

DATA PACKAGE
SEMI-VOLATILE ORGANICS

PROJECT NAME : NJ SOIL PT

CHEMTECH CONSULTING GROUP

284 Sheffield St,

Mountainside, NJ - 07092

Phone No: 908-789-8900

ORDER ID : P4495

ATTENTION : QA Officer



Laboratory Certification ID # 20012



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Cover Page

Order ID : P4495

Project ID : NJ Soil PT

Client : Chemtech Consulting Group

Lab Sample Number

P4495-01
P4495-02
P4495-03
P4495-04
P4495-05
P4495-06
P4495-07
P4495-08
P4495-09
P4495-10
P4495-11
P4495-12
P4495-13
P4495-14
P4495-15
P4495-16
P4495-17
P4495-18
P4495-19
P4495-20
P4495-21
P4495-22
P4495-23
P4495-24
P4495-25

Client Sample Number

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

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

Signature : _____

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 9:49 am, Dec 18, 2024

Date: 12/3/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Chemtech Consulting Group

Project Name: NJ Soil PT

Project # N/A

Chemtech Project # P4495

Test Name: SVOCMS Group3

A. Number of Samples and Date of Receipt:

25 Solid samples were received on 10/23/2024.

B. Parameters

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

C. Analytical Techniques:

The samples were analyzed on instrument BNA_N using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGAThe analysis of SVOCMS Group3 was based on method 8270-Modified and extraction was done based on method 3541.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The Blank Spike met requirements for all samples .

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

The Initial Calibration met the requirements .

The Continuous Calibration File ID BN035082.D met the requirements except for 2,4,6-Tribromophenol, marginally low therefore no corrective action was taken. .

The Tuning criteria met requirements.

Sample PT-PAH-SOIL was diluted due to high concentration.

E. Additional Comments:

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

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:

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

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

Signature_____

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 9:49 am, Dec 18, 2024

DATA REPORTING QUALIFIERS- ORGANIC

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

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

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

CHEMTECH PROJECT NUMBER: P4495

MATRIX: Solid

METHOD: 8270-Modified/3541

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications. DFTPP Meet Criteria. (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements. The Initial Calibration met the requirements . The Continuous Calibration File ID BN035082.D met the requirements except for 2,4,6-Tribromophenol, marginally low therefore no corrective action was taken. .		✓	
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7.	Surrogate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			✓
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range. The Blank Spike met requirements for all samples .			✓
9.	Internal Standard Area/Retention Time Shift Meet Criteria Comments:			✓
10.	Extraction Holding Time Met If not met, list number of days exceeded for each sample:			✓

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:

Sample PT-PAH-SOIL was diluted due to high concentration.

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

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.

REVIEWED

QA REVIEW

By *Sohil Jodhani, QA/QC Director* at 9:25 am, Dec 18, 2024

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P4495

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: 12/03/2024

LAB CHRONICLE

OrderID:	P4495	OrderDate:	10/23/2024 10:29:00 AM
Client:	Chemtech Consulting Group	Project:	NJ Soil PT
Contact:	QA Officer	Location:	QA Office,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4495-11	PT-BNA-SOIL	SOIL	SVOCMS Group1	8270E	10/21/24	10/25/24	11/13/24	10/23/24
			SVOCMS Group2	8270-Modified		10/25/24	11/14/24	
P4495-11DL	PT-BNA-SOILD	SOIL	SVOCMS Group1	8270E	10/21/24	10/25/24	11/13/24	10/23/24
			SVOCMS Group2	8270-Modified		10/25/24	11/14/24	
P4495-12	PT-TRIAZINE-SOIL	SOIL	SVOCMS Group4	8270E	10/21/24	10/25/24	10/29/24	10/23/24
P4495-13	PT-PAH-SOIL	SOIL	SVOCMS Group3	8270-Modified	10/21/24	10/25/24	11/14/24	10/23/24
P4495-13DL	PT-PAH-SOILD	SOIL	SVOCMS Group3	8270-Modified	10/21/24	10/25/24	11/14/24	10/23/24

Hit Summary Sheet SW-846

SDG No.: P4495
Client: Chemtech Consulting Group

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : PT-PAH-SOIL								
P4495-13	PT-PAH-SOIL	SOIL	Naphthalene	160.000		0.69	3.3	ug/Kg
P4495-13	PT-PAH-SOIL	SOIL	2-Methylnaphthalene	170.000	E	0.8	3.3	ug/Kg
P4495-13	PT-PAH-SOIL	SOIL	Acenaphthylene	77.700		0.63	3.3	ug/Kg
P4495-13	PT-PAH-SOIL	SOIL	Acenaphthene	280.000	E	0.55	3.3	ug/Kg
P4495-13	PT-PAH-SOIL	SOIL	Fluorene	120.000		0.6	3.3	ug/Kg
P4495-13	PT-PAH-SOIL	SOIL	Phenanthrene	270.000	E	0.63	3.3	ug/Kg
P4495-13	PT-PAH-SOIL	SOIL	Anthracene	410.000	E	0.79	3.3	ug/Kg
P4495-13	PT-PAH-SOIL	SOIL	Fluoranthene	140.000		0.67	3.3	ug/Kg
P4495-13	PT-PAH-SOIL	SOIL	Pyrene	180.000	E	0.95	3.3	ug/Kg
P4495-13	PT-PAH-SOIL	SOIL	Benzo(a)anthracene	200.000	E	0.76	3.3	ug/Kg
P4495-13	PT-PAH-SOIL	SOIL	Chrysene	160.000		0.86	3.3	ug/Kg
P4495-13	PT-PAH-SOIL	SOIL	Benzo(b)fluoranthene	200.000	E	1.2	3.3	ug/Kg
P4495-13	PT-PAH-SOIL	SOIL	Benzo(k)fluoranthene	100.000		0.98	3.3	ug/Kg
P4495-13	PT-PAH-SOIL	SOIL	Benzo(a)pyrene	200.000	E	1.7	3.3	ug/Kg
P4495-13	PT-PAH-SOIL	SOIL	Indeno(1,2,3-cd)pyrene	91.600		1.3	3.3	ug/Kg
P4495-13	PT-PAH-SOIL	SOIL	Dibenzo(a,h)anthracene	120.000		1.2	3.3	ug/Kg
P4495-13	PT-PAH-SOIL	SOIL	Benzo(g,h,i)perylene	37.000		1.1	3.3	ug/Kg

Total Svoc : 2,916.30
Total Concentration: 2,916.30

Client ID : PT-PAH-SOILDL								
P4495-13DL	PT-PAH-SOILDL	SOIL	Naphthalene	170.000	D	3.5	16.5	ug/Kg
P4495-13DL	PT-PAH-SOILDL	SOIL	2-Methylnaphthalene	180.000	D	4	16.5	ug/Kg
P4495-13DL	PT-PAH-SOILDL	SOIL	Acenaphthylene	80.800	D	3.2	16.5	ug/Kg
P4495-13DL	PT-PAH-SOILDL	SOIL	Acenaphthene	300.000	D	2.8	16.5	ug/Kg
P4495-13DL	PT-PAH-SOILDL	SOIL	Fluorene	120.000	D	3	16.5	ug/Kg
P4495-13DL	PT-PAH-SOILDL	SOIL	Phenanthrene	290.000	D	3.2	16.5	ug/Kg
P4495-13DL	PT-PAH-SOILDL	SOIL	Anthracene	430.000	D	4	16.5	ug/Kg
P4495-13DL	PT-PAH-SOILDL	SOIL	Fluoranthene	150.000	D	3.4	16.5	ug/Kg
P4495-13DL	PT-PAH-SOILDL	SOIL	Pyrene	190.000	D	4.8	16.5	ug/Kg
P4495-13DL	PT-PAH-SOILDL	SOIL	Benzo(a)anthracene	220.000	D	3.8	16.5	ug/Kg
P4495-13DL	PT-PAH-SOILDL	SOIL	Chrysene	180.000	D	4.3	16.5	ug/Kg
P4495-13DL	PT-PAH-SOILDL	SOIL	Benzo(b)fluoranthene	220.000	D	6	16.5	ug/Kg
P4495-13DL	PT-PAH-SOILDL	SOIL	Benzo(k)fluoranthene	110.000	D	4.9	16.5	ug/Kg
P4495-13DL	PT-PAH-SOILDL	SOIL	Benzo(a)pyrene	220.000	D	8.3	16.5	ug/Kg
P4495-13DL	PT-PAH-SOILDL	SOIL	Indeno(1,2,3-cd)pyrene	100.000	D	6.3	16.5	ug/Kg
P4495-13DL	PT-PAH-SOILDL	SOIL	Dibenzo(a,h)anthracene	130.000	D	5.9	16.5	ug/Kg
P4495-13DL	PT-PAH-SOILDL	SOIL	Benzo(g,h,i)perylene	40.800	D	5.7	16.5	ug/Kg

Hit Summary Sheet
SW-846

SDG No.: P4495
Client: Chemtech Consulting Group

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
			Total Svoc :		3,131.60			
			Total Concentration:		3,131.60			



QC SUMMARY

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Surrogate Summary

SW-846

SDG No.: P4495

Client: Chemtech Consulting Group

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
P4495-13	PT-PAH-SOIL	2-Methylnaphthalene-d10	0.4	0.25	62		17	161
		Fluoranthene-d10	0.4	0.28	69		23	138
		Nitrobenzene-d5	0.4	0.29	73		33	121
		2-Fluorobiphenyl	0.4	0.28	70		32	121
		Terphenyl-d14	0.4	0.32	81		21	130
P4495-13DL	PT-PAH-SOILDL	2-Methylnaphthalene-d10	0.4	0.27	66		17	161
		Fluoranthene-d10	0.4	0.29	72		23	138
		Nitrobenzene-d5	0.4	0.33	83		33	121
		2-Fluorobiphenyl	0.4	0.31	77		32	121
		Terphenyl-d14	0.4	0.38	94		21	130
PB164402BL	PB164402BL	2-Methylnaphthalene-d10	0.4	0.35	88		17	161
		Fluoranthene-d10	0.4	0.37	93		23	138
		Nitrobenzene-d5	0.4	0.37	93		33	121
		2-Fluorobiphenyl	0.4	0.36	90		32	121
		Terphenyl-d14	0.4	0.42	104		21	130
PB164402BS	PB164402BS	2-Methylnaphthalene-d10	0.4	0.46	114		17	161
		Fluoranthene-d10	0.4	0.32	81		23	138
		Nitrobenzene-d5	0.4	0.35	86		33	121
		2-Fluorobiphenyl	0.4	0.36	89		32	121
		Terphenyl-d14	0.4	0.42	105		21	130

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4495

Client: Chemtech Consulting Group

Analytical Method: 8270-Modified DataFile: BN035094.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB164402BS	Naphthalene	13.3	12.0	ug/Kg	90				63	120	
	2-Methylnaphthalene	13.3	12.0	ug/Kg	90				54	111	
	Acenaphthylene	13.3	12.1	ug/Kg	91				61	110	
	Acenaphthene	13.3	11.6	ug/Kg	87				65	112	
	Fluorene	13.3	11.2	ug/Kg	84				61	115	
	Phenanthrene	13.3	12.3	ug/Kg	92				61	120	
	Anthracene	13.3	12.5	ug/Kg	94				60	115	
	Fluoranthene	13.3	10.7	ug/Kg	80				56	124	
	Pyrene	13.3	13.6	ug/Kg	102				58	125	
	Benzo(a)anthracene	13.3	12.0	ug/Kg	90				45	129	
	Chrysene	13.3	12.6	ug/Kg	95				62	123	
	Benzo(b)fluoranthene	13.3	13.0	ug/Kg	98				47	123	
	Benzo(k)fluoranthene	13.3	12.8	ug/Kg	96				69	123	
	Benzo(a)pyrene	13.3	13.0	ug/Kg	98				53	123	
	Indeno(1,2,3-cd)pyrene	13.3	11.2	ug/Kg	84				62	131	
	Dibenz(a,h)anthracene	13.3	11.2	ug/Kg	84				57	120	
	Benzo(g,h,i)perylene	13.3	10.0	ug/Kg	75				66	121	

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164402BL

Lab Name: CHEMTECH

Contract: CHEM02

Lab Code: CHEM Case No.: P4495

SAS No.: P4495 SDG NO.: P4495

Lab File ID: BN035083.D

Lab Sample ID: PB164402BL

Instrument ID: BNA_N

Date Extracted: 10/25/2024

Matrix: (soil/water) SOIL

Date Analyzed: 11/14/2024

Level: (low/med) LOW

Time Analyzed: 10:48

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB164402BS	PB164402BS	BN035094.D	11/14/2024
PT-PAH-SOIL	P4495-13	BN035086.D	11/14/2024

COMMENTS: _____



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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: CHEM02Lab Code: CHEMSAS No.: P4495 SDG NO.: P4495Lab 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: CHEM02Lab Code: CHEMSAS No.: P4495SDG NO.: P4495Lab File ID: BN035081.DDFTPP Injection Date: 11/14/2024Instrument ID: BNA_NDFTPP Injection Time: 08:53

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	19.9
68	Less than 2.0% of mass 69	0.6 (1.9) 1
69	Mass 69 relative abundance	30.1
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	37.5
197	Less than 2.0% of mass 198	0.4
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	29.4
365	Greater than 1% of mass 198	4.8
441	Present, but less than mass 443	9.9
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	10.8 (16.9) 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
SSTDCCC0.4	SSTDCCC0.4	BN035082.D	11/14/2024	10:12
PB164402BL	PB164402BL	BN035083.D	11/14/2024	10:48
PT-PAH-SOIL	P4495-13	BN035086.D	11/14/2024	13:22
PT-PAH-SOILDL	P4495-13DL	BN035087.D	11/14/2024	14:10
PB164402BS	PB164402BS	BN035094.D	11/14/2024	18:59

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 11/14/2024

Lab File ID: BN035082.D Time Analyzed: 10:12

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	2551	7.553	6362	10.32	5037	14.19
UPPER LIMIT	5102	8.053	12724	10.819	10074	14.69
LOWER LIMIT	1275.5	7.053	3181	9.819	2518.5	13.69
EPA SAMPLE NO.						
01 PB164402BL	2707	7.55	6301	10.32	4578	14.19
02 PT-PAH-SOIL	3754	7.55	10271	10.31	7900	14.19
03 PT-PAH-SOILDL	3588	7.55	9962	10.32	7625	14.19
04 PB164402BS	2568	7.55	6459	10.32	4848	14.19

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.: P4495 SAS No.: P4495 SDG NO.: P4495

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 11/14/2024

Lab File ID: BN035082.D Time Analyzed: 10:12

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	12802	16.933	13485	21.134	14730	23.3
UPPER LIMIT	25604	17.433	26970	21.634	29460	23.8
LOWER LIMIT	6401	16.433	6742.5	20.634	7365	22.8
EPA SAMPLE NO.						
01 PB164402BL	12175	16.93	12501	21.13	13990	23.30
02 PT-PAH-SOIL	19410	16.94	20657	21.14	18894	23.30
03 PT-PAH-SOILDL	18496	16.93	19193	21.13	17654	23.30
04 PB164402BS	11535	16.93	9992	21.13	9578	23.30

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.



SAMPLE DATA

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-PAH-SOIL	SDG No.:	P4495
Lab Sample ID:	P4495-13	Matrix:	SOIL
Analytical Method:	SW8270SIM	% Solid:	100
Sample Wt/Vol:	30 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	sw3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035086.D	1	10/25/24 09:50	11/14/24 13:22	PB164402

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
91-20-3	Naphthalene	160		0.69	3.30	ug/Kg
91-57-6	2-Methylnaphthalene	170	E	0.80	3.30	ug/Kg
208-96-8	Acenaphthylene	77.7		0.63	3.30	ug/Kg
83-32-9	Acenaphthene	280	E	0.55	3.30	ug/Kg
86-73-7	Fluorene	120		0.60	3.30	ug/Kg
85-01-8	Phenanthrene	270	E	0.63	3.30	ug/Kg
120-12-7	Anthracene	410	E	0.79	3.30	ug/Kg
206-44-0	Fluoranthene	140		0.67	3.30	ug/Kg
129-00-0	Pyrene	180	E	0.95	3.30	ug/Kg
56-55-3	Benzo(a)anthracene	200	E	0.76	3.30	ug/Kg
218-01-9	Chrysene	160		0.86	3.30	ug/Kg
205-99-2	Benzo(b)fluoranthene	200	E	1.20	3.30	ug/Kg
207-08-9	Benzo(k)fluoranthene	100		0.98	3.30	ug/Kg
50-32-8	Benzo(a)pyrene	200	E	1.70	3.30	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	91.6		1.30	3.30	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	120		1.20	3.30	ug/Kg
191-24-2	Benzo(g,h,i)perylene	37.0		1.10	3.30	ug/Kg
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.25		17 - 161	62%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.28		23 - 138	69%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.29		33 - 121	73%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.28		32 - 121	70%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.32		21 - 130	81%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	3750		7.546		
1146-65-2	Naphthalene-d8	10300		10.308		
15067-26-2	Acenaphthene-d10	7900		14.186		
1517-22-2	Phenanthrene-d10	19400		16.939		
1719-03-5	Chrysene-d12	20700		21.14		

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-PAH-SOIL	SDG No.:	P4495
Lab Sample ID:	P4495-13	Matrix:	SOIL
Analytical Method:	SW8270SIM	% Solid:	100
Sample Wt/Vol:	30 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	sw3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035086.D	1	10/25/24 09:50	11/14/24 13:22	PB164402

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1520-96-3	Perylene-d12	18900	23.301			

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\BN111424\
Data File : BN035086.D
Acq On : 14 Nov 2024 13:22
Operator : RC/JU
Sample : P4495-13
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOIL

Quant Time: Nov 14 13:51:57 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

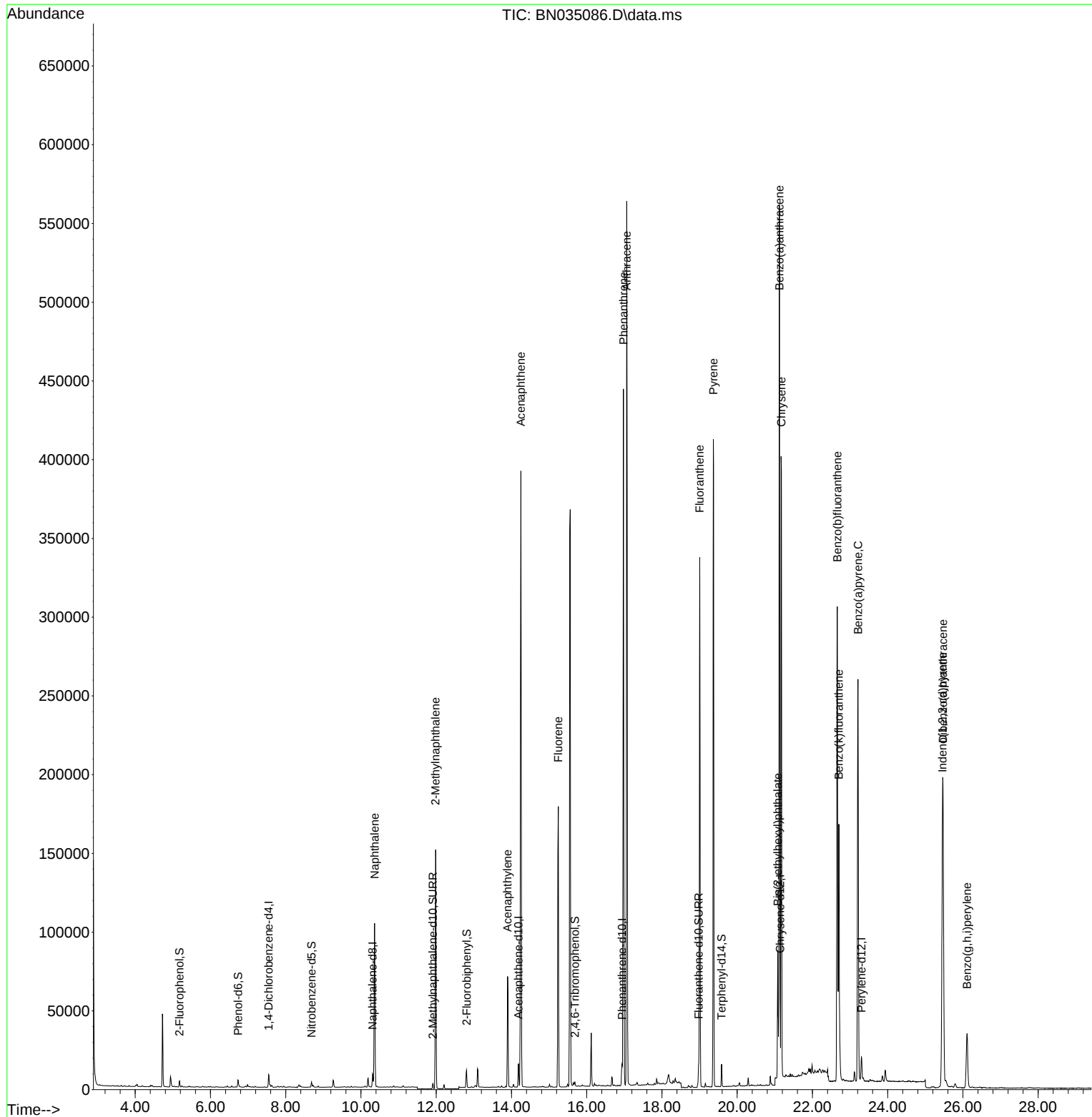
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.546	152	3754	0.400	ng	0.00
7) Naphthalene-d8	10.308	136	10271	0.400	ng	#-0.01
13) Acenaphthene-d10	14.186	164	7900	0.400	ng	0.00
19) Phenanthrene-d10	16.939	188	19410	0.400	ng	0.00
29) Chrysene-d12	21.140	240	20657	0.400	ng	# 0.00
35) Perylene-d12	23.301	264	18894	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	3074	0.323	ng	0.00
5) Phenol-d6	6.737	99	4280	0.358	ng	0.00
8) Nitrobenzene-d5	8.685	82	2617	0.293	ng	-0.01
11) 2-Methylnaphthalene-d10	11.912	152	4536	0.248	ng	0.00
14) 2,4,6-Tribromophenol	15.686	330	1323	0.232	ng	0.00
15) 2-Fluorobiphenyl	12.807	172	9035	0.282	ng	0.00
27) Fluoranthene-d10	18.976	212	16359	0.275	ng	0.00
31) Terphenyl-d14	19.584	244	13939	0.322	ng	0.00
Target Compounds						
9) Naphthalene	10.362	128	127058	4.738	ng	97
12) 2-Methylnaphthalene	11.984	142	101061	5.108	ng	99
16) Acenaphthylene	13.898	152	78653	2.330	ng	100
17) Acenaphthene	14.250	154	187057	8.454	ng	98
18) Fluorene	15.245	166	112723	3.463	ng	99
25) Phenanthrene	16.977	178	410639	8.039	ng	99
26) Anthracene	17.064	178	572114	12.194	ng	99
28) Fluoranthene	19.004	202	290131	4.130	ng	100
30) Pyrene	19.366	202	361798	5.259	ng	100
32) Benzo(a)anthracene	21.122	228	427505	5.943	ng	100
33) Chrysene	21.176	228	337891	4.742	ng	99
34) Bis(2-ethylhexyl)phtha...	21.077	149	66373	1.759	ng	98
36) Indeno(1,2,3-cd)pyrene	25.455	276	207176	2.749	ng	99
37) Benzo(b)fluoranthene	22.660	252	388820	6.116	ng	96
38) Benzo(k)fluoranthene	22.701	252	191270	3.007	ng	96
39) Benzo(a)pyrene	23.210	252	339348	6.067	ng	# 94
40) Dibenzo(a,h)anthracene	25.470	278	216242	3.621	ng	99
41) Benzo(g,h,i)perylene	26.110	276	70521	1.110	ng	98

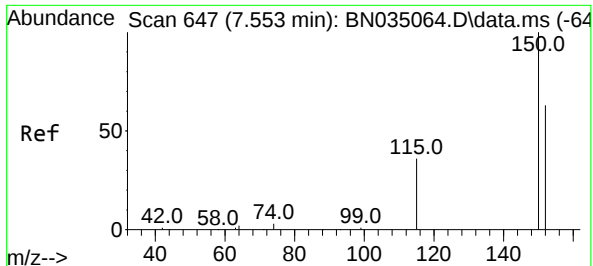
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN035086.D
Acq On : 14 Nov 2024 13:22
Operator : RC/JU
Sample : P4495-13
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOIL

Quant Time: Nov 14 13:51:57 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

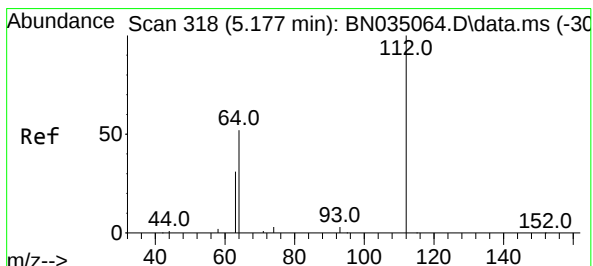
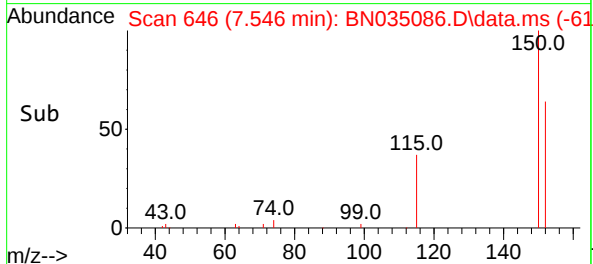
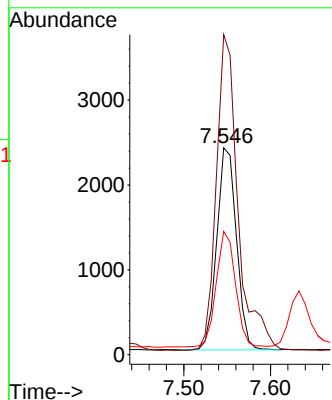
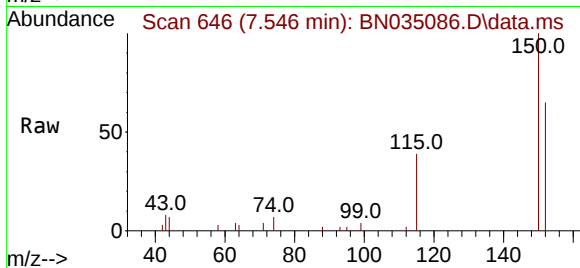




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.546 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN035086.D
Acq: 14 Nov 2024 13:22

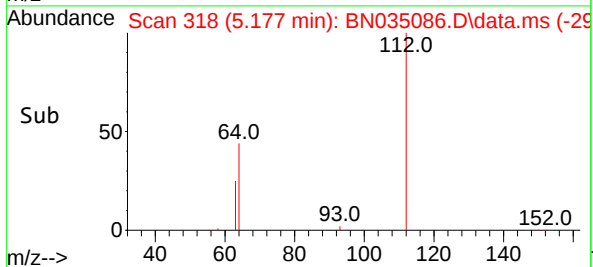
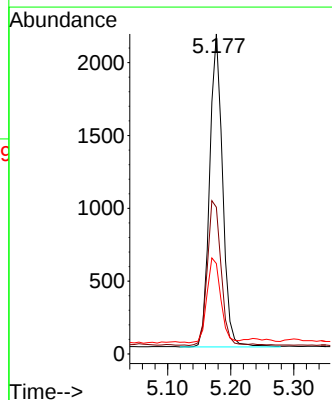
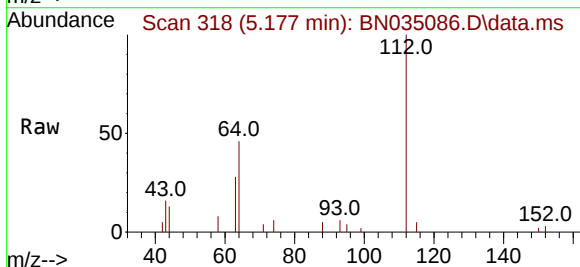
Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOIL

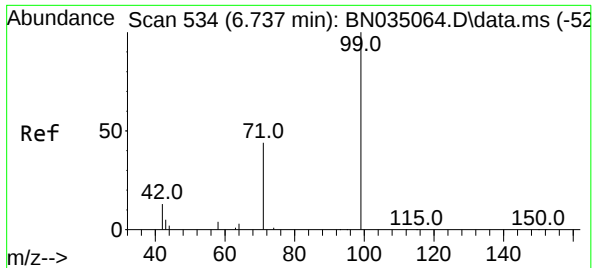
Tgt Ion:152 Resp: 3754
Ion Ratio Lower Upper
152 100
150 154.7 124.5 186.7
115 59.6 47.8 71.6



#4
2-Fluorophenol
Concen: 0.323 ng
RT: 5.177 min Scan# 318
Delta R.T. -0.000 min
Lab File: BN035086.D
Acq: 14 Nov 2024 13:22

Tgt Ion:112 Resp: 3074
Ion Ratio Lower Upper
112 100
64 48.8 39.7 59.5
63 28.7 23.0 34.4

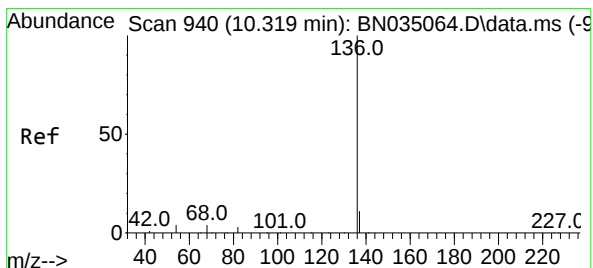
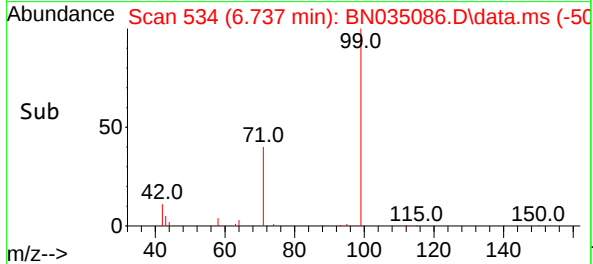
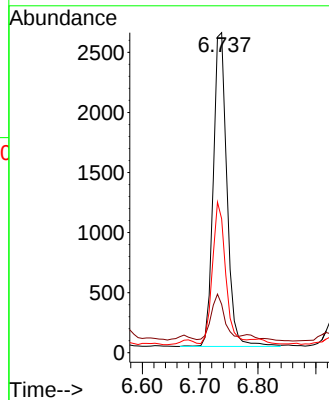
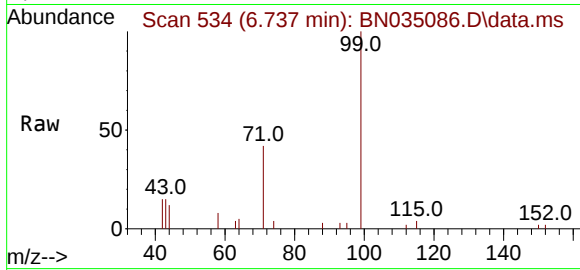




#5
Phenol-d6
Concen: 0.358 ng
RT: 6.737 min Scan# 511
Delta R.T. -0.000 min
Lab File: BN035086.D
Acq: 14 Nov 2024 13:22

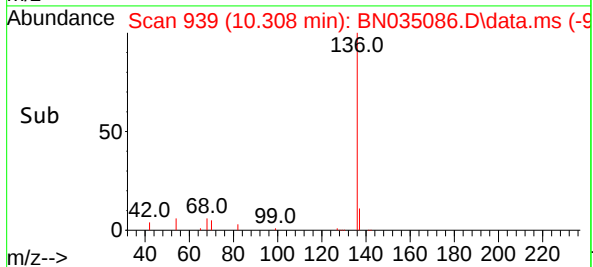
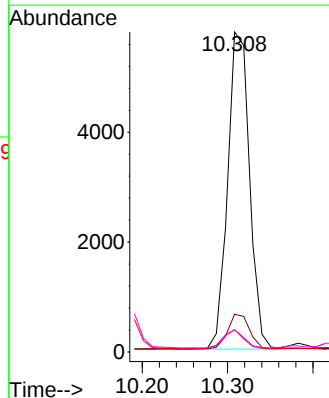
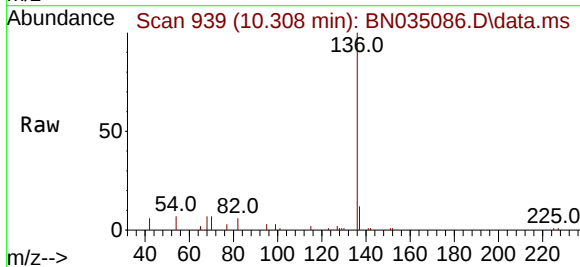
Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOIL

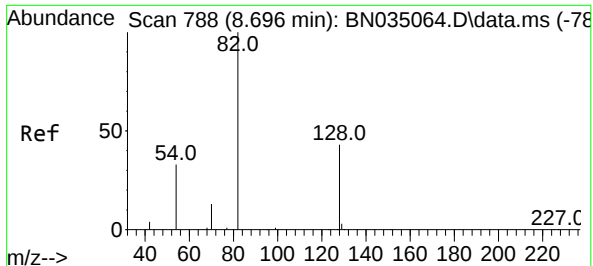
Tgt Ion:	99	Resp:	4280
Ion	Ratio	Lower	Upper
99	100		
42	14.9	11.4	17.0
71	43.2	34.6	51.8



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.308 min Scan# 939
Delta R.T. -0.011 min
Lab File: BN035086.D
Acq: 14 Nov 2024 13:22

Tgt Ion:	136	Resp:	10271
Ion	Ratio	Lower	Upper
136	100		
137	11.8	9.8	14.8
54	7.0	4.0	6.0#
68	7.0	4.2	6.2#

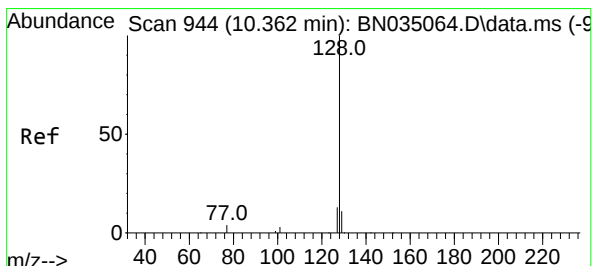
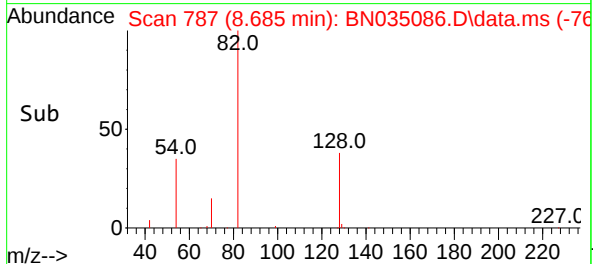
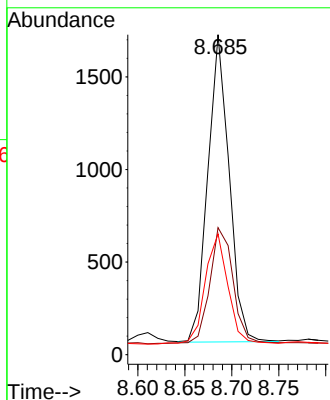
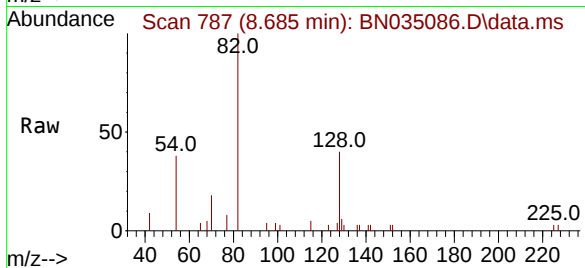




#8
Nitrobenzene-d5
Concen: 0.293 ng
RT: 8.685 min Scan# 788
Delta R.T. -0.011 min
Lab File: BN035086.D
Acq: 14 Nov 2024 13:22

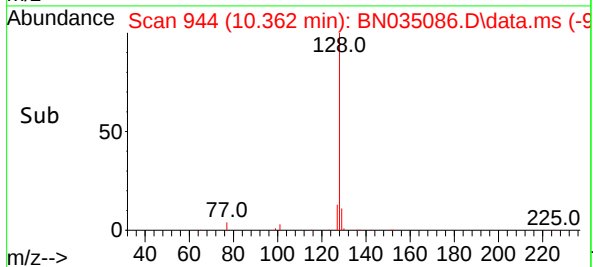
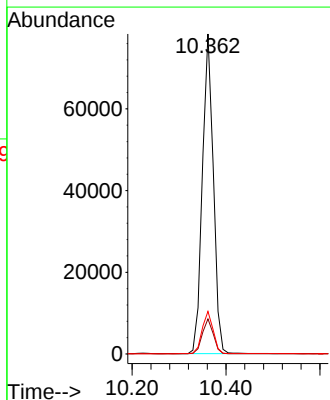
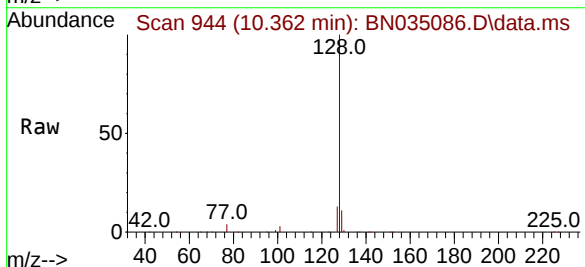
Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOIL

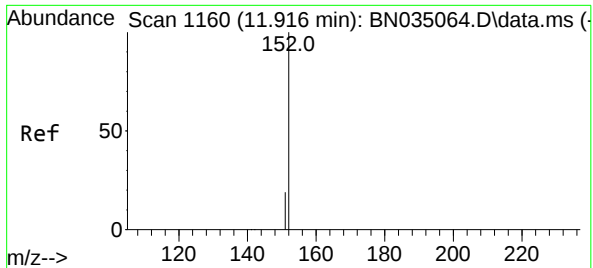
Tgt Ion:	82	Resp:	2617
Ion Ratio	Lower	Upper	
82	100		
128	39.7	36.5	54.7
54	37.7	28.7	43.1



#9
Naphthalene
Concen: 4.738 ng
RT: 10.362 min Scan# 944
Delta R.T. -0.000 min
Lab File: BN035086.D
Acq: 14 Nov 2024 13:22

Tgt Ion:	128	Resp:	127058
Ion Ratio	Lower	Upper	
128	100		
129	10.9	9.6	14.4
127	13.3	11.6	17.4

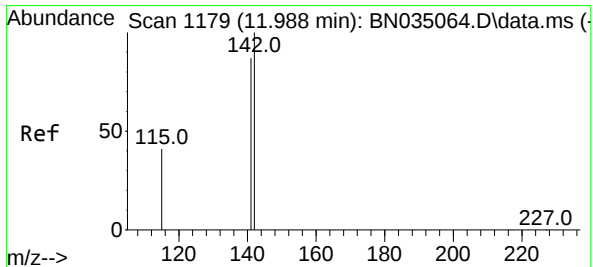
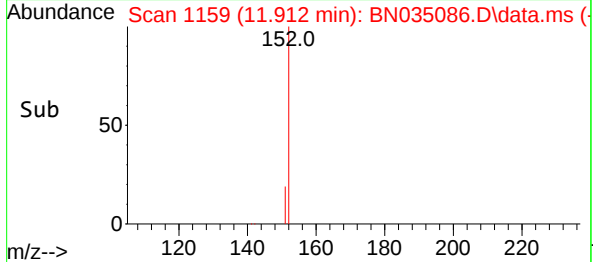
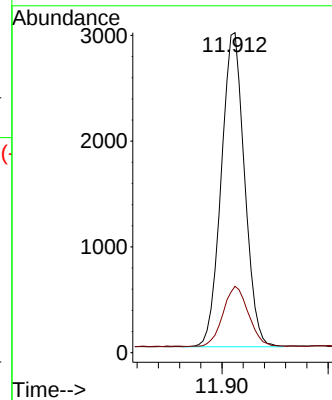
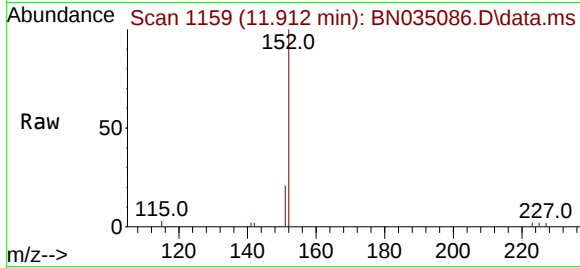




