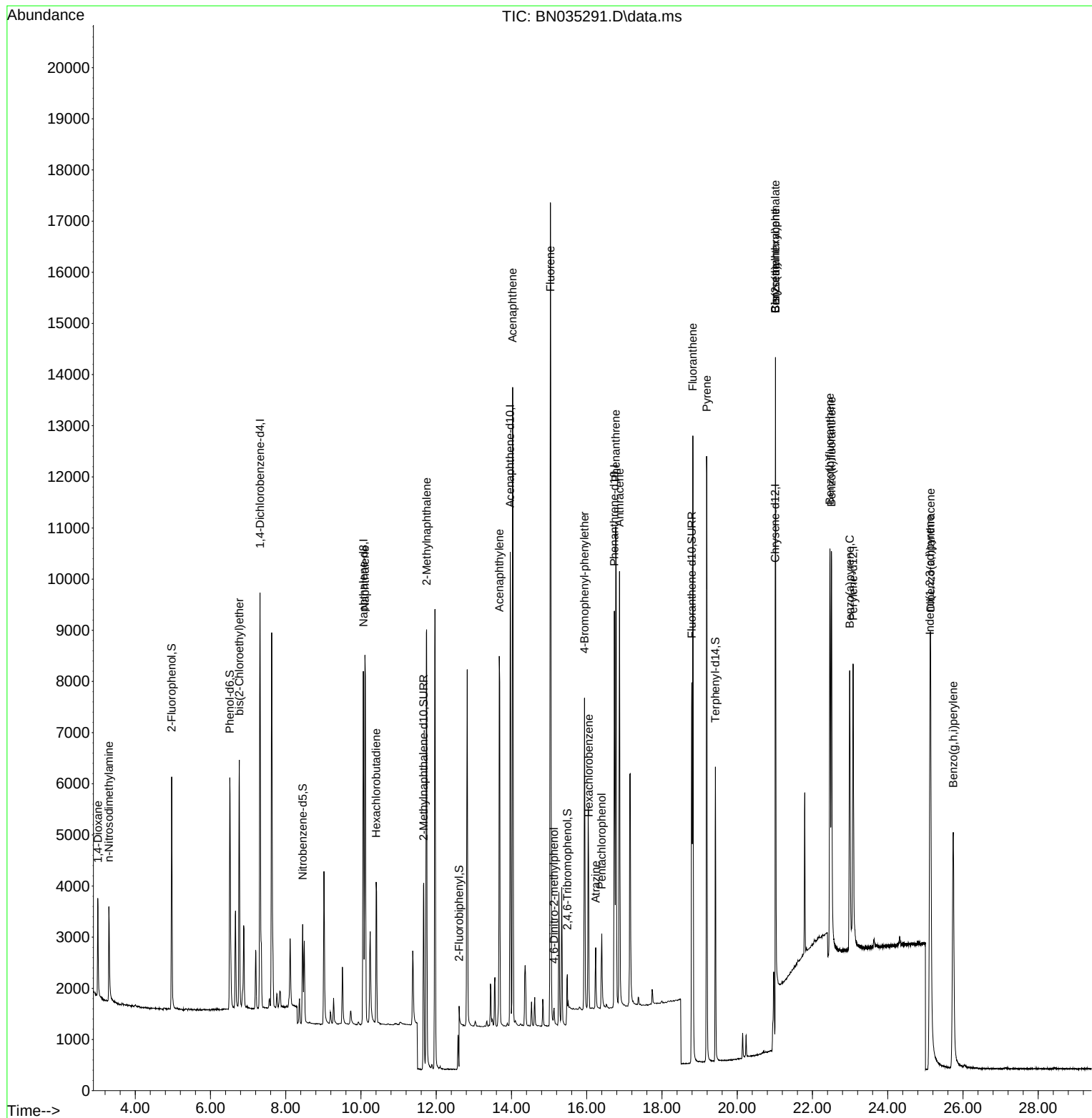
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.315	152	3803	0.400	ng	0.00
7) Naphthalene-d8	10.063	136	9055	0.400	ng	# 0.00
13) Acenaphthene-d10	13.965	164	5224	0.400	ng	#-0.01
19) Phenanthrene-d10	16.734	188	9941	0.400	ng	0.00
29) Chrysene-d12	21.008	240	677	0.400	ng	# 0.00
35) Perylene-d12	23.081	264	7069	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.968	112	3673	0.511	ng	0.00
5) Phenol-d6	6.513	99	4730	0.471	ng	0.00
8) Nitrobenzene-d5	8.450	82	1829	0.249	ng	0.00
11) 2-Methylnaphthalene-d10	11.663	152	5192	0.410	ng	0.00
14) 2,4,6-Tribromophenol	15.484	330	900	0.338	ng	0.00
15) 2-Fluorobiphenyl	12.608	172	751	0.260	ng	0.00
27) Fluoranthene-d10	18.792	212	8641	0.325	ng	0.00
31) Terphenyl-d14	19.419	244	5704	0.456	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.010	88	1445	0.529	ng	# 70
3) n-Nitrosodimethylamine	3.299	42	1020	0.360	ng	# 66
6) bis(2-Chloroethyl)ether	6.766	93	3708	0.439	ng	98
9) Naphthalene	10.105	128	9734	0.387	ng	99
10) Hexachlorobutadiene	10.404	225	2352	0.333	ng	# 100
12) 2-Methylnaphthalene	11.742	142	6373	0.388	ng	99
16) Acenaphthylene	13.677	152	8730	0.332	ng	100
17) Acenaphthene	14.030	154	5862	0.354	ng	# 87
18) Fluorene	15.035	166	7622	0.328	ng	98
20) 4,6-Dinitro-2-methylph...	15.131	198	296	0.395	ng	93
21) 4-Bromophenyl-phenylether	15.939	248	2578	0.409	ng	97
22) Hexachlorobenzene	16.051	284	3153	0.349	ng	98
23) Atrazine	16.237	200	1035	0.390	ng	97
24) Pentachlorophenol	16.399	266	792	0.366	ng	96
25) Phenanthrene	16.771	178	10947	0.358	ng	100
26) Anthracene	16.870	178	9149	0.349	ng	100
28) Fluoranthene	18.820	202	11418	0.296	ng	99
30) Pyrene	19.187	202	11057	0.449	ng	100
32) Benzo(a)anthracene	21.017	228	9935	0.422	ng	100
33) Chrysene	21.017	228	9935	0.422	ng	100
34) Bis(2-ethylhexyl)phtha...	21.017	149	560	0.432	ng	# 100
36) Indeno(1,2,3-cd)pyrene	25.121	276	11395	0.394	ng	98
37) Benzo(b)fluoranthene	22.464	252	9613	0.313	ng	98
38) Benzo(k)fluoranthene	22.505	252	10650	0.328	ng	98
39) Benzo(a)pyrene	22.987	252	8220	0.350	ng	97
40) Dibenzo(a,h)anthracene	25.139	278	8732	0.399	ng	95
41) Benzo(g,h,i)perylene	25.741	276	9930	0.392	ng	97

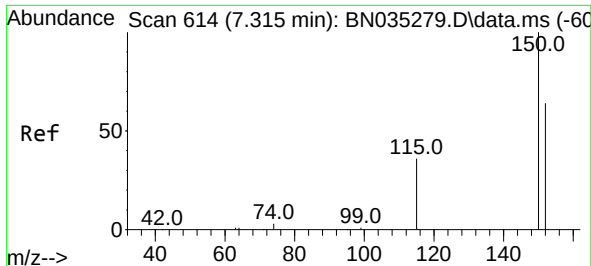
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Acq On : 25 Nov 2024 19:20
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 67 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

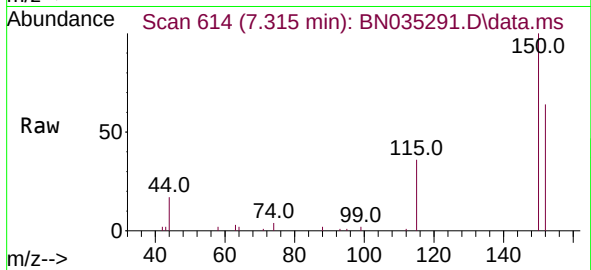
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 26 02:36:08 2024
Response via : Initial Calibration



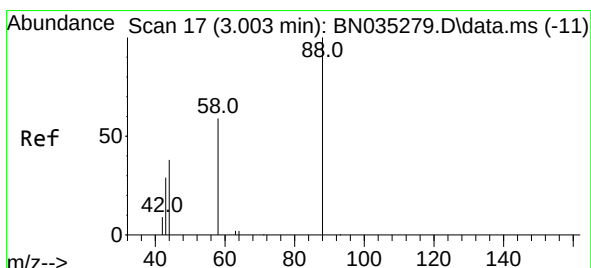
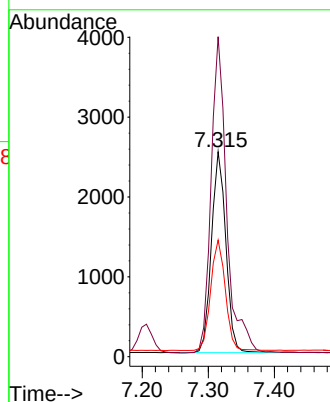
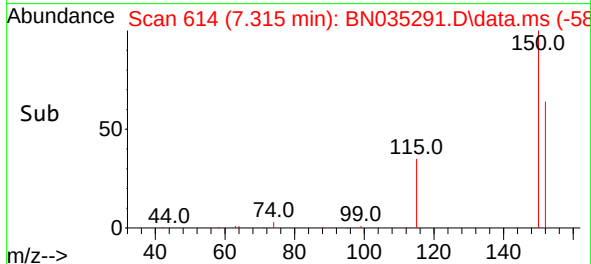


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.315 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: BN035291.D
 Acq: 25 Nov 2024 19:20

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

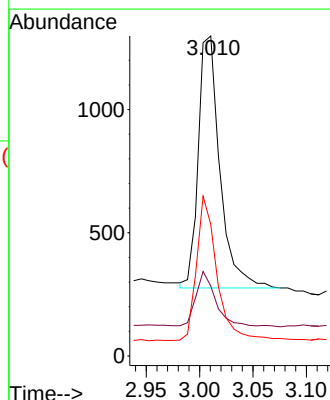
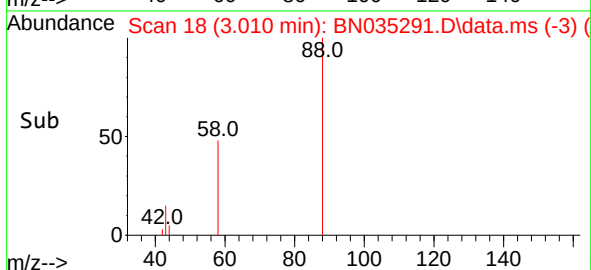
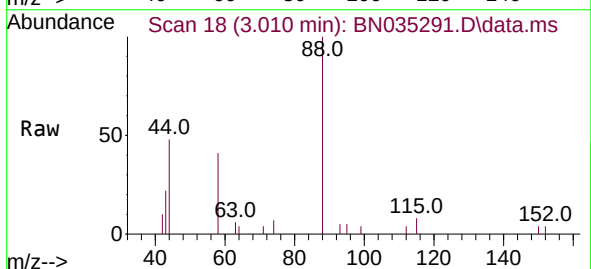


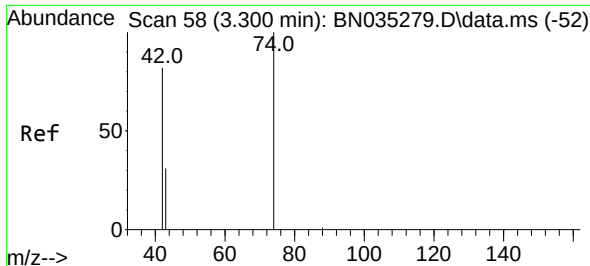
Tgt Ion:152 Resp: 3803
 Ion Ratio Lower Upper
 152 100
 150 156.1 124.5 186.7
 115 57.0 47.8 71.8



#2
 1,4-Dioxane
 Concen: 0.529 ng
 RT: 3.010 min Scan# 18
 Delta R.T. 0.007 min
 Lab File: BN035291.D
 Acq: 25 Nov 2024 19:20

Tgt Ion: 88 Resp: 1445
 Ion Ratio Lower Upper
 88 100
 43 20.5 48.1 72.1#
 58 53.4 46.9 70.3