#11
2-Methylnaphthalene-d10
Concen: 0.248 ng
RT: 11.912 min Scan# 1159
Delta R.T. -0.004 min
Lab File: BN035086.D
Acq: 14 Nov 2024 13:22

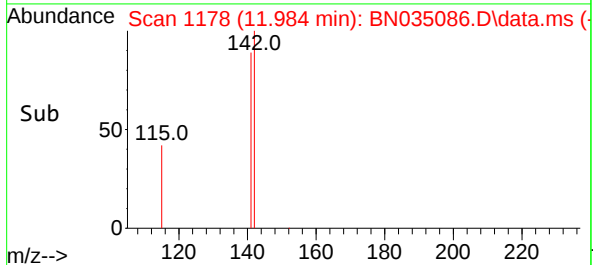
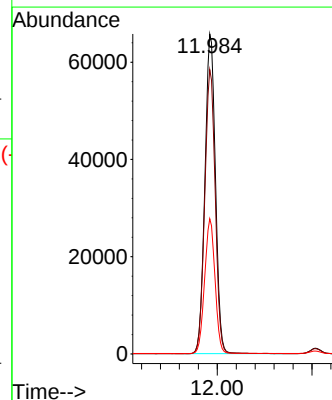
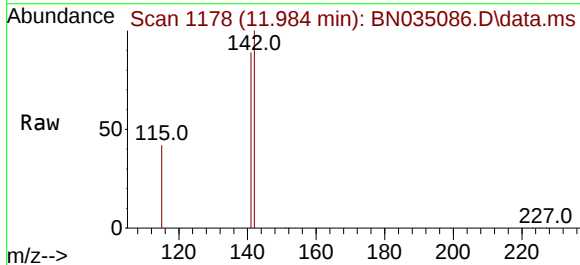
Instrument :
BNA_N
ClientSampleId :
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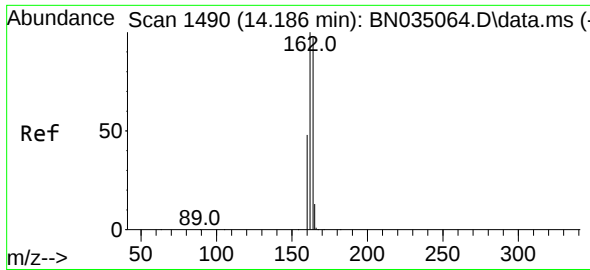
Tgt Ion:152 Resp: 4536
Ion Ratio Lower Upper
152 100
151 20.9 16.2 24.4



#12
2-Methylnaphthalene
Concen: 5.108 ng
RT: 11.984 min Scan# 1178
Delta R.T. -0.004 min
Lab File: BN035086.D
Acq: 14 Nov 2024 13:22

Tgt Ion:142 Resp: 101061
Ion Ratio Lower Upper
142 100
141 88.9 70.1 105.1
115 42.2 34.4 51.6

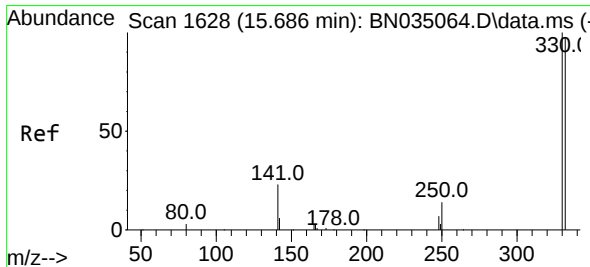
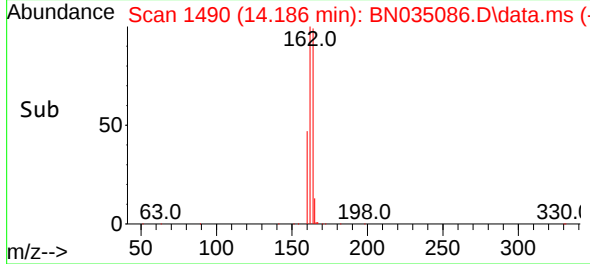
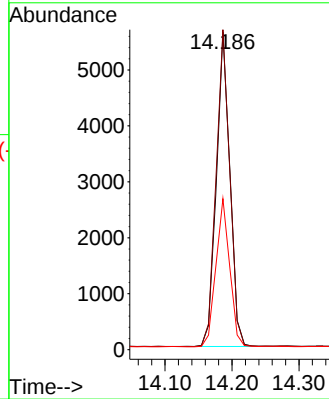
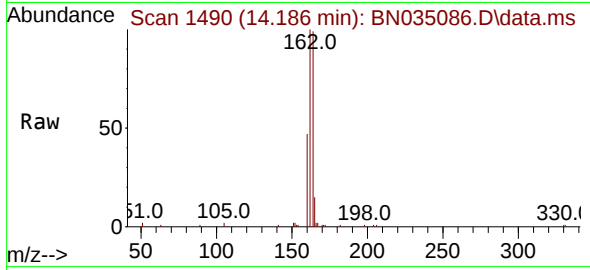




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.186 min Scan# 1490
Delta R.T. -0.000 min
Lab File: BN035086.D
Acq: 14 Nov 2024 13:22

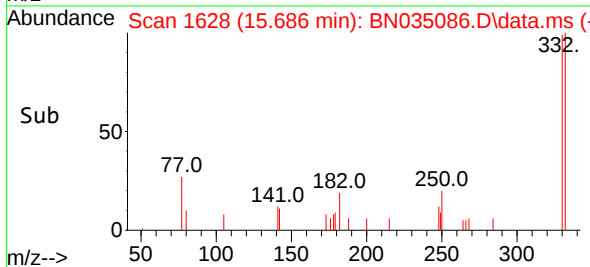
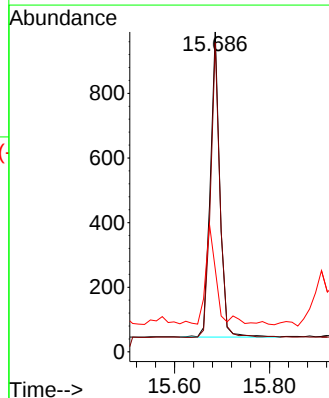
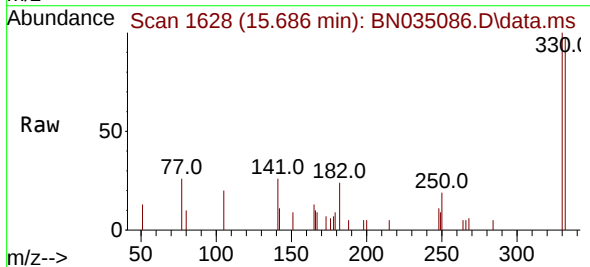
Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOIL

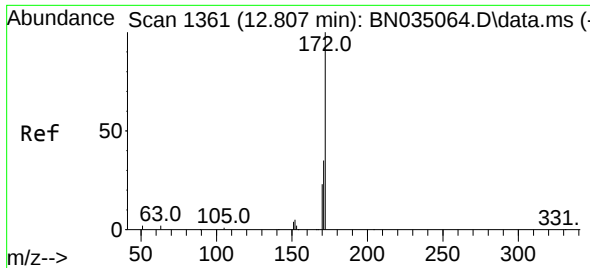
Tgt Ion	Ratio	Lower	Upper
164	100		
162	100.8	82.2	123.2
160	47.6	40.2	60.4



#14
2,4,6-Tribromophenol
Concen: 0.232 ng
RT: 15.686 min Scan# 1628
Delta R.T. -0.000 min
Lab File: BN035086.D
Acq: 14 Nov 2024 13:22

Tgt Ion	Ratio	Lower	Upper
330	100		
332	94.7	76.9	115.3
141	32.1	29.6	44.4

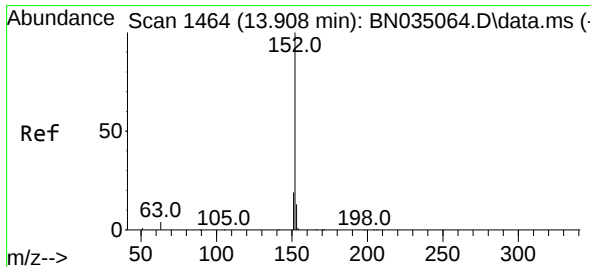
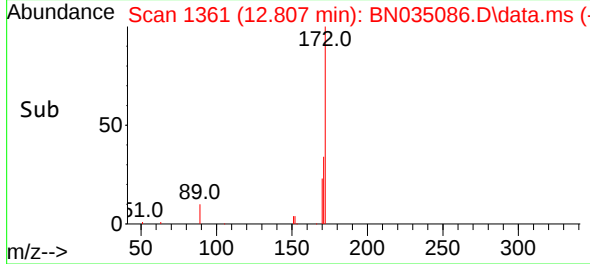
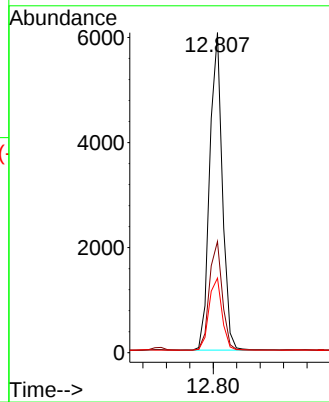
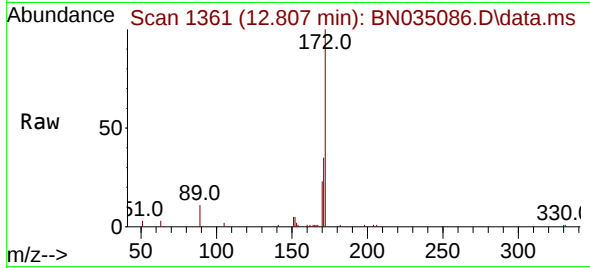




#15
2-Fluorobiphenyl
Concen: 0.282 ng
RT: 12.807 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN035086.D
Acq: 14 Nov 2024 13:22

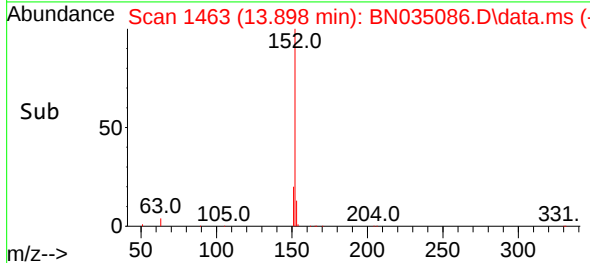
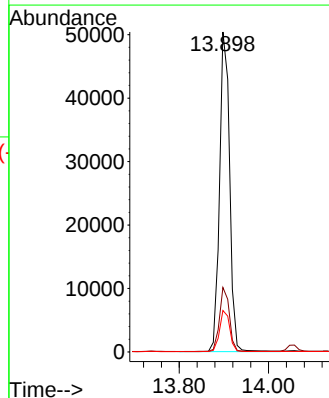
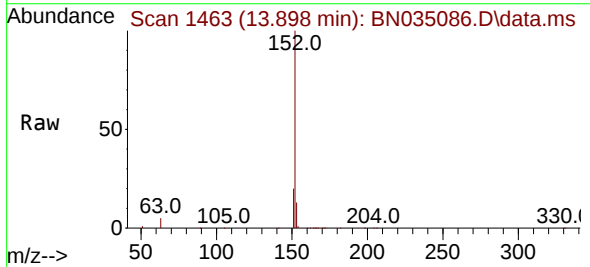
Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOIL

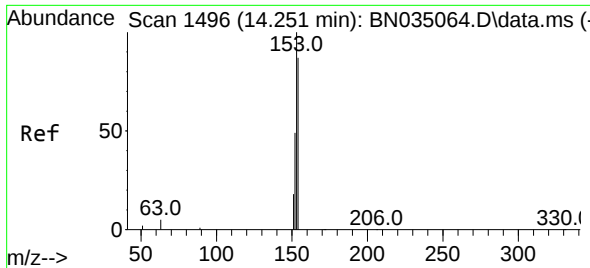
Tgt Ion:172	Resp:	9035
Ion Ratio	Lower	Upper
172	100	
171	34.7	28.2 42.4
170	23.3	19.0 28.6



#16
Acenaphthylene
Concen: 2.330 ng
RT: 13.898 min Scan# 1463
Delta R.T. -0.011 min
Lab File: BN035086.D
Acq: 14 Nov 2024 13:22

Tgt Ion:152	Resp:	78653
Ion Ratio	Lower	Upper
152	100	
151	19.9	15.8 23.8
153	13.1	10.2 15.4

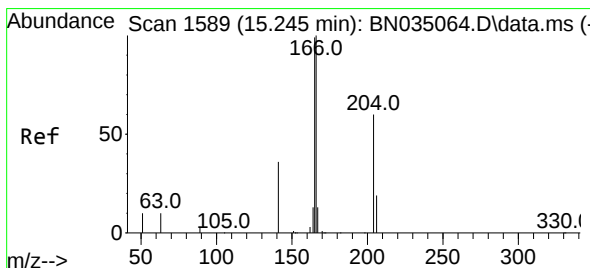
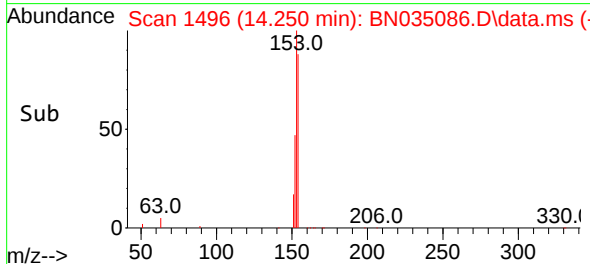
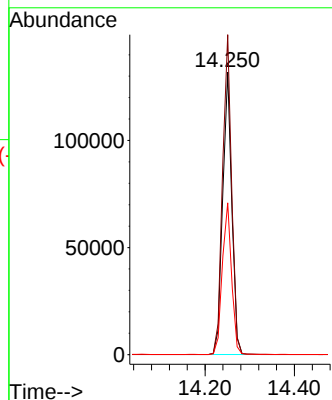
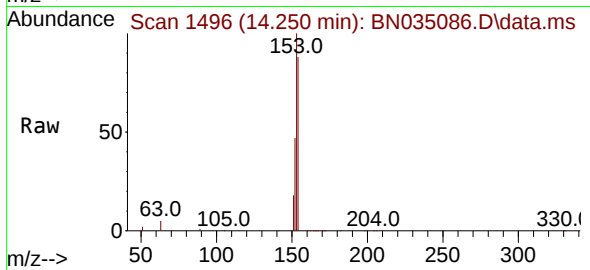




#17
Acenaphthene
Concen: 8.454 ng
RT: 14.250 min Scan# 1496
Delta R.T. -0.000 min
Lab File: BN035086.D
Acq: 14 Nov 2024 13:22

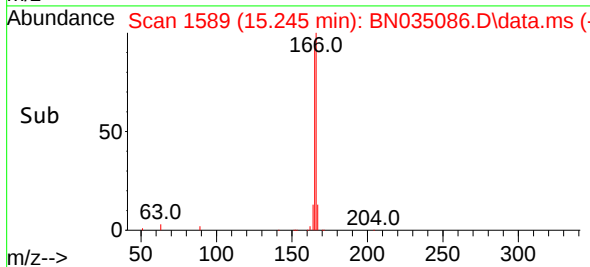
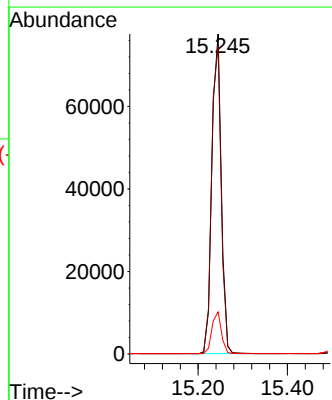
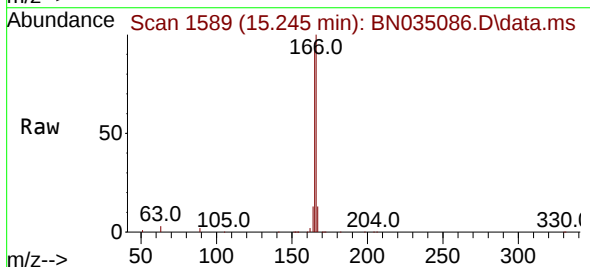
Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOIL

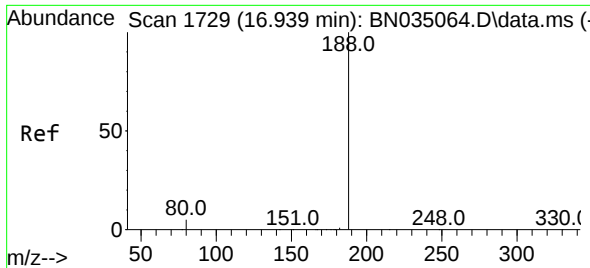
Tgt Ion:154 Resp: 187057
Ion Ratio Lower Upper
154 100
153 113.7 91.6 137.4
152 54.9 45.8 68.6



#18
Fluorene
Concen: 3.463 ng
RT: 15.245 min Scan# 1589
Delta R.T. -0.000 min
Lab File: BN035086.D
Acq: 14 Nov 2024 13:22

Tgt Ion:166 Resp: 112723
Ion Ratio Lower Upper
166 100
165 98.1 79.1 118.7
167 13.2 10.6 16.0

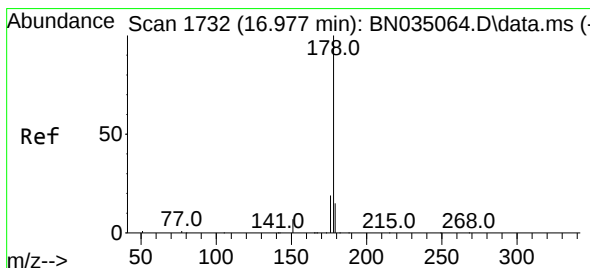
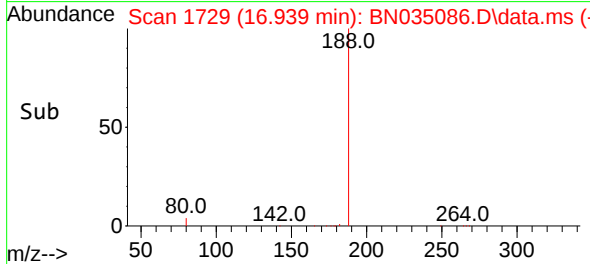
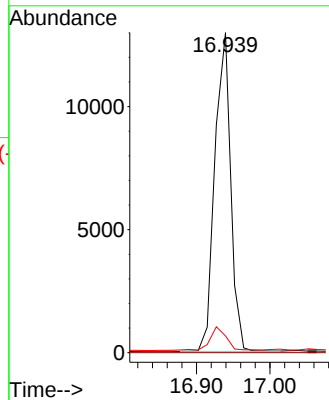
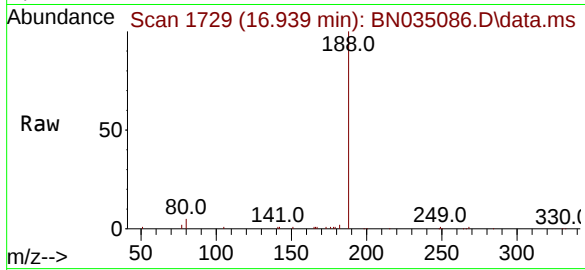




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.939 min Scan# 1729
Delta R.T. -0.000 min
Lab File: BN035086.D
Acq: 14 Nov 2024 13:22

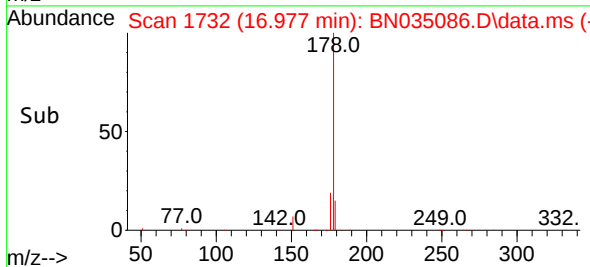
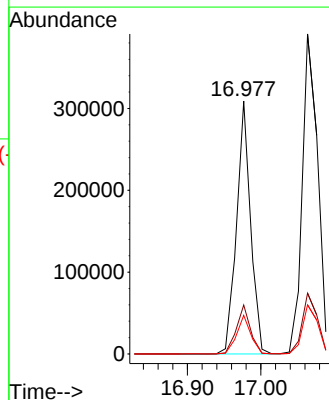
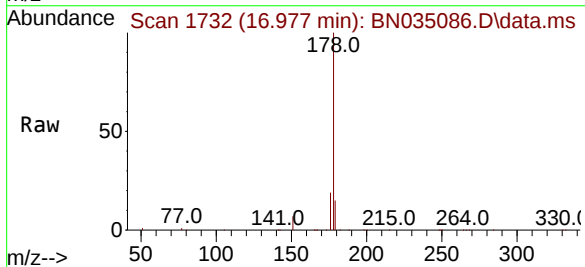
Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOIL

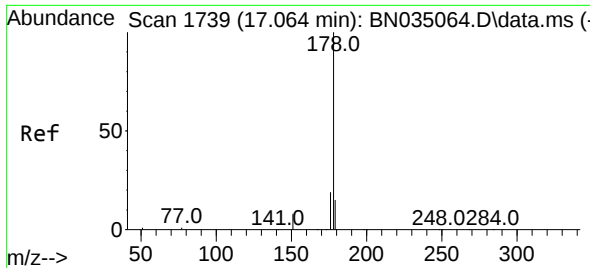
Tgt Ion:	188	Resp:	19410
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	5.3	4.3	6.5



#25
Phenanthrene
Concen: 8.039 ng
RT: 16.977 min Scan# 1732
Delta R.T. -0.000 min
Lab File: BN035086.D
Acq: 14 Nov 2024 13:22

Tgt Ion:	178	Resp:	410639
Ion Ratio	Lower	Upper	
178	100		
176	19.3	15.2	22.8
179	15.3	12.6	18.8

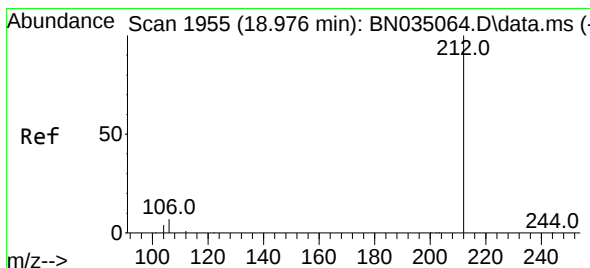
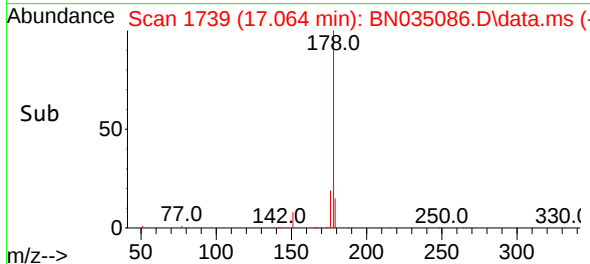
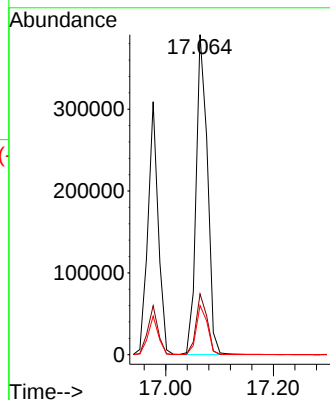
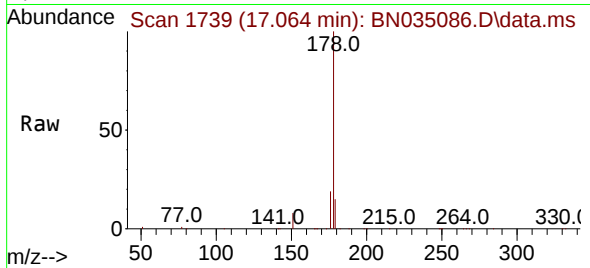




#26
Anthracene
Concen: 12.194 ng
RT: 17.064 min Scan# 1739
Delta R.T. -0.000 min
Lab File: BN035086.D
Acq: 14 Nov 2024 13:22

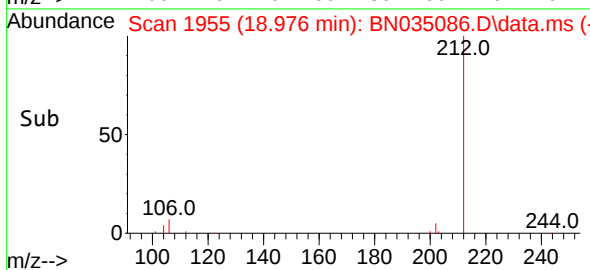
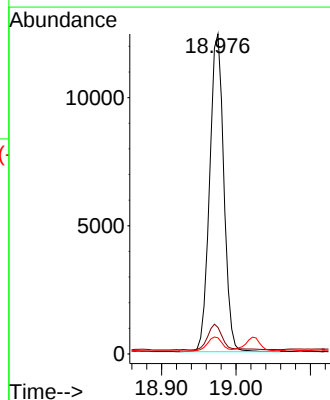
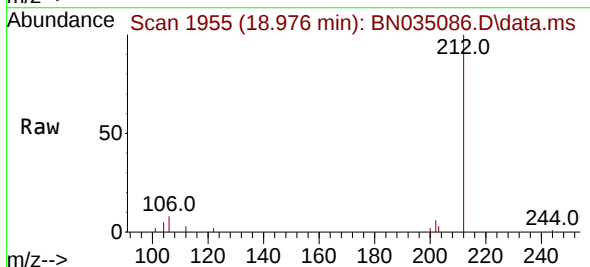
Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOIL

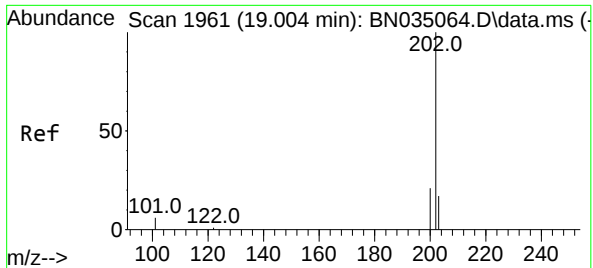
Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.6	14.6	22.0
179	15.3	12.2	18.2



#27
Fluoranthene-d10
Concen: 0.275 ng
RT: 18.976 min Scan# 1955
Delta R.T. -0.000 min
Lab File: BN035086.D
Acq: 14 Nov 2024 13:22

Tgt Ion	Ratio	Lower	Upper
212	100		
106	8.5	6.0	9.0
104	4.6	3.5	5.3

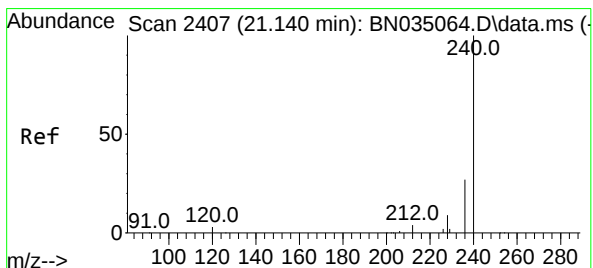
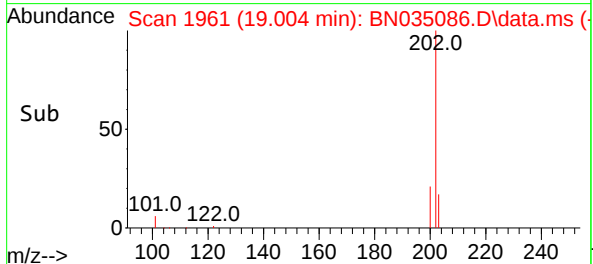
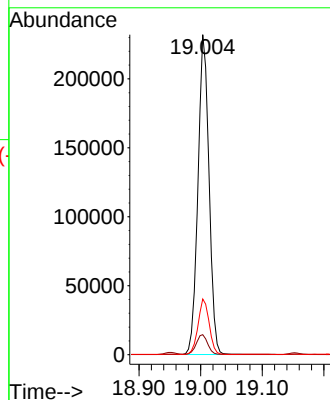
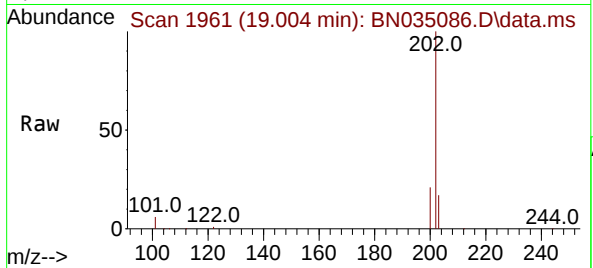




#28
Fluoranthene
Concen: 4.130 ng
RT: 19.004 min Scan# 1961
Delta R.T. -0.000 min
Lab File: BN035086.D
Acq: 14 Nov 2024 13:22

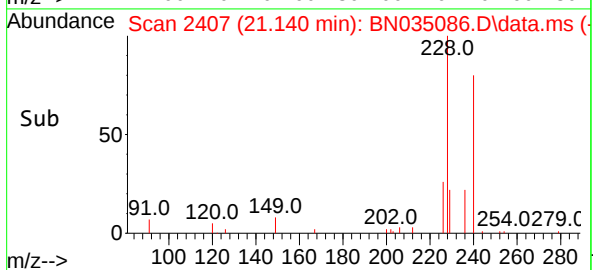
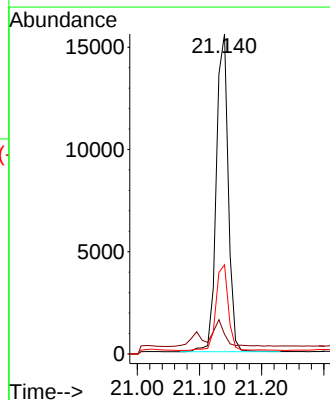
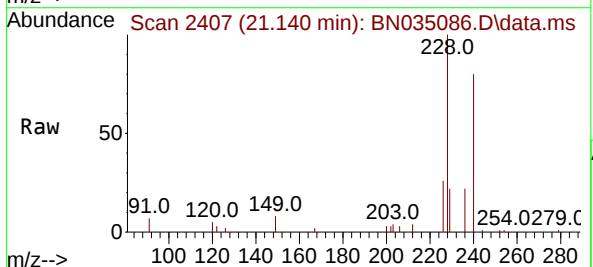
Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOIL

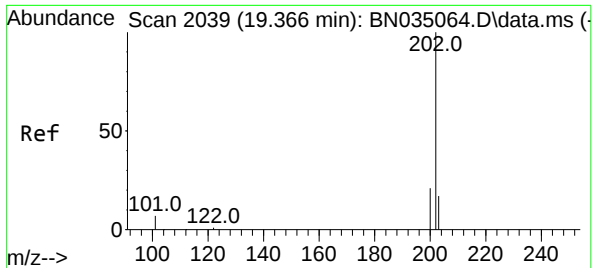
Tgt Ion:202 Resp: 290131
Ion Ratio Lower Upper
202 100
101 6.5 5.2 7.8
203 17.3 13.8 20.8



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.140 min Scan# 2407
Delta R.T. -0.000 min
Lab File: BN035086.D
Acq: 14 Nov 2024 13:22

Tgt Ion:240 Resp: 20657
Ion Ratio Lower Upper
240 100
120 6.1 3.8 5.6#
236 27.9 22.2 33.2

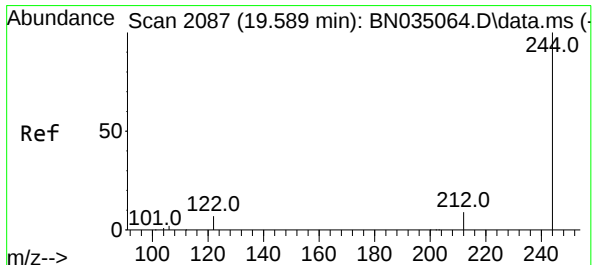
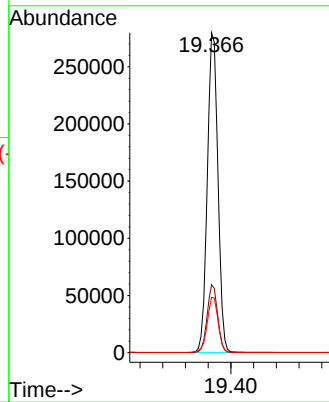
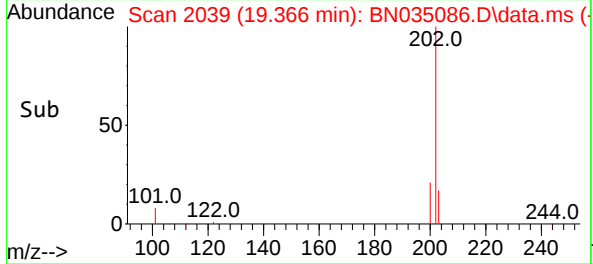
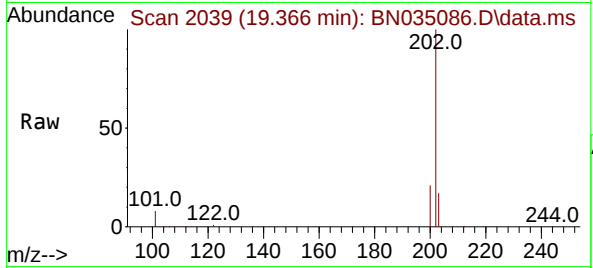




#30
Pyrene
Concen: 5.259 ng
RT: 19.366 min Scan# 2039
Delta R.T. -0.000 min
Lab File: BN035086.D
Acq: 14 Nov 2024 13:22

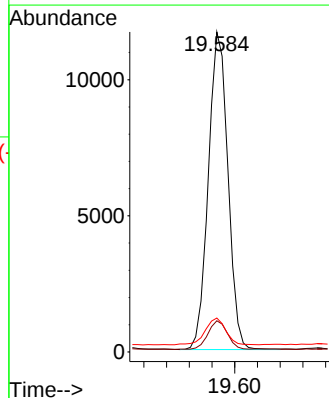
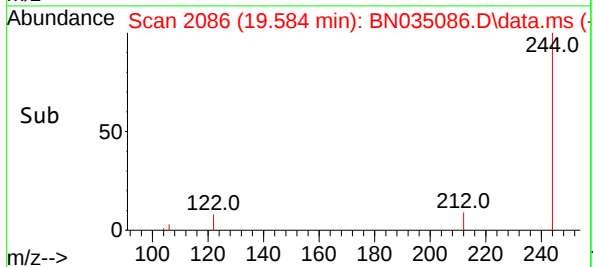
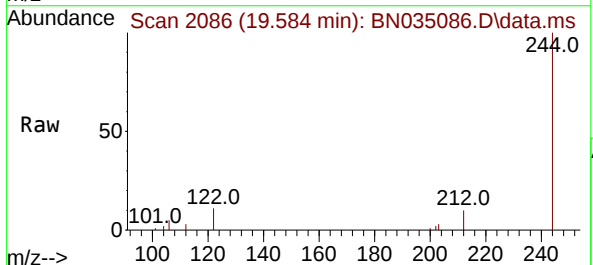
Instrument :
BNA_N
ClientSampleId :
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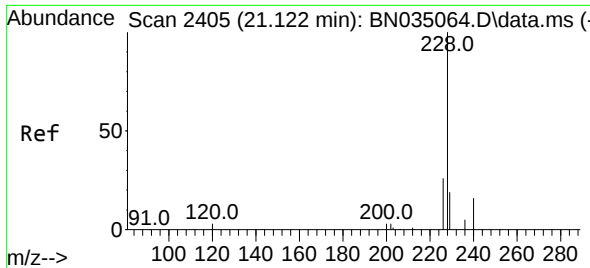
Tgt Ion:202 Resp: 361798
Ion Ratio Lower Upper
202 100
200 21.0 16.7 25.1
203 17.8 14.2 21.4



#31
Terphenyl-d14
Concen: 0.322 ng
RT: 19.584 min Scan# 2086
Delta R.T. -0.005 min
Lab File: BN035086.D
Acq: 14 Nov 2024 13:22

Tgt Ion:244 Resp: 13939
Ion Ratio Lower Upper
244 100
212 9.8 7.6 11.4
122 10.6 6.1 9.1#

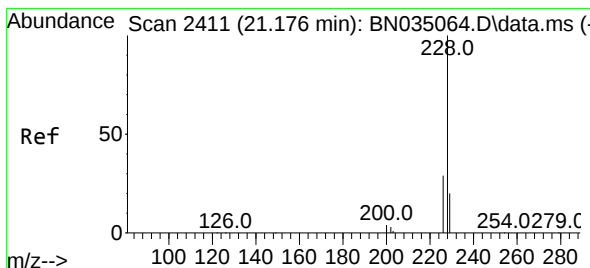
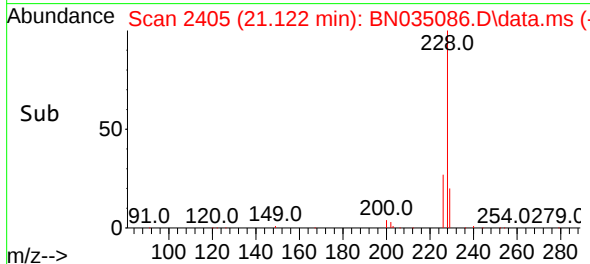
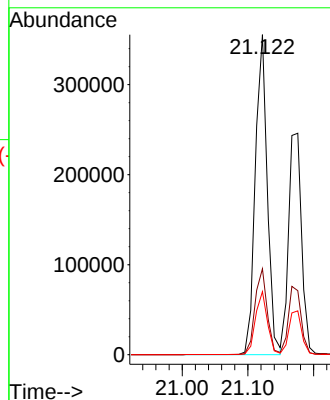
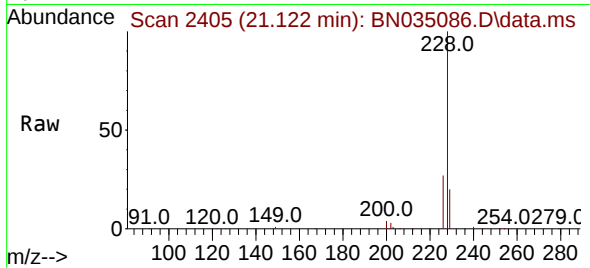




#32
Benzo(a)anthracene
Concen: 5.943 ng
RT: 21.122 min Scan# 2405
Delta R.T. -0.000 min
Lab File: BN035086.D
Acq: 14 Nov 2024 13:22

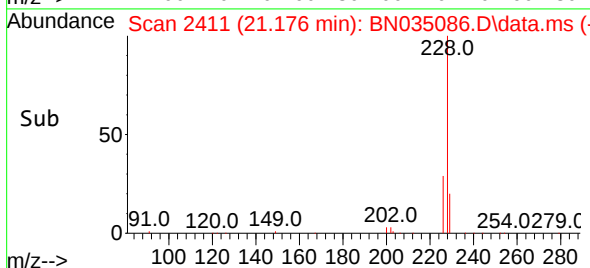
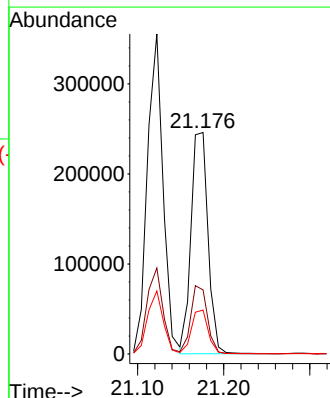
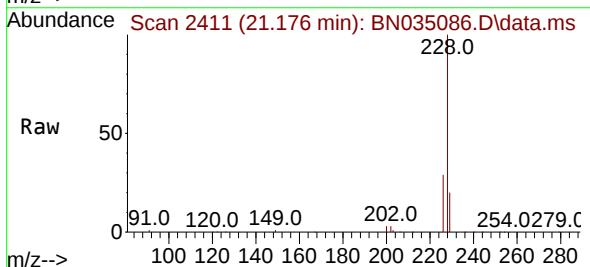
Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOIL