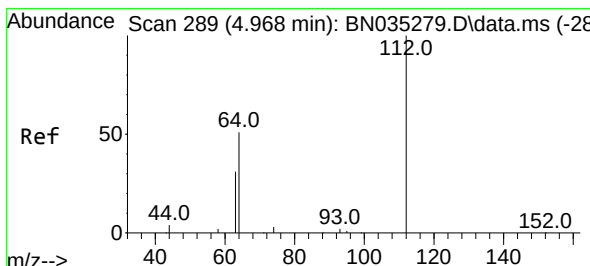
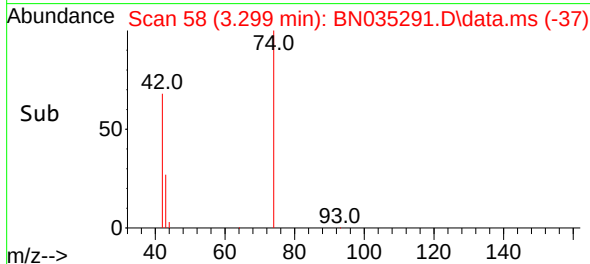
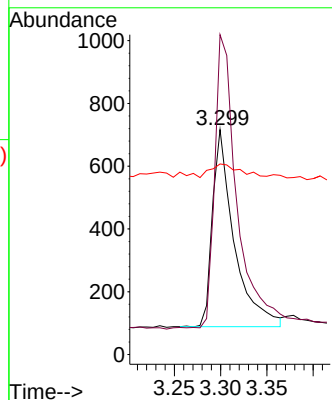
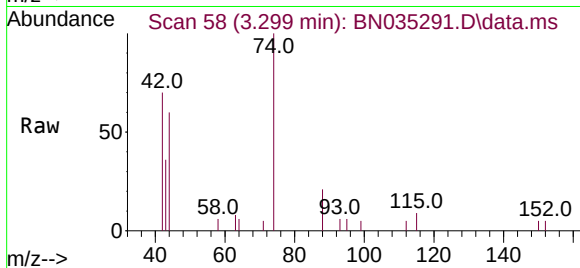




#3
n-Nitrosodimethylamine
Concen: 0.360 ng
RT: 3.299 min Scan# 58
Delta R.T. -0.001 min
Lab File: BN035291.D
Acq: 25 Nov 2024 19:20

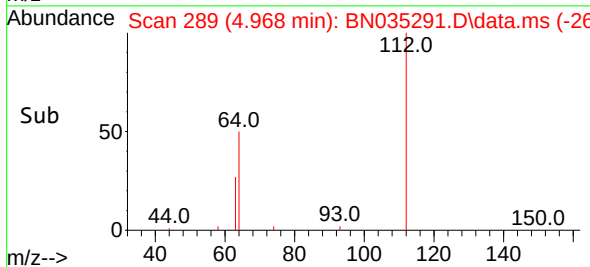
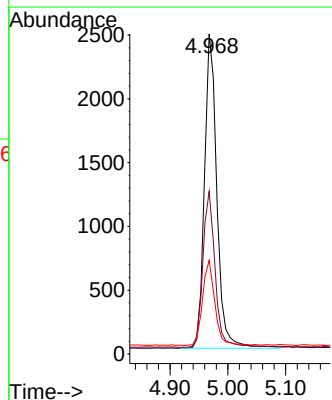
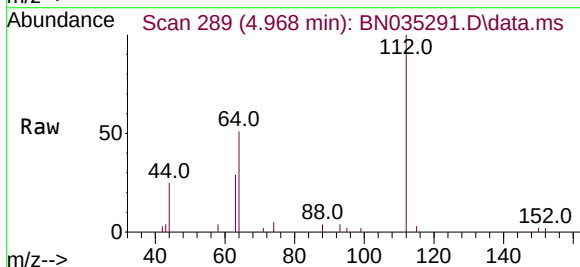
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

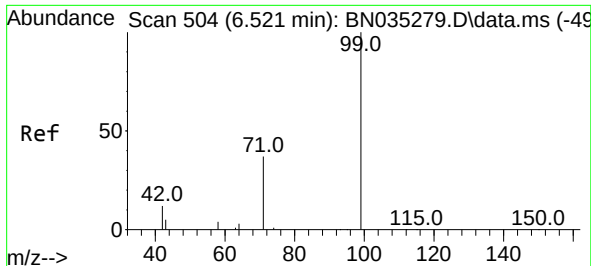
Tgt Ion: 42 Resp: 1020
Ion Ratio Lower Upper
42 100
74 160.9 102.7 154.1#
44 9.3 34.1 51.1#



#4
2-Fluorophenol
Concen: 0.511 ng
RT: 4.968 min Scan# 289
Delta R.T. -0.000 min
Lab File: BN035291.D
Acq: 25 Nov 2024 19:20

Tgt Ion: 112 Resp: 3673
Ion Ratio Lower Upper
112 100
64 49.8 40.4 60.6
63 27.0 23.8 35.8





#5

Phenol-d6

Concen: 0.471 ng

RT: 6.513 min Scan# 504

Delta R.T. -0.007 min

Lab File: BN035291.D

Acq: 25 Nov 2024 19:20

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

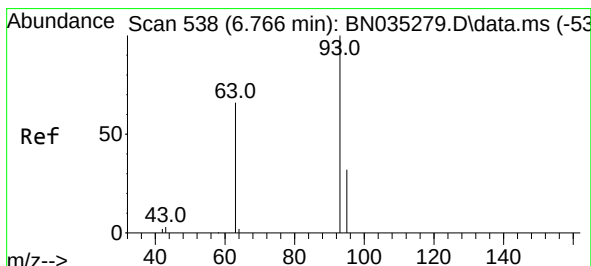
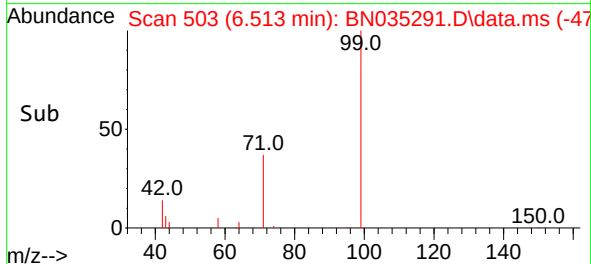
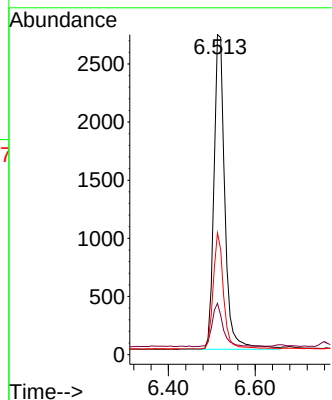
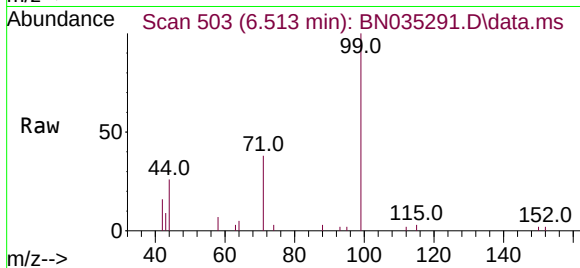
Tgt Ion: 99 Resp: 4730

Ion Ratio Lower Upper

99 100

42 13.7 12.8 19.2

71 35.5 31.4 47.2



#6

bis(2-Chloroethyl)ether

Concen: 0.439 ng

RT: 6.766 min Scan# 538

Delta R.T. -0.000 min

Lab File: BN035291.D

Acq: 25 Nov 2024 19:20

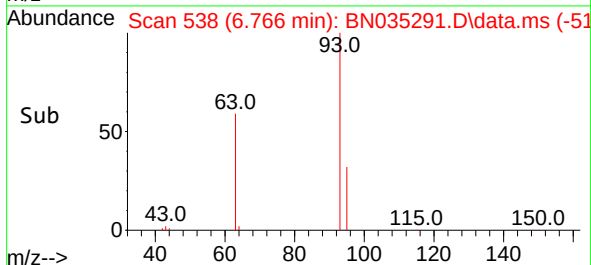
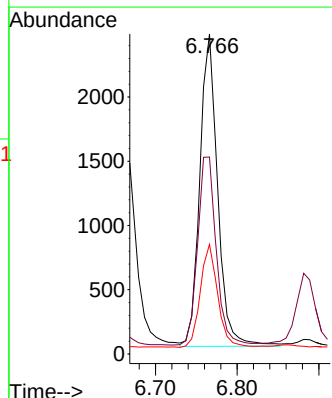
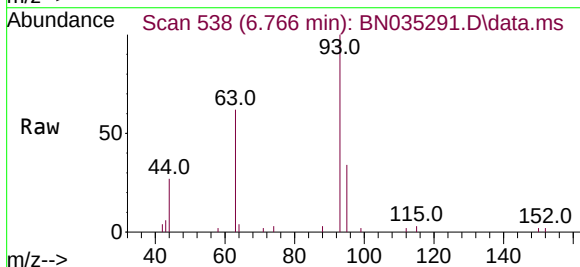
Tgt Ion: 93 Resp: 3708

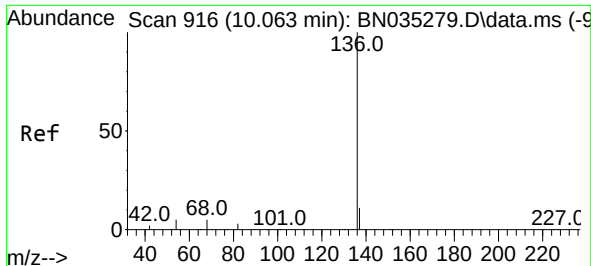
Ion Ratio Lower Upper

93 100

63 62.8 52.3 78.5

95 31.8 25.5 38.3

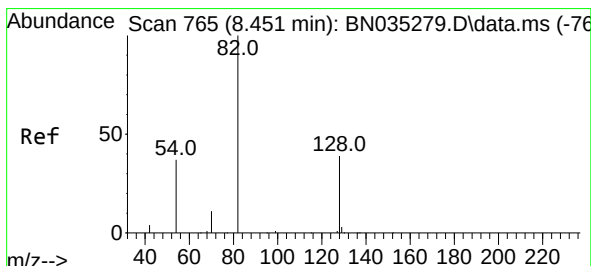
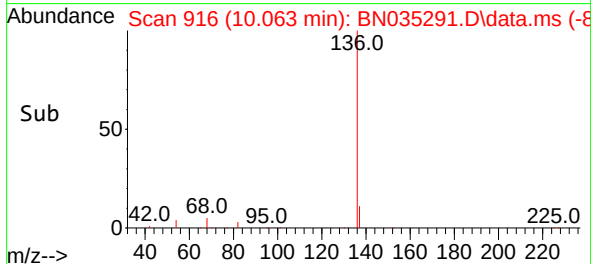
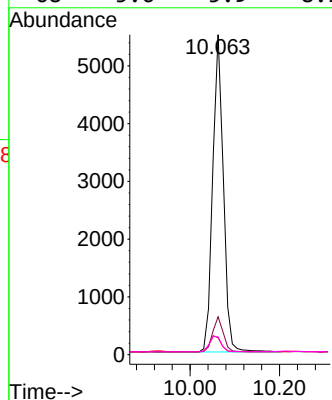
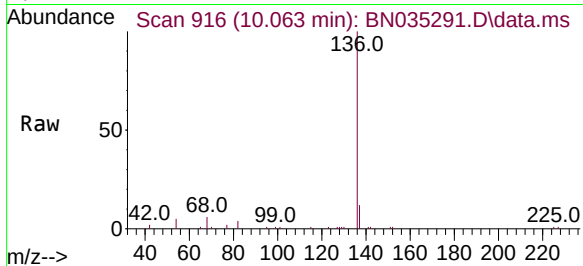




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.063 min Scan# 916
Delta R.T. -0.000 min
Lab File: BN035291.D
Acq: 25 Nov 2024 19:20

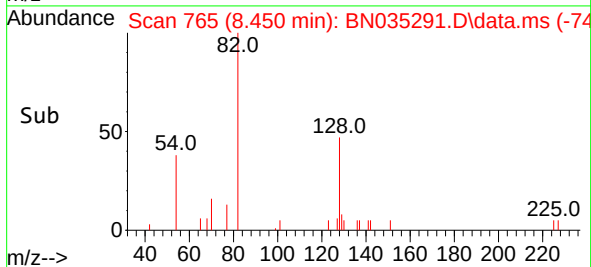
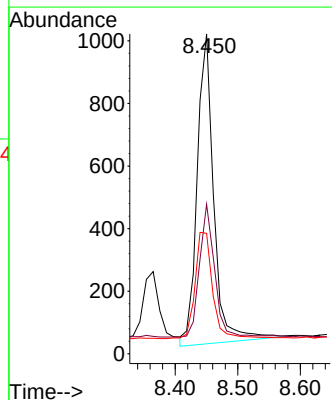
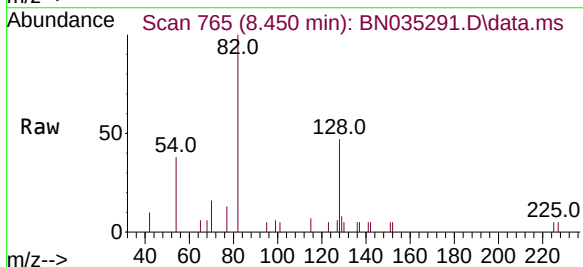
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

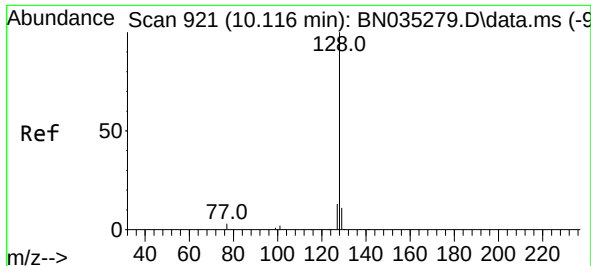
Tgt Ion:	136	Resp:	9055
Ion	Ratio	Lower	Upper
136	100		
137	11.8	9.7	14.5
54	5.3	5.3	7.9#
68	5.6	5.9	8.9#



#8
Nitrobenzene-d5
Concen: 0.249 ng
RT: 8.450 min Scan# 765
Delta R.T. -0.000 min
Lab File: BN035291.D
Acq: 25 Nov 2024 19:20

Tgt Ion:	82	Resp:	1829
Ion	Ratio	Lower	Upper
82	100		
128	46.8	33.0	49.4
54	37.7	33.3	49.9

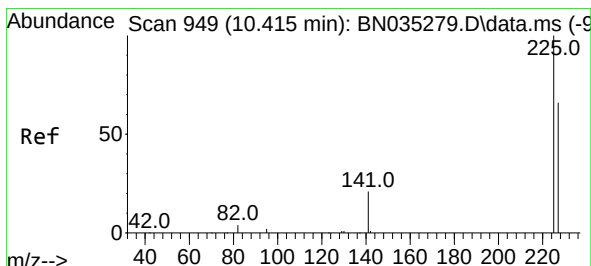
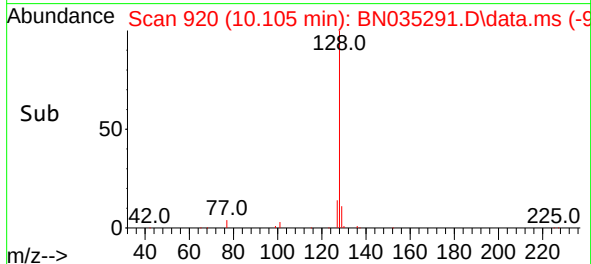
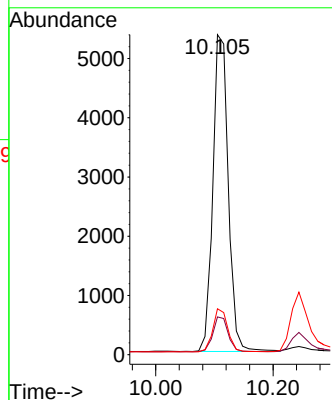
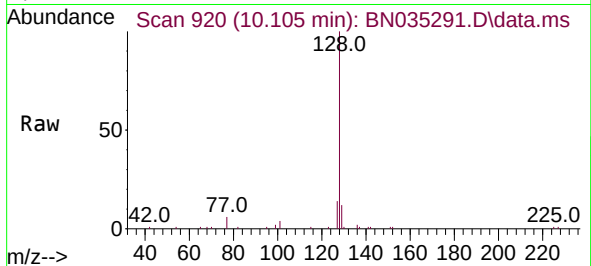




#9
Naphthalene
Concen: 0.387 ng
RT: 10.105 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035291.D
Acq: 25 Nov 2024 19:20

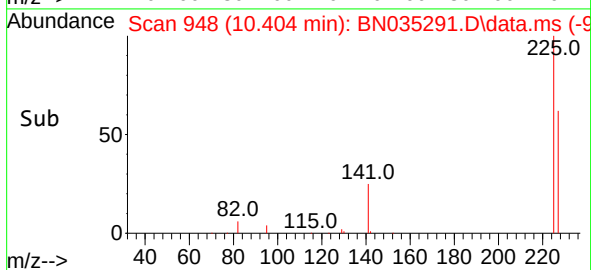
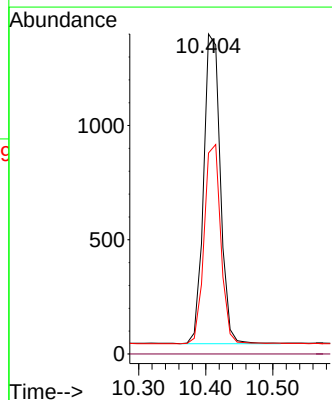
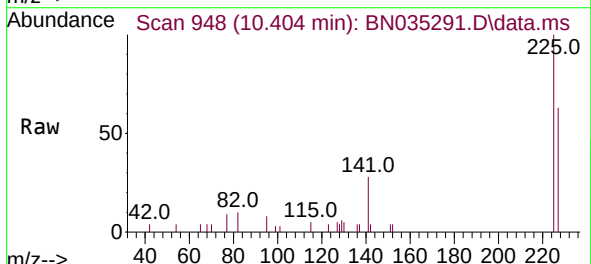
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

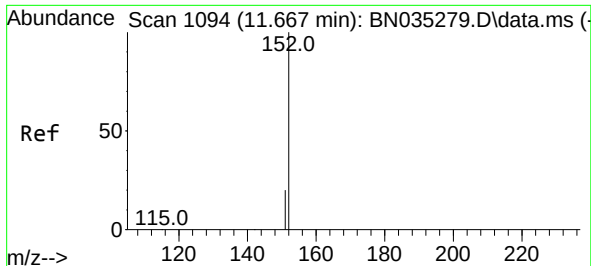
Tgt Ion:128 Resp: 9734
Ion Ratio Lower Upper
128 100
129 11.8 9.6 14.4
127 14.4 11.3 16.9



#10
Hexachlorobutadiene
Concen: 0.333 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.011 min
Lab File: BN035291.D
Acq: 25 Nov 2024 19:20

Tgt Ion:225 Resp: 2352
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.2 51.3 76.9

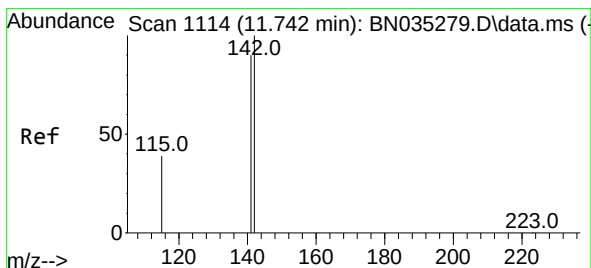
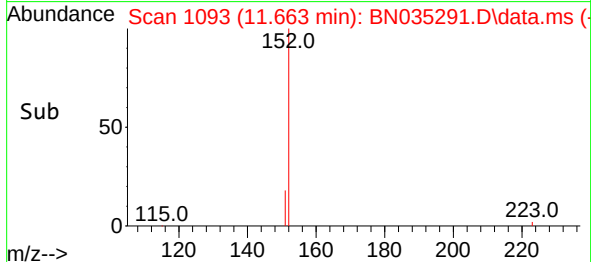
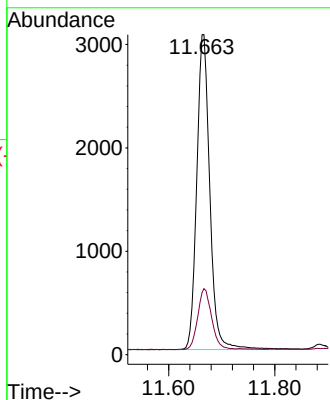
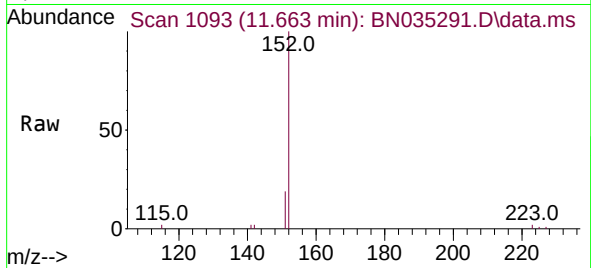




#11
2-Methylnaphthalene-d10
Concen: 0.410 ng
RT: 11.663 min Scan# 1093
Delta R.T. -0.004 min
Lab File: BN035291.D
Acq: 25 Nov 2024 19:20

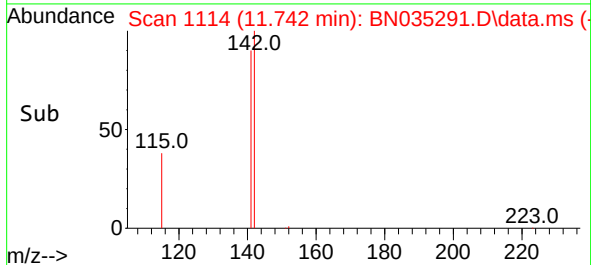
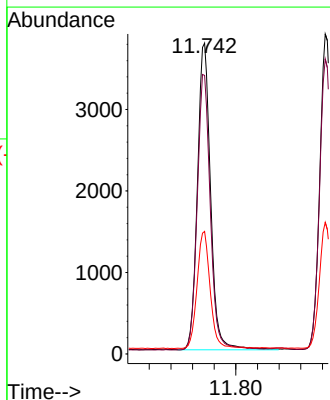
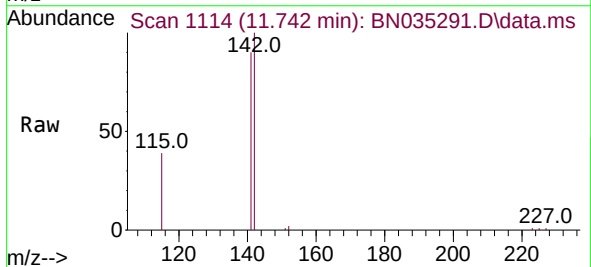
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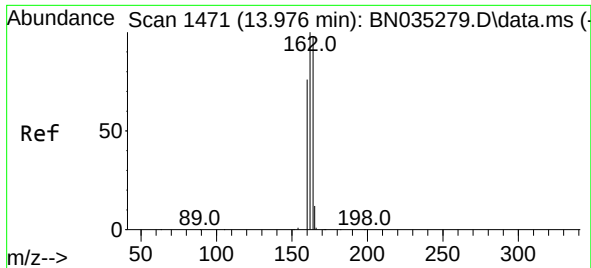
Tgt Ion:152 Resp: 5192
Ion Ratio Lower Upper
152 100
151 20.7 17.2 25.8



#12
2-Methylnaphthalene
Concen: 0.388 ng
RT: 11.742 min Scan# 1114
Delta R.T. 0.000 min
Lab File: BN035291.D
Acq: 25 Nov 2024 19:20

Tgt Ion:142 Resp: 6373
Ion Ratio Lower Upper
142 100
141 89.6 71.8 107.8
115 39.4 32.6 49.0

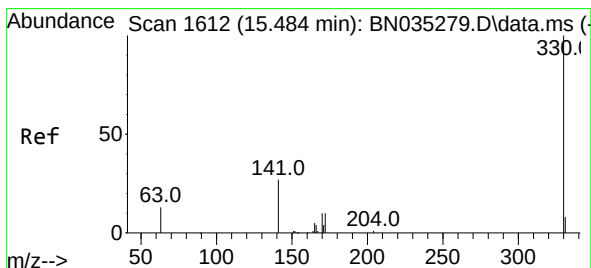
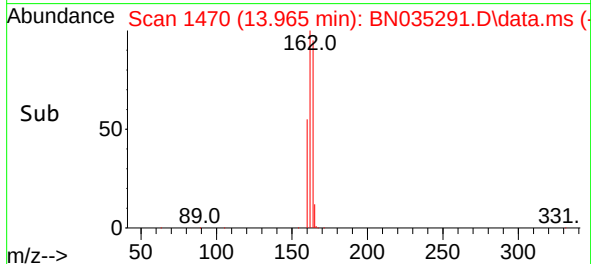
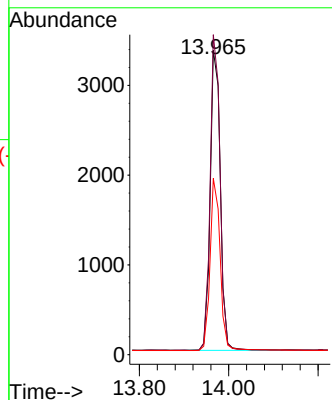
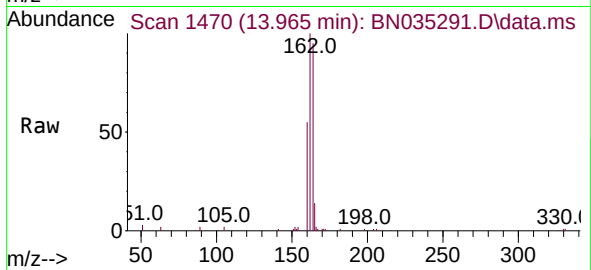




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.965 min Scan# 1470
Delta R.T. -0.011 min
Lab File: BN035291.D
Acq: 25 Nov 2024 19:20