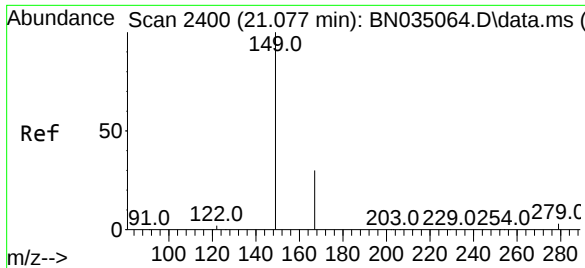
Tgt Ion:228 Resp: 427505
Ion Ratio Lower Upper
228 100
226 26.9 21.4 32.0
229 19.7 15.7 23.5



#33
Chrysene
Concen: 4.742 ng
RT: 21.176 min Scan# 2411
Delta R.T. -0.000 min
Lab File: BN035086.D
Acq: 14 Nov 2024 13:22

Tgt Ion:228 Resp: 337891
Ion Ratio Lower Upper
228 100
226 28.9 23.7 35.5
229 19.8 16.2 24.4

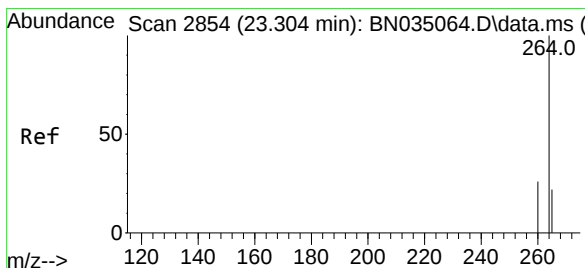
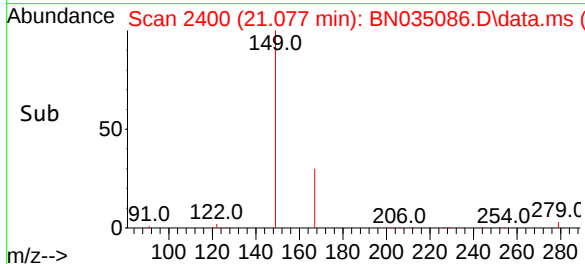
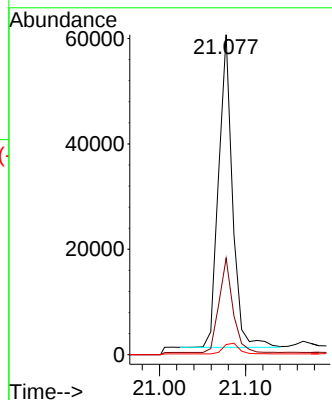
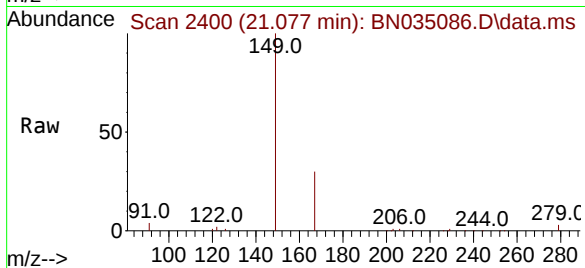




#34
Bis(2-ethylhexyl)phthalate
Concen: 1.759 ng
RT: 21.077 min Scan# 2400
Delta R.T. -0.000 min
Lab File: BN035086.D
Acq: 14 Nov 2024 13:22

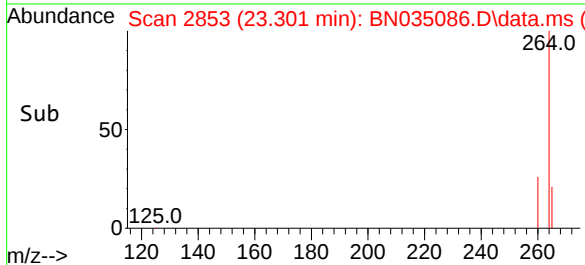
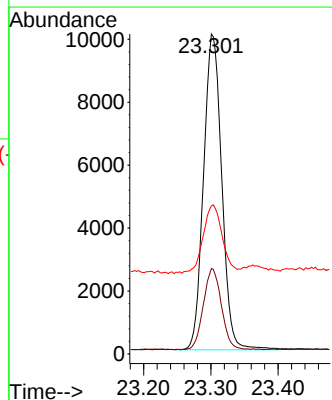
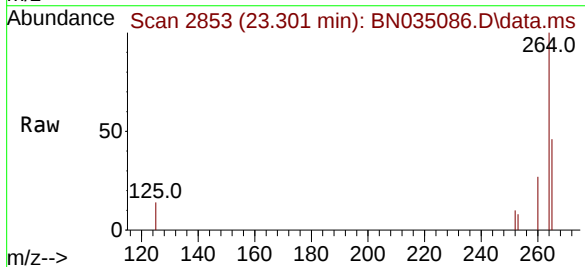
Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOIL

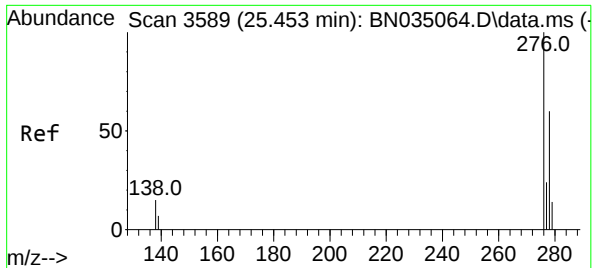
Tgt Ion:149 Resp: 66373
Ion Ratio Lower Upper
149 100
167 29.9 23.2 34.8
279 3.9 3.2 4.8



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.301 min Scan# 2853
Delta R.T. -0.003 min
Lab File: BN035086.D
Acq: 14 Nov 2024 13:22

Tgt Ion:264 Resp: 18894
Ion Ratio Lower Upper
264 100
260 26.7 20.9 31.3
265 46.3 35.4 53.2

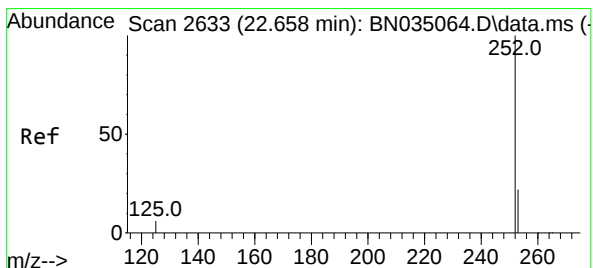
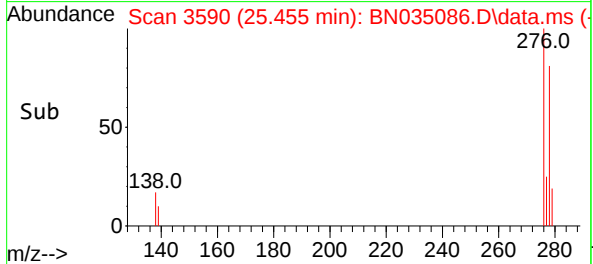
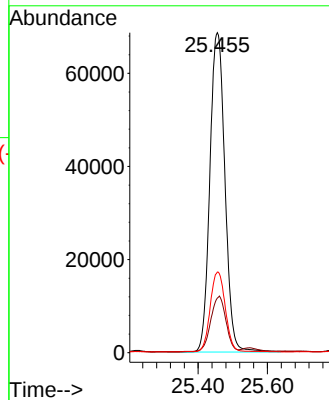
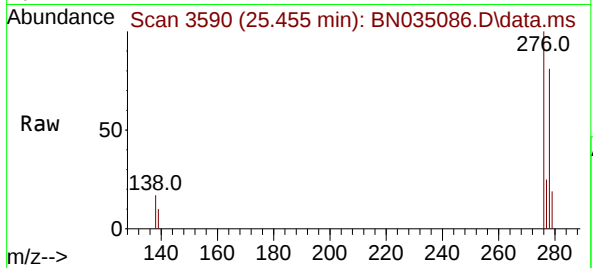




#36
Indeno(1,2,3-cd)pyrene
Concen: 2.749 ng
RT: 25.455 min Scan# 3589
Delta R.T. 0.003 min
Lab File: BN035086.D
Acq: 14 Nov 2024 13:22

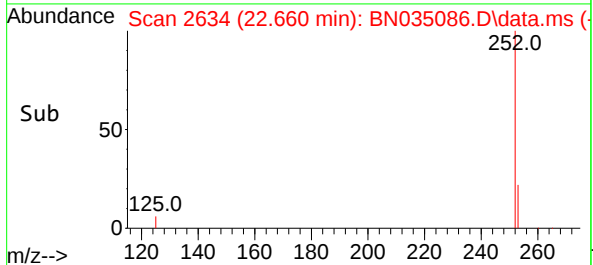
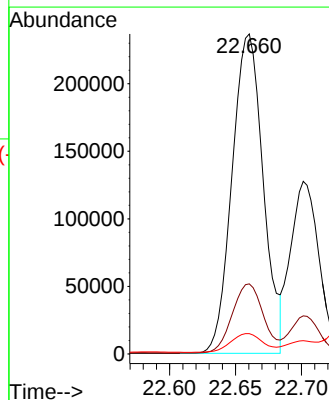
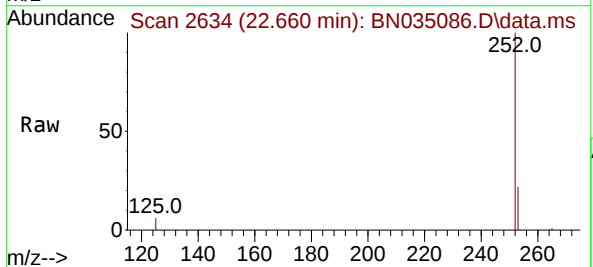
Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOIL

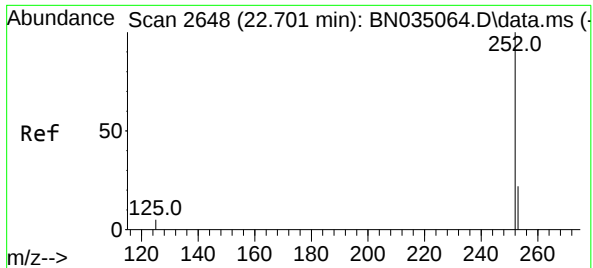
Tgt Ion:276 Resp: 207176
Ion Ratio Lower Upper
276 100
138 17.3 13.0 19.4
277 24.9 19.8 29.6



#37
Benzo(b)fluoranthene
Concen: 6.116 ng
RT: 22.660 min Scan# 2634
Delta R.T. 0.003 min
Lab File: BN035086.D
Acq: 14 Nov 2024 13:22

Tgt Ion:252 Resp: 388820
Ion Ratio Lower Upper
252 100
253 21.9 19.3 28.9
125 6.4 6.2 9.2

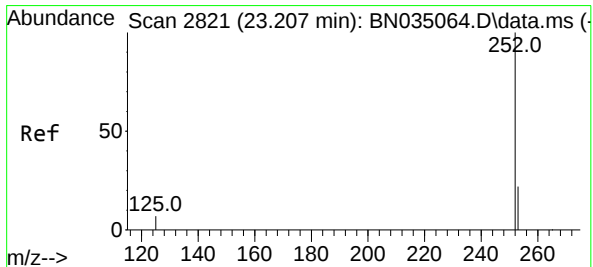
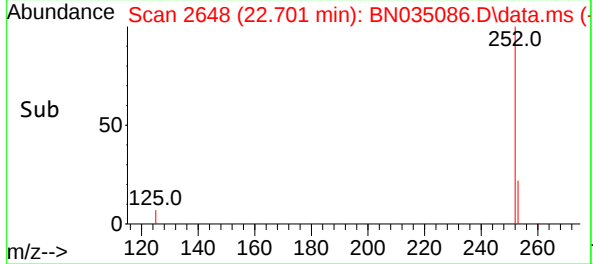
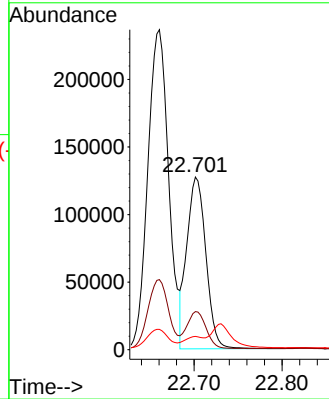
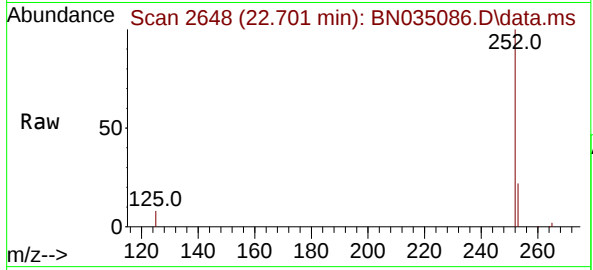




#38
Benzo(k)fluoranthene
Concen: 3.007 ng
RT: 22.701 min Scan# 2648
Delta R.T. -0.000 min
Lab File: BN035086.D
Acq: 14 Nov 2024 13:22

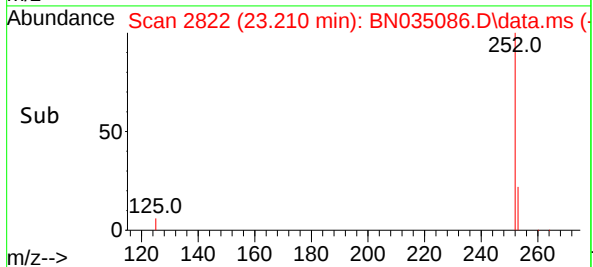
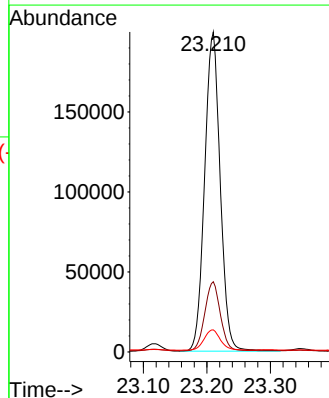
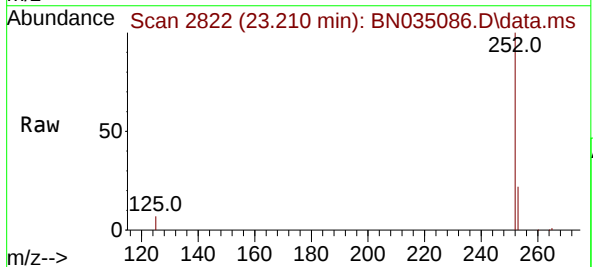
Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOIL

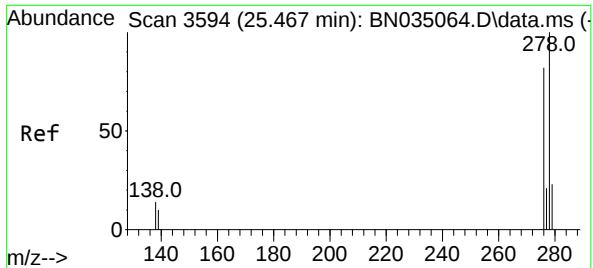
Tgt Ion:252 Resp: 191270
Ion Ratio Lower Upper
252 100
253 22.1 19.5 29.3
125 7.7 6.5 9.7



#39
Benzo(a)pyrene
Concen: 6.067 ng
RT: 23.210 min Scan# 2822
Delta R.T. 0.003 min
Lab File: BN035086.D
Acq: 14 Nov 2024 13:22

Tgt Ion:252 Resp: 339348
Ion Ratio Lower Upper
252 100
253 22.0 20.1 30.1
125 6.9 7.5 11.3#

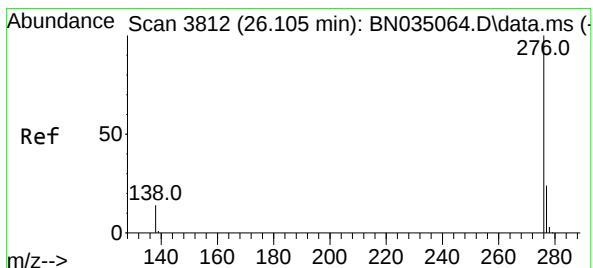
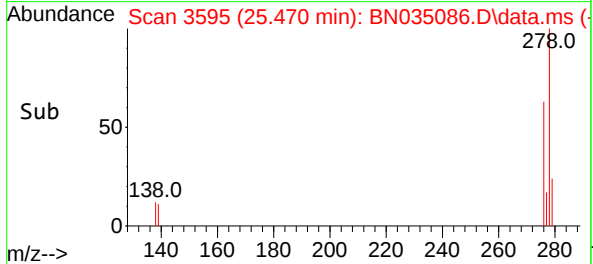
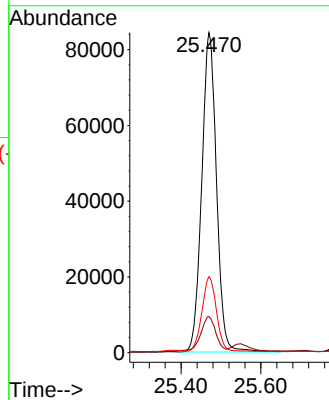
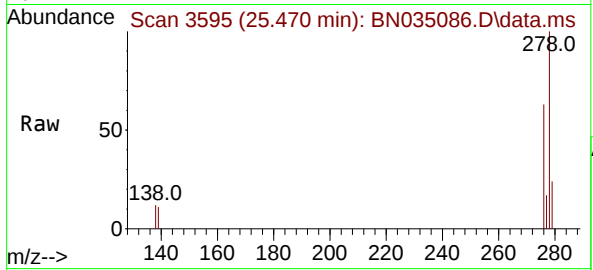




#40
Dibenzo(a,h)anthracene
Concen: 3.621 ng
RT: 25.470 min Scan# 31
Delta R.T. 0.003 min
Lab File: BN035086.D
Acq: 14 Nov 2024 13:22

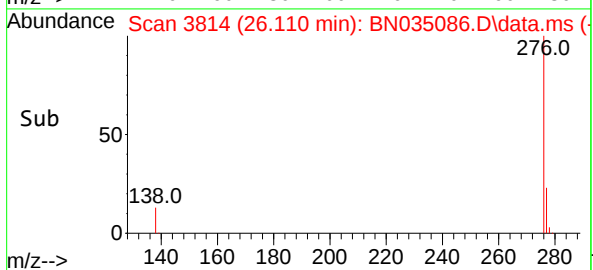
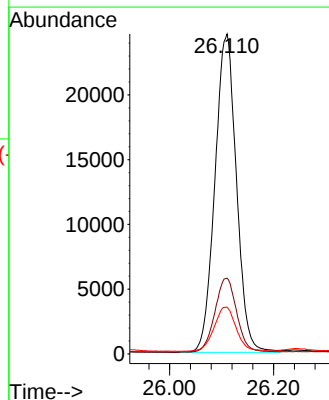
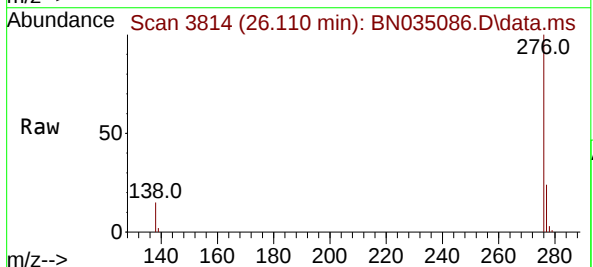
Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOIL

Tgt Ion:278 Resp: 216242
Ion Ratio Lower Upper
278 100
139 11.2 9.3 13.9
279 23.8 19.7 29.5



#41
Benzo(g,h,i)perylene
Concen: 1.110 ng
RT: 26.110 min Scan# 3814
Delta R.T. 0.006 min
Lab File: BN035086.D
Acq: 14 Nov 2024 13:22

Tgt Ion:276 Resp: 70521
Ion Ratio Lower Upper
276 100
277 23.7 19.9 29.9
138 14.7 11.6 17.4



Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-PAH-SOILDL	SDG No.:	P4495
Lab Sample ID:	P4495-13DL	Matrix:	SOIL
Analytical Method:	SW8270SIM	% Solid:	100
Sample Wt/Vol:	30 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	sw3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035087.D	5	10/25/24 09:50	11/14/24 14:10	PB164402

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
91-20-3	Naphthalene	170	D	3.50	16.5	ug/Kg
91-57-6	2-Methylnaphthalene	180	D	4.00	16.5	ug/Kg
208-96-8	Acenaphthylene	80.8	D	3.20	16.5	ug/Kg
83-32-9	Acenaphthene	300	D	2.80	16.5	ug/Kg
86-73-7	Fluorene	120	D	3.00	16.5	ug/Kg
85-01-8	Phenanthrene	290	D	3.20	16.5	ug/Kg
120-12-7	Anthracene	430	D	4.00	16.5	ug/Kg
206-44-0	Fluoranthene	150	D	3.40	16.5	ug/Kg
129-00-0	Pyrene	190	D	4.80	16.5	ug/Kg
56-55-3	Benzo(a)anthracene	220	D	3.80	16.5	ug/Kg
218-01-9	Chrysene	180	D	4.30	16.5	ug/Kg
205-99-2	Benzo(b)fluoranthene	220	D	6.00	16.5	ug/Kg
207-08-9	Benzo(k)fluoranthene	110	D	4.90	16.5	ug/Kg
50-32-8	Benzo(a)pyrene	220	D	8.30	16.5	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	100	D	6.30	16.5	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	130	D	5.90	16.5	ug/Kg
191-24-2	Benzo(g,h,i)perylene	40.8	D	5.70	16.5	ug/Kg
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.27		17 - 161	66%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.29		23 - 138	72%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		33 - 121	83%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		32 - 121	77%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.38		21 - 130	94%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	3590		7.553		
1146-65-2	Naphthalene-d8	9960		10.319		
15067-26-2	Acenaphthene-d10	7630		14.19		
1517-22-2	Phenanthrene-d10	18500		16.932		
1719-03-5	Chrysene-d12	19200		21.133		

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-PAH-SOILDL	SDG No.:	P4495
Lab Sample ID:	P4495-13DL	Matrix:	SOIL
Analytical Method:	SW8270SIM	% Solid:	100
Sample Wt/Vol:	30 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	sw3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035087.D	5	10/25/24 09:50	11/14/24 14:10	PB164402

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1520-96-3	Perylene-d12	17700	23.303			

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\BN111424\
Data File : BN035087.D
Acq On : 14 Nov 2024 14:10
Operator : RC/JU
Sample : P4495-13DL 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOILD

Quant Time: Nov 14 14:35:52 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

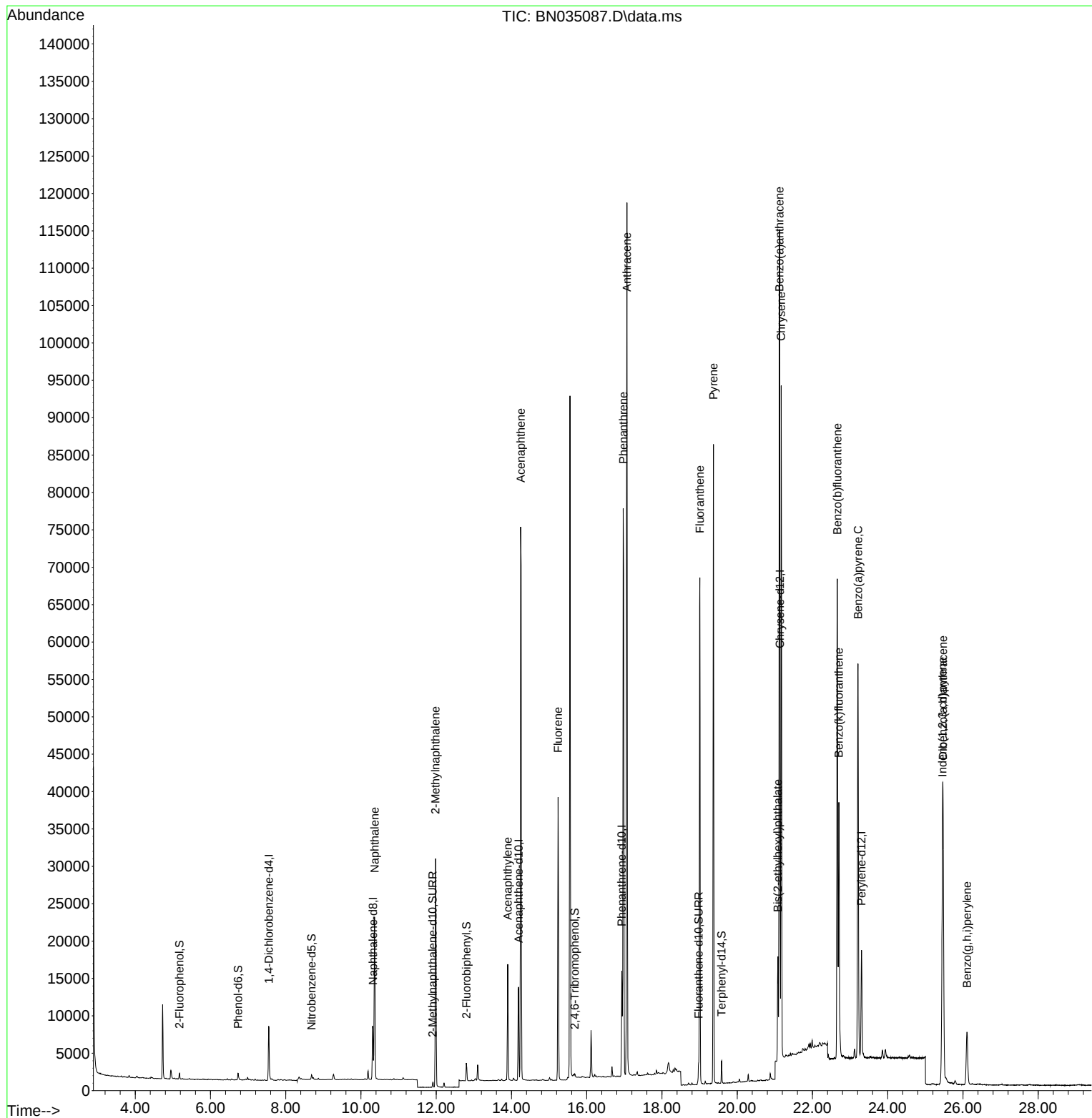
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.553	152	3588	0.400	ng	0.00
7) Naphthalene-d8	10.319	136	9962	0.400	ng	0.00
13) Acenaphthene-d10	14.190	164	7625	0.400	ng	0.00
19) Phenanthrene-d10	16.932	188	18496	0.400	ng	# 0.00
29) Chrysene-d12	21.133	240	19193	0.400	ng	# 0.00
35) Perylene-d12	23.303	264	17654	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	623	0.068	ng	0.00
5) Phenol-d6	6.737	99	858	0.075	ng	0.00
8) Nitrobenzene-d5	8.685	82	574	0.066	ng	-0.01
11) 2-Methylnaphthalene-d10	11.908	152	948	0.053	ng	0.00
14) 2,4,6-Tribromophenol	15.679	330	267	0.049	ng	0.00
15) 2-Fluorobiphenyl	12.800	172	1933	0.062	ng	0.00
27) Fluoranthene-d10	18.973	212	3297	0.058	ng	0.00
31) Terphenyl-d14	19.587	244	3039	0.075	ng	0.00
Target Compounds						
9) Naphthalene	10.361	128	26813	1.031	ng	98
12) 2-Methylnaphthalene	11.984	142	20979	1.093	ng	98
16) Acenaphthylene	13.901	152	15792	0.485	ng	99
17) Acenaphthene	14.243	154	39032	1.828	ng	100
18) Fluorene	15.238	166	23114	0.736	ng	100
25) Phenanthrene	16.970	178	85839	1.764	ng	99
26) Anthracene	17.069	178	116295	2.601	ng	100
28) Fluoranthene	19.006	202	59098	0.883	ng	100
30) Pyrene	19.368	202	74314	1.163	ng	100
32) Benzo(a)anthracene	21.125	228	90123	1.349	ng	100
33) Chrysene	21.169	228	70164	1.060	ng	98
34) Bis(2-ethylhexyl)phtha...	21.080	149	12480	0.356	ng	98
36) Indeno(1,2,3-cd)pyrene	25.455	276	42313	0.601	ng	99
37) Benzo(b)fluoranthene	22.660	252	80139	1.349	ng	97
38) Benzo(k)fluoranthene	22.701	252	40922	0.689	ng	98
39) Benzo(a)pyrene	23.209	252	69681	1.333	ng	95
40) Dibenzo(a,h)anthracene	25.472	278	44339	0.795	ng	100
41) Benzo(g,h,i)perylene	26.107	276	14526	0.245	ng	98

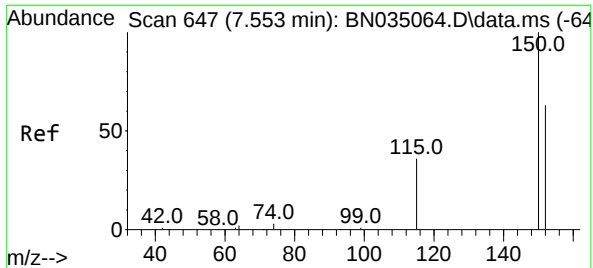
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111424\
Data File : BN035087.D
Acq On : 14 Nov 2024 14:10
Operator : RC/JU
Sample : P4495-13DL 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOILD

Quant Time: Nov 14 14:35:52 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

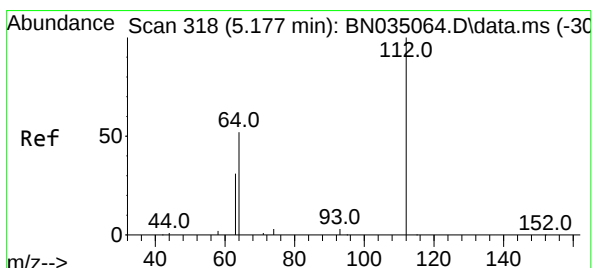
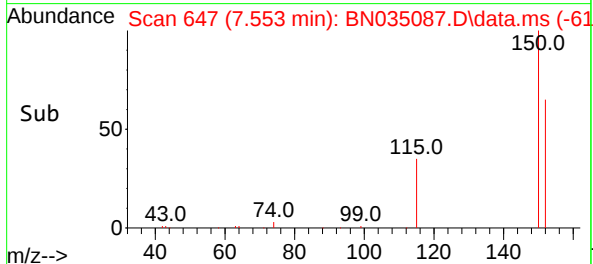
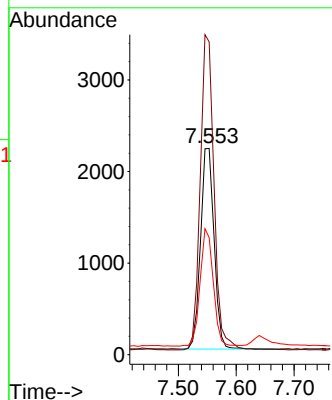
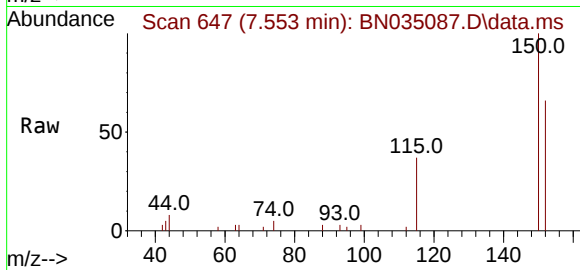




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.553 min Scan# 647
Delta R.T. 0.000 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

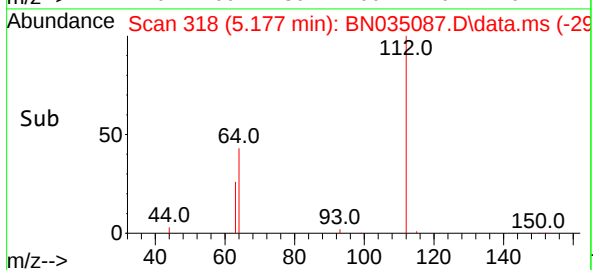
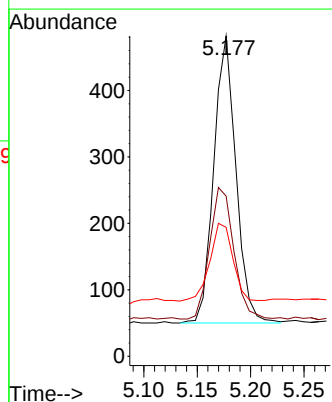
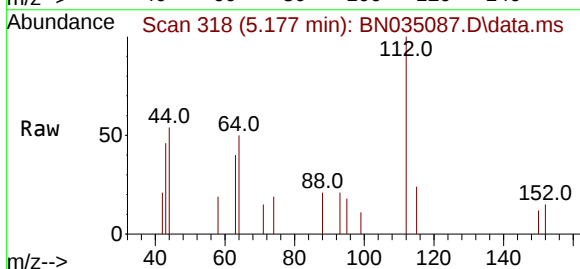
Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOILD

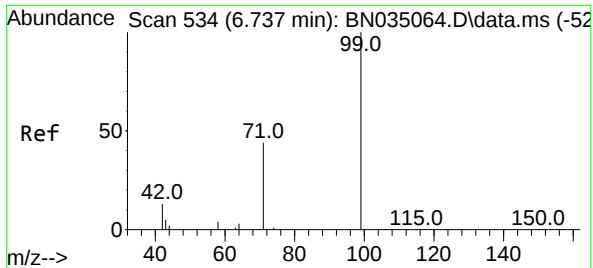
Tgt Ion:152 Resp: 3588
Ion Ratio Lower Upper
152 100
150 151.6 124.5 186.7
115 56.7 47.8 71.6



#4
2-Fluorophenol
Concen: 0.068 ng
RT: 5.177 min Scan# 318
Delta R.T. -0.000 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

Tgt Ion:112 Resp: 623
Ion Ratio Lower Upper
112 100
64 49.9 39.7 59.5
63 28.1 23.0 34.4

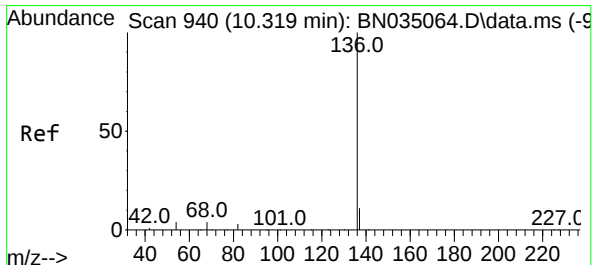
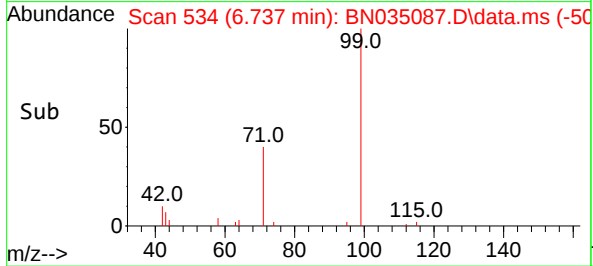
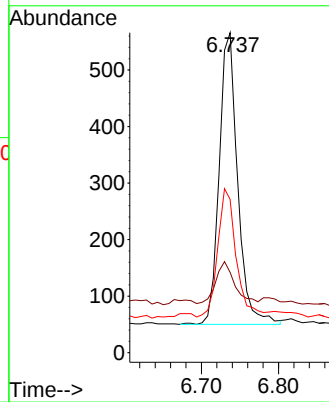
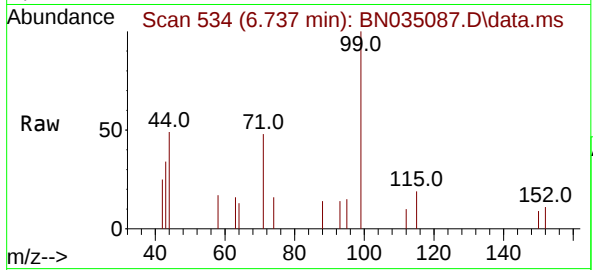




#5
Phenol-d6
Concen: 0.075 ng
RT: 6.737 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

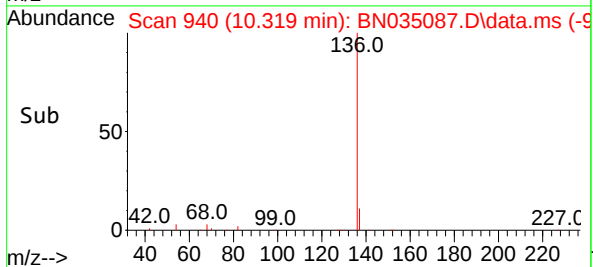
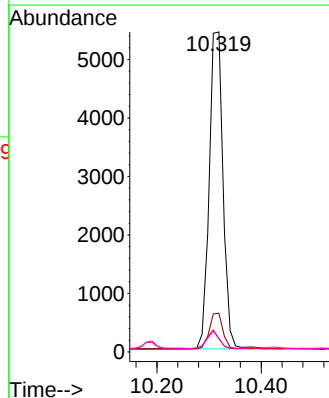
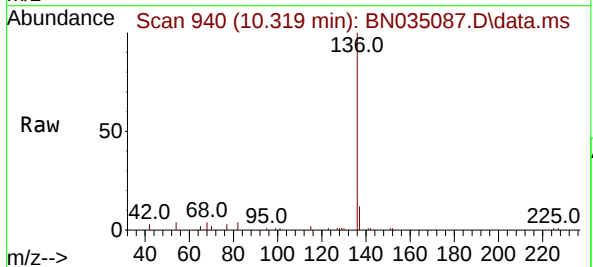
Instrument :
BNA_N
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PT-PAH-SOILD

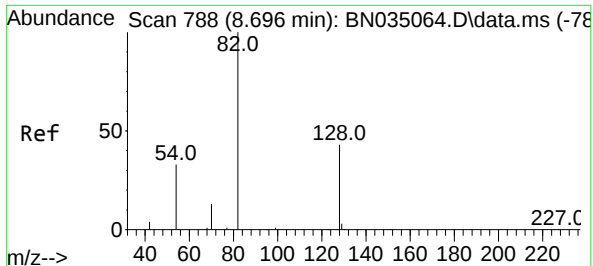
Tgt Ion:	99	Resp:	858
Ion	Ratio	Lower	Upper
99	100		
42	16.3	11.4	17.0
71	43.6	34.6	51.8



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.319 min Scan# 940
Delta R.T. -0.000 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

Tgt Ion:	136	Resp:	9962
Ion	Ratio	Lower	Upper
136	100		
137	12.1	9.8	14.8
54	4.1	4.0	6.0
68	4.3	4.2	6.2

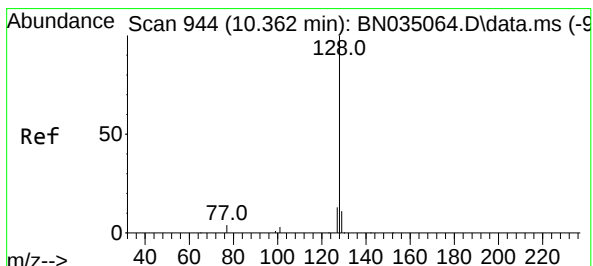
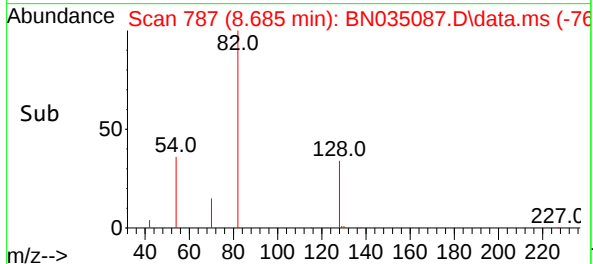
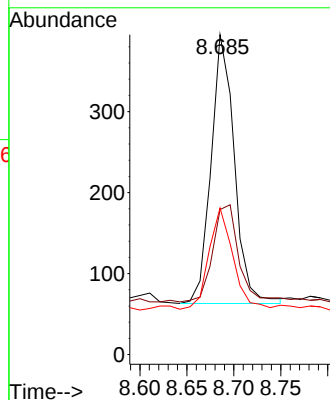
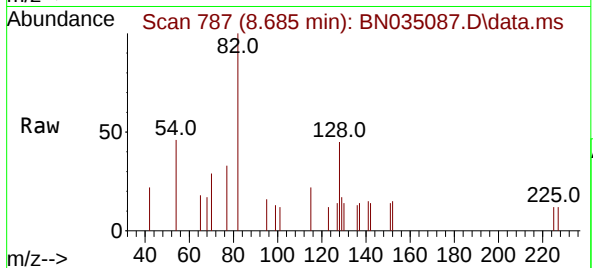