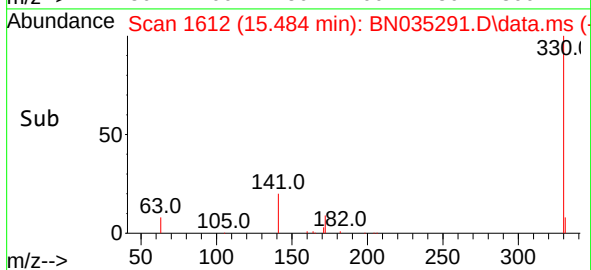
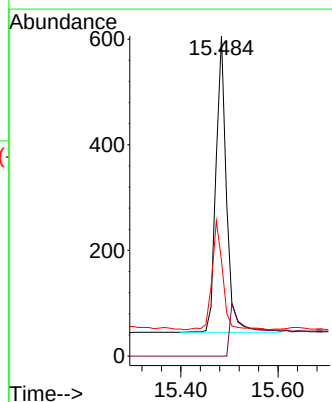
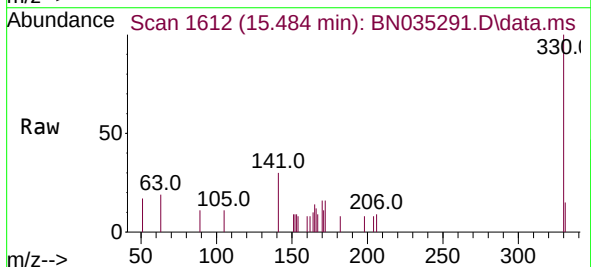
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

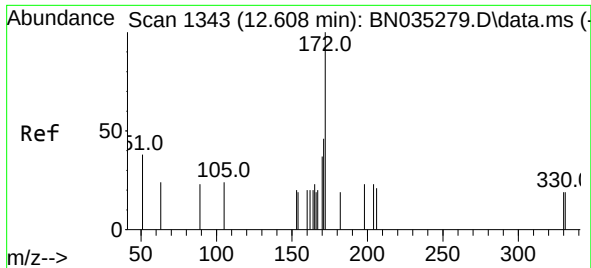
Tgt Ion:164 Resp: 5224
Ion Ratio Lower Upper
164 100
162 105.1 82.0 123.0
160 57.9 63.0 94.4#



#14
2,4,6-Tribromophenol
Concen: 0.338 ng
RT: 15.484 min Scan# 1612
Delta R.T. -0.000 min
Lab File: BN035291.D
Acq: 25 Nov 2024 19:20

Tgt Ion:330 Resp: 900
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 37.0 32.4 48.6

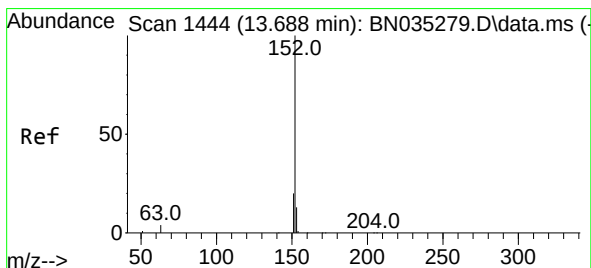
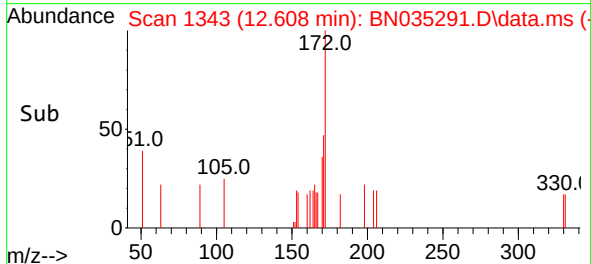
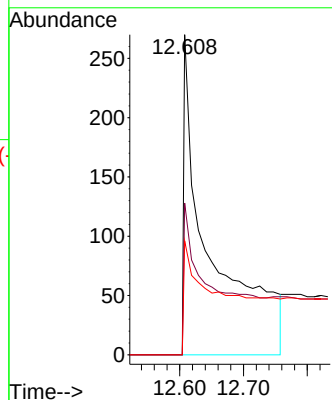
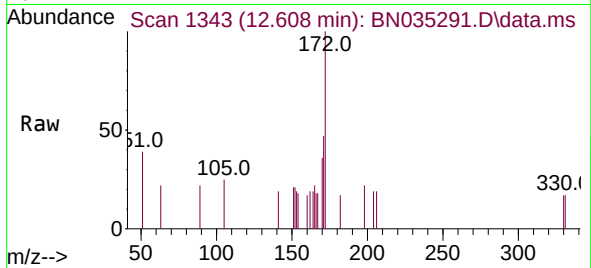




#15
2-Fluorobiphenyl
Concen: 0.260 ng
RT: 12.608 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN035291.D
Acq: 25 Nov 2024 19:20

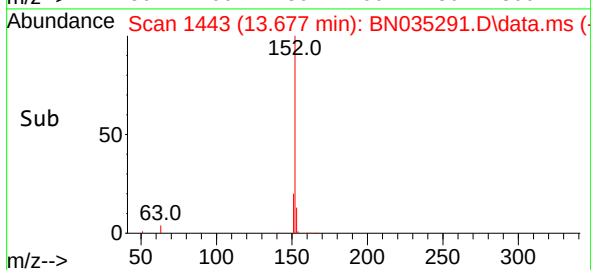
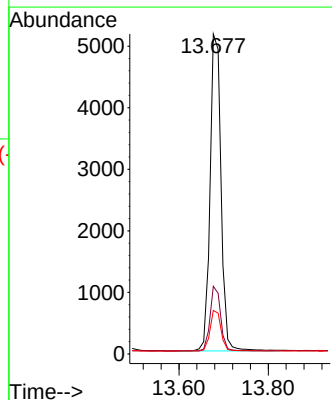
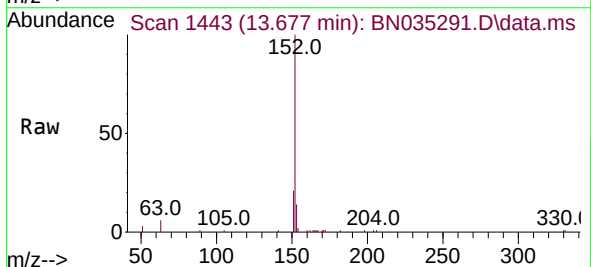
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

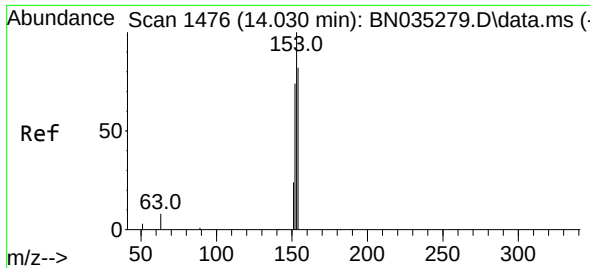
Tgt Ion:	172	Resp:	751
Ion	Ratio	Lower	Upper
172	100		
171	47.4	36.6	55.0
170	35.6	29.7	44.5



#16
Acenaphthylene
Concen: 0.332 ng
RT: 13.677 min Scan# 1443
Delta R.T. -0.011 min
Lab File: BN035291.D
Acq: 25 Nov 2024 19:20

Tgt Ion:	152	Resp:	8730
Ion	Ratio	Lower	Upper
152	100		
151	19.8	15.9	23.9
153	12.8	10.2	15.4

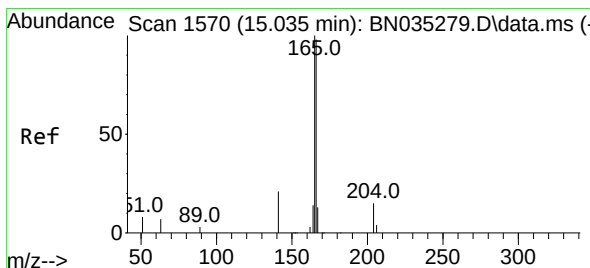
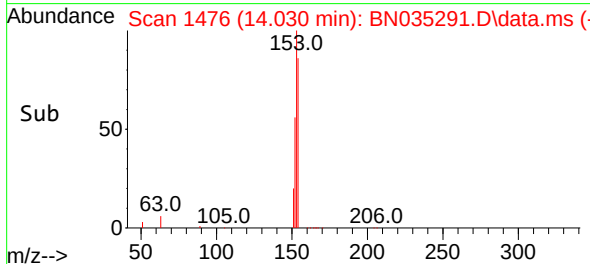
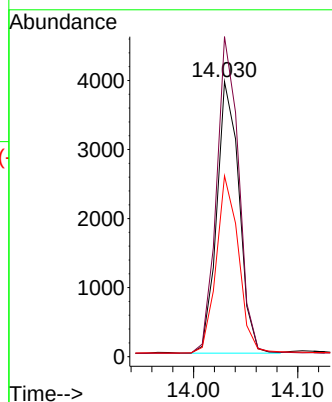
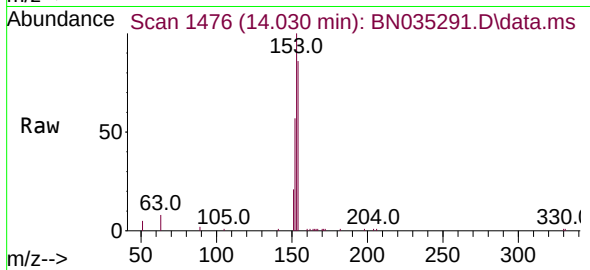




#17
Acenaphthene
Concen: 0.354 ng
RT: 14.030 min Scan# 1476
Delta R.T. -0.000 min
Lab File: BN035291.D
Acq: 25 Nov 2024 19:20

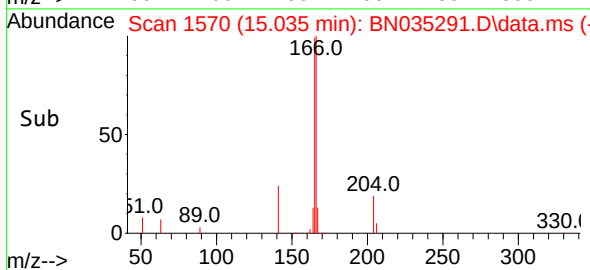
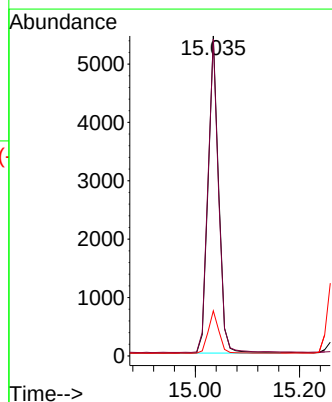
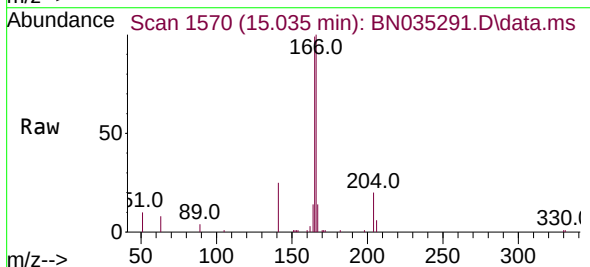
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

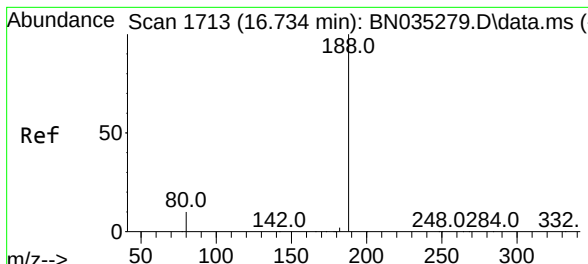
Tgt Ion:154 Resp: 5862
Ion Ratio Lower Upper
154 100
153 116.4 96.1 144.1
152 65.4 72.2 108.2#



#18
Fluorene
Concen: 0.328 ng
RT: 15.035 min Scan# 1570
Delta R.T. -0.000 min
Lab File: BN035291.D
Acq: 25 Nov 2024 19:20

Tgt Ion:166 Resp: 7622
Ion Ratio Lower Upper
166 100
165 98.9 81.2 121.8
167 13.4 10.5 15.7

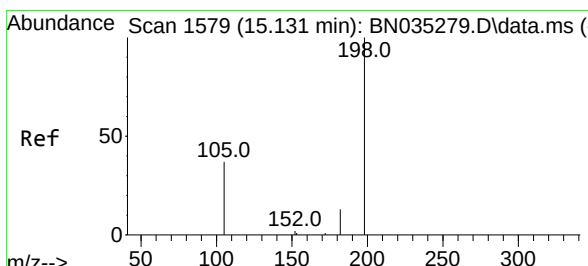
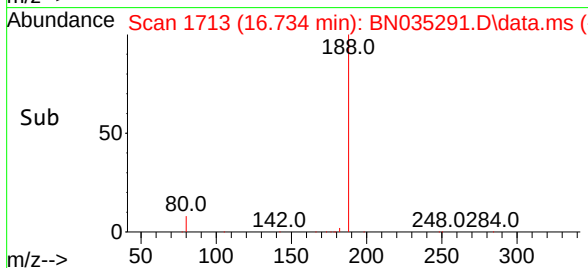
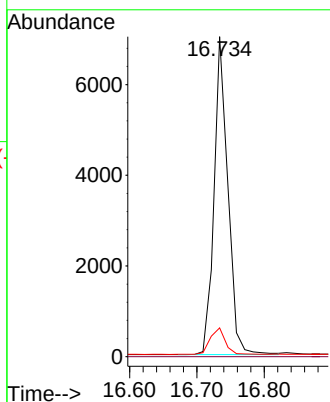
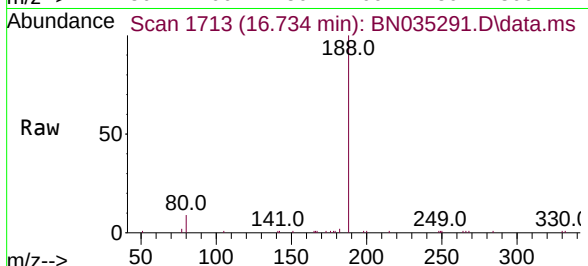




#19
 Phenanthrene-d10
 Concen: 0.400 ng
 RT: 16.734 min Scan# 1713
 Delta R.T. -0.000 min
 Lab File: BN035291.D
 Acq: 25 Nov 2024 19:20

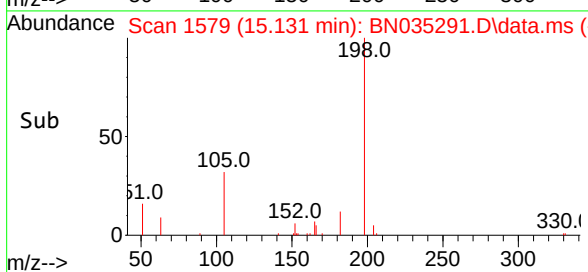
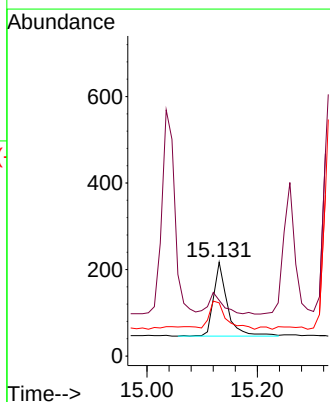
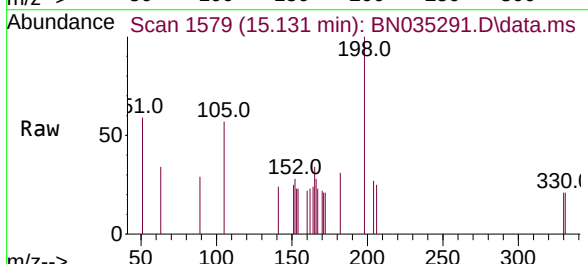
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

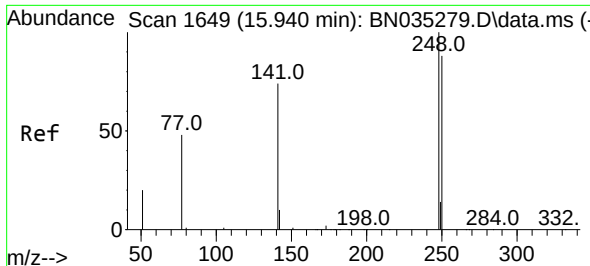
Tgt Ion:188	Resp:	9941
Ion Ratio	Lower	Upper
188	100	
94	0.0	0.0
80	9.0	13.3



#20
 4,6-Dinitro-2-methylphenol
 Concen: 0.395 ng
 RT: 15.131 min Scan# 1579
 Delta R.T. -0.000 min
 Lab File: BN035291.D
 Acq: 25 Nov 2024 19:20

Tgt Ion:198	Resp:	296
Ion Ratio	Lower	Upper
198	100	
51	59.4	80.4
105	56.7	71.2

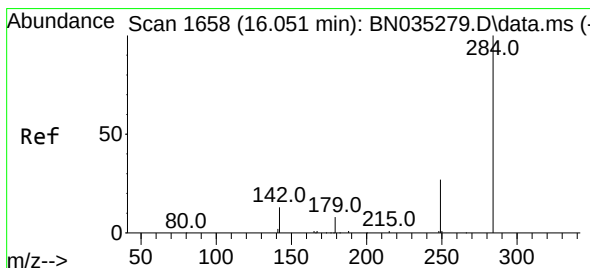
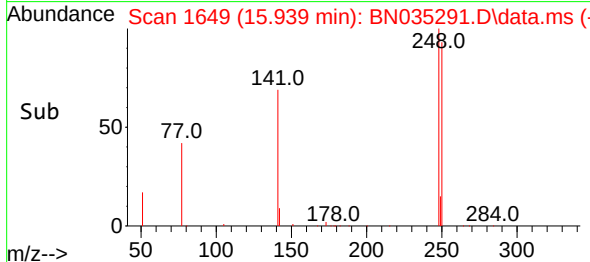
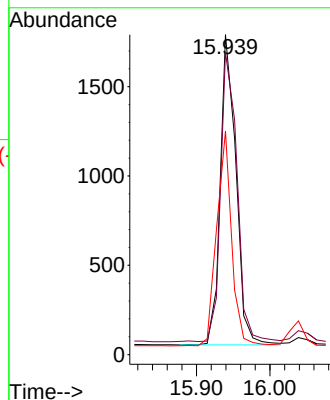
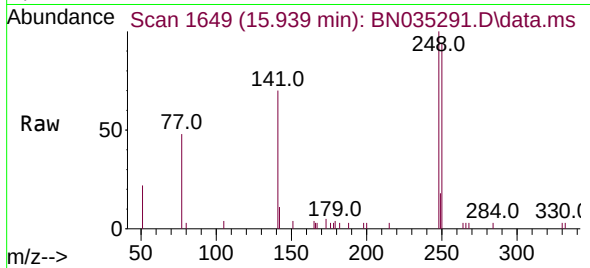




#21
4-Bromophenyl-phenylether
Concen: 0.409 ng
RT: 15.939 min Scan# 1649
Delta R.T. -0.001 min
Lab File: BN035291.D
Acq: 25 Nov 2024 19:20

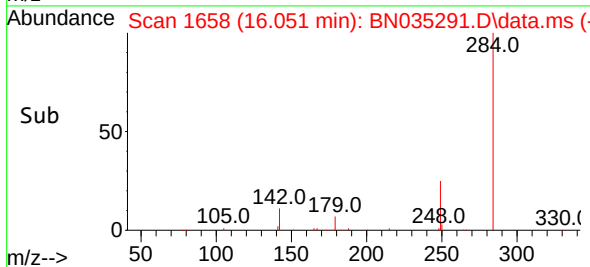
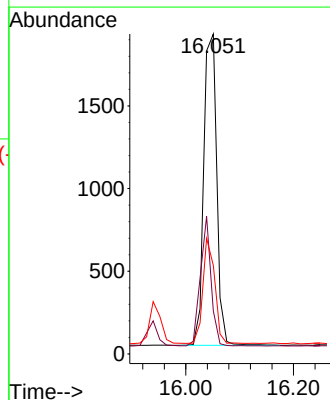
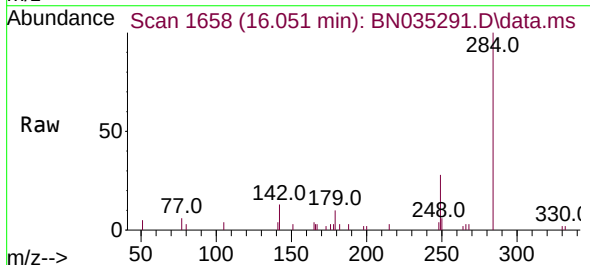
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

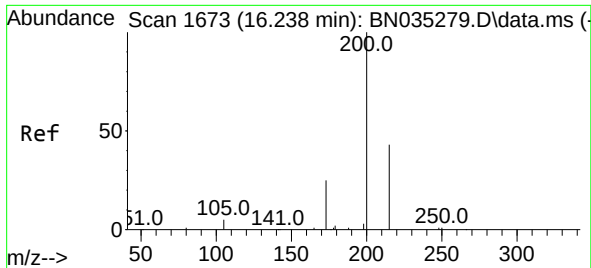
Tgt Ion:248 Resp: 2578
Ion Ratio Lower Upper
248 100
250 94.5 74.8 112.2
141 69.9 59.0 88.4



#22
Hexachlorobenzene
Concen: 0.349 ng
RT: 16.051 min Scan# 1658
Delta R.T. -0.000 min
Lab File: BN035291.D
Acq: 25 Nov 2024 19:20

Tgt Ion:284 Resp: 3153
Ion Ratio Lower Upper
284 100
142 34.5 28.7 43.1
249 30.7 25.4 38.0

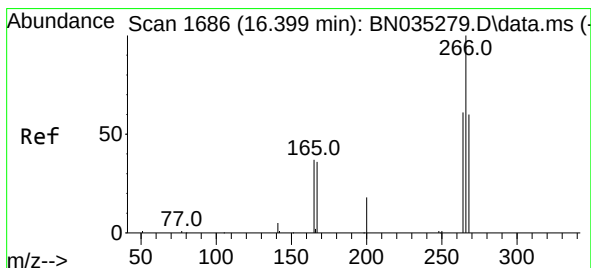
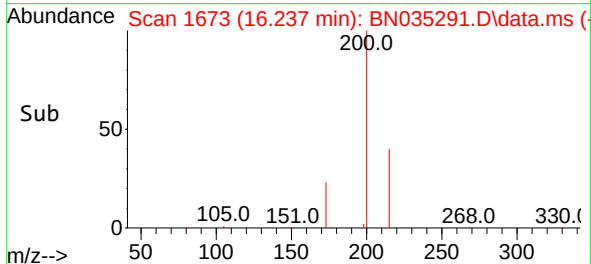
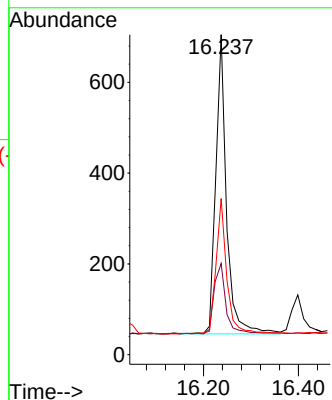
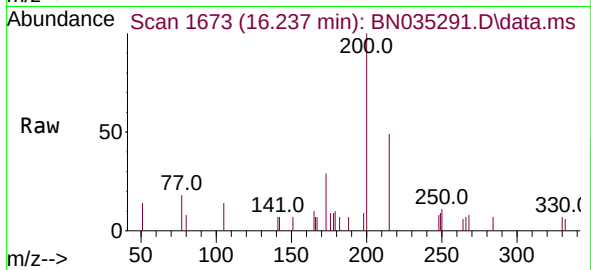




#23
 Atrazine
 Concen: 0.390 ng
 RT: 16.237 min Scan# 1673
 Delta R.T. -0.000 min
 Lab File: BN035291.D
 Acq: 25 Nov 2024 19:20

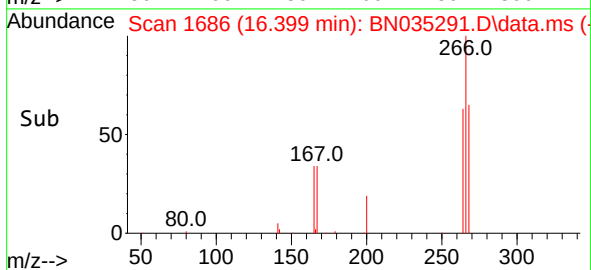
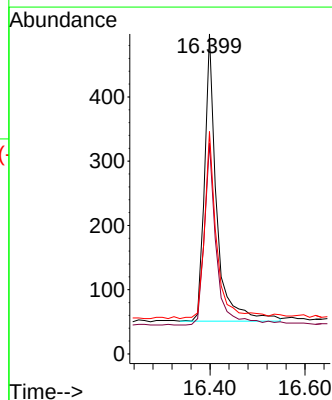
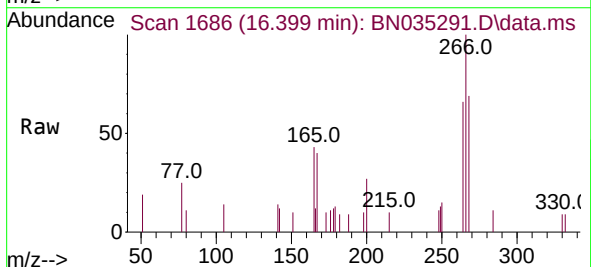
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

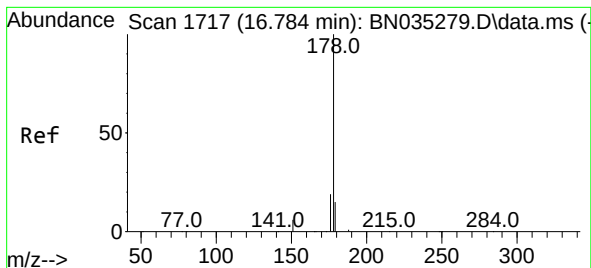
Tgt Ion:200 Resp: 1035
 Ion Ratio Lower Upper
 200 100
 173 28.5 25.8 38.8
 215 48.8 38.6 58.0



#24
 Pentachlorophenol
 Concen: 0.366 ng
 RT: 16.399 min Scan# 1686
 Delta R.T. -0.000 min
 Lab File: BN035291.D
 Acq: 25 Nov 2024 19:20