#8
Nitrobenzene-d5
Concen: 0.066 ng
RT: 8.685 min Scan# 71
Delta R.T. -0.011 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

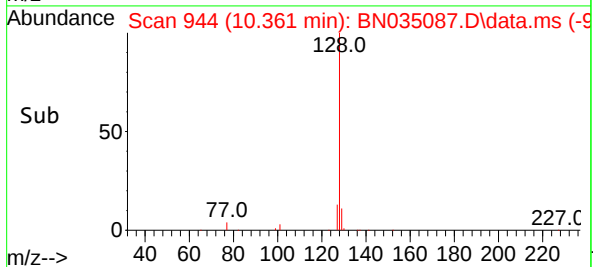
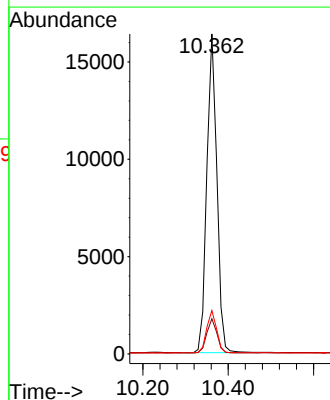
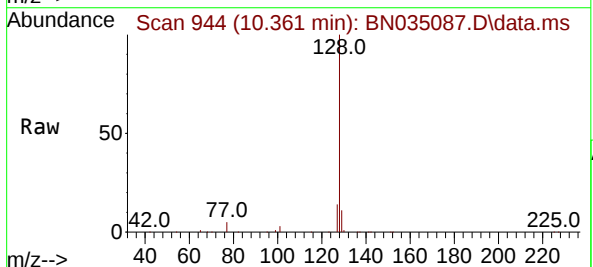
Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOILD

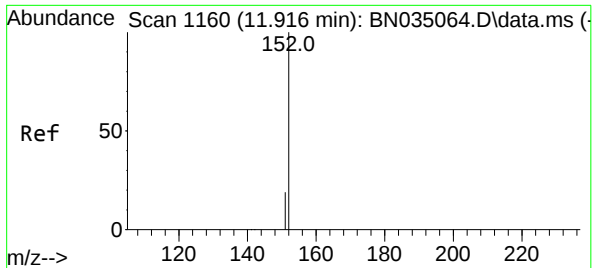
Tgt Ion:	82	Resp:	574
Ion Ratio	Lower	Upper	
82	100		
128	45.3	36.5	54.7
54	45.8	28.7	43.1



#9
Naphthalene
Concen: 1.031 ng
RT: 10.361 min Scan# 944
Delta R.T. -0.000 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

Tgt Ion:	128	Resp:	26813
Ion Ratio	Lower	Upper	
128	100		
129	11.0	9.6	14.4
127	13.6	11.6	17.4

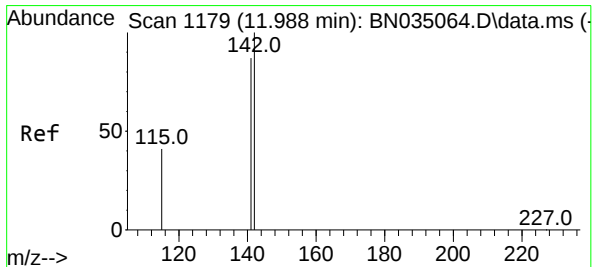
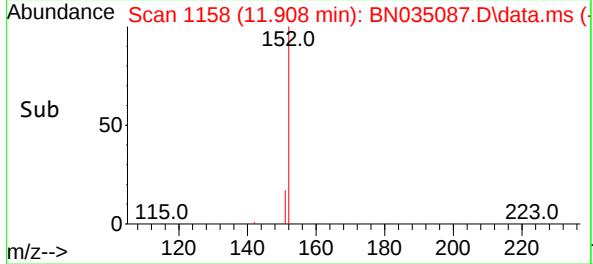
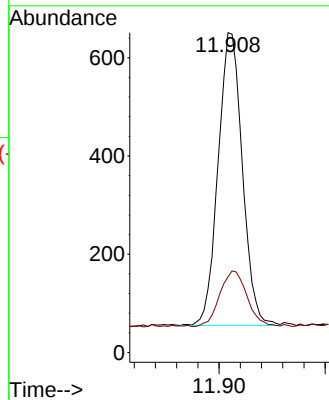
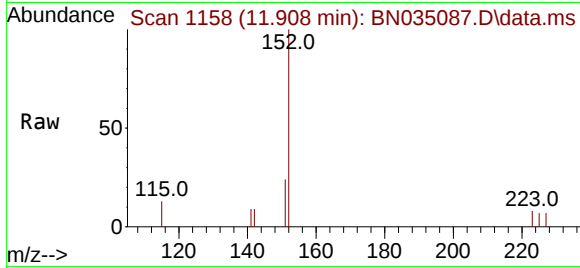




#11
2-Methylnaphthalene-d10
Concen: 0.053 ng
RT: 11.908 min Scan# 1158
Delta R.T. -0.008 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

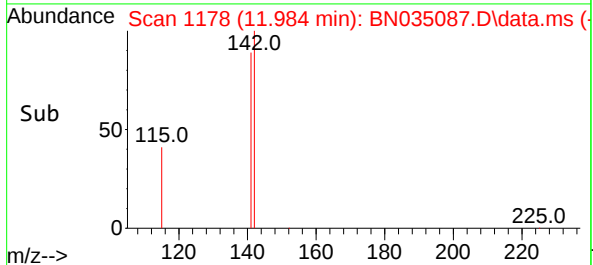
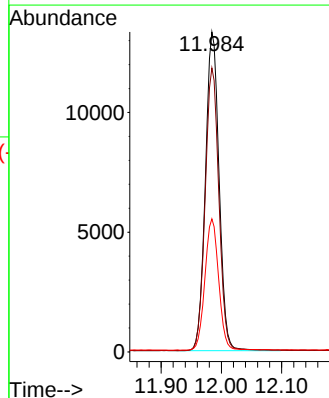
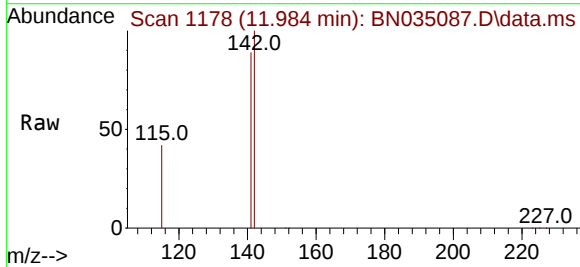
Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOILD

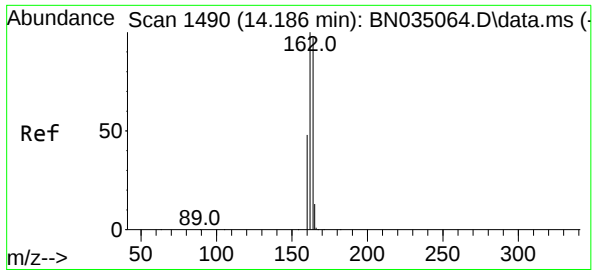
Tgt Ion:152 Resp: 948
Ion Ratio Lower Upper
152 100
151 21.2 16.2 24.4



#12
2-Methylnaphthalene
Concen: 1.093 ng
RT: 11.984 min Scan# 1178
Delta R.T. -0.004 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

Tgt Ion:142 Resp: 20979
Ion Ratio Lower Upper
142 100
141 88.8 70.1 105.1
115 41.6 34.4 51.6

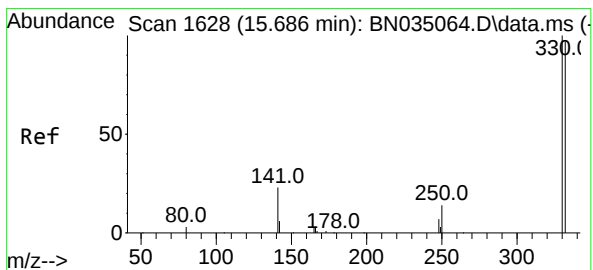
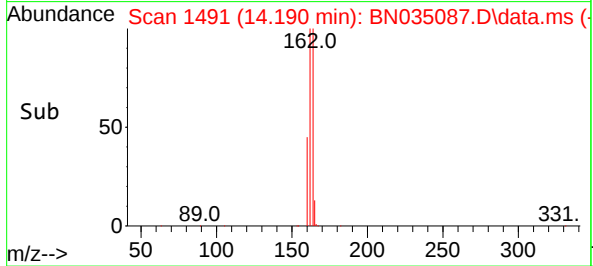
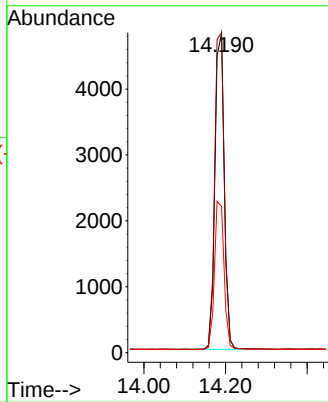
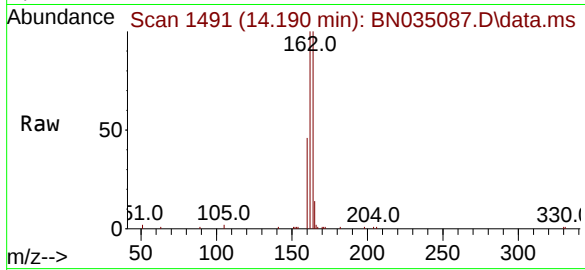




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.190 min Scan# 1491
Delta R.T. 0.004 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

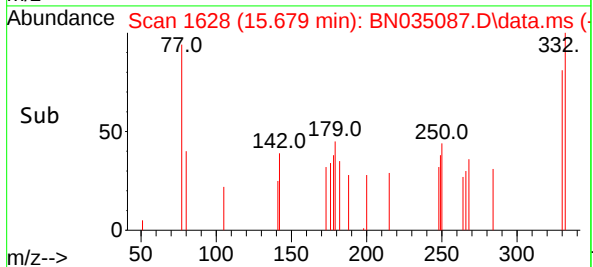
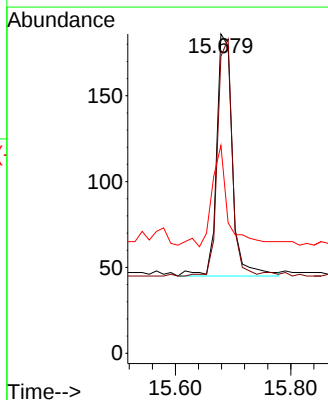
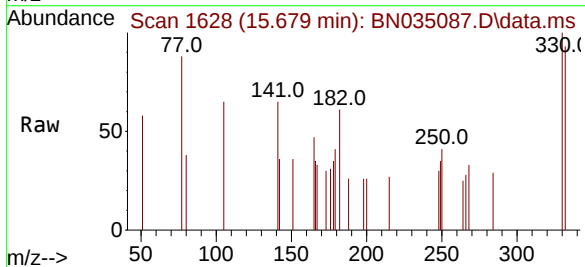
Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOILD

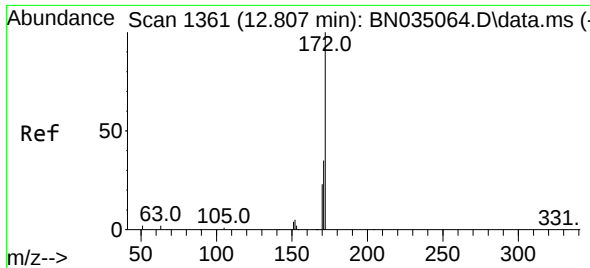
Tgt Ion:164 Resp: 7625
Ion Ratio Lower Upper
164 100
162 100.1 82.2 123.2
160 45.7 40.2 60.4



#14
2,4,6-Tribromophenol
Concen: 0.049 ng
RT: 15.679 min Scan# 1628
Delta R.T. -0.007 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

Tgt Ion:330 Resp: 267
Ion Ratio Lower Upper
330 100
332 88.0 76.9 115.3
141 42.7 29.6 44.4

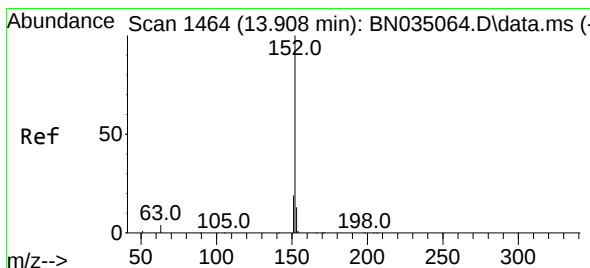
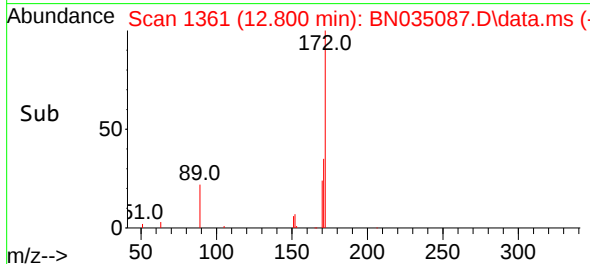
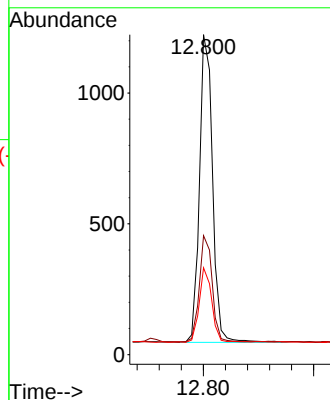
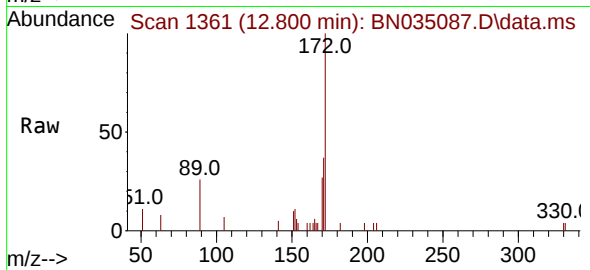




#15
2-Fluorobiphenyl
Concen: 0.062 ng
RT: 12.800 min Scan# 1361
Delta R.T. -0.007 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

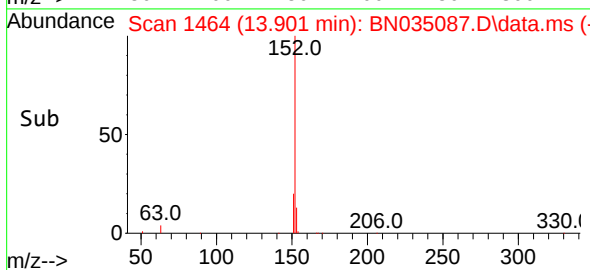
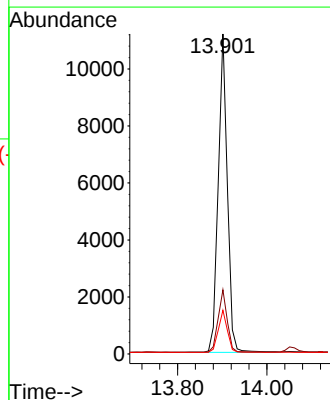
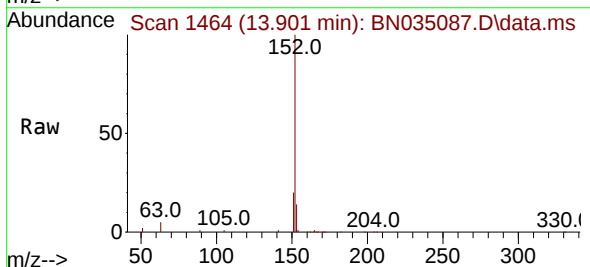
Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOILD

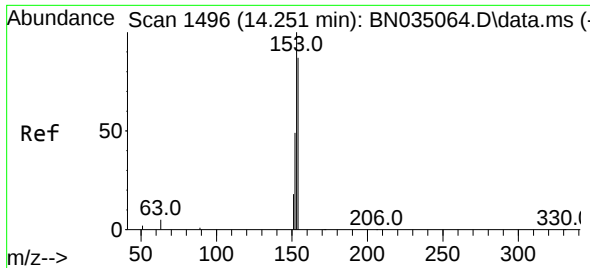
Tgt Ion:	172	Resp:	1933
Ion	Ratio	Lower	Upper
172	100		
171	37.2	28.2	42.4
170	27.1	19.0	28.6



#16
Acenaphthylene
Concen: 0.485 ng
RT: 13.901 min Scan# 1464
Delta R.T. -0.007 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

Tgt Ion:	152	Resp:	15792
Ion	Ratio	Lower	Upper
152	100		
151	19.7	15.8	23.8
153	13.3	10.2	15.4

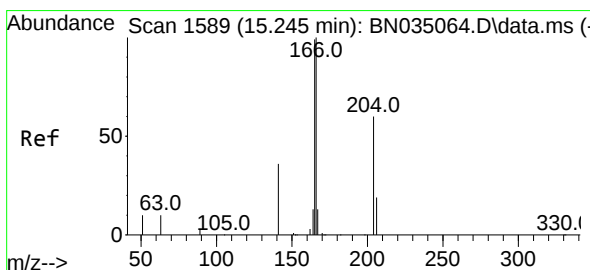
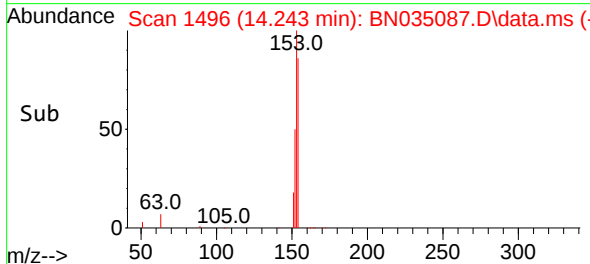
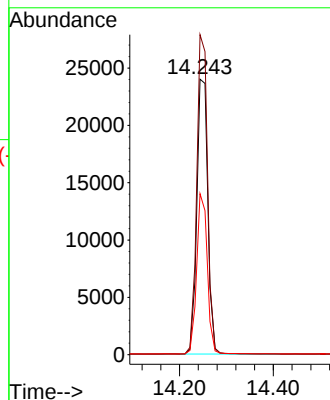
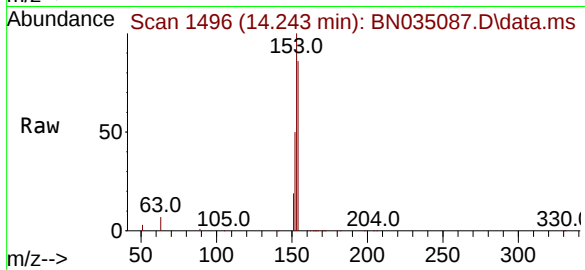




#17
Acenaphthene
Concen: 1.828 ng
RT: 14.243 min Scan# 1496
Delta R.T. -0.007 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

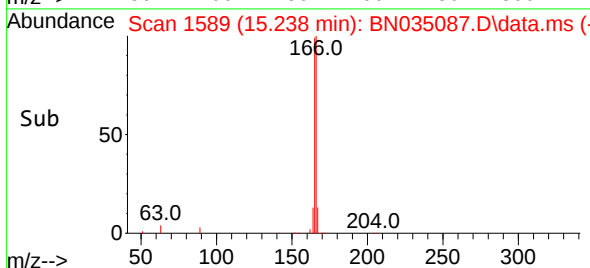
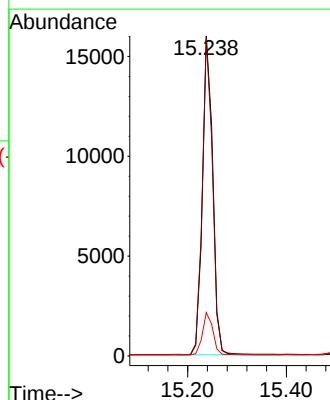
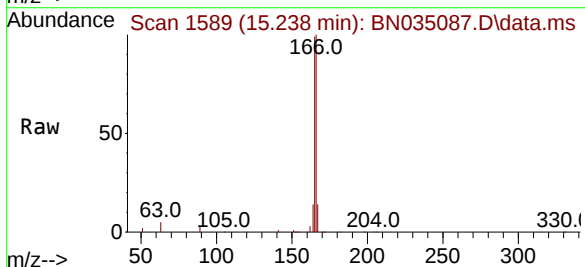
Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOILD

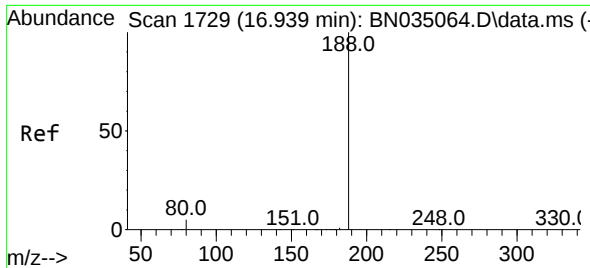
Tgt Ion:154 Resp: 39032
Ion Ratio Lower Upper
154 100
153 114.3 91.6 137.4
152 56.3 45.8 68.6



#18
Fluorene
Concen: 0.736 ng
RT: 15.238 min Scan# 1589
Delta R.T. -0.007 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

Tgt Ion:166 Resp: 23114
Ion Ratio Lower Upper
166 100
165 98.8 79.1 118.7
167 13.4 10.6 16.0

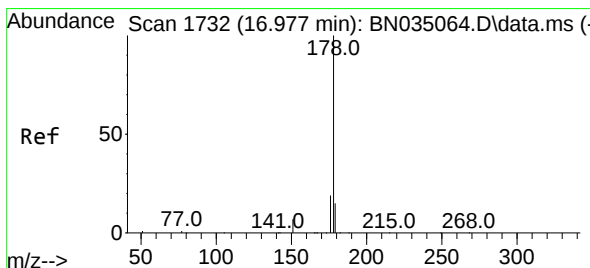
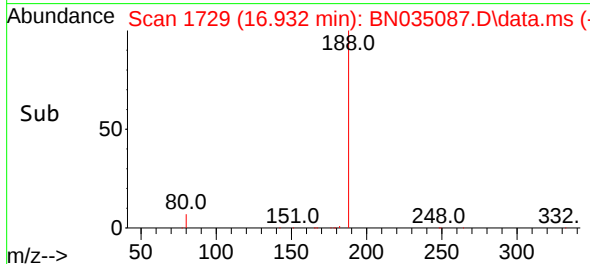
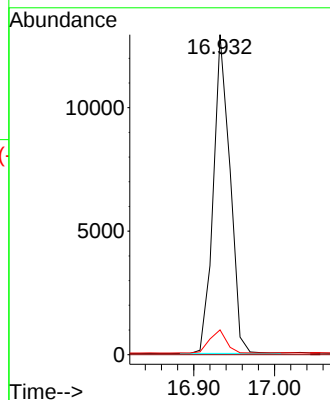
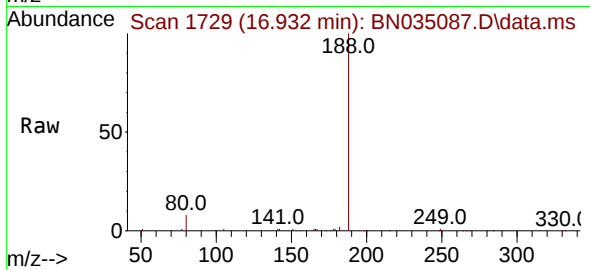




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.932 min Scan# 1729
Delta R.T. -0.007 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

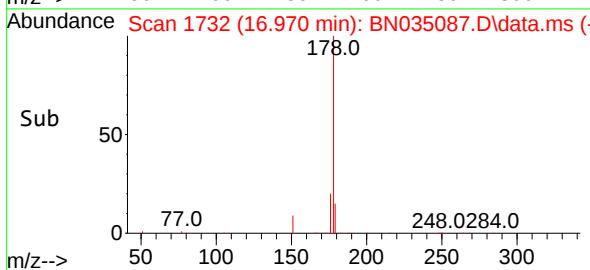
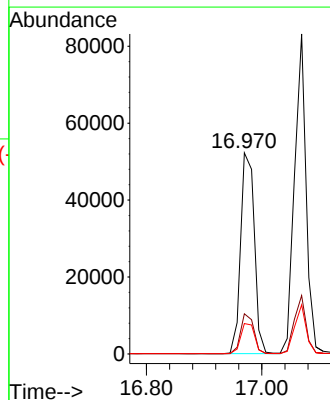
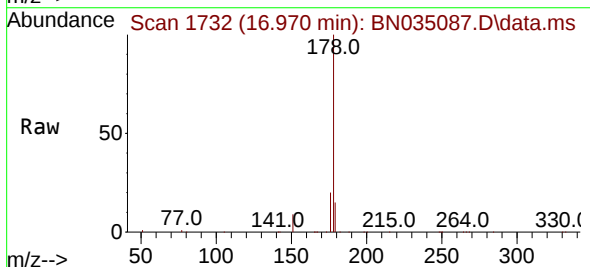
Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOILD

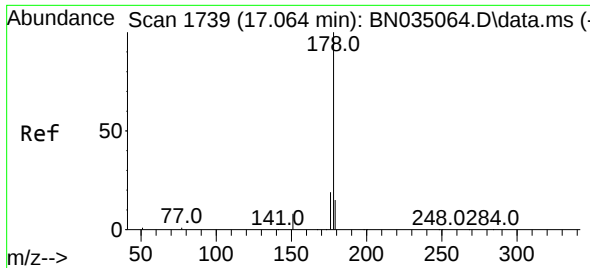
Tgt Ion:188	Resp:	18496
Ion Ratio	Lower	Upper
188	100	
94	0.0	0.0
80	7.7	4.3



#25
Phenanthrene
Concen: 1.764 ng
RT: 16.970 min Scan# 1732
Delta R.T. -0.007 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

Tgt Ion:178	Resp:	85839
Ion Ratio	Lower	Upper
178	100	
176	19.2	15.2
179	15.3	12.6

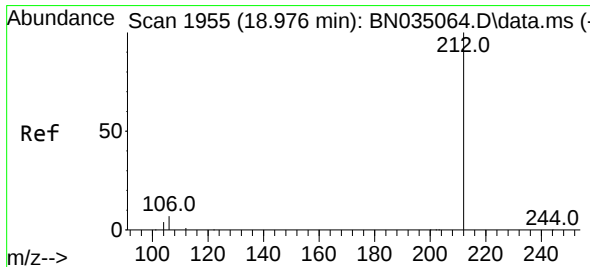
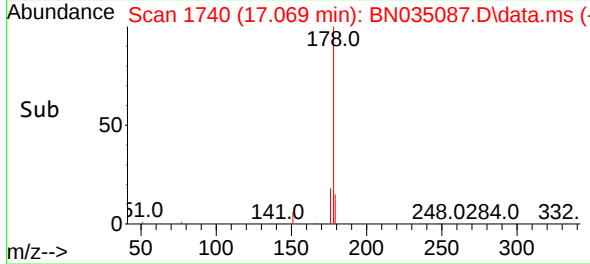
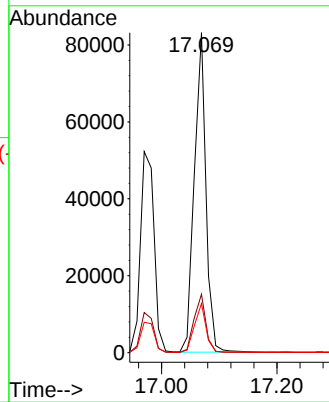
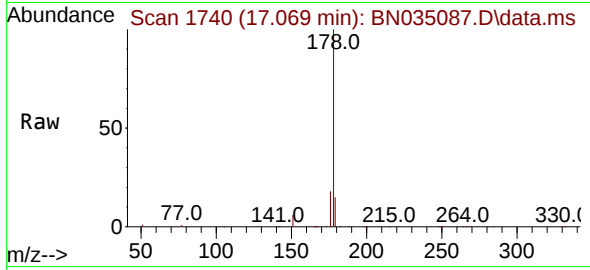




#26
Anthracene
Concen: 2.601 ng
RT: 17.069 min Scan# 1739
Delta R.T. 0.005 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

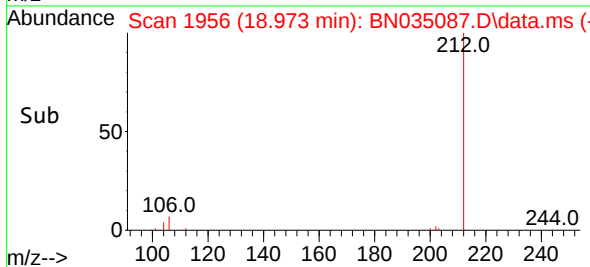
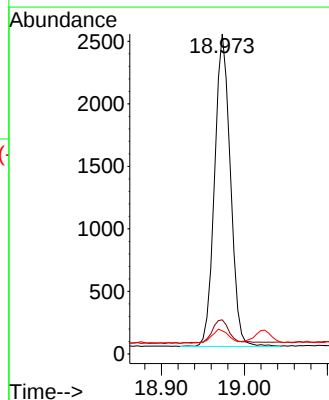
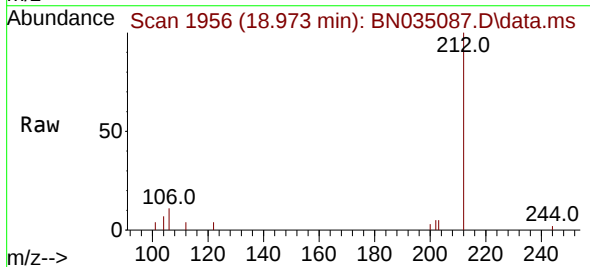
Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOILD

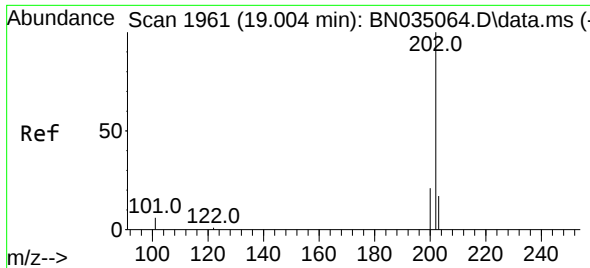
Tgt Ion:178 Resp: 116295
Ion Ratio Lower Upper
178 100
176 18.5 14.6 22.0
179 15.2 12.2 18.2



#27
Fluoranthene-d10
Concen: 0.058 ng
RT: 18.973 min Scan# 1956
Delta R.T. -0.002 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

Tgt Ion:212 Resp: 3297
Ion Ratio Lower Upper
212 100
106 8.3 6.0 9.0
104 5.0 3.5 5.3

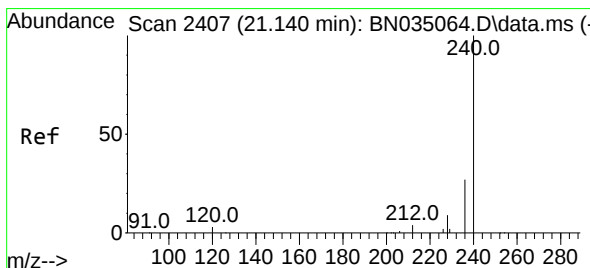
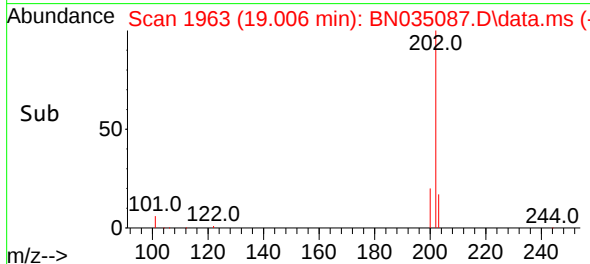
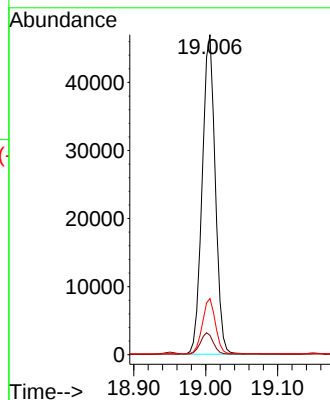
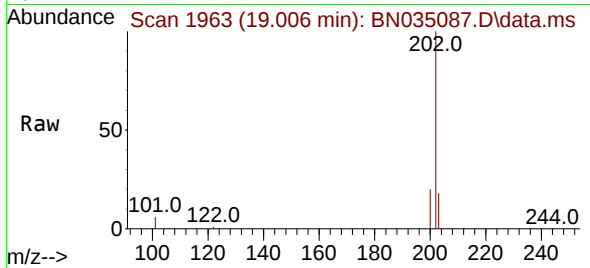




#28
Fluoranthene
Concen: 0.883 ng
RT: 19.006 min Scan# 1961
Delta R.T. 0.002 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

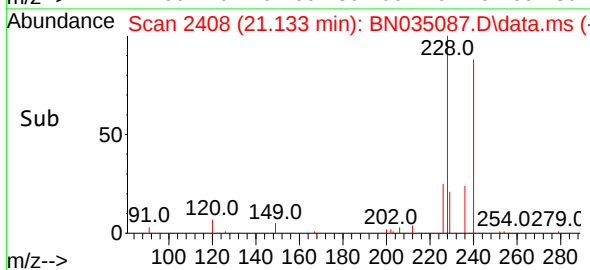
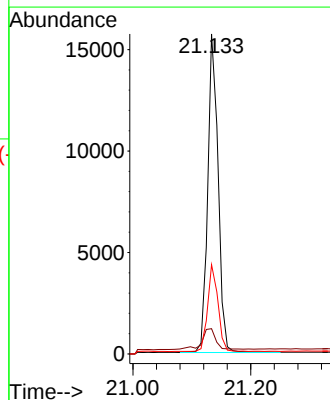
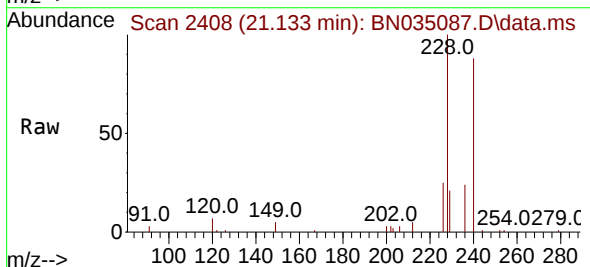
Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOILD

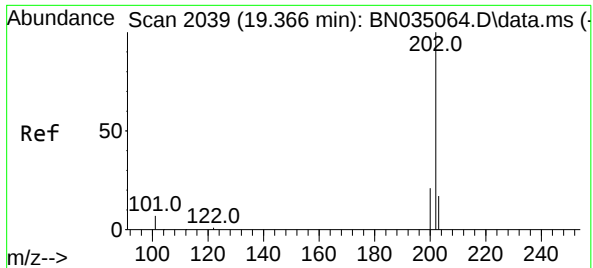
Tgt Ion	Ratio	Lower	Upper
202	100		
101	6.6	5.2	7.8
203	17.2	13.8	20.8



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.133 min Scan# 2408
Delta R.T. -0.007 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

Tgt Ion	Ratio	Lower	Upper
240	100		
120	7.9	3.8	5.6
236	27.9	22.2	33.2

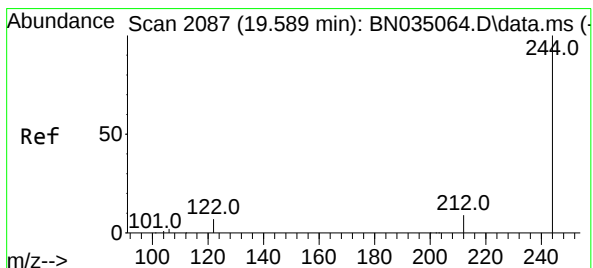
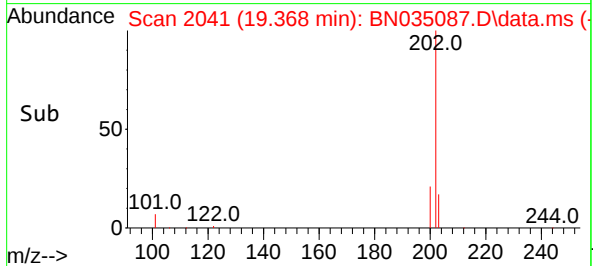
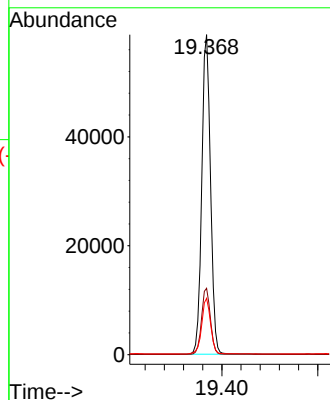
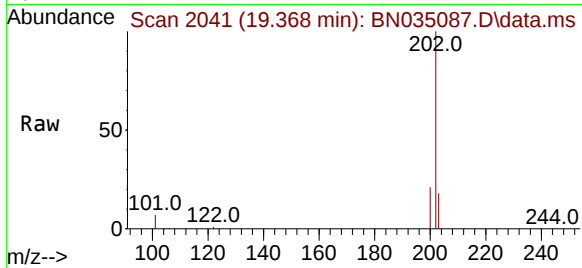




#30
Pyrene
Concen: 1.163 ng
RT: 19.368 min Scan# 2039
Delta R.T. 0.002 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

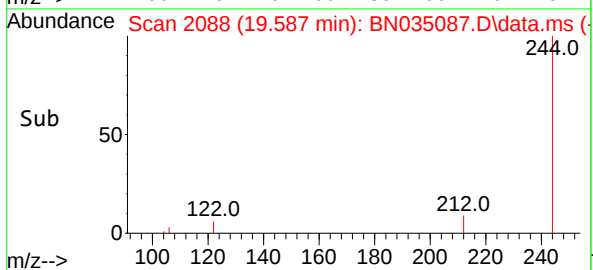
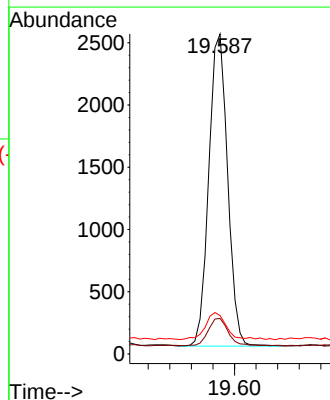
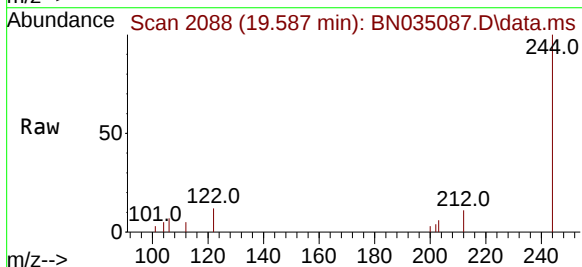
Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOILD

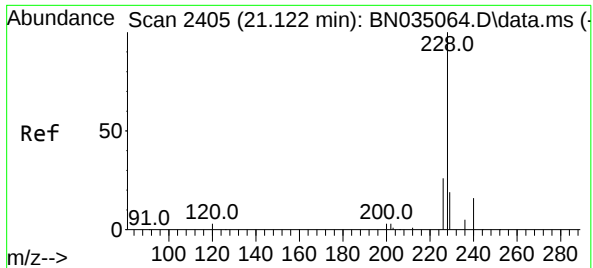
Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.7	25.1
203	17.7	14.2	21.4