Tgt Ion:266 Resp: 792
 Ion Ratio Lower Upper
 266 100
 264 63.5 49.3 73.9
 268 65.0 48.6 73.0





#25

Phenanthrene

Concen: 0.358 ng

RT: 16.771 min Scan# 1716

Delta R.T. -0.013 min

Lab File: BN035291.D

Acq: 25 Nov 2024 19:20

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

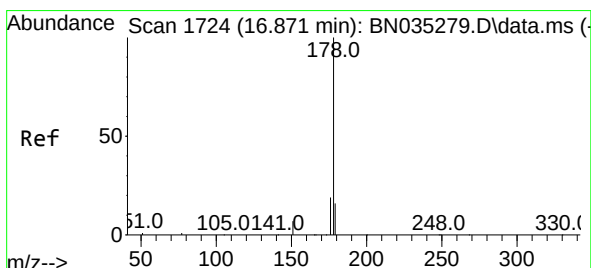
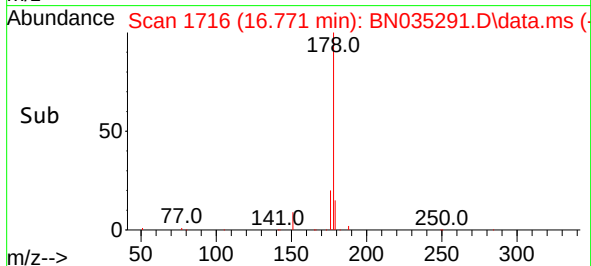
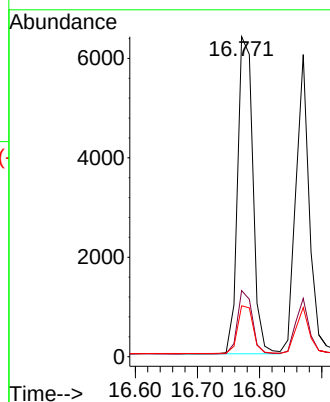
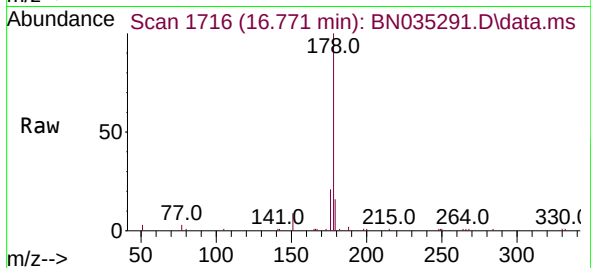
Tgt Ion:178 Resp: 10947

Ion Ratio Lower Upper

178 100

176 19.2 15.4 23.0

179 15.3 12.6 18.8



#26

Anthracene

Concen: 0.349 ng

RT: 16.870 min Scan# 1724

Delta R.T. -0.000 min

Lab File: BN035291.D

Acq: 25 Nov 2024 19:20

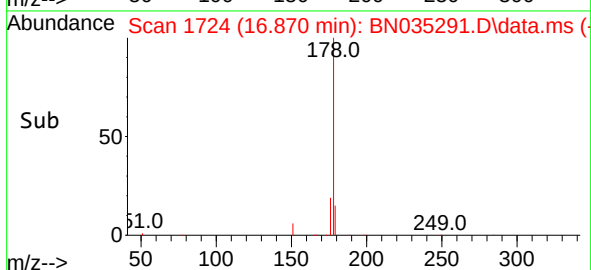
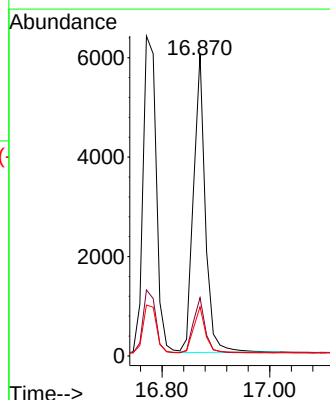
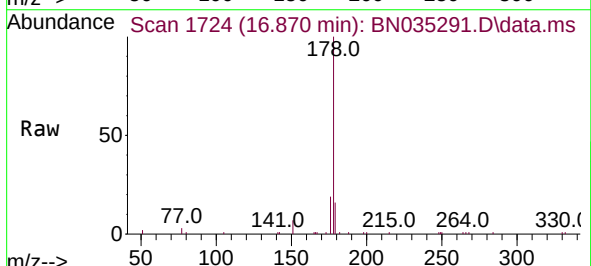
Tgt Ion:178 Resp: 9149

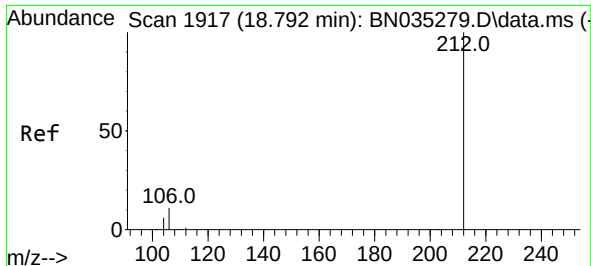
Ion Ratio Lower Upper

178 100

176 18.7 15.0 22.4

179 15.3 12.4 18.6

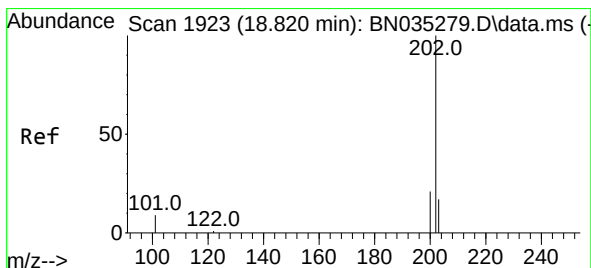
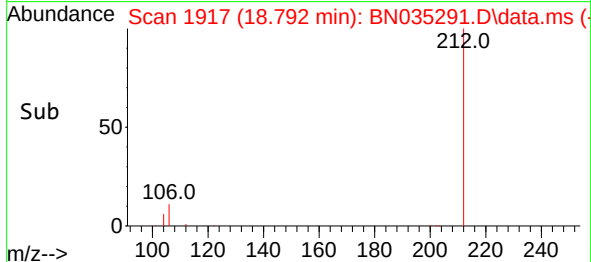
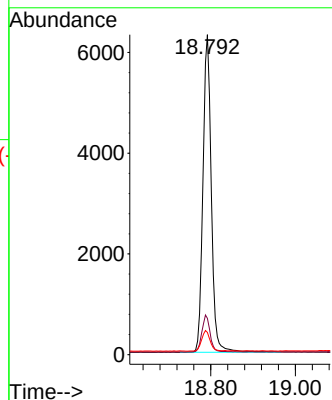
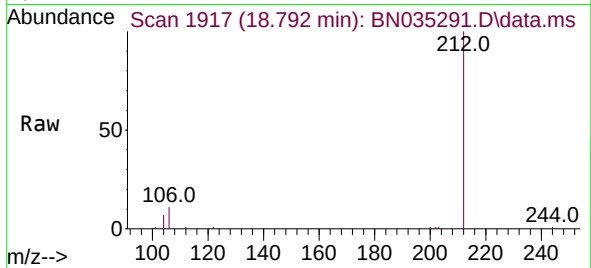




#27
Fluoranthene-d10
Concen: 0.325 ng
RT: 18.792 min Scan# 1917
Delta R.T. -0.000 min
Lab File: BN035291.D
Acq: 25 Nov 2024 19:20

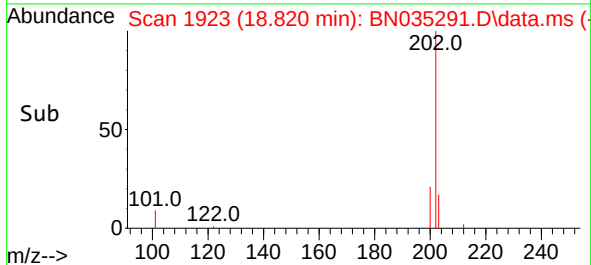
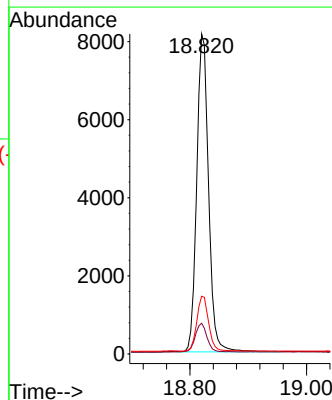
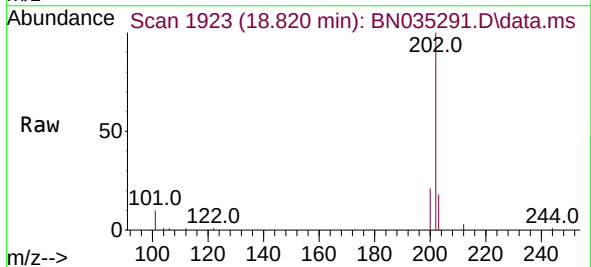
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

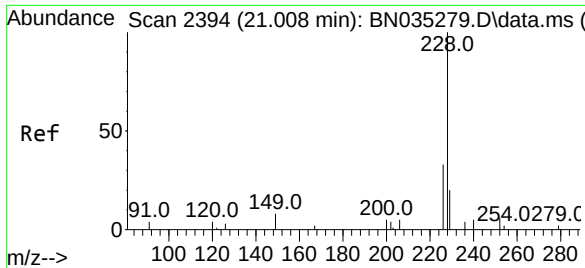
Tgt Ion	Ratio	Lower	Upper
212	100		
106	11.5	9.8	14.8
104	6.6	5.6	8.4



#28
Fluoranthene
Concen: 0.296 ng
RT: 18.820 min Scan# 1923
Delta R.T. 0.000 min
Lab File: BN035291.D
Acq: 25 Nov 2024 19:20

Tgt Ion	Ratio	Lower	Upper
202	100		
101	9.0	7.6	11.4
203	17.2	13.8	20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.008 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035291.D

Acq: 25 Nov 2024 19:20

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

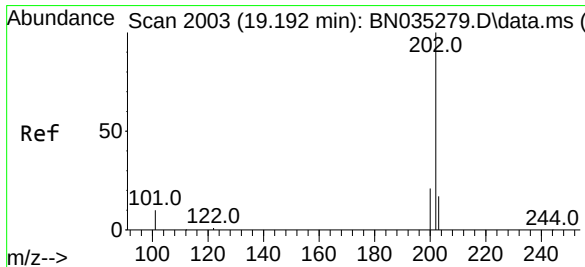
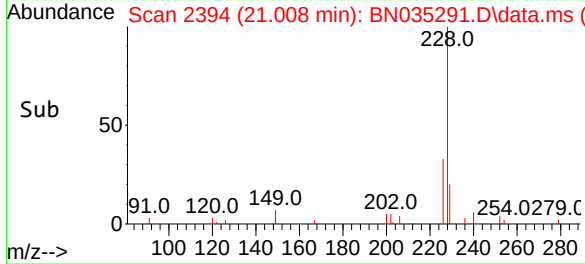
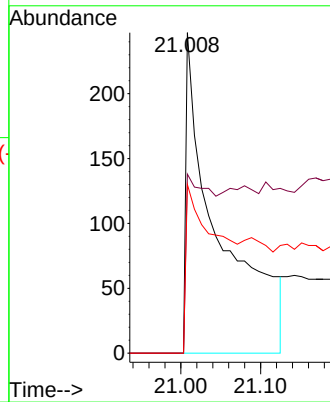
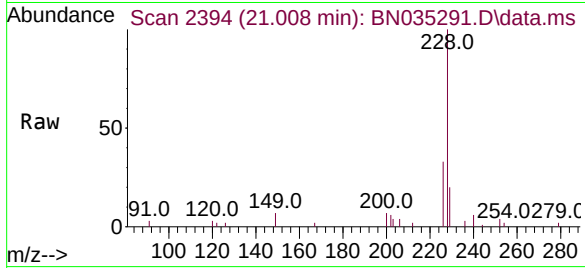
Tgt Ion:240 Resp: 677

Ion Ratio Lower Upper

240 100

120 55.9 54.9 82.3

236 52.6 54.0 81.0#



#30

Pyrene

Concen: 0.449 ng

RT: 19.187 min Scan# 2002

Delta R.T. -0.005 min

Lab File: BN035291.D

Acq: 25 Nov 2024 19:20

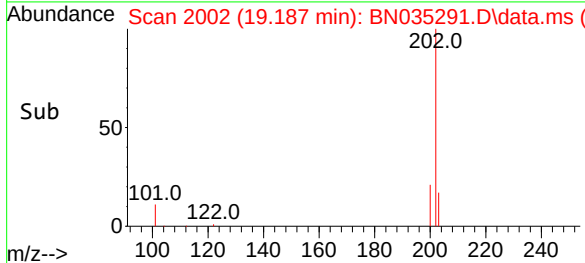
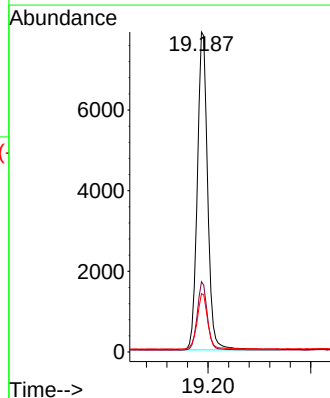
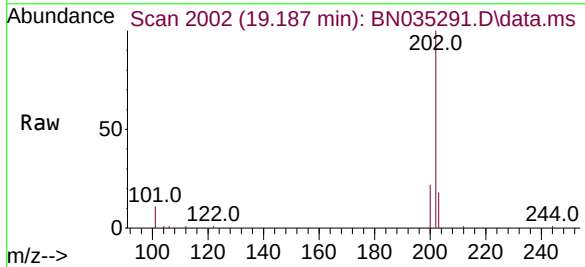
Tgt Ion:202 Resp: 11057