#31
Terphenyl-d14
Concen: 0.075 ng
RT: 19.587 min Scan# 2088
Delta R.T. -0.002 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

Tgt Ion	Ratio	Lower	Upper
244	100		
212	11.1	7.6	11.4
122	12.0	6.1	9.1

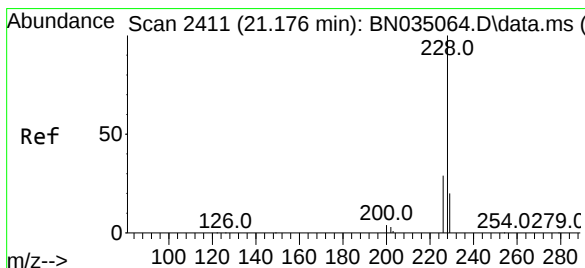
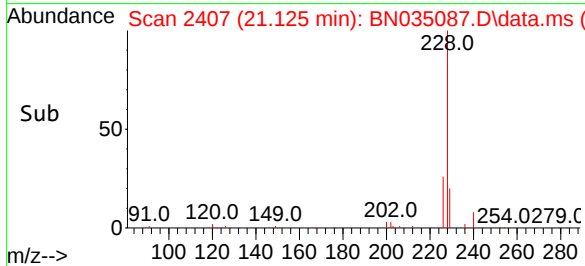
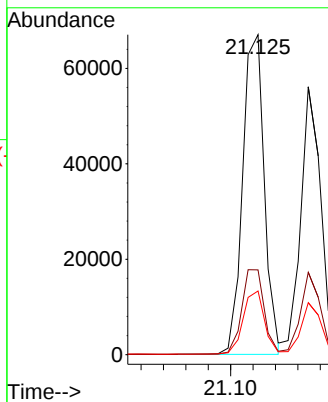
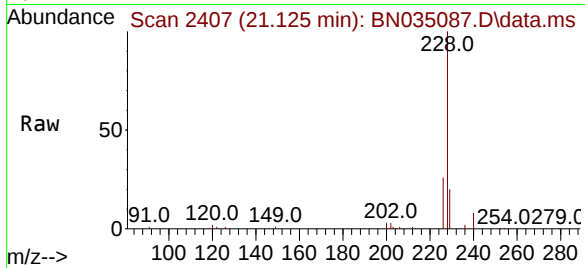




#32
Benzo(a)anthracene
Concen: 1.349 ng
RT: 21.125 min Scan# 2407
Delta R.T. 0.002 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

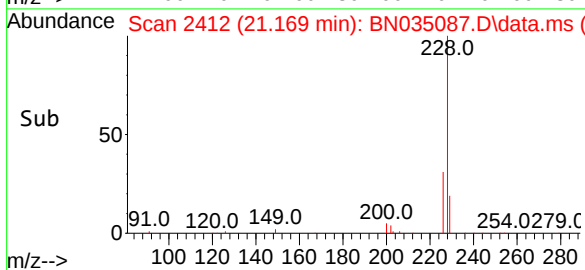
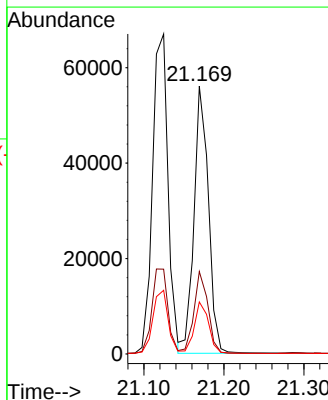
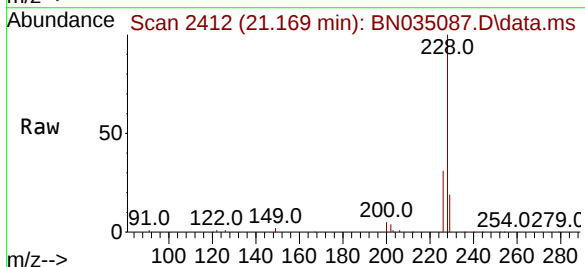
Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOILD

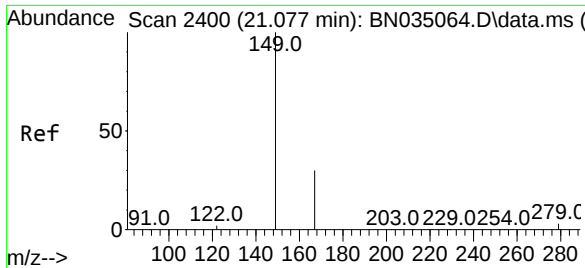
Tgt Ion:228 Resp: 90123
Ion Ratio Lower Upper
228 100
226 26.5 21.4 32.0
229 19.9 15.7 23.5



#33
Chrysene
Concen: 1.060 ng
RT: 21.169 min Scan# 2412
Delta R.T. -0.007 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

Tgt Ion:228 Resp: 70164
Ion Ratio Lower Upper
228 100
226 30.8 23.7 35.5
229 19.4 16.2 24.4

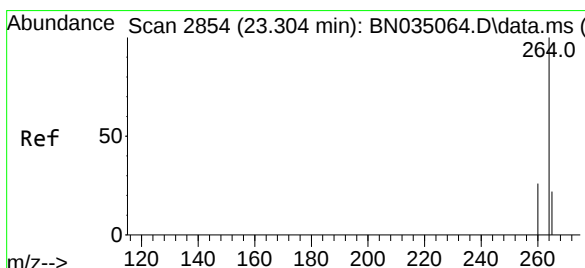
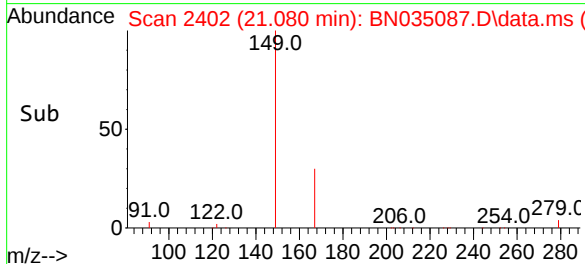
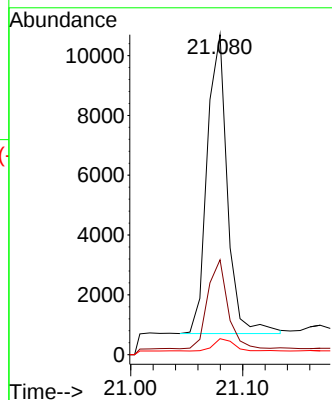
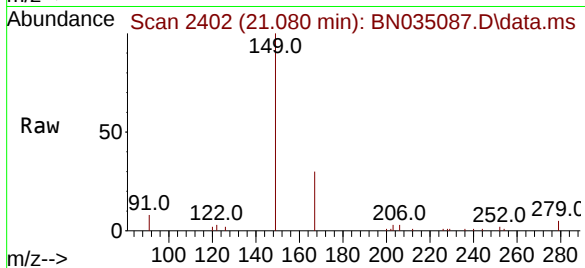




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.356 ng
RT: 21.080 min Scan# 2400
Delta R.T. 0.002 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

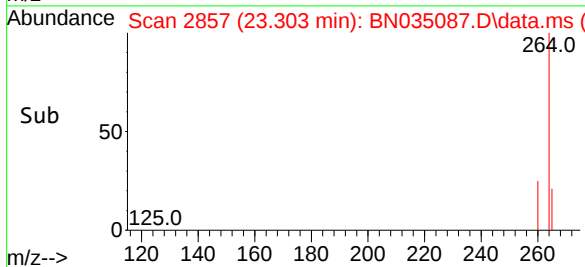
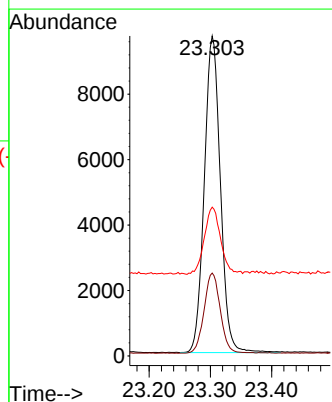
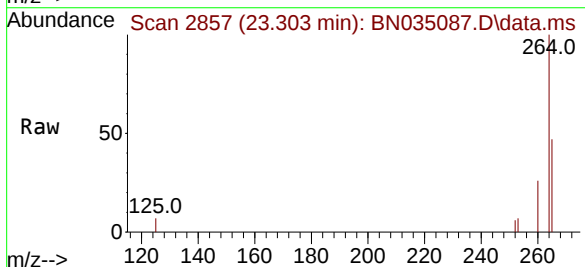
Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOILDL

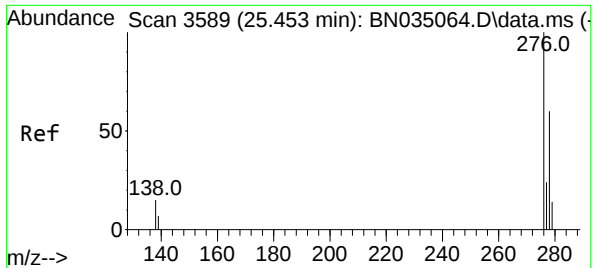
Tgt Ion:149 Resp: 12480
Ion Ratio Lower Upper
149 100
167 30.0 23.2 34.8
279 4.3 3.2 4.8



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.303 min Scan# 2857
Delta R.T. -0.001 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

Tgt Ion:264 Resp: 17654
Ion Ratio Lower Upper
264 100
260 25.9 20.9 31.3
265 46.5 35.4 53.2

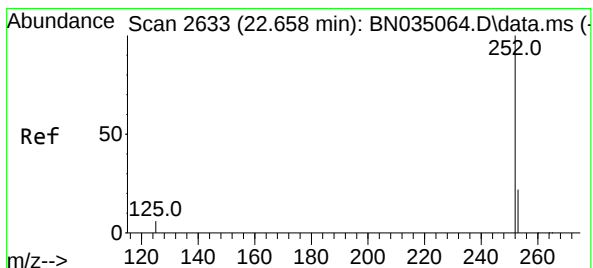
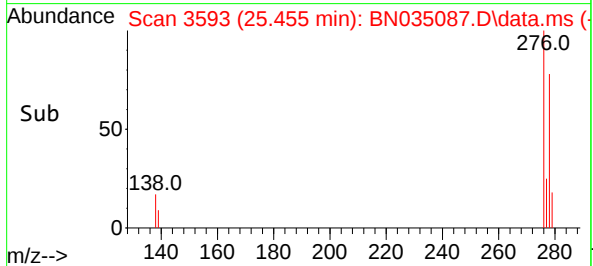
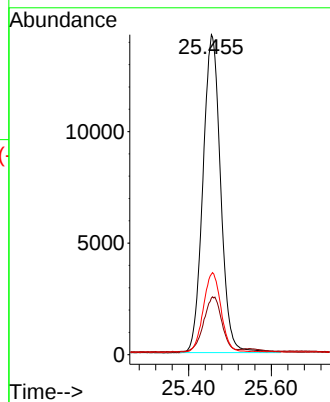
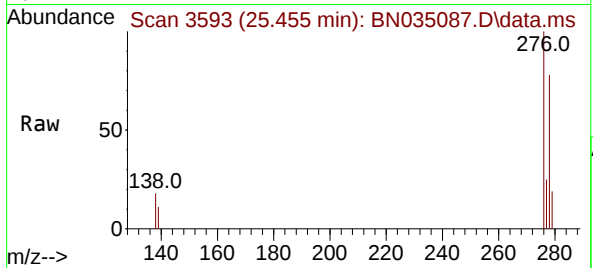




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.601 ng
RT: 25.455 min Scan# 3589
Delta R.T. 0.002 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

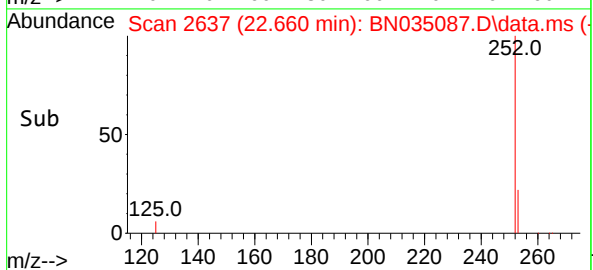
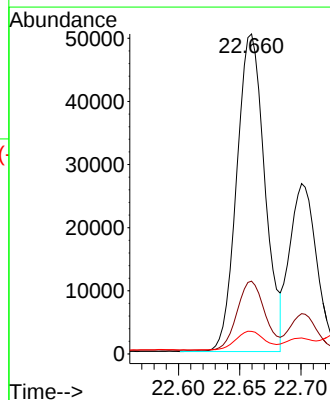
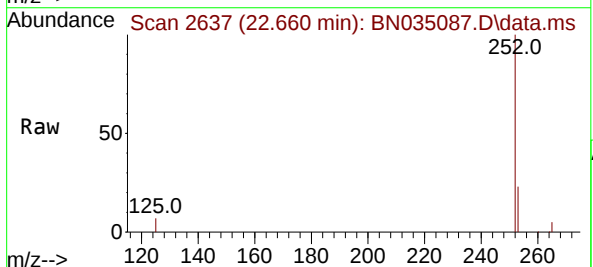
Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOILD

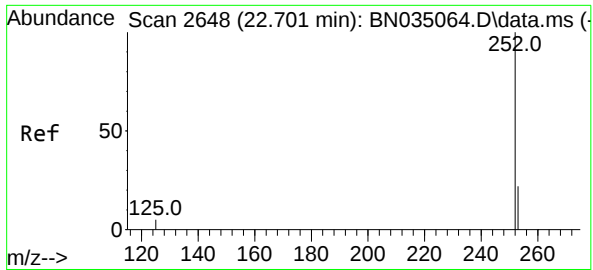
Tgt Ion:276 Resp: 42313
Ion Ratio Lower Upper
276 100
138 17.7 13.0 19.4
277 24.8 19.8 29.6



#37
Benzo(b)fluoranthene
Concen: 1.349 ng
RT: 22.660 min Scan# 2637
Delta R.T. 0.002 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

Tgt Ion:252 Resp: 80139
Ion Ratio Lower Upper
252 100
253 22.8 19.3 28.9
125 7.1 6.2 9.2





#38

Benzo(k)fluoranthene

Concen: 0.689 ng

RT: 22.701 min Scan# 2648

Delta R.T. -0.001 min

Lab File: BN035087.D

Acq: 14 Nov 2024 14:10

Instrument :

BNA_N

ClientSampleId :

PT-PAH-SOILD

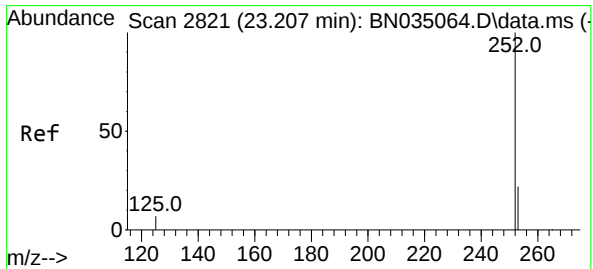
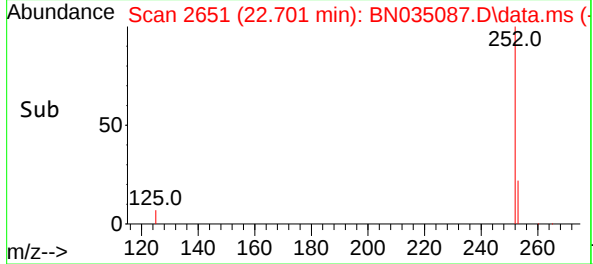
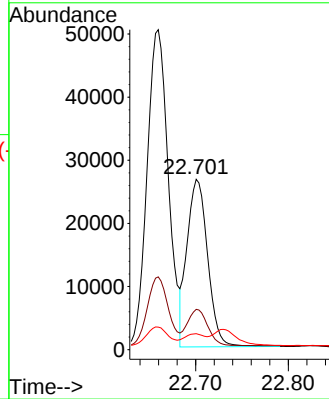
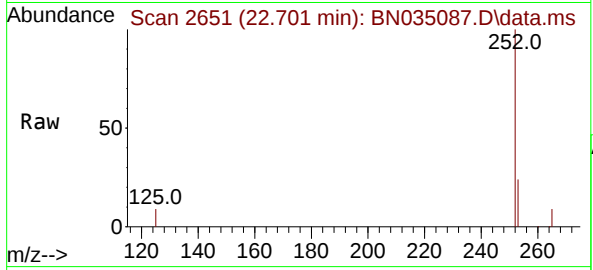
Tgt Ion:252 Resp: 40922

Ion Ratio Lower Upper

252 100

253 23.6 19.5 29.3

125 9.4 6.5 9.7



#39

Benzo(a)pyrene

Concen: 1.333 ng

RT: 23.209 min Scan# 2825

Delta R.T. 0.002 min

Lab File: BN035087.D

Acq: 14 Nov 2024 14:10

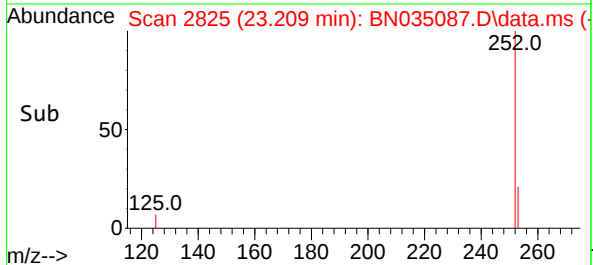
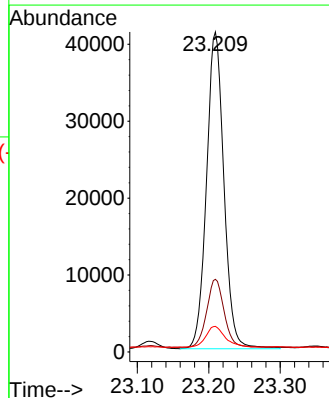
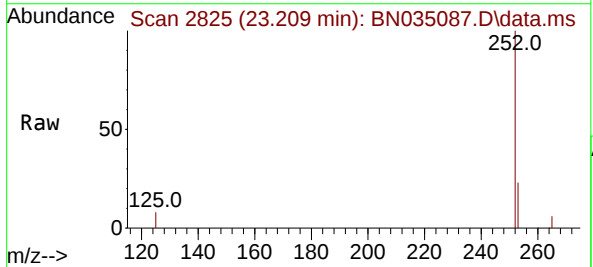
Tgt Ion:252 Resp: 69681

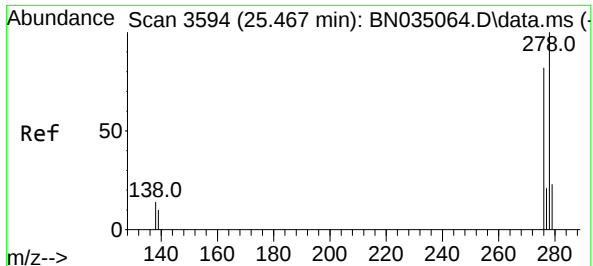
Ion Ratio Lower Upper

252 100

253 22.7 20.1 30.1

125 8.0 7.5 11.3





#40

Dibenzo(a,h)anthracene

Concen: 0.795 ng

RT: 25.472 min Scan# 31

Delta R.T. 0.005 min

Lab File: BN035087.D

Acq: 14 Nov 2024 14:10

Instrument :

BNA_N

ClientSampleId :

PT-PAH-SOILDL

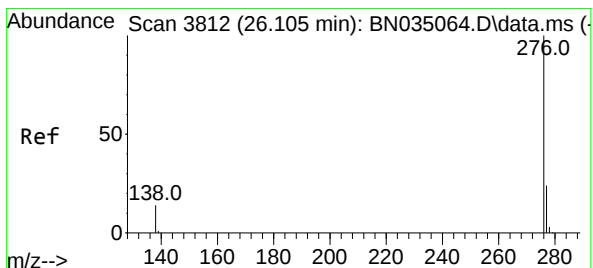
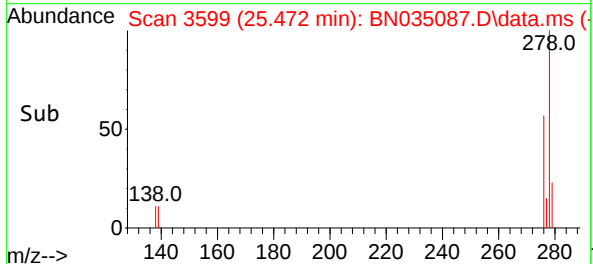
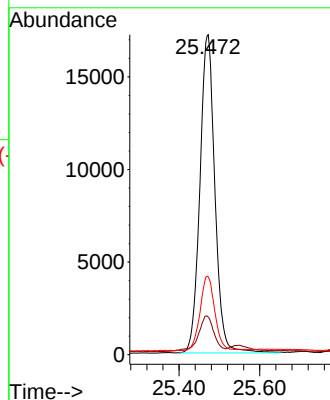
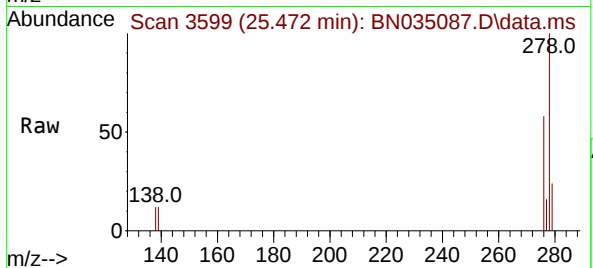
Tgt Ion:278 Resp: 44339

Ion Ratio Lower Upper

278 100

139 11.7 9.3 13.9

279 24.4 19.7 29.5



#41

Benzo(g,h,i)perylene

Concen: 0.245 ng

RT: 26.107 min Scan# 3816

Delta R.T. 0.002 min

Lab File: BN035087.D

Acq: 14 Nov 2024 14:10

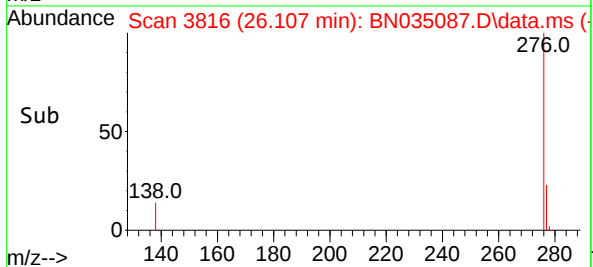
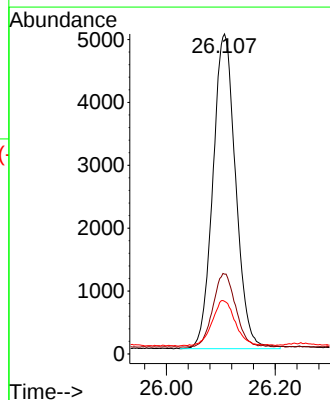
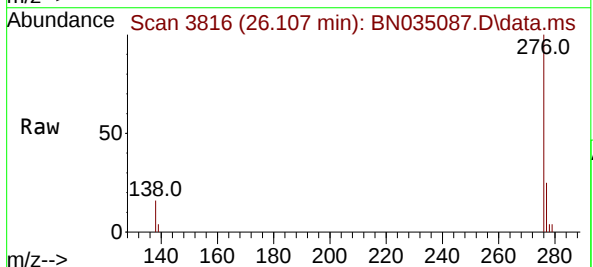
Tgt Ion:276 Resp: 14526

Ion Ratio Lower Upper

276 100

277 25.0 19.9 29.9

138 16.5 11.6 17.4





CALIBRATION SUMMARY

- 1
- 2
- 3
- 4
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- 11
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- 13
- 14
- 15
- 16
- 17
- 18

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

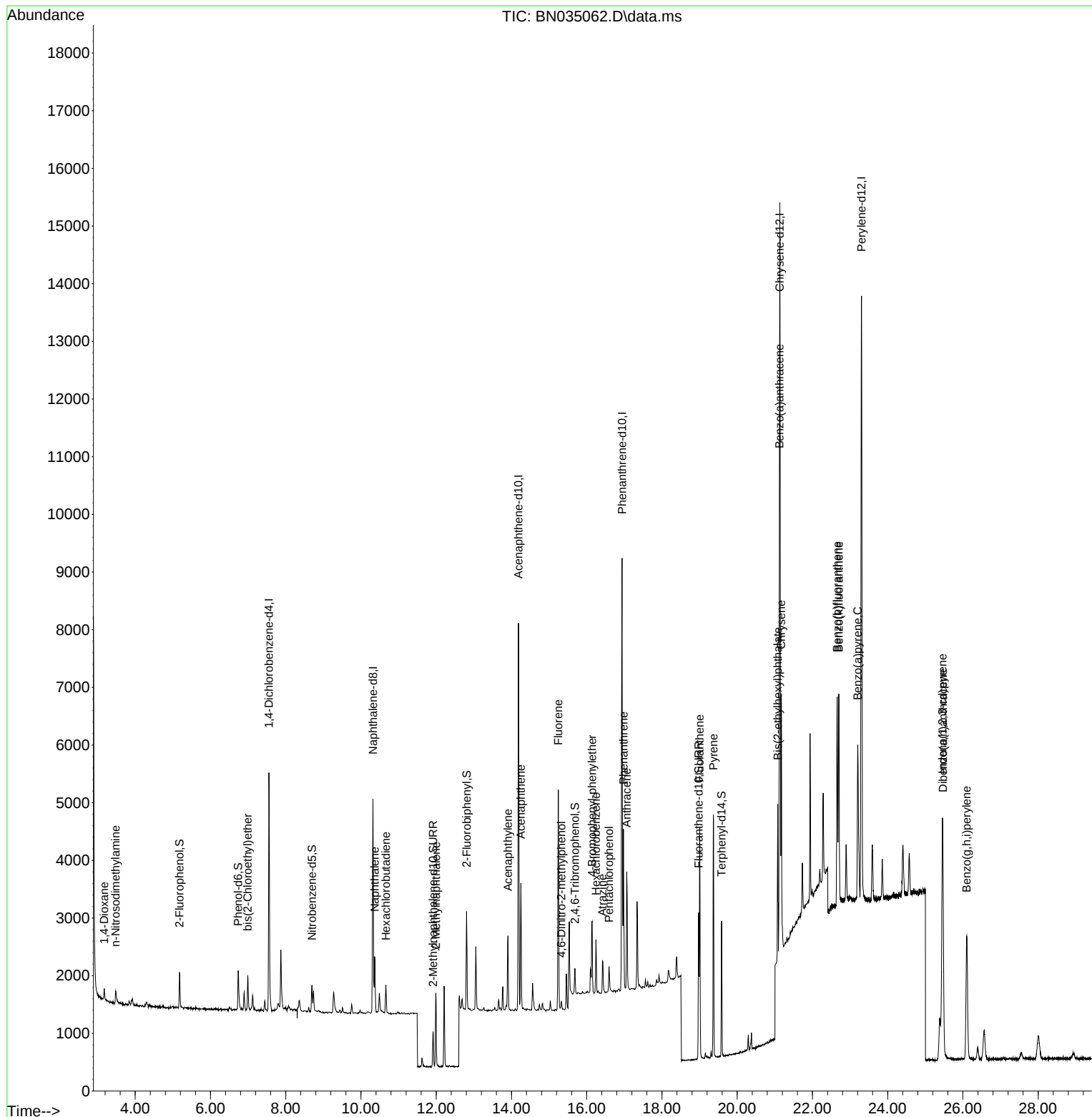
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.553	152	1991	0.400	ng	0.00
7) Naphthalene-d8	10.319	136	4930	0.400	ng	0.00
13) Acenaphthene-d10	14.186	164	3629	0.400	ng	0.00
19) Phenanthrene-d10	16.939	188	10187	0.400	ng	0.00
29) Chrysene-d12	21.131	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						
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

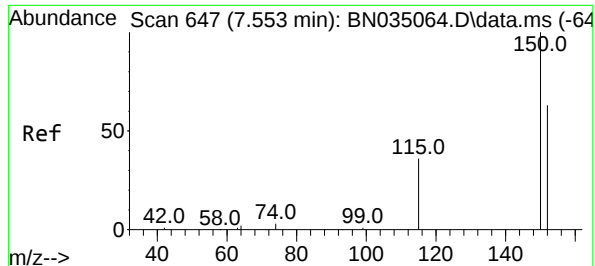
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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

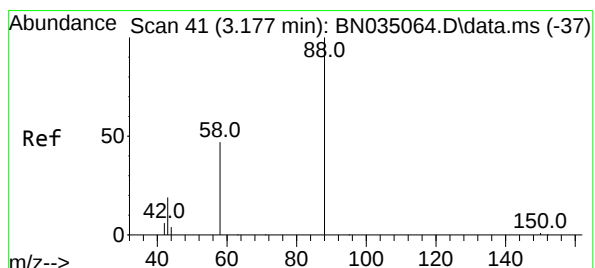
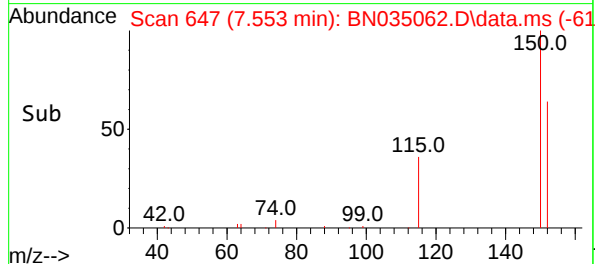
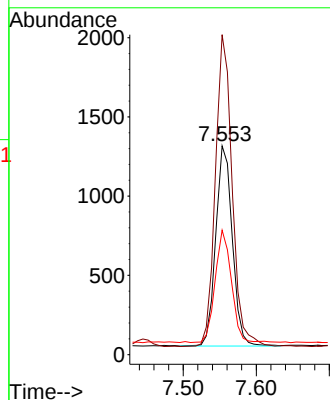
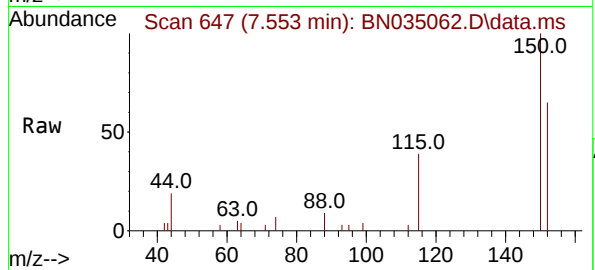




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.553 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

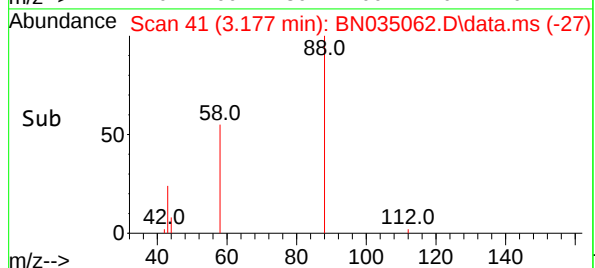
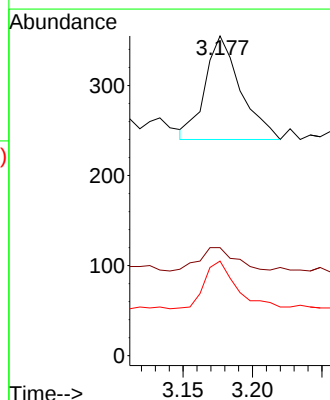
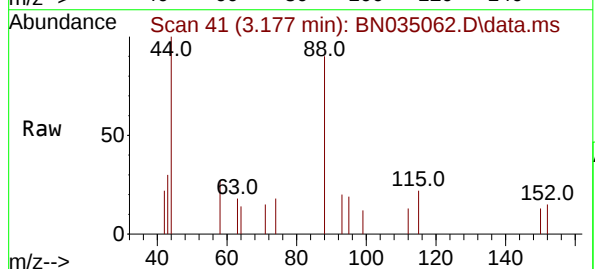
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

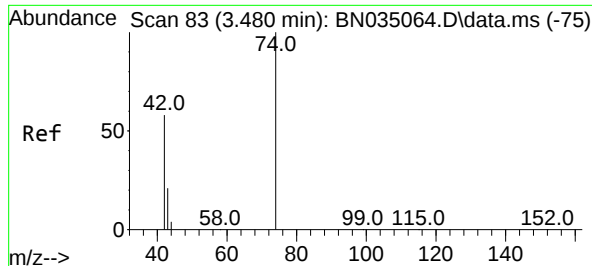
Tgt Ion:152 Resp: 1991
Ion Ratio Lower Upper
152 100
150 153.3 124.5 186.7
115 59.6 47.8 71.6



#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

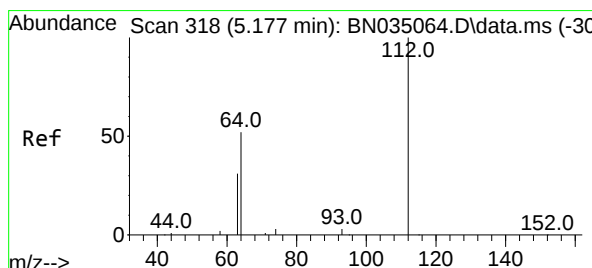
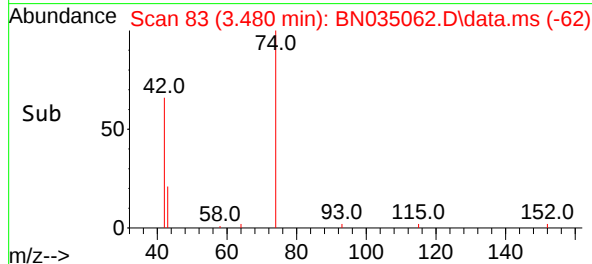
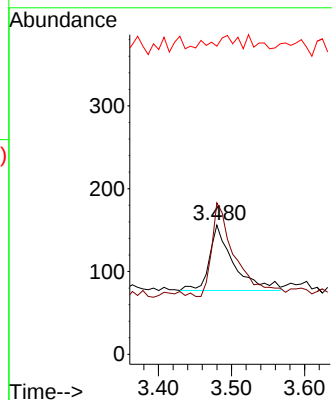
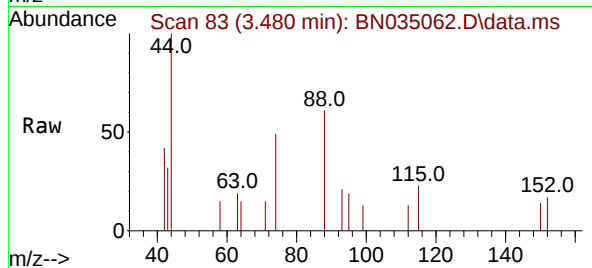




#3
n-Nitrosodimethylamine
Concen: 0.108 ng
RT: 3.480 min Scan# 81
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

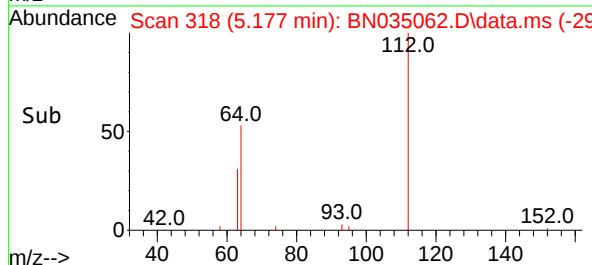
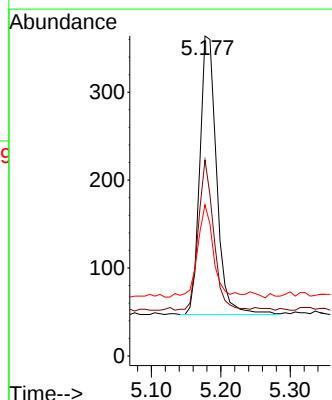
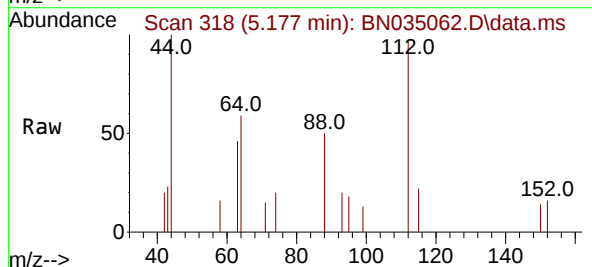
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

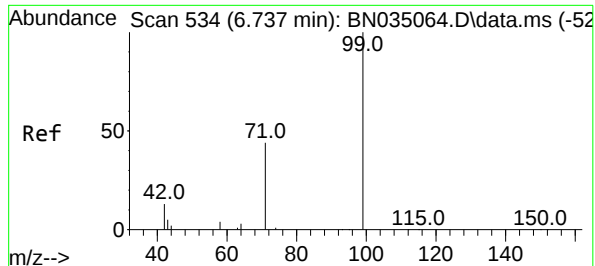
Tgt Ion: 42 Resp: 182
Ion Ratio Lower Upper
42 100
74 139.0 120.8 181.2
44 12.6 2.9 4.3#



#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

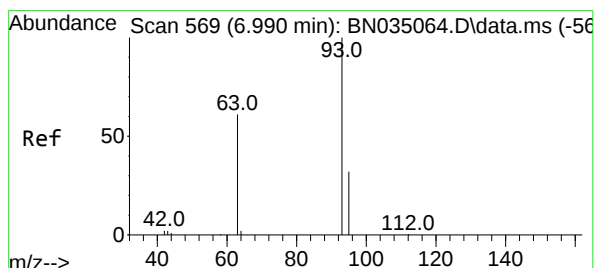
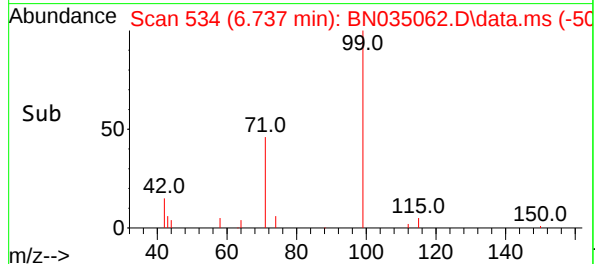
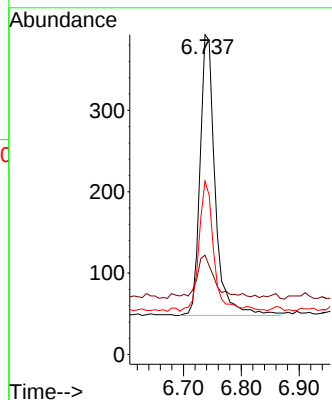
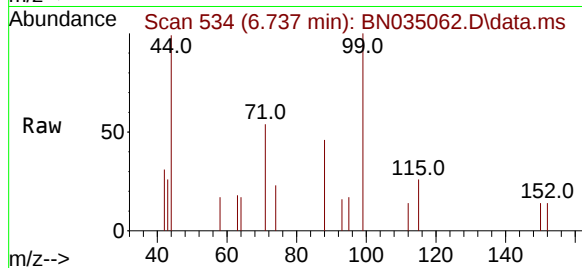




#5
Phenol-d6
Concen: 0.099 ng
RT: 6.737 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

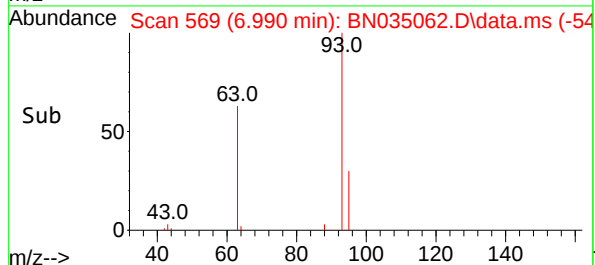
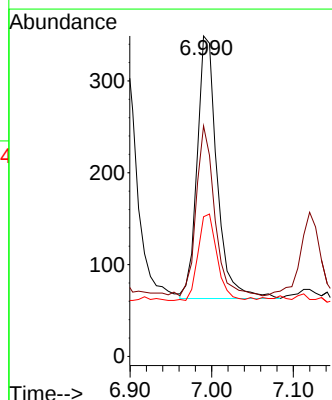
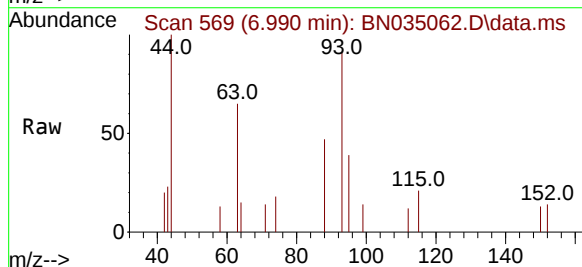
Instrument :
BNA_N
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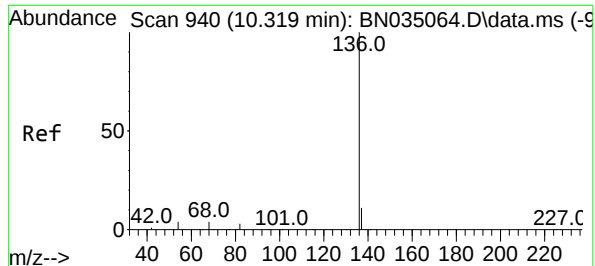
Tgt Ion: 99 Resp: 629
Ion Ratio Lower Upper
99 100
42 19.6 11.4 17.0#
71 44.5 34.6 51.8