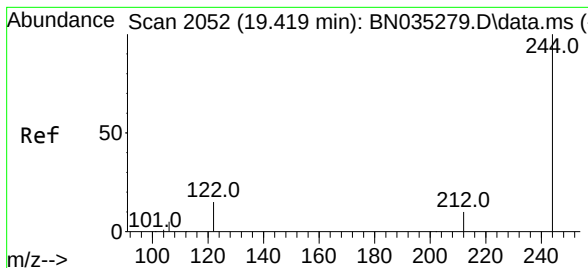
Ion Ratio Lower Upper

202 100

200 21.0 16.8 25.2

203 17.9 14.4 21.6





#31

Terphenyl-d14

Concen: 0.456 ng

RT: 19.419 min Scan# 2052

Delta R.T. 0.000 min

Lab File: BN035291.D

Acq: 25 Nov 2024 19:20

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

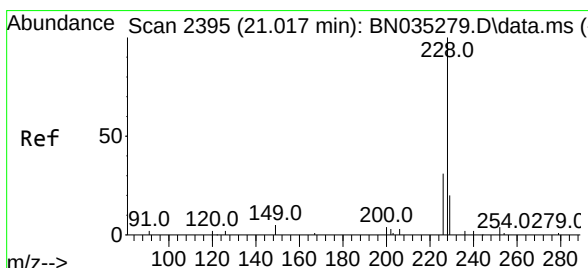
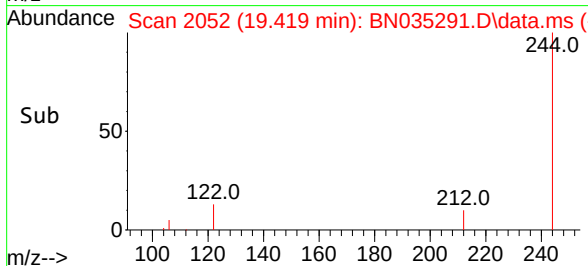
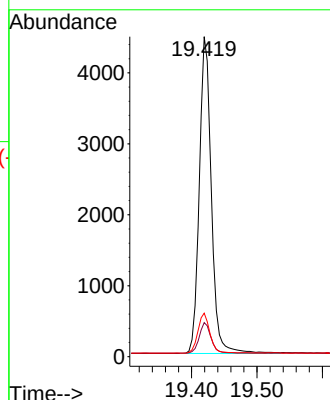
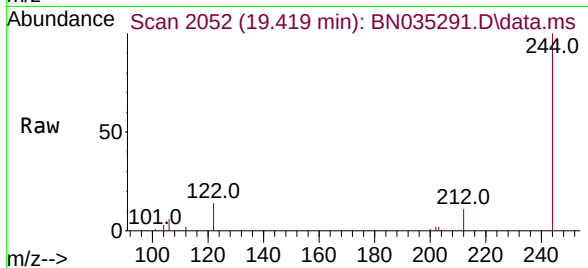
Tgt Ion:244 Resp: 5704

Ion Ratio Lower Upper

244 100

212 10.6 9.4 14.0

122 13.6 13.0 19.4



#32

Benzo(a)anthracene

Concen: 0.422 ng

RT: 21.017 min Scan# 2395

Delta R.T. 0.000 min

Lab File: BN035291.D

Acq: 25 Nov 2024 19:20

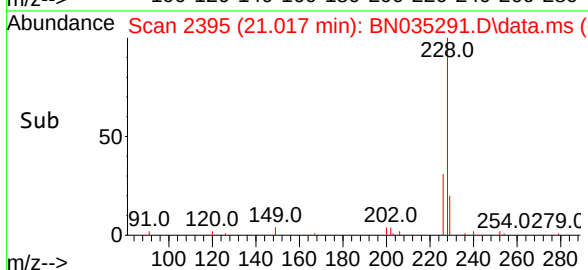
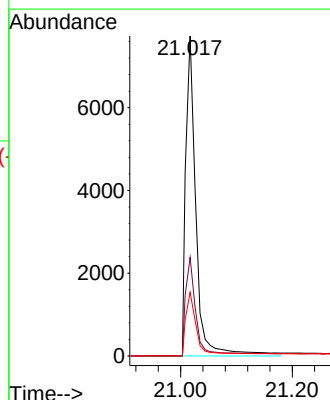
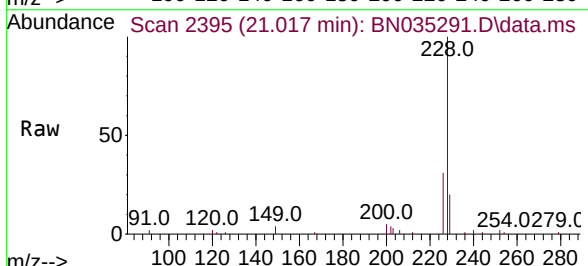
Tgt Ion:228 Resp: 9935

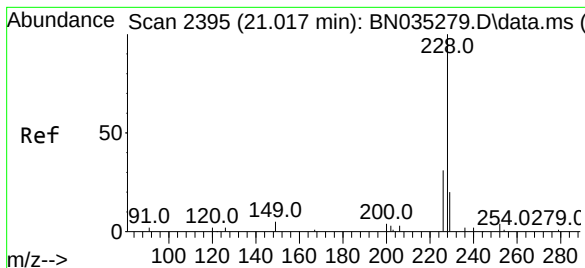
Ion Ratio Lower Upper

228 100

226 30.8 24.7 37.1

229 19.9 16.2 24.2





#33

Chrysene

Concen: 0.422 ng

RT: 21.017 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035291.D

Acq: 25 Nov 2024 19:20

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

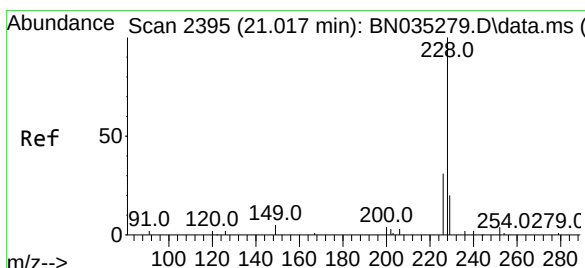
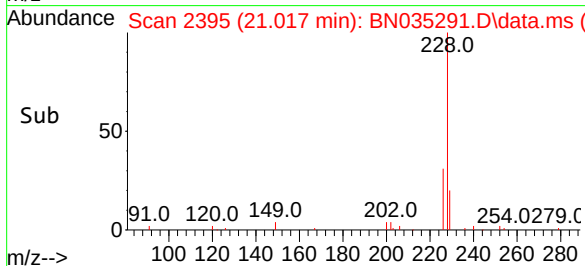
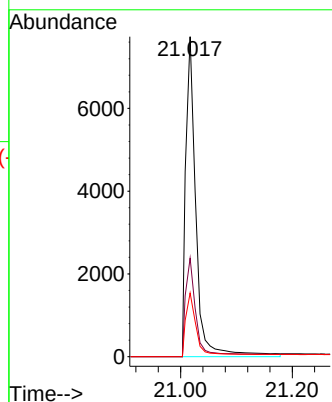
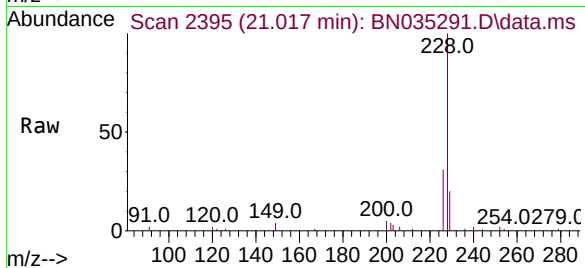
Tgt Ion:228 Resp: 9935

Ion Ratio Lower Upper

228 100

226 30.8 24.7 37.1

229 19.9 16.2 24.2



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.432 ng

RT: 21.017 min Scan# 2395

Delta R.T. 0.000 min

Lab File: BN035291.D

Acq: 25 Nov 2024 19:20

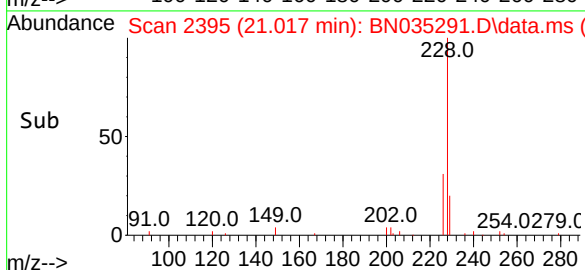
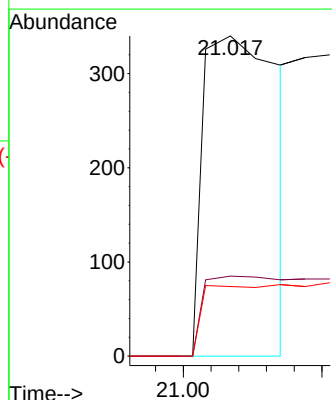
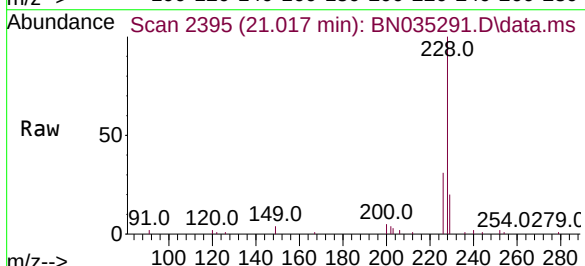
Tgt Ion:149 Resp: 560

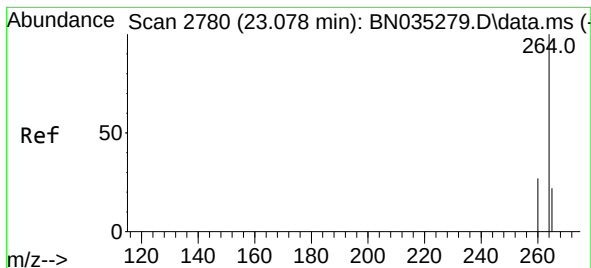
Ion Ratio Lower Upper

149 100

167 25.7 0.0 0.0#

279 16.3 13.0 19.6





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.081 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN035291.D

Acq: 25 Nov 2024 19:20

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

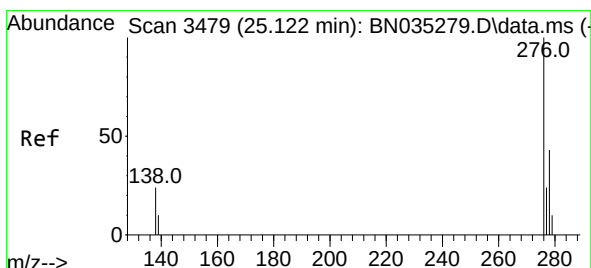
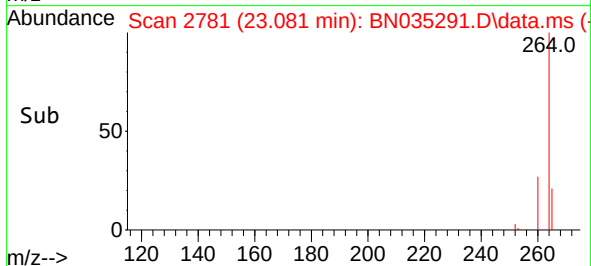
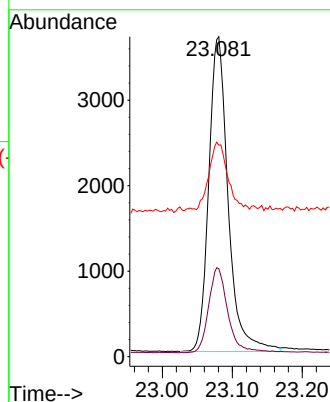
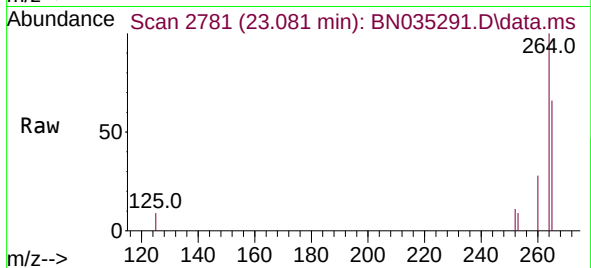
Tgt Ion:264 Resp: 7069