#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

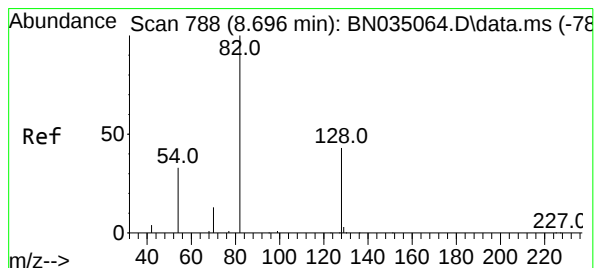
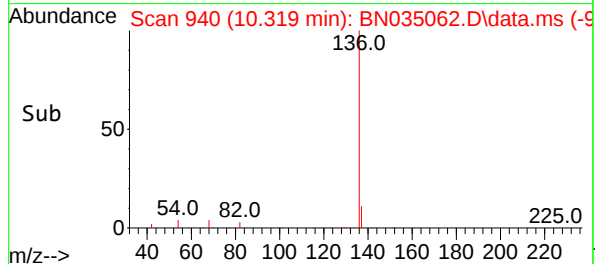
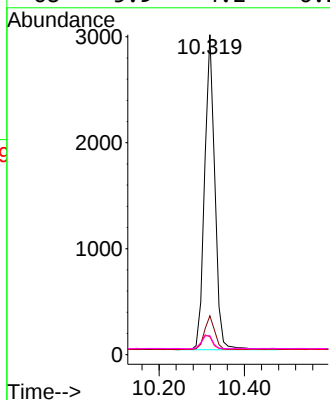
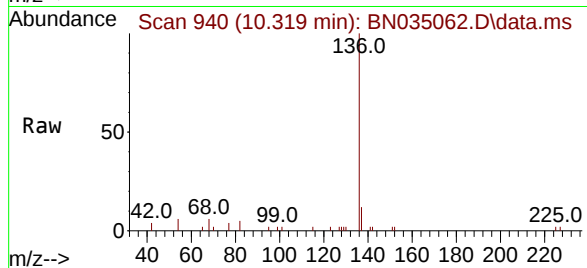




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.319 min Scan# 940
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

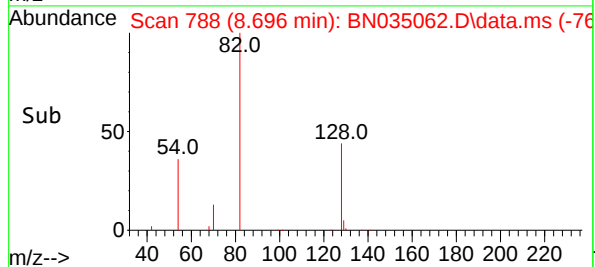
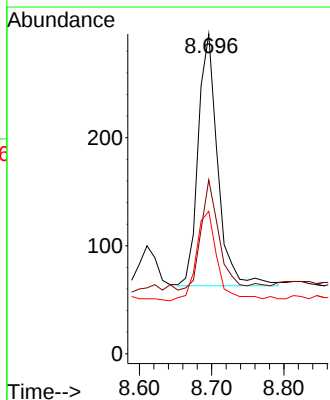
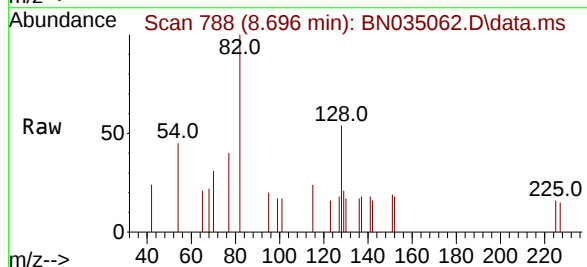
Instrument :
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ClientSampleId :
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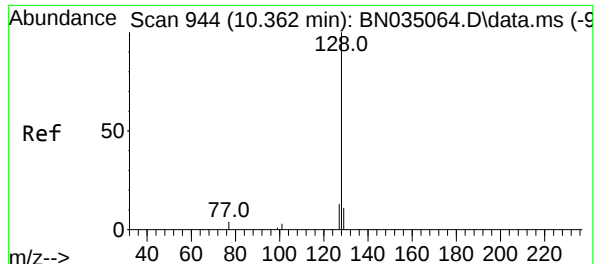
Tgt Ion:	136	Resp:	4930
Ion Ratio	Lower	Upper	
136	100		
137	12.2	9.8	14.8
54	5.6	4.0	6.0
68	5.9	4.2	6.2



#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

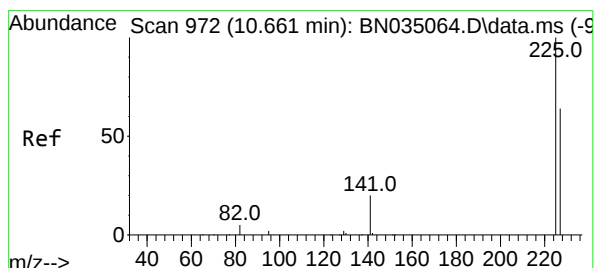
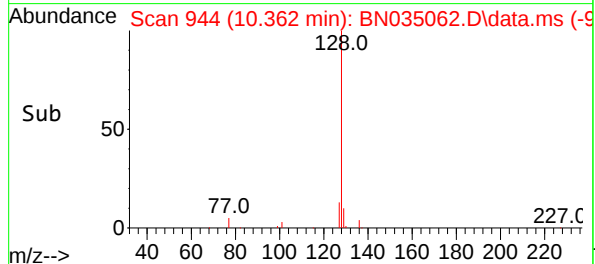
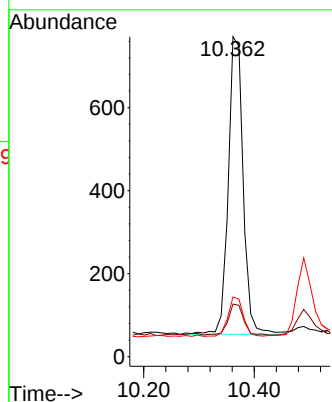
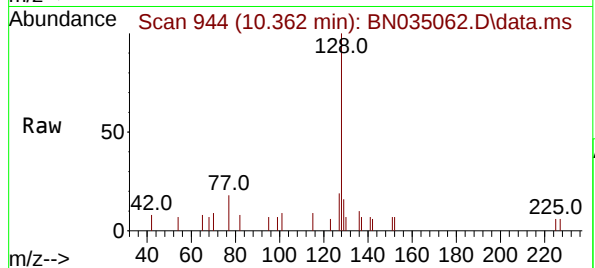




#9
Naphthalene
Concen: 0.104 ng
RT: 10.362 min Scan# 944
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

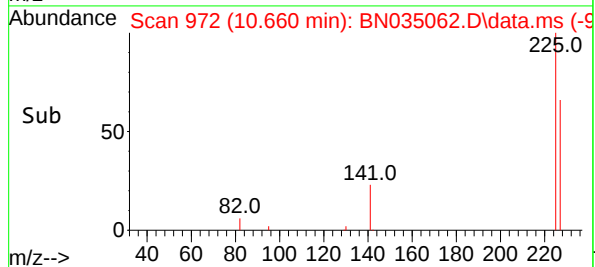
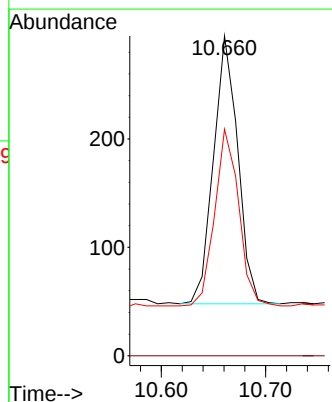
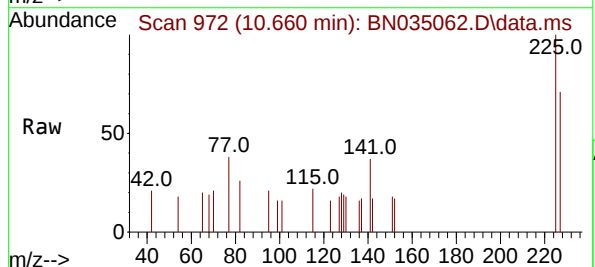
Instrument :
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ClientSampleId :
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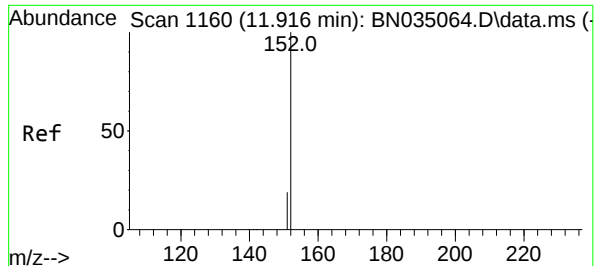
Tgt Ion:128 Resp: 1341
Ion Ratio Lower Upper
128 100
129 16.5 9.6 14.4#
127 18.7 11.6 17.4#



#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 :

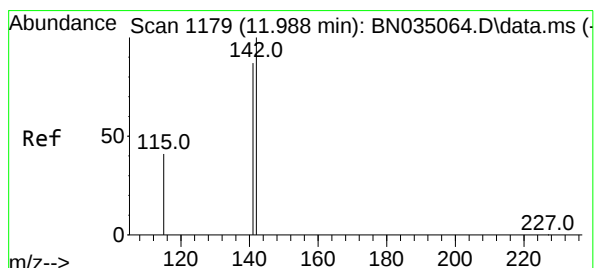
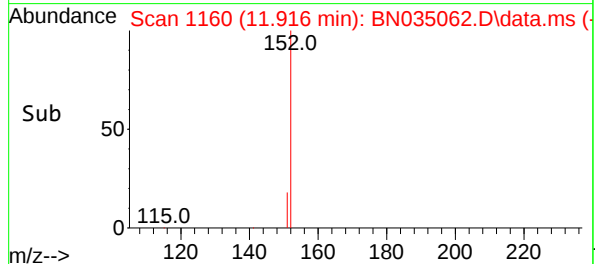
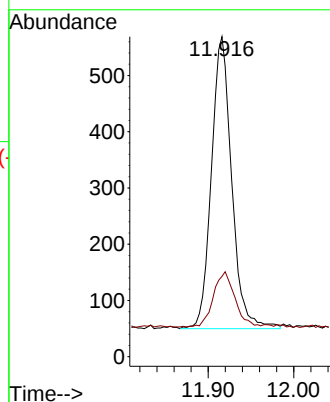
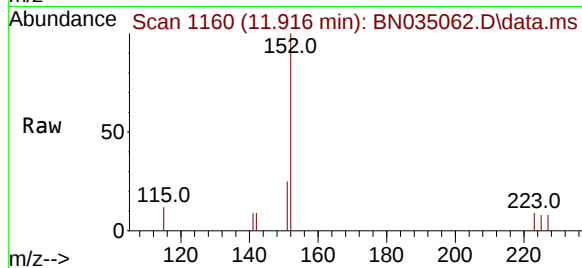
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Tgt Ion:152 Resp: 855

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

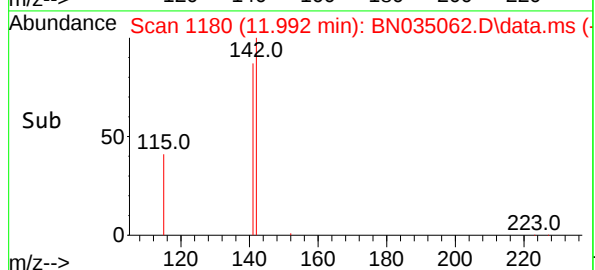
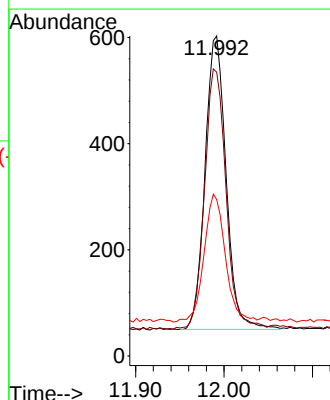
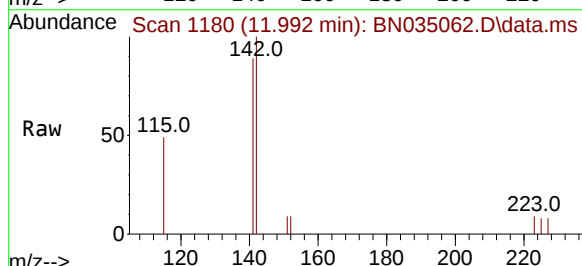
Tgt Ion:142 Resp: 914

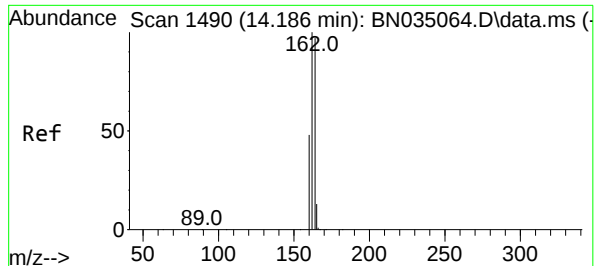
Ion Ratio Lower Upper

142 100

141 88.7 70.1 105.1

115 48.9 34.4 51.6

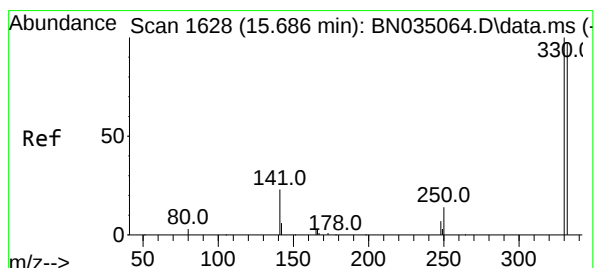
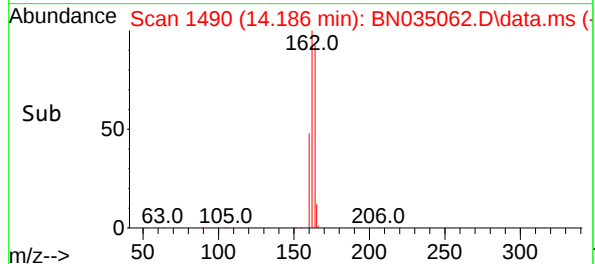
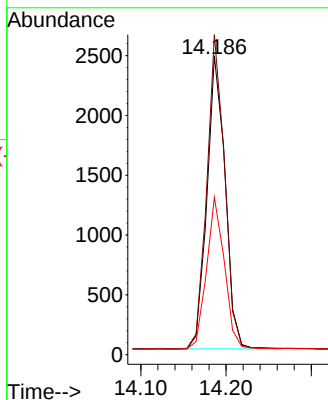
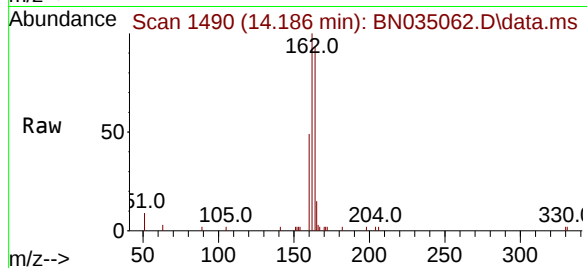




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.186 min Scan# 1490
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

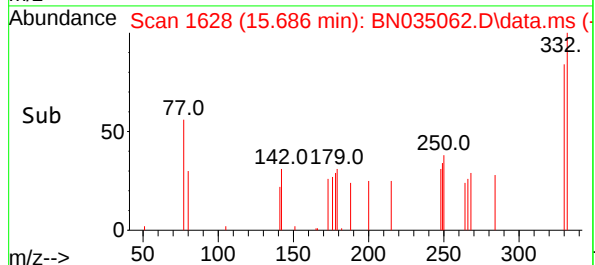
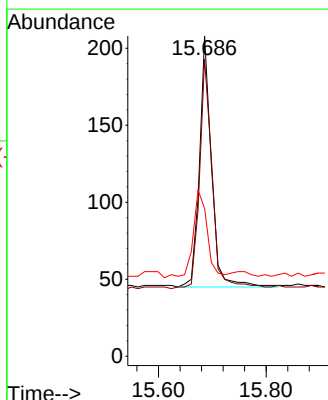
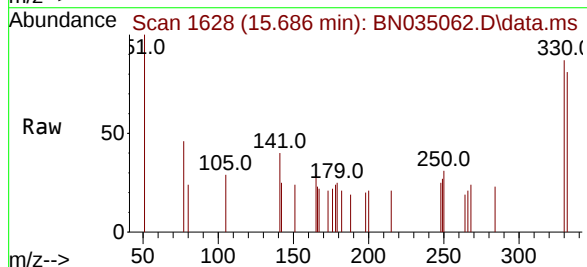
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ClientSampleId :
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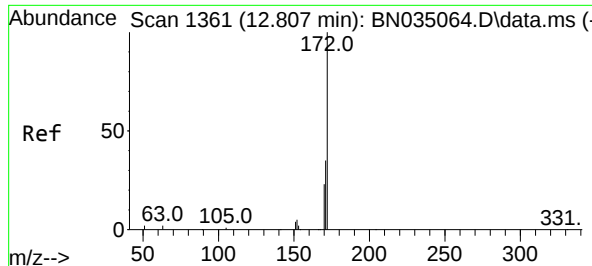
Tgt Ion:164 Resp: 3629
Ion Ratio Lower Upper
164 100
162 107.1 82.2 123.2
160 52.6 40.2 60.4



#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

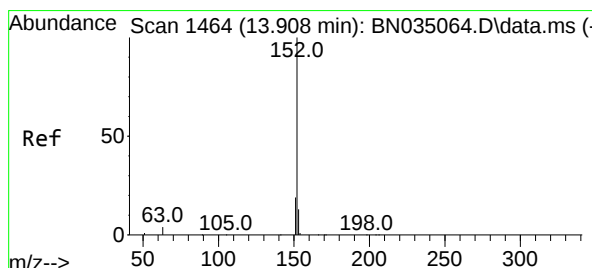
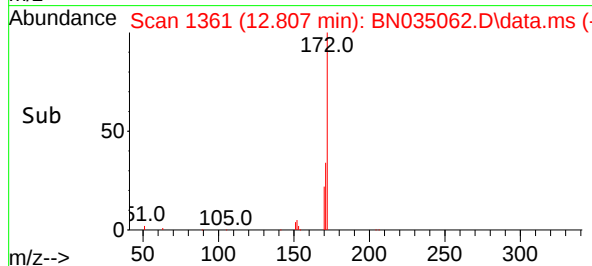
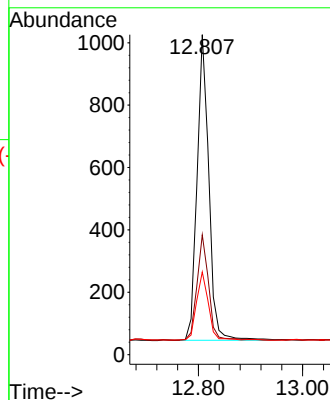
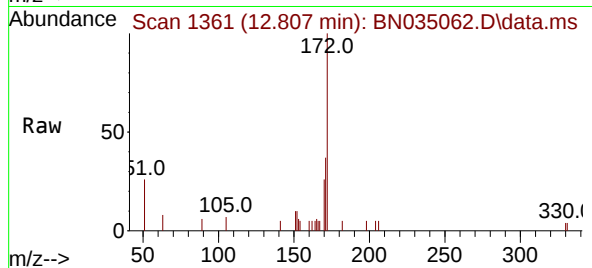
Tgt Ion:172 Resp: 1543

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

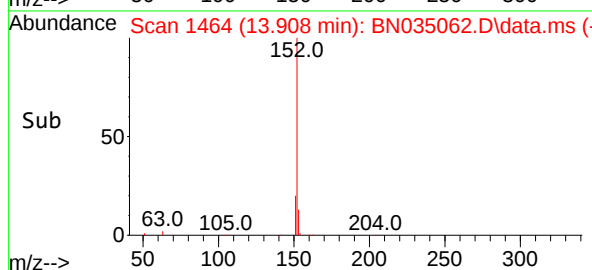
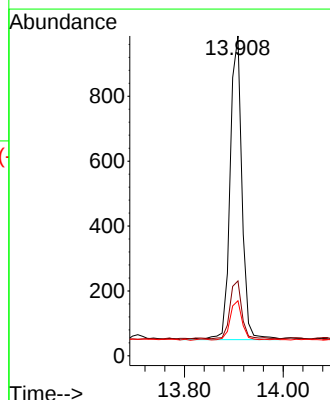
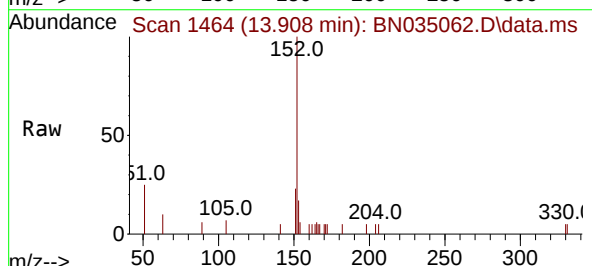
Tgt Ion:152 Resp: 1556

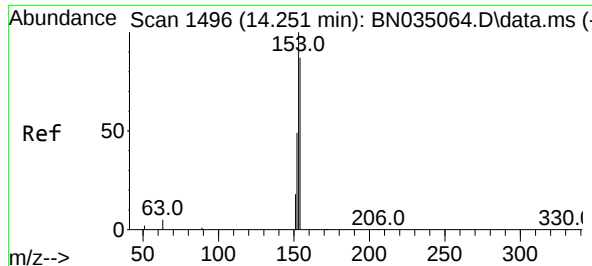
Ion Ratio Lower Upper

152 100

151 19.2 15.8 23.8

153 13.2 10.2 15.4

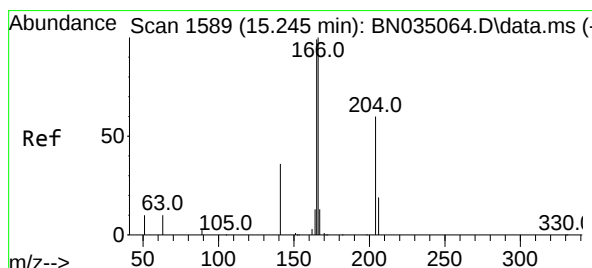
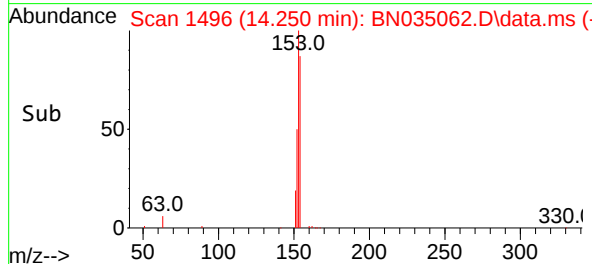
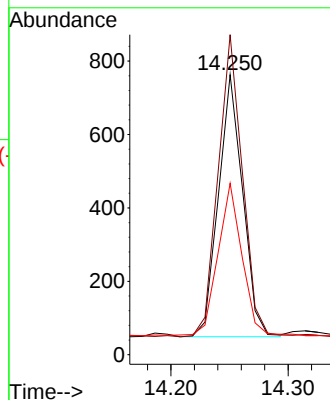
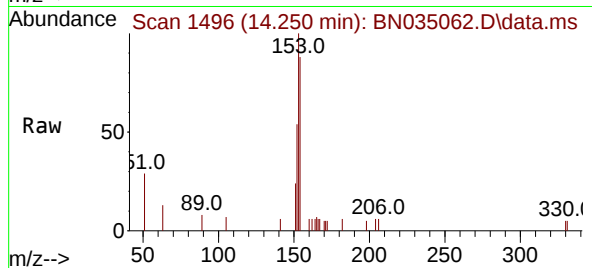




#17
Acenaphthene
Concen: 0.101 ng
RT: 14.250 min Scan# 1496
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

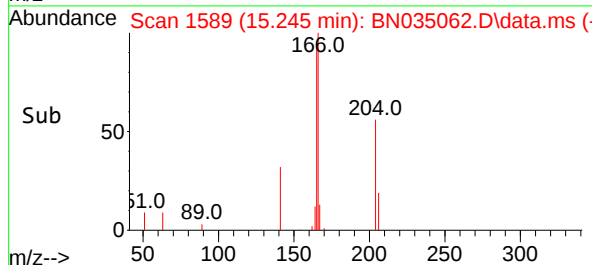
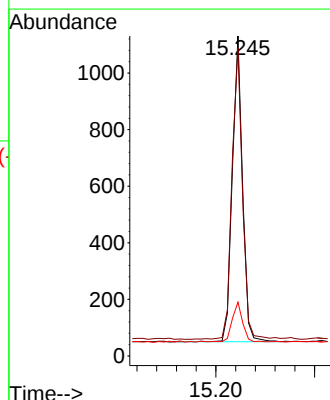
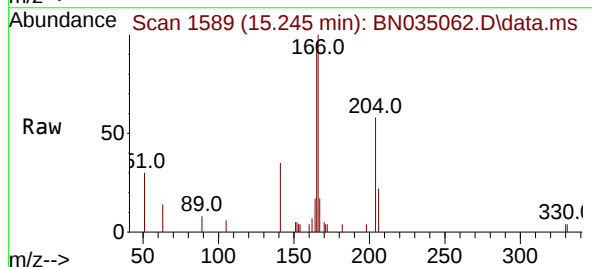
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.1

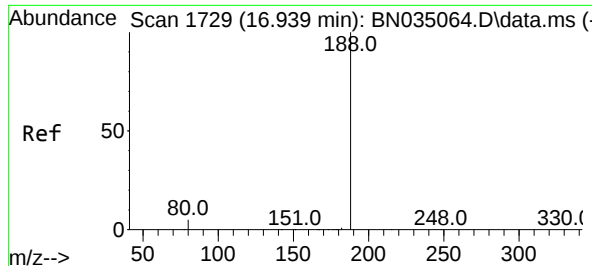
Tgt Ion:154 Resp: 1024
Ion Ratio Lower Upper
154 100
153 116.6 91.6 137.4
152 57.9 45.8 68.6



#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 Resp: 1546
Ion Ratio Lower Upper
166 100
165 97.9 79.1 118.7
167 12.9 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: BN035062.D

Acq: 13 Nov 2024 12:40

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

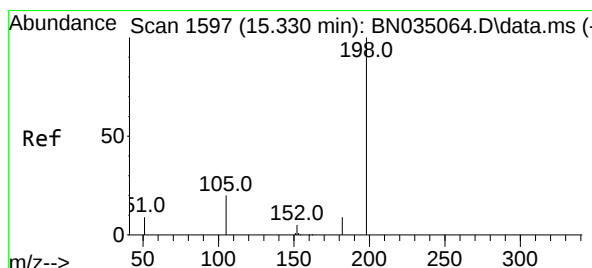
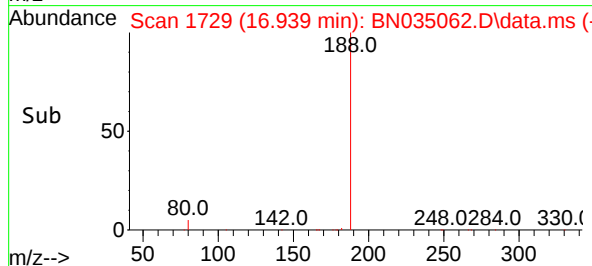
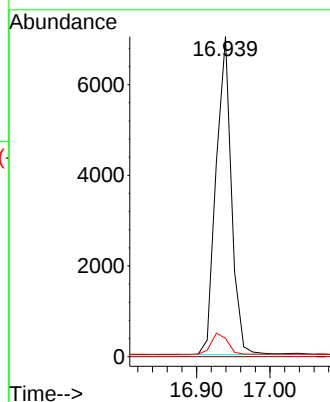
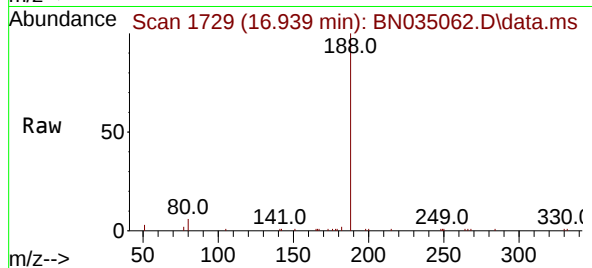
Tgt Ion:188 Resp: 10187

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

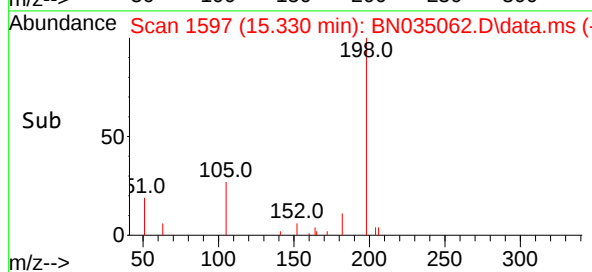
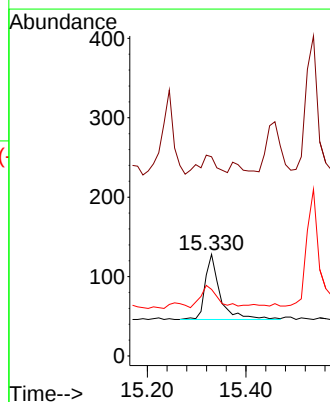
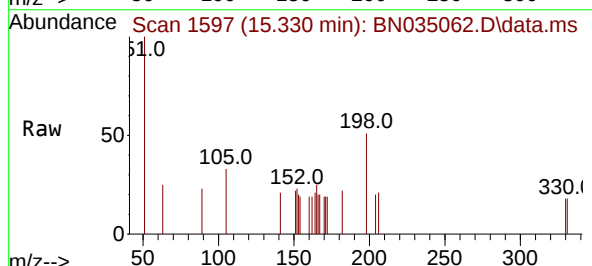
Tgt Ion:198 Resp: 172

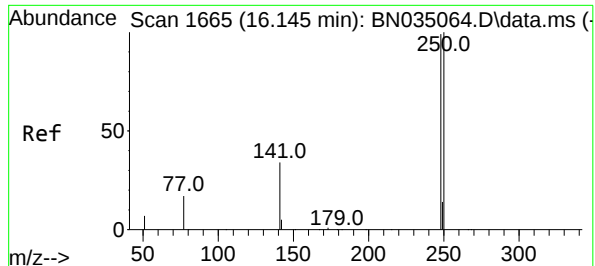
Ion Ratio Lower Upper

198 100

51 196.1 29.9 44.9#

105 65.6 23.7 35.5#

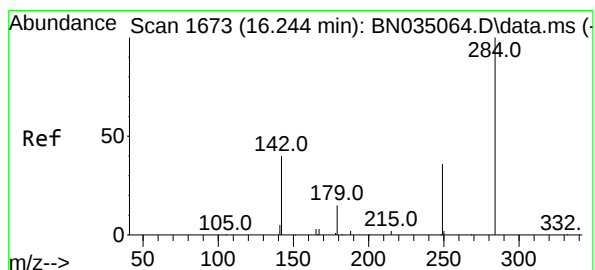
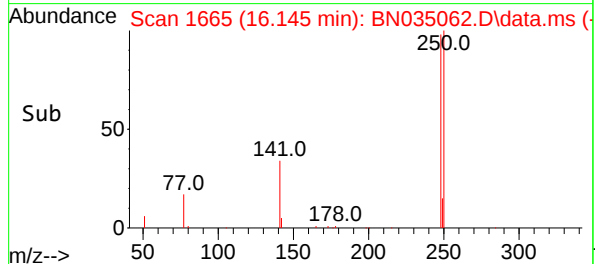
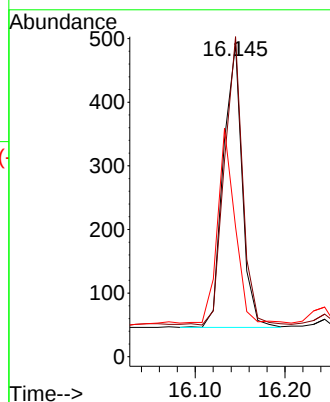
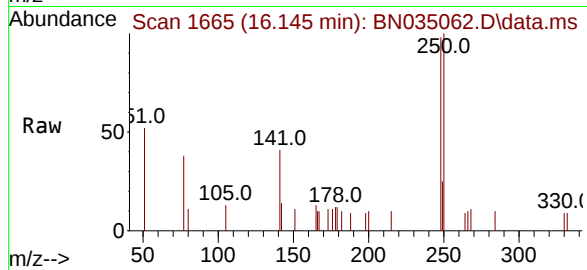




#21
4-Bromophenyl-phenylether
Concen: 0.100 ng
RT: 16.145 min Scan# 1665
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

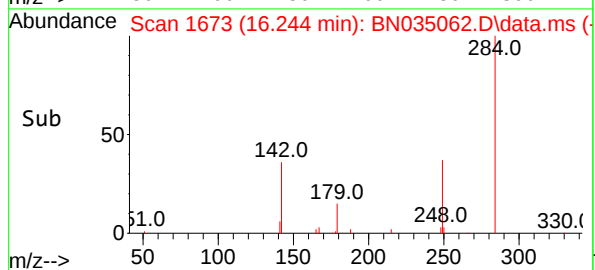
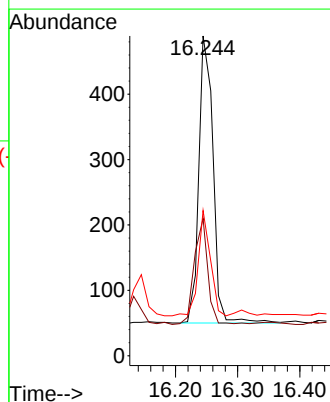
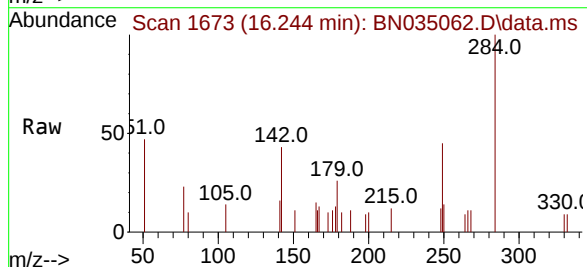
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

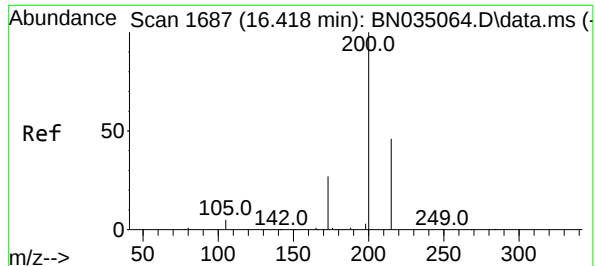
Tgt Ion	Ratio	Lower	Upper
248	100		
250	102.4	81.2	121.8
141	41.5	29.1	43.7



#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

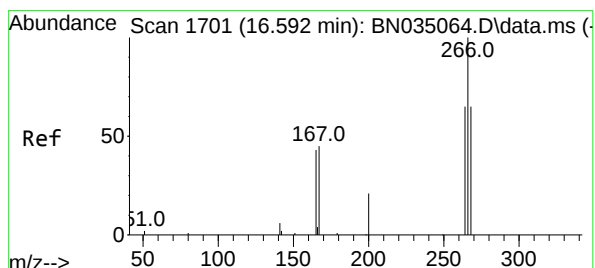
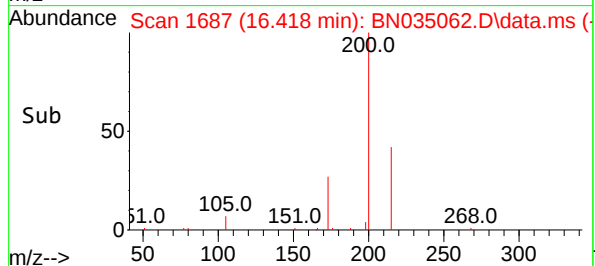
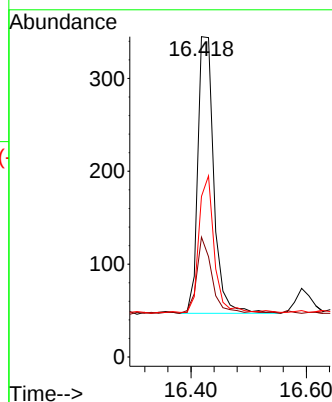
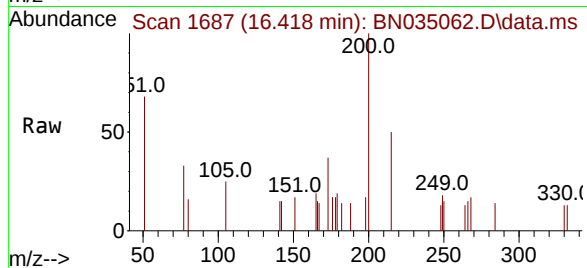
Tgt Ion:200 Resp: 577

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

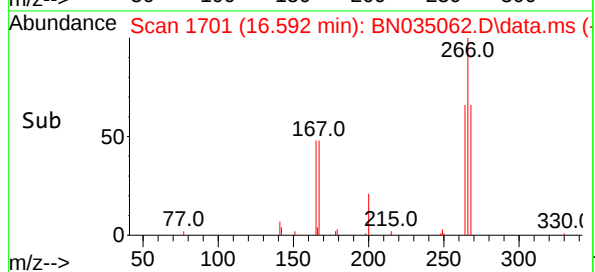
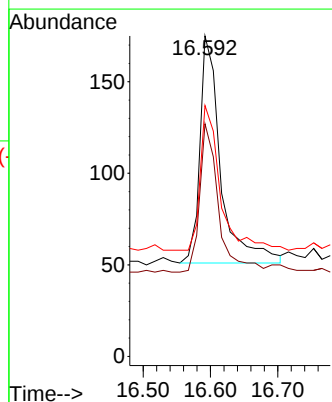
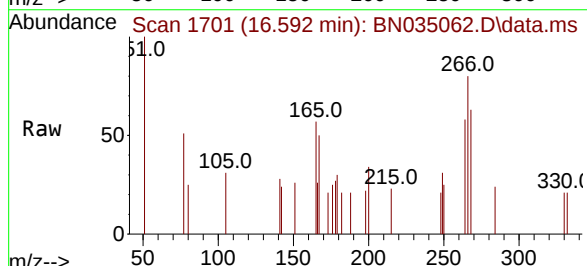
Tgt Ion:266 Resp: 269