Ion Ratio Lower Upper

264 100

260 27.6 22.3 33.5

265 66.1 68.6 103.0#



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.394 ng

RT: 25.121 min Scan# 3479

Delta R.T. -0.000 min

Lab File: BN035291.D

Acq: 25 Nov 2024 19:20

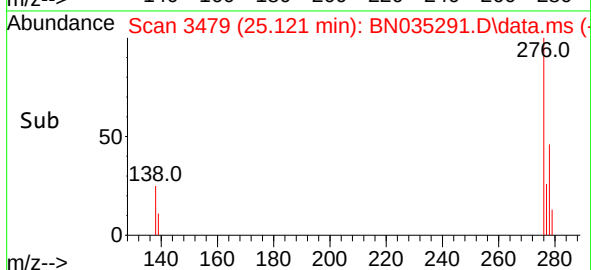
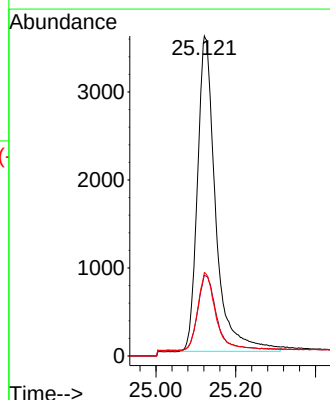
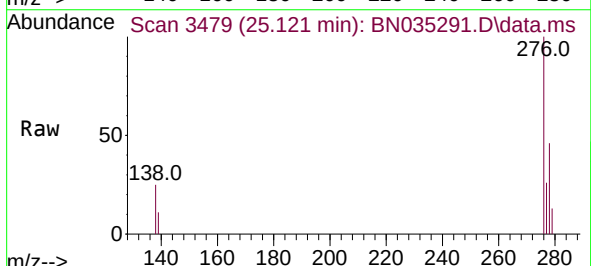
Tgt Ion:276 Resp: 11395

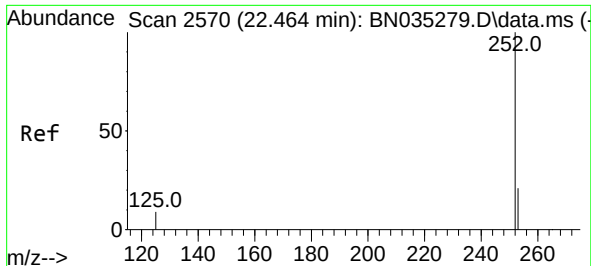
Ion Ratio Lower Upper

276 100

138 23.3 18.8 28.2

277 24.2 18.2 27.4





#37

Benzo(b)fluoranthene

Concen: 0.313 ng

RT: 22.464 min Scan# 2570

Delta R.T. -0.000 min

Lab File: BN035291.D

Acq: 25 Nov 2024 19:20

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

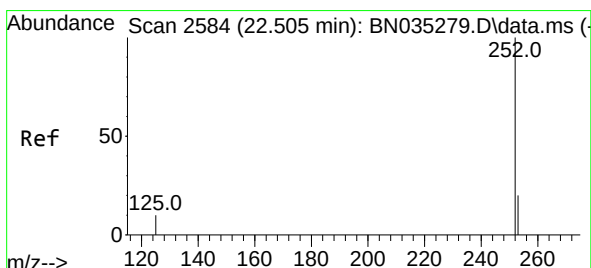
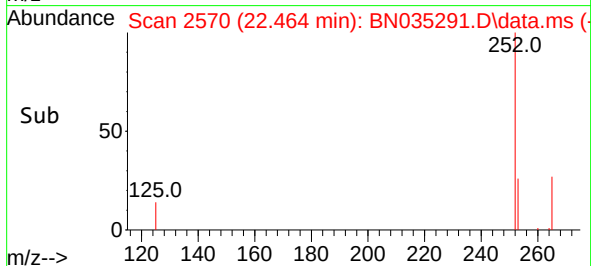
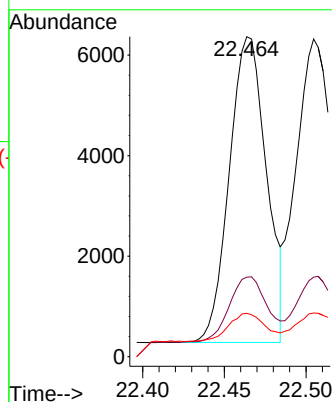
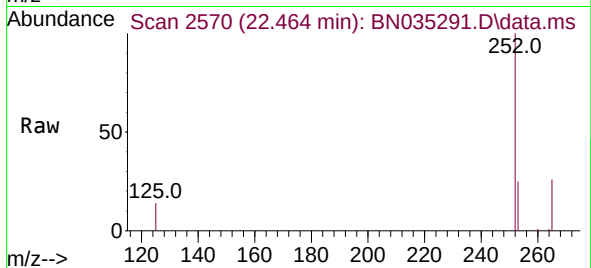
Tgt Ion:252 Resp: 9613

Ion Ratio Lower Upper

252 100

253 24.8 20.2 30.2

125 13.6 12.0 18.0



#38

Benzo(k)fluoranthene

Concen: 0.328 ng

RT: 22.505 min Scan# 2584

Delta R.T. -0.000 min

Lab File: BN035291.D

Acq: 25 Nov 2024 19:20

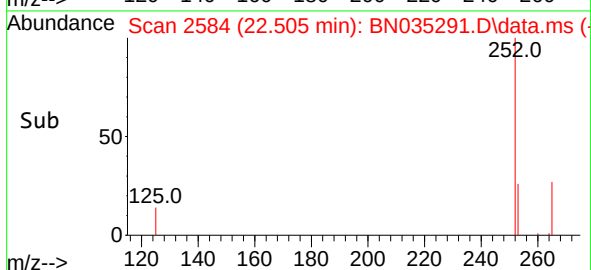
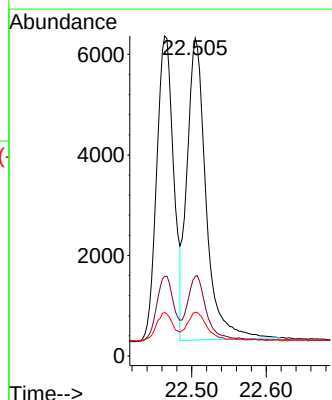
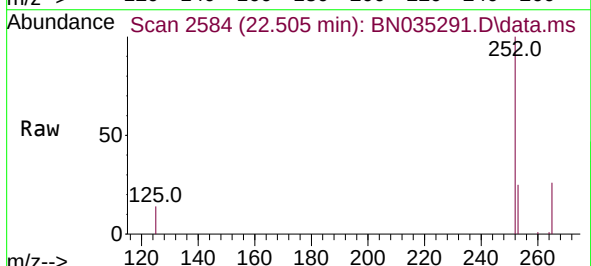
Tgt Ion:252 Resp: 10650

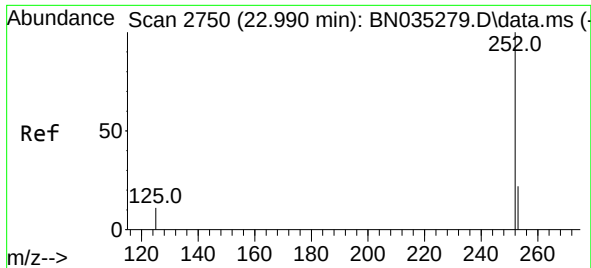
Ion Ratio Lower Upper

252 100

253 25.0 20.1 30.1

125 13.7 12.7 19.1

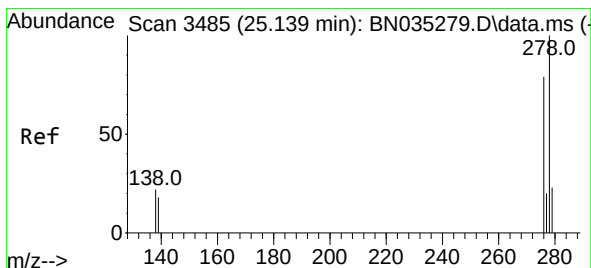
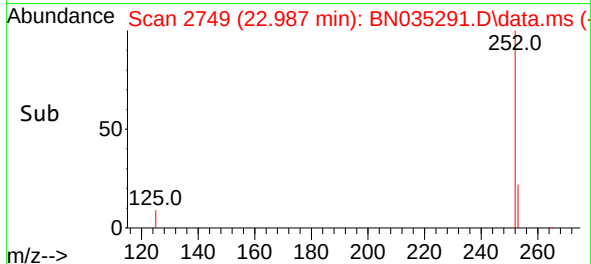
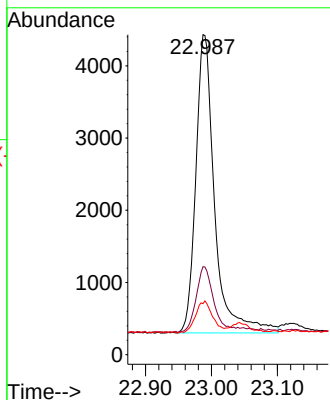
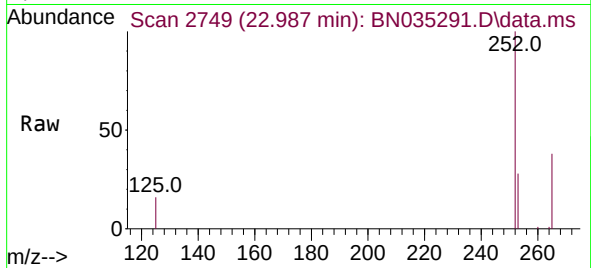




#39
Benzo(a)pyrene
Concen: 0.350 ng
RT: 22.987 min Scan# 21
Delta R.T. -0.003 min
Lab File: BN035291.D
Acq: 25 Nov 2024 19:20

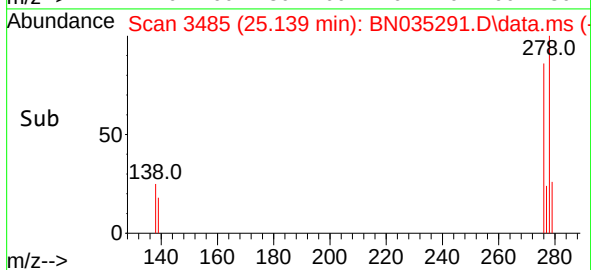
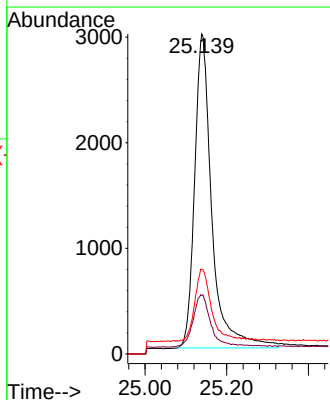
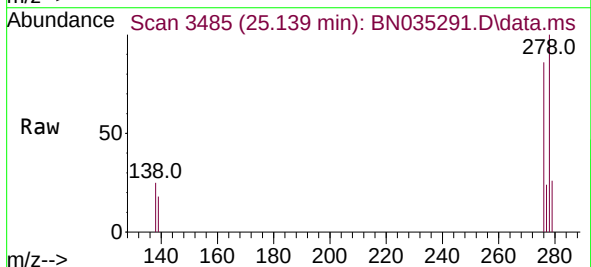
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

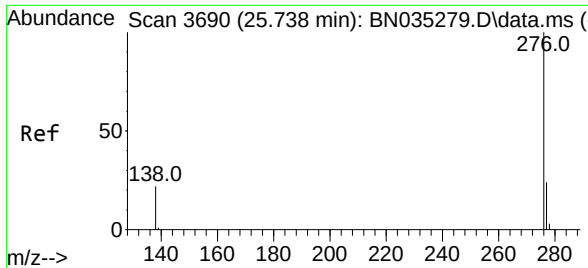
Tgt Ion:252 Resp: 8220
Ion Ratio Lower Upper
252 100
253 27.5 22.3 33.5
125 16.0 15.3 22.9



#40
Dibenzo(a,h)anthracene
Concen: 0.399 ng
RT: 25.139 min Scan# 3485
Delta R.T. -0.000 min
Lab File: BN035291.D
Acq: 25 Nov 2024 19:20

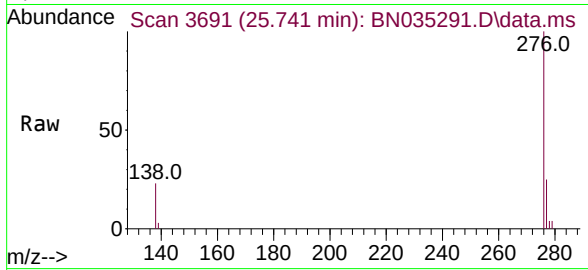
Tgt Ion:278 Resp: 8732
Ion Ratio Lower Upper
278 100
139 18.3 17.0 25.6
279 26.4 23.0 34.4





#41
Benzo(g,h,i)perylene
Concen: 0.392 ng
RT: 25.741 min Scan# 30
Delta R.T. 0.003 min
Lab File: BN035291.D
Acq: 25 Nov 2024 19:20

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:276 Resp: 9930
Ion Ratio Lower Upper
276 100
277 25.3 21.1 31.7
138 23.1 19.8 29.8