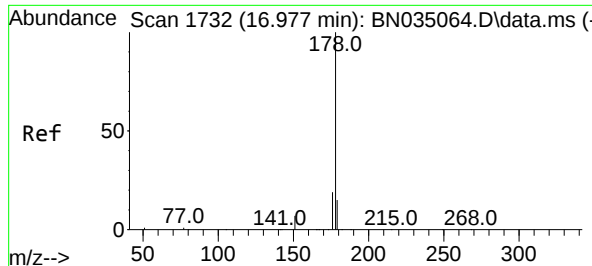
Ion Ratio Lower Upper

266 100

264 58.4 49.4 74.0

268 60.2 52.6 79.0

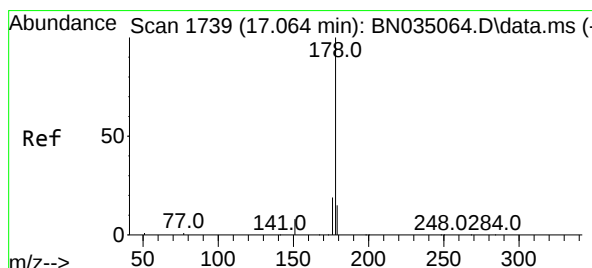
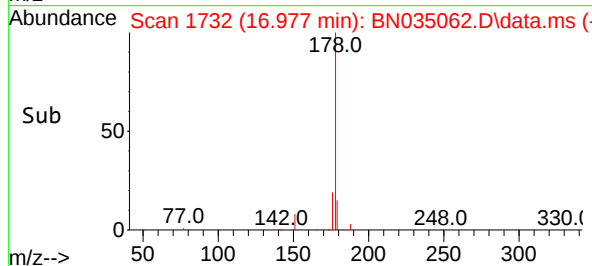
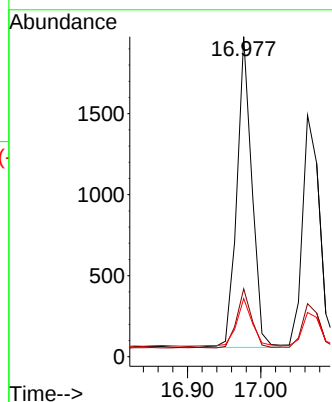
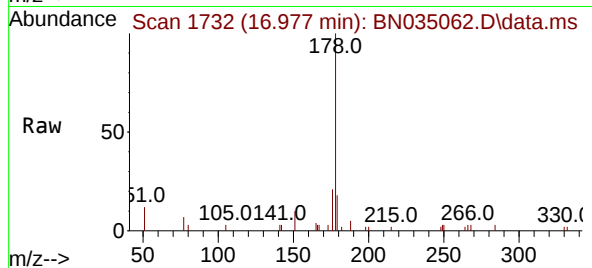




#25
Phenanthrene
Concen: 0.102 ng
RT: 16.977 min Scan# 1732
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

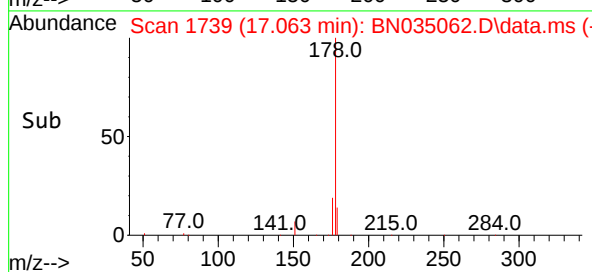
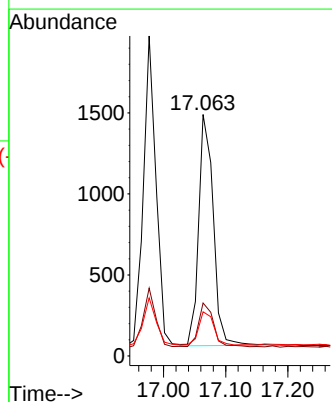
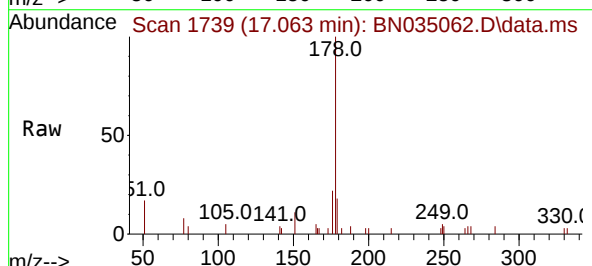
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

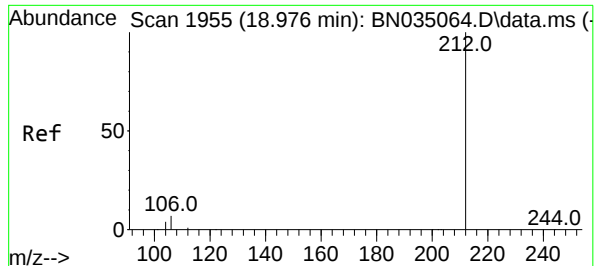
Tgt Ion:178 Resp: 2723
Ion Ratio Lower Upper
178 100
176 18.9 15.2 22.8
179 15.9 12.6 18.8



#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

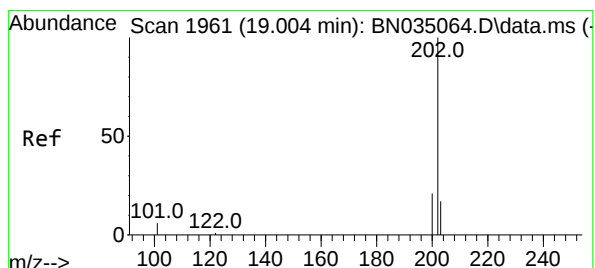
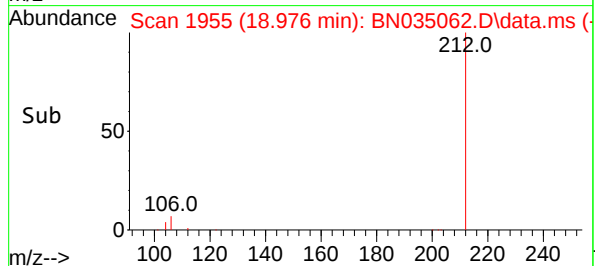
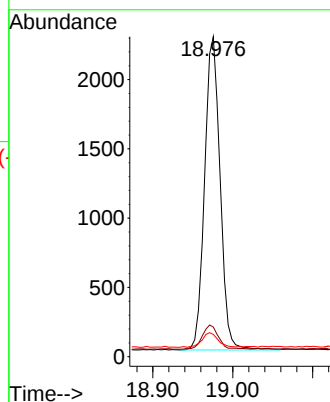
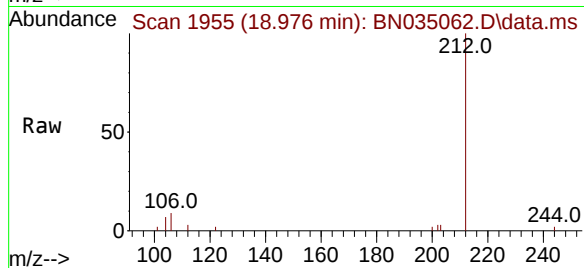
Tgt Ion:212 Resp: 3046

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

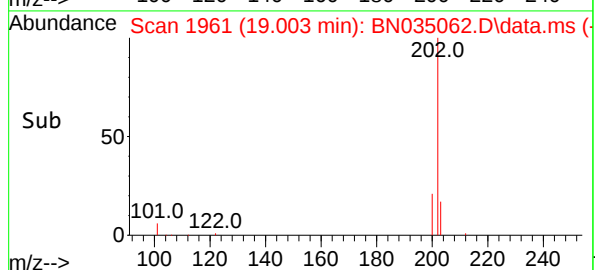
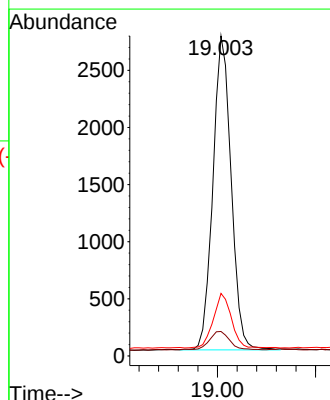
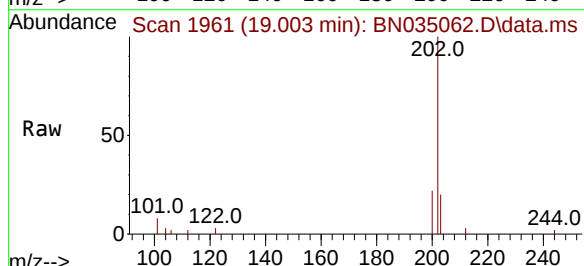
Tgt Ion:202 Resp: 3554

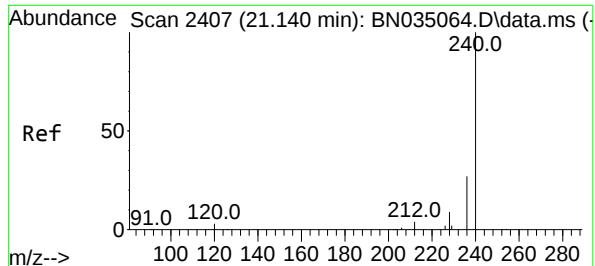
Ion Ratio Lower Upper

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

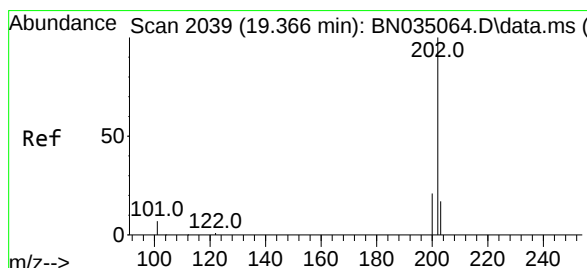
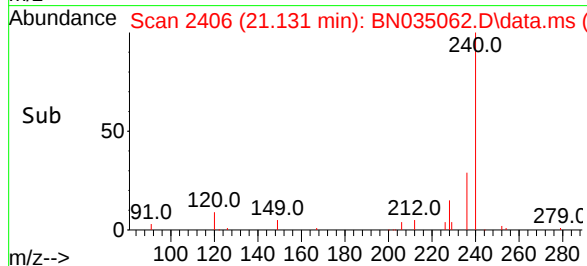
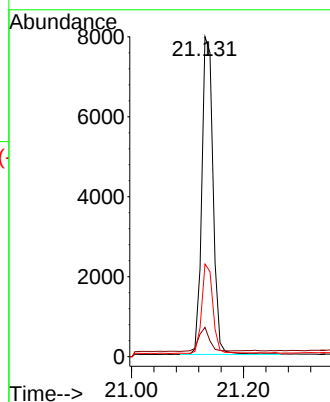
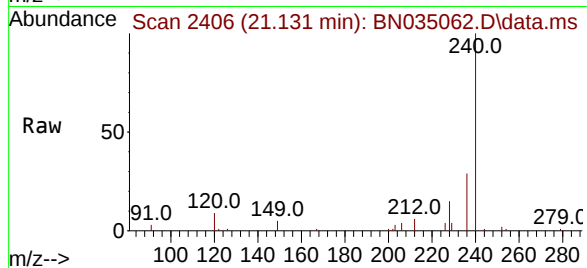
Tgt Ion:240 Resp: 11121

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

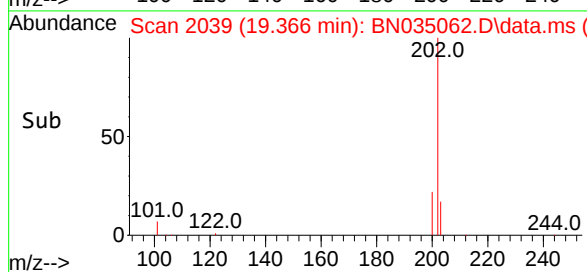
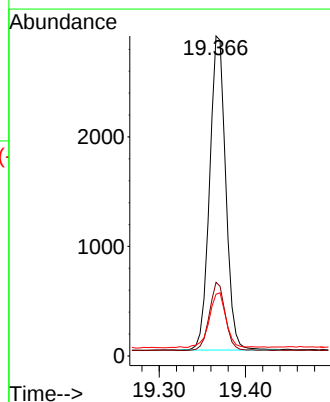
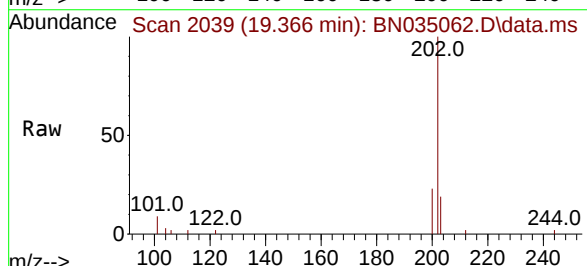
Tgt Ion:202 Resp: 3722

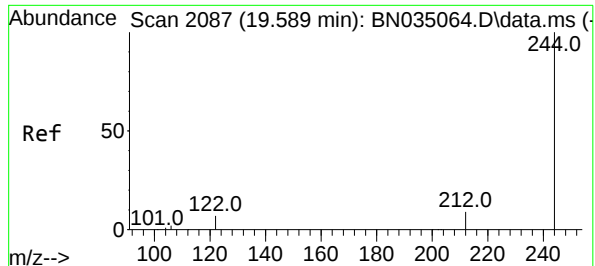
Ion Ratio Lower Upper

202 100

200 21.3 16.7 25.1

203 18.8 14.2 21.4

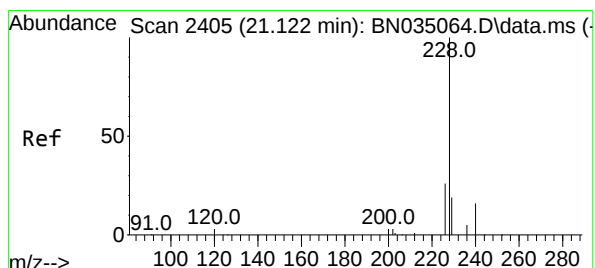
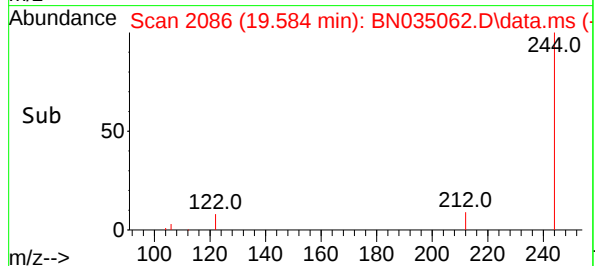
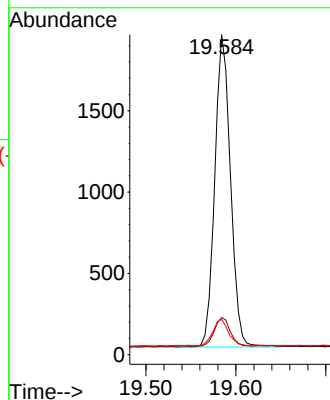
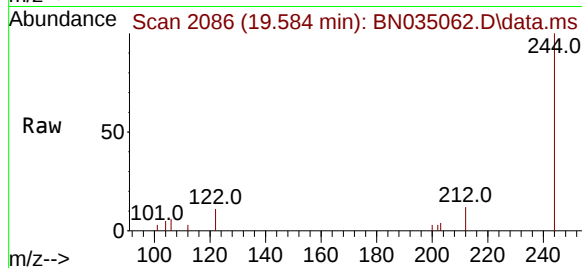




#31
Terphenyl-d14
Concen: 0.100 ng
RT: 19.584 min Scan# 2087
Delta R.T. -0.005 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

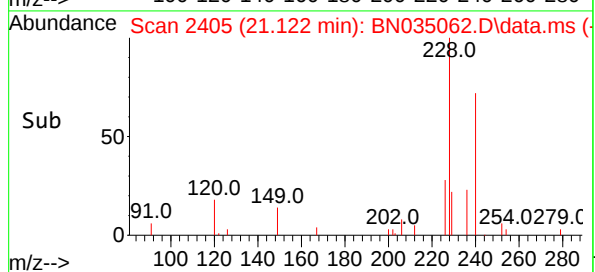
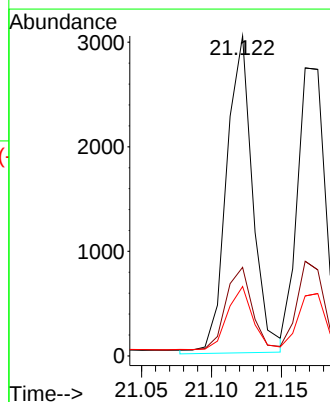
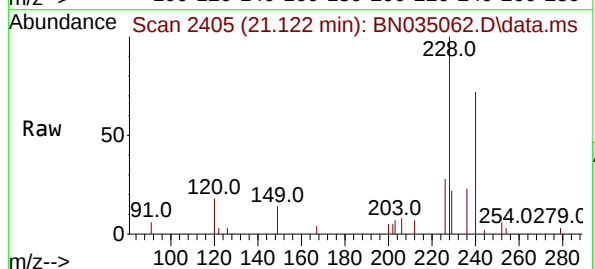
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

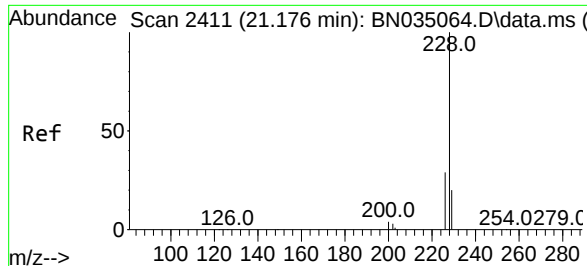
Tgt Ion:244 Resp: 2331
Ion Ratio Lower Upper
244 100
212 11.6 7.6 11.4#
122 11.0 6.1 9.1#



#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 :

SSTDIC0.1

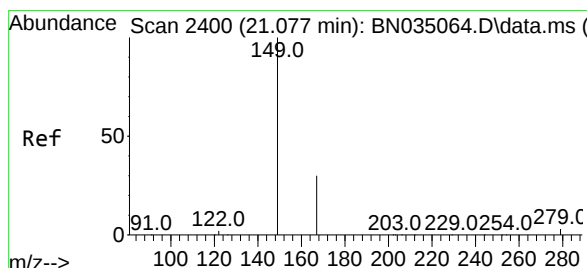
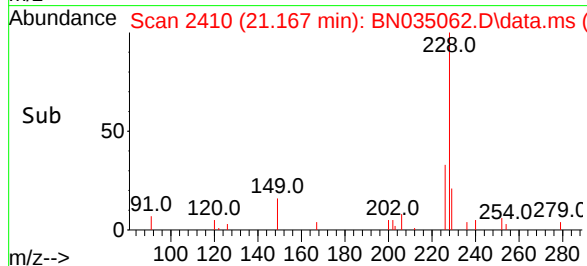
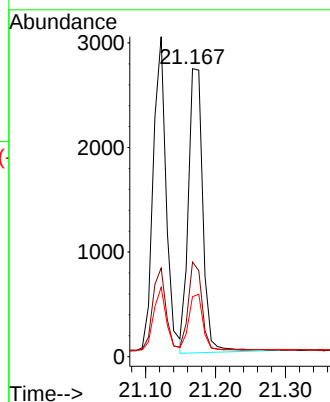
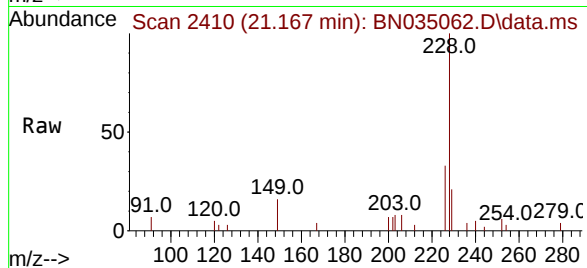
Tgt Ion:228 Resp: 3918

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

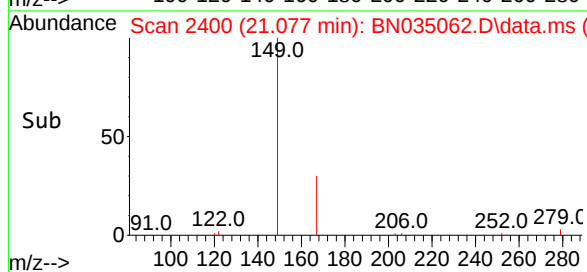
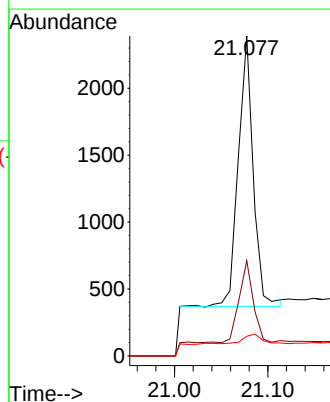
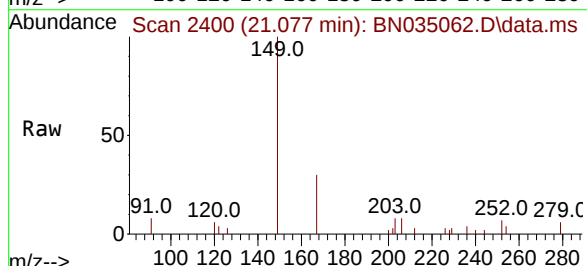
Tgt Ion:149 Resp: 2250

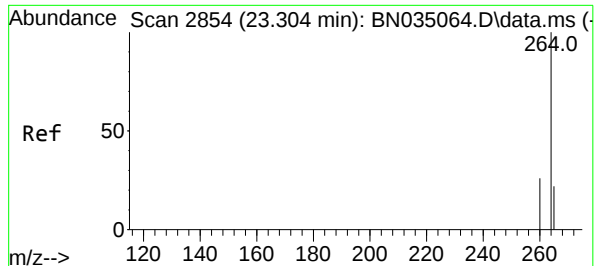
Ion Ratio Lower Upper

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 :

SSTDIC0.1

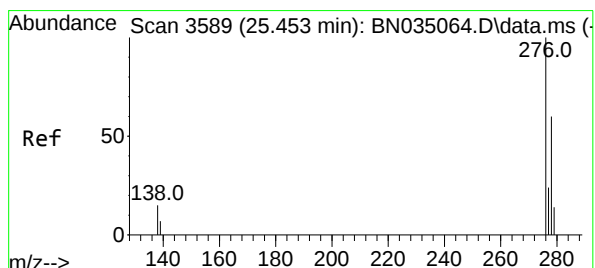
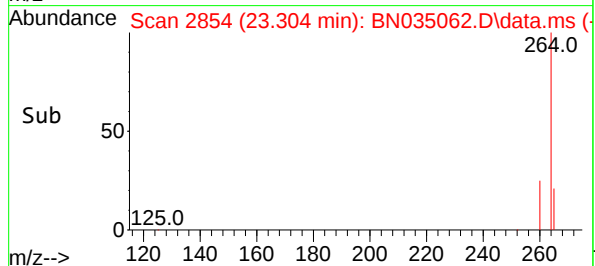
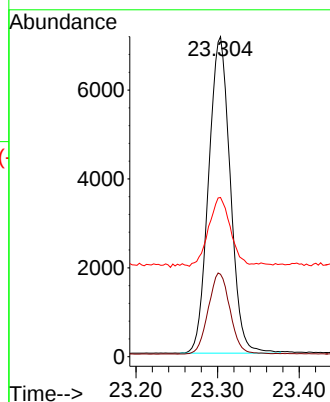
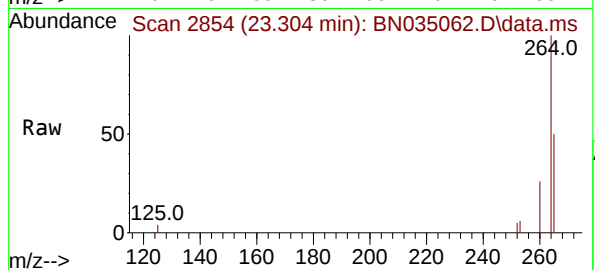
Tgt Ion:264 Resp: 13104

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

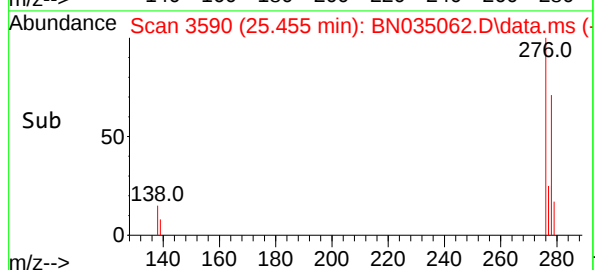
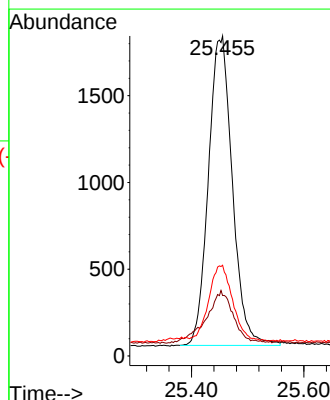
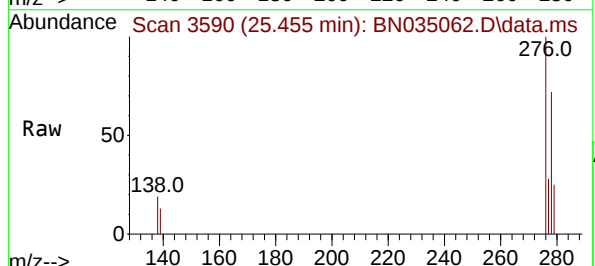
Tgt Ion:276 Resp: 5271

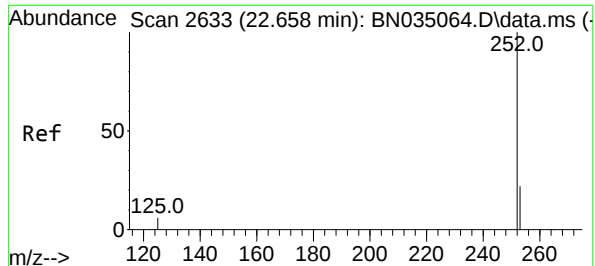
Ion Ratio Lower Upper

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

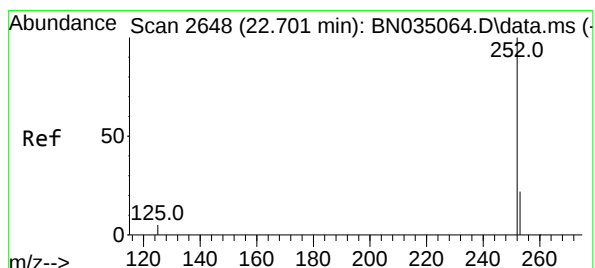
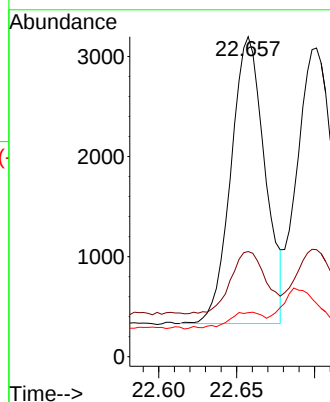
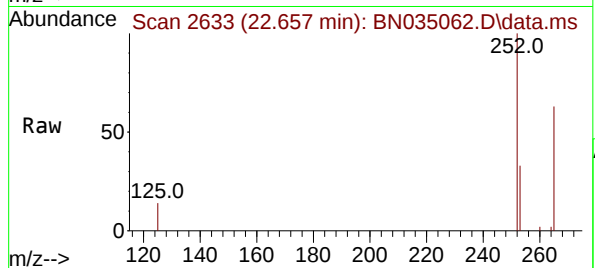
Tgt Ion:252 Resp: 4345

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

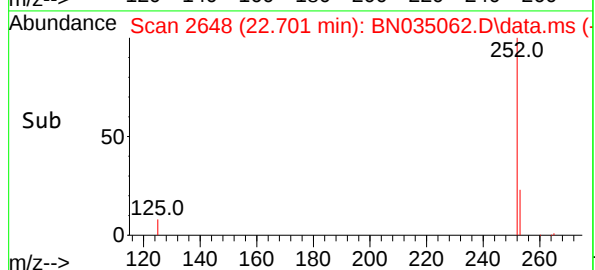
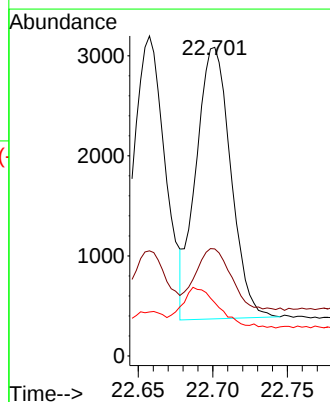
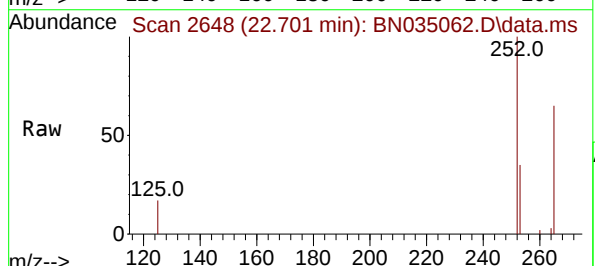
Tgt Ion:252 Resp: 4395

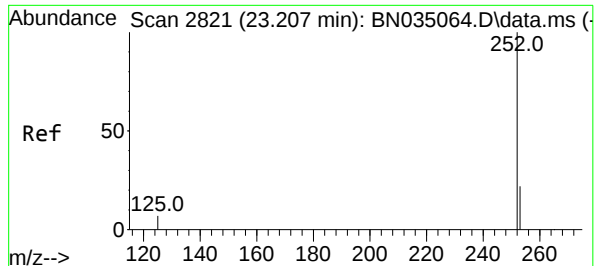
Ion Ratio Lower Upper

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

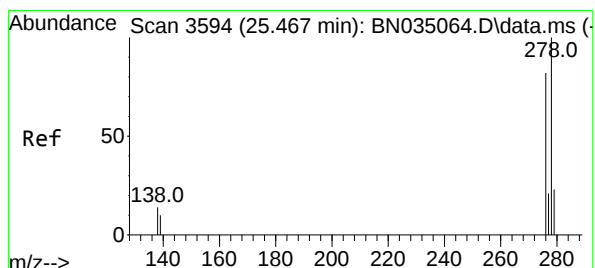
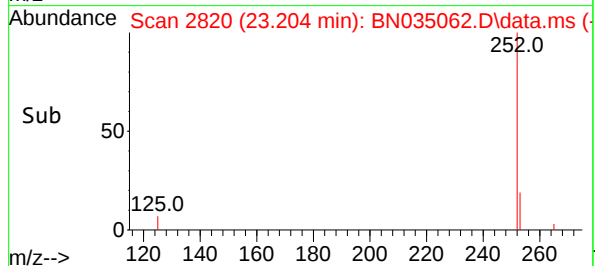
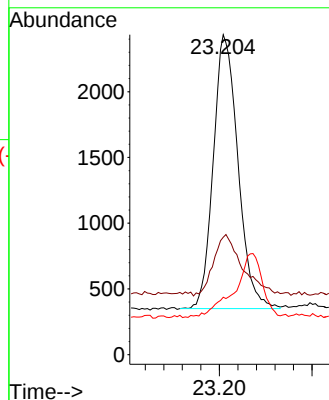
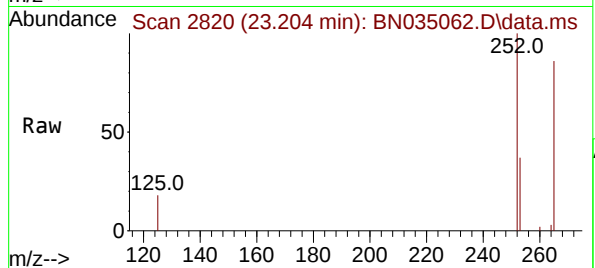
Tgt Ion:252 Resp: 3841

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

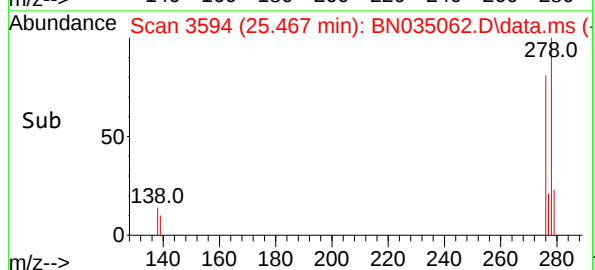
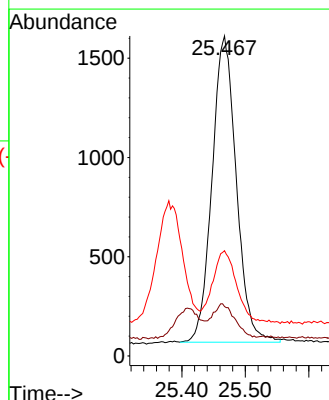
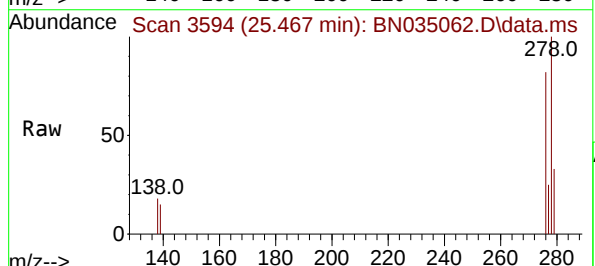
Tgt Ion:278 Resp: 4089

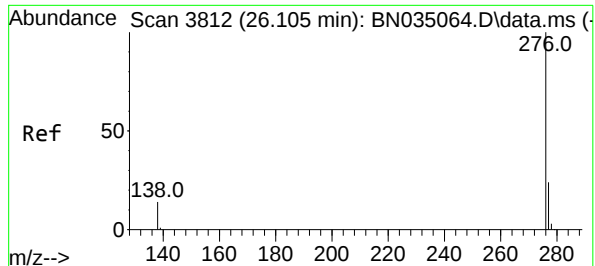
Ion Ratio Lower Upper

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

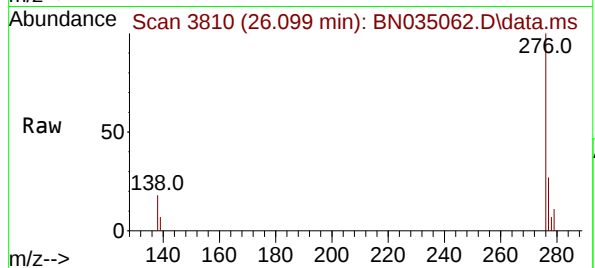
Acq: 13 Nov 2024 12:40

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1



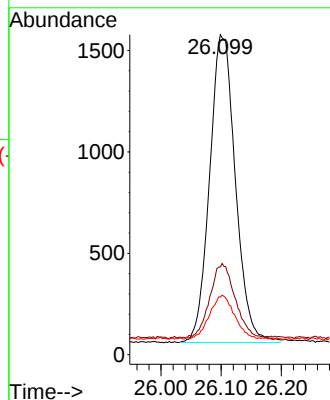
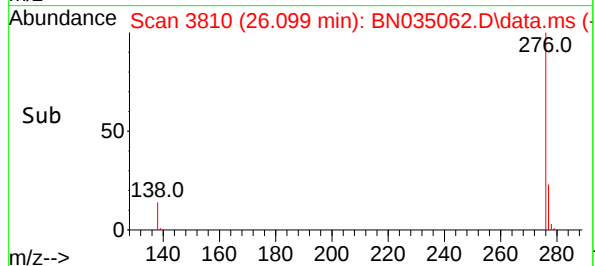
Tgt Ion:276 Resp: 4521

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

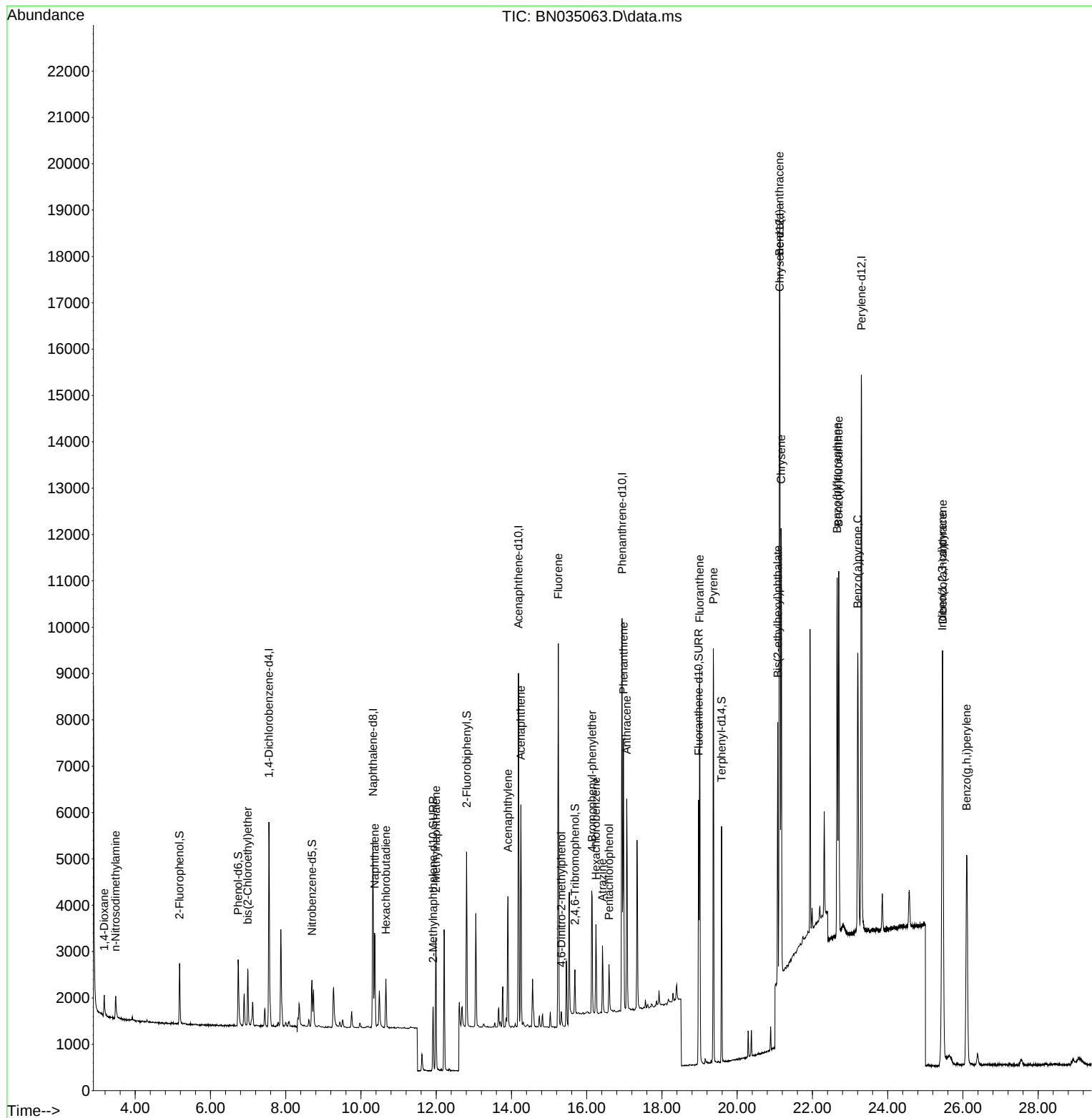
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.553	152	2177	0.400	ng	0.00
7) Naphthalene-d8	10.319	136	5449	0.400	ng	0.00
13) Acenaphthene-d10	14.186	164	4114	0.400	ng	0.00
19) Phenanthrene-d10	16.939	188	11179	0.400	ng	0.00
29) Chrysene-d12	21.131	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						
2) 1,4-Dioxane	3.177	88	416	0.210	ng	Qvalue 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

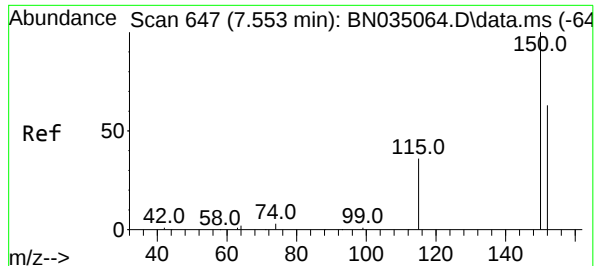
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

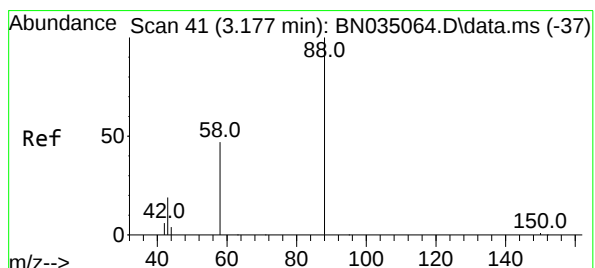
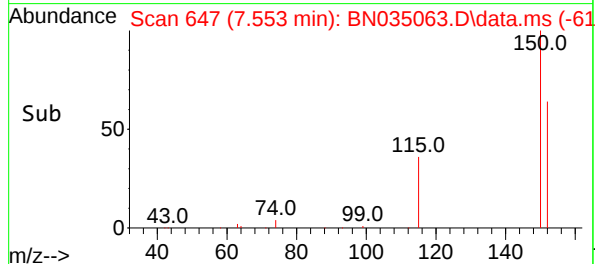
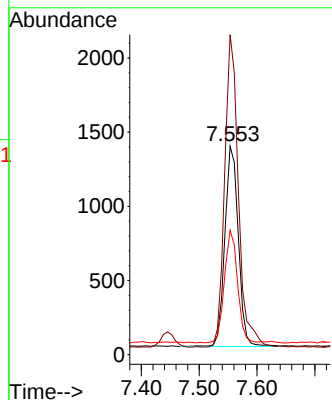
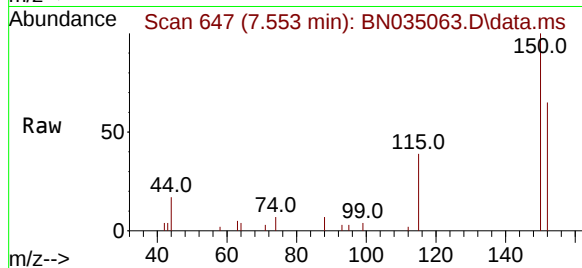




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.553 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

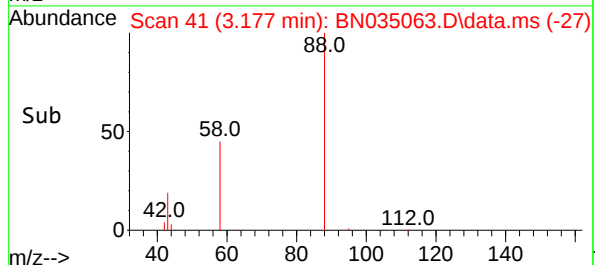
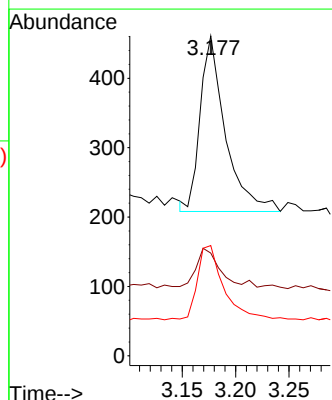
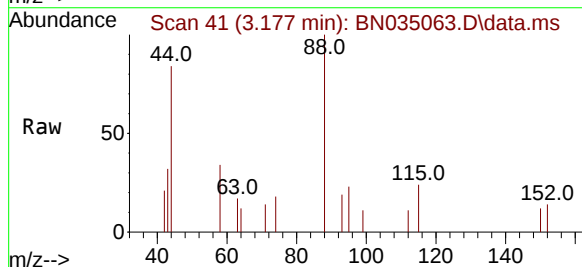
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

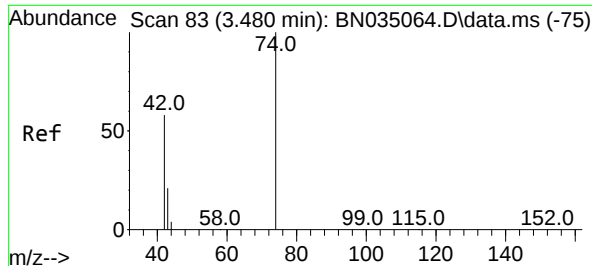
Tgt Ion:152 Resp: 2177
Ion Ratio Lower Upper
152 100
150 153.5 124.5 186.7
115 59.6 47.8 71.6



#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

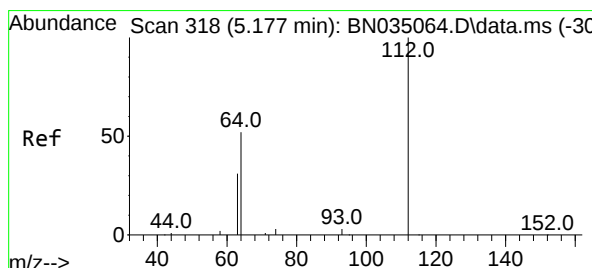
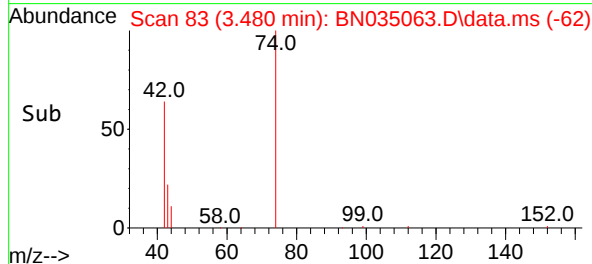
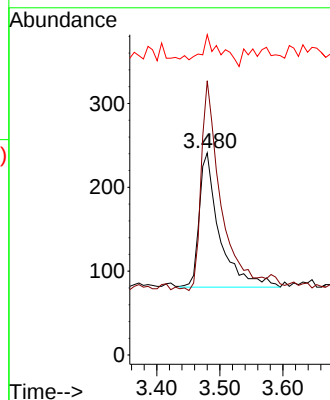
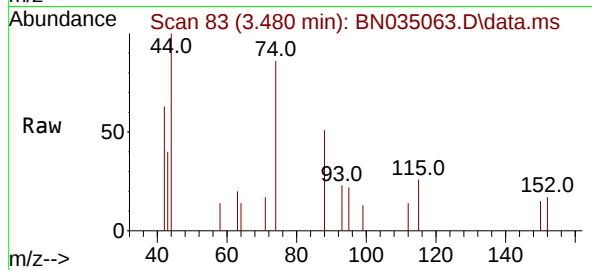




#3
n-Nitrosodimethylamine
Concen: 0.194 ng
RT: 3.480 min Scan# 81
Delta R.T. 0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

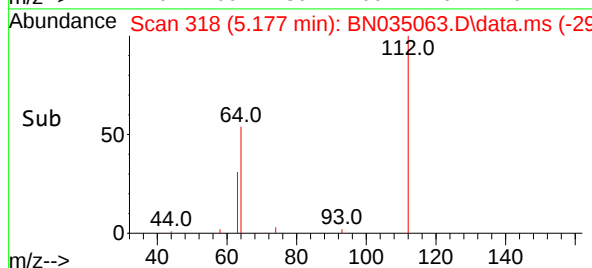
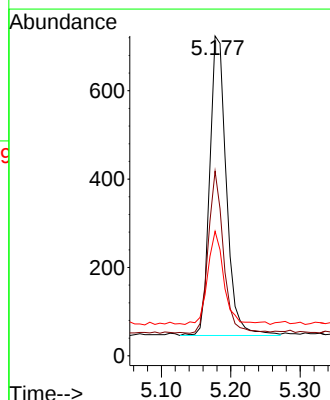
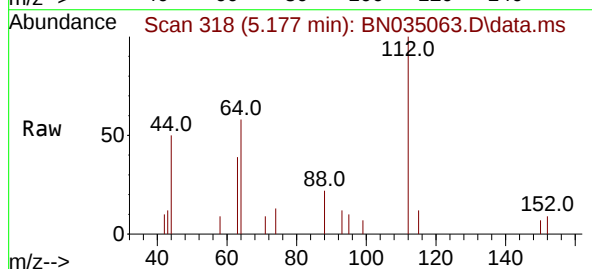
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.2

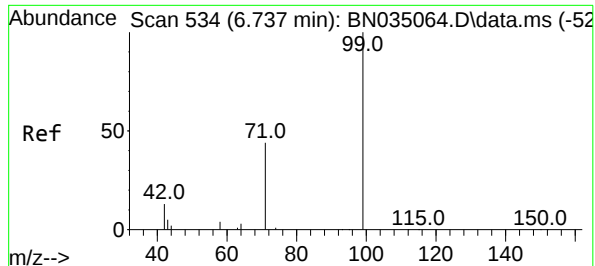
Tgt Ion: 42 Resp: 357
Ion Ratio Lower Upper
42 100
74 149.3 120.8 181.2
44 22.1 2.9 4.3#



#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

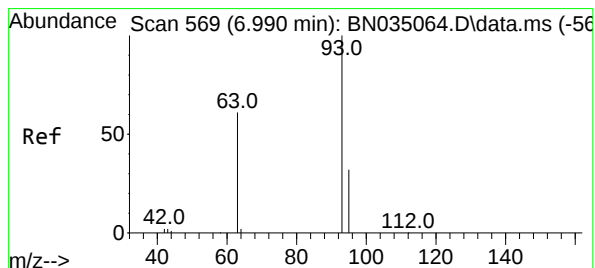
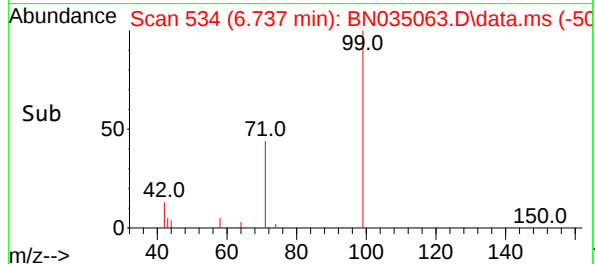
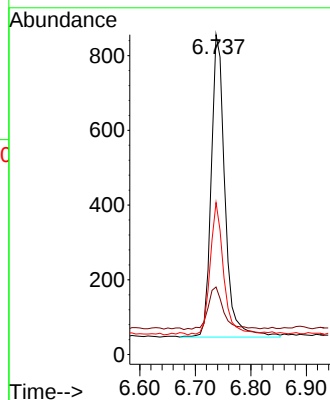
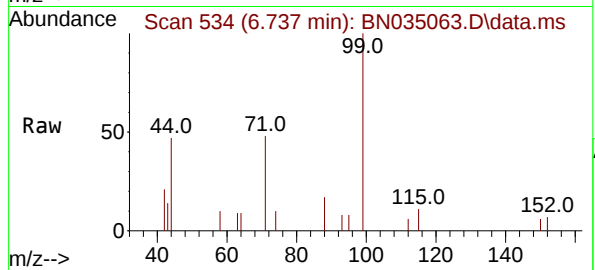




#5
Phenol-d6
Concen: 0.201 ng
RT: 6.737 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

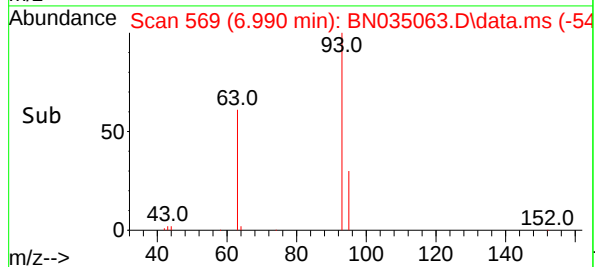
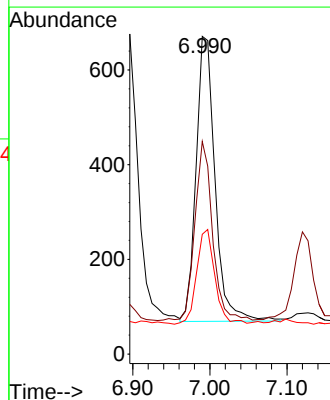
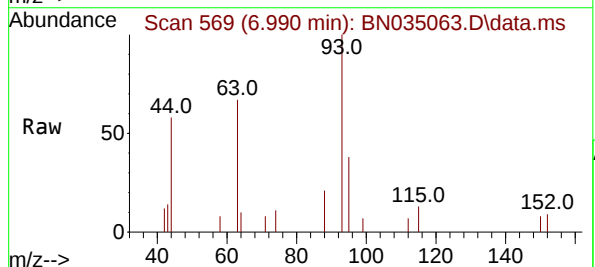
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

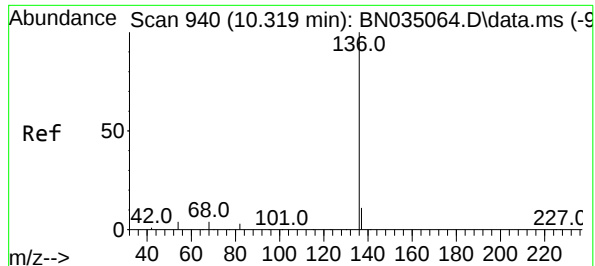
Tgt Ion: 99 Resp: 1392
Ion Ratio Lower Upper
99 100
42 16.1 11.4 17.0
71 43.0 34.6 51.8



#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

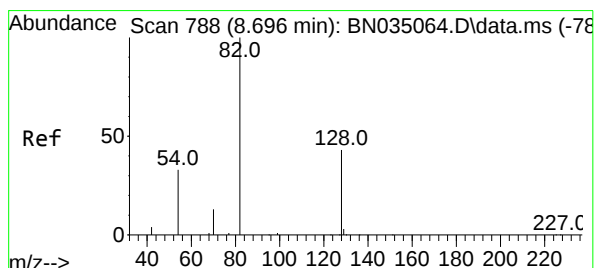
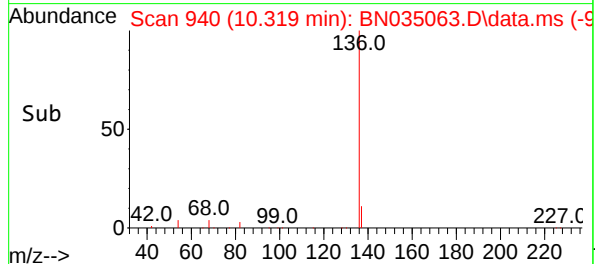
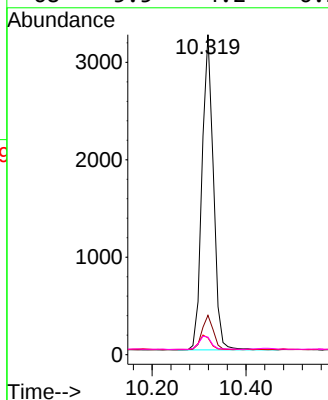
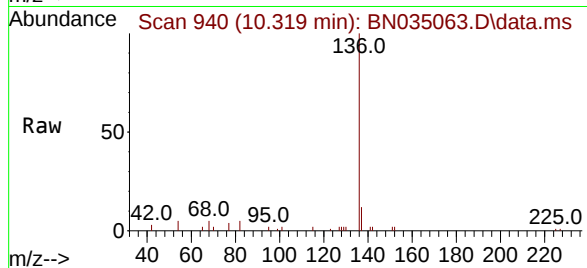




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.319 min Scan# 940
Delta R.T. -0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

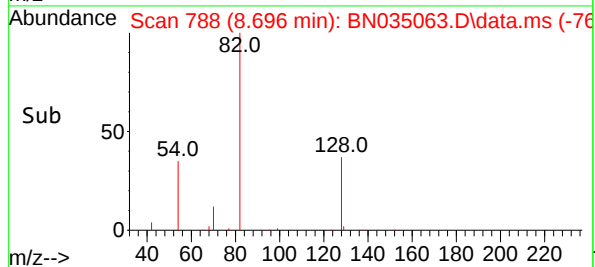
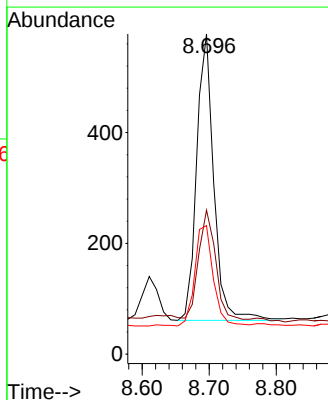
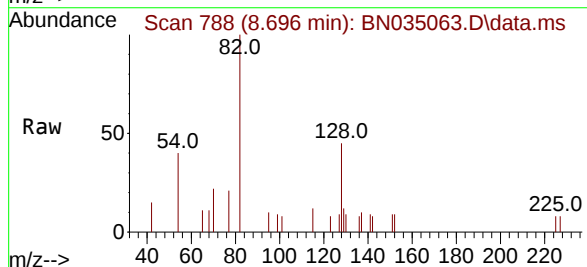
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

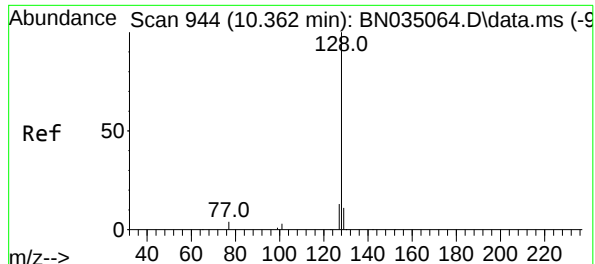
Tgt Ion:136	Resp:	5449
Ion Ratio	Lower	Upper
136	100	
137	12.3	9.8 14.8
54	5.2	4.0 6.0
68	5.5	4.2 6.2



#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

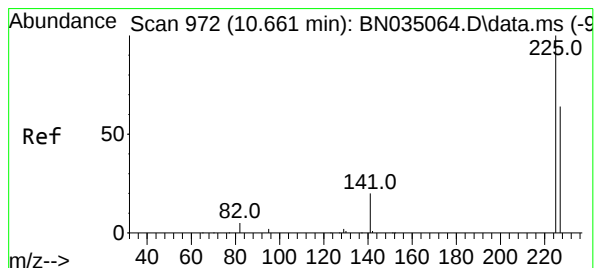
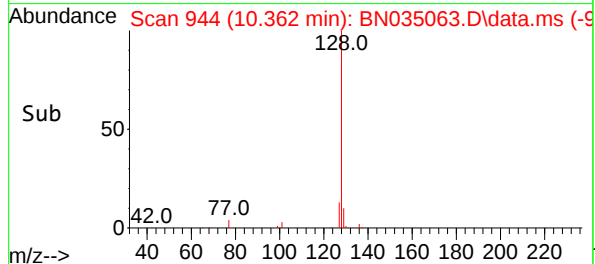
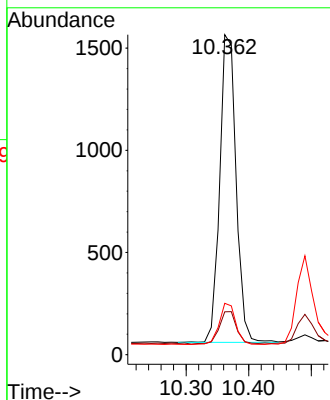
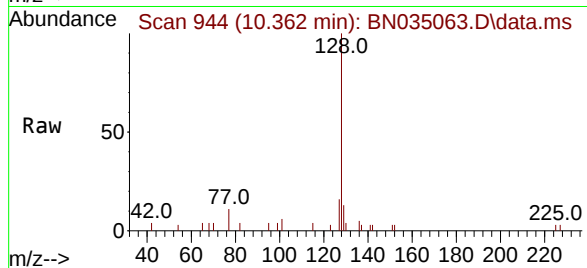




#9
Naphthalene
Concen: 0.193 ng
RT: 10.362 min Scan# 944
Delta R.T. -0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

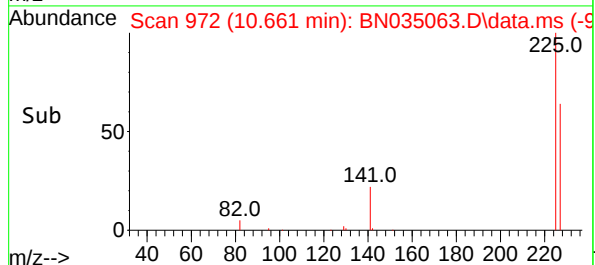
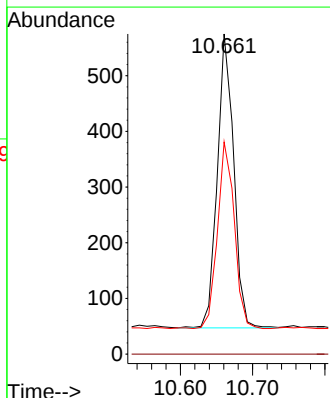
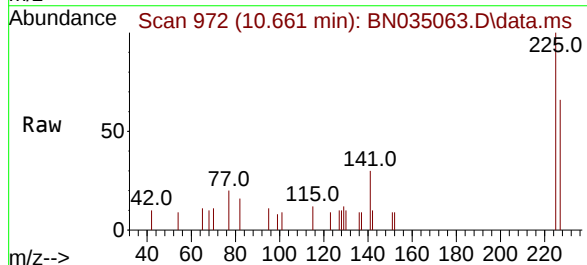
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

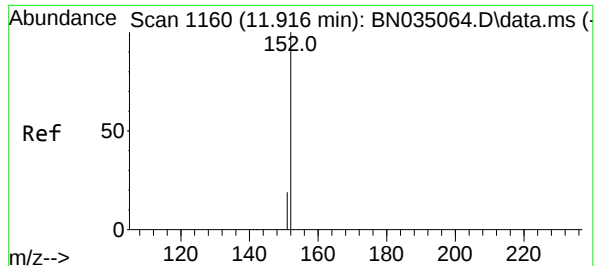
Tgt Ion:128 Resp: 2748
Ion Ratio Lower Upper
128 100
129 13.4 9.6 14.4
127 16.0 11.6 17.4



#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

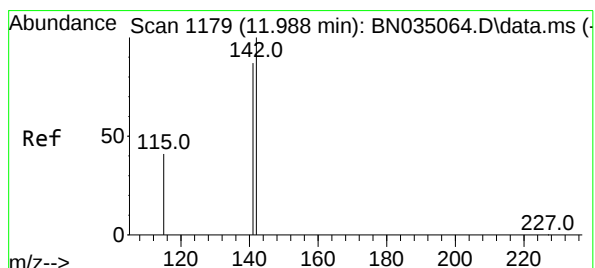
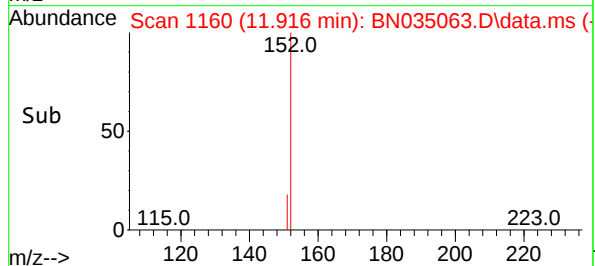
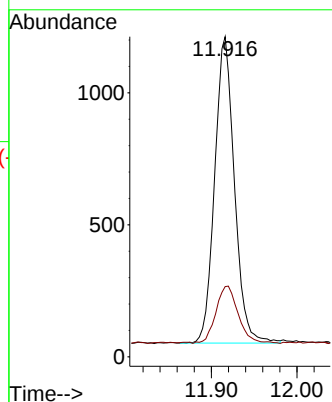
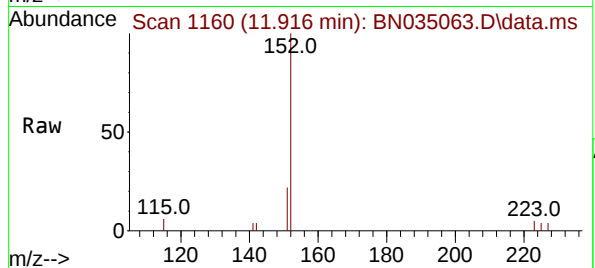




#11
2-Methylnaphthalene-d10
Concen: 0.192 ng
RT: 11.916 min Scan# 1160
Delta R.T. 0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

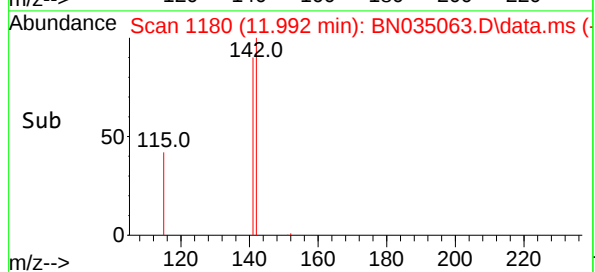
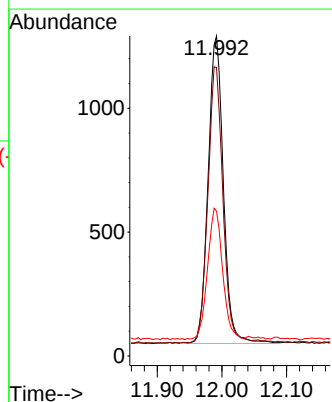
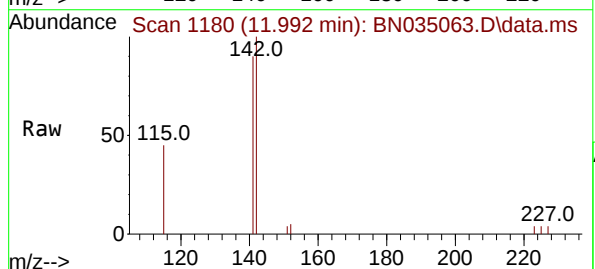
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

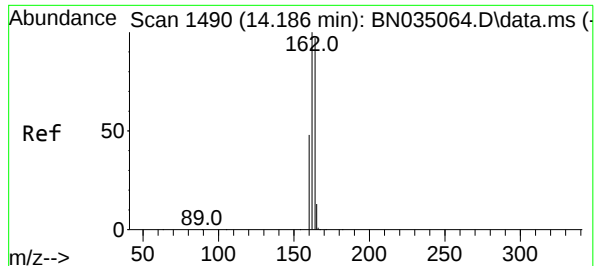
Tgt Ion:152 Resp: 1861
Ion Ratio Lower Upper
152 100
151 21.1 16.2 24.4



#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

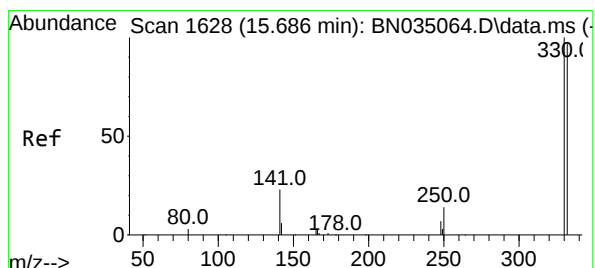
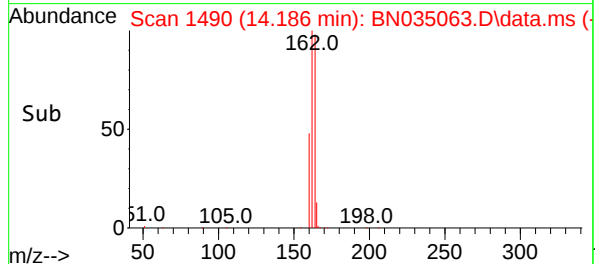
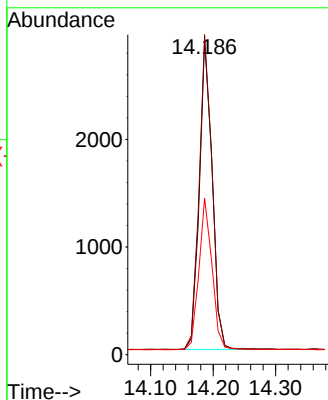
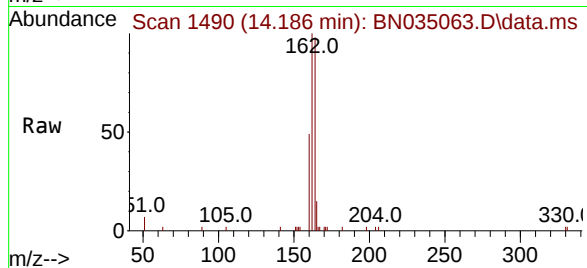




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.186 min Scan# 1490
Delta R.T. -0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

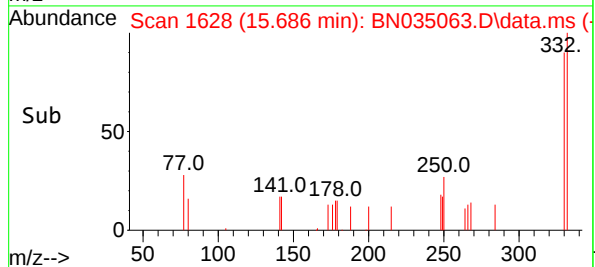
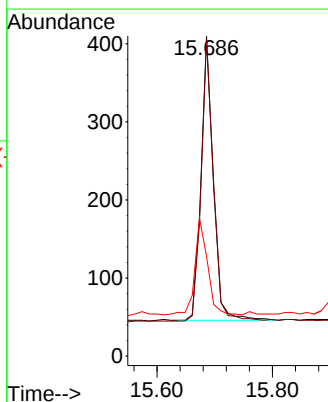
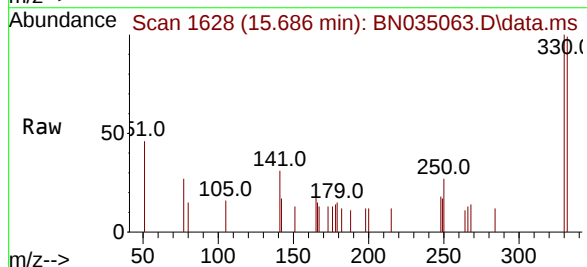
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

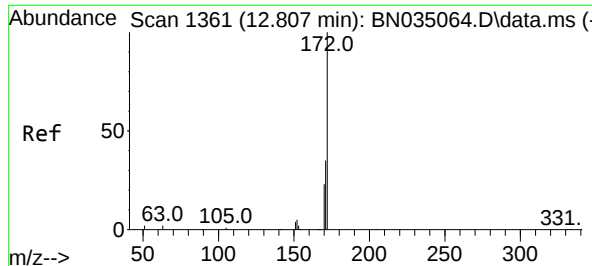
Tgt Ion:164 Resp: 4114
Ion Ratio Lower Upper
164 100
162 101.7 82.2 123.2
160 49.8 40.2 60.4



#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 :

SSTDIC0.2

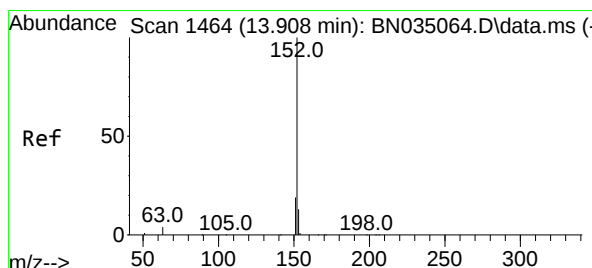
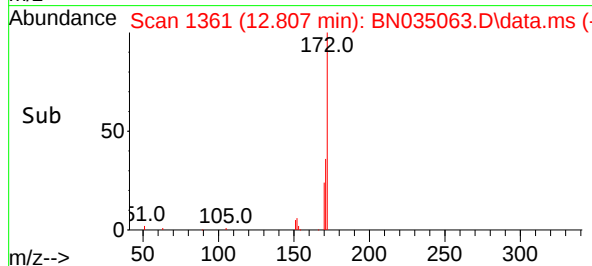
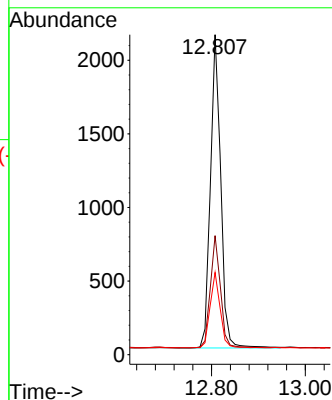
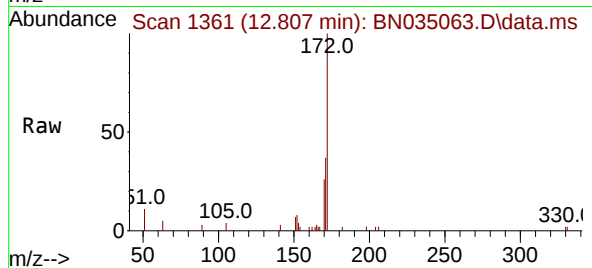
Tgt Ion:172 Resp: 3241

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

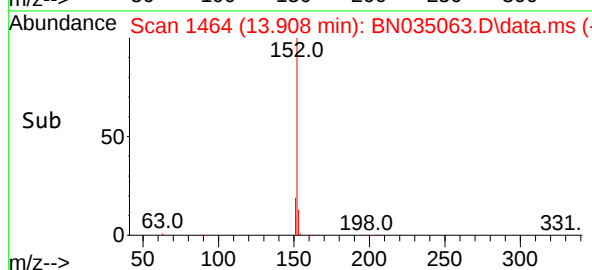
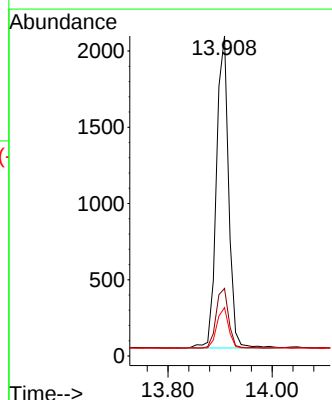
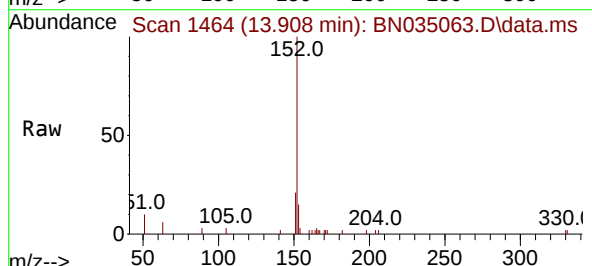
Tgt Ion:152 Resp: 3325

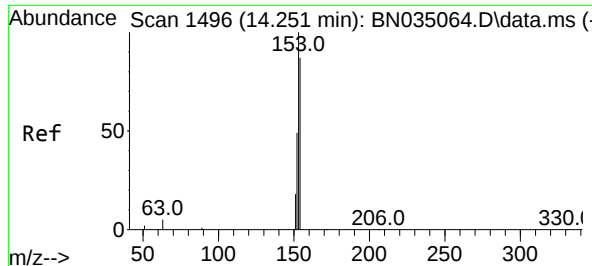
Ion Ratio Lower Upper

152 100

151 19.6 15.8 23.8

153 13.0 10.2 15.4

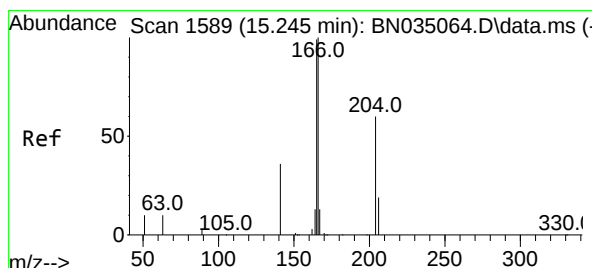
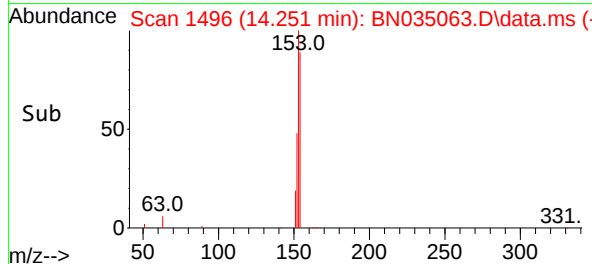
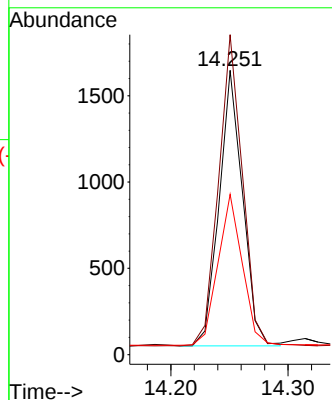
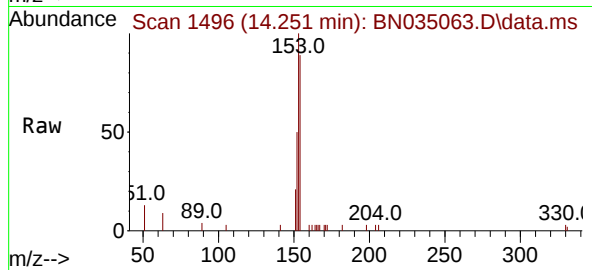




#17
Acenaphthene
Concen: 0.193 ng
RT: 14.251 min Scan# 1496
Delta R.T. 0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

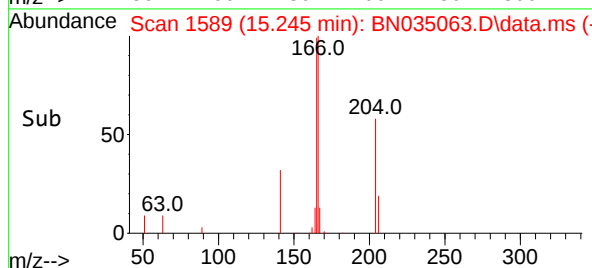
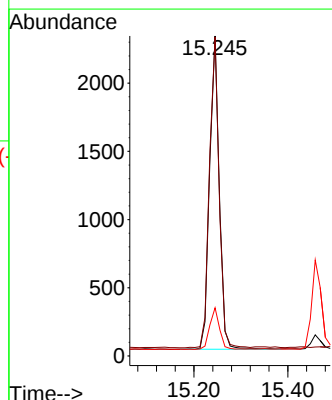
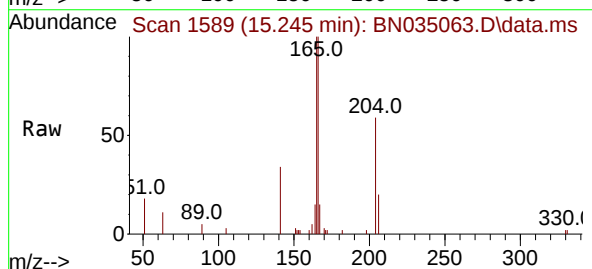
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

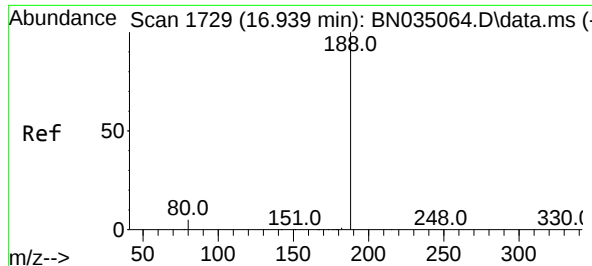
Tgt Ion:154 Resp: 2219
Ion Ratio Lower Upper
154 100
153 114.9 91.6 137.4
152 57.9 45.8 68.6



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





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.939 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN035063.D

Acq: 13 Nov 2024 13:16

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

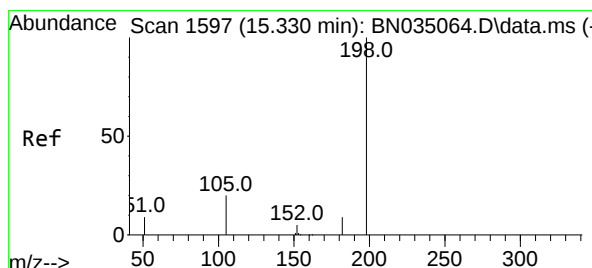
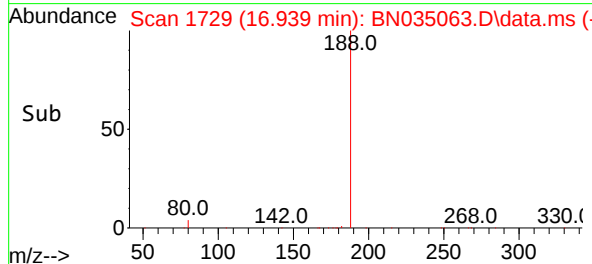
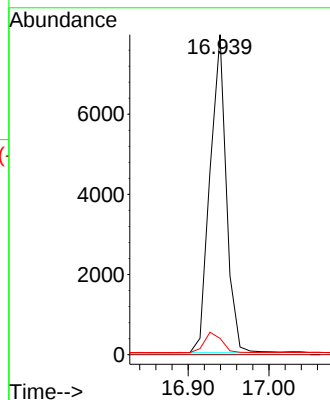
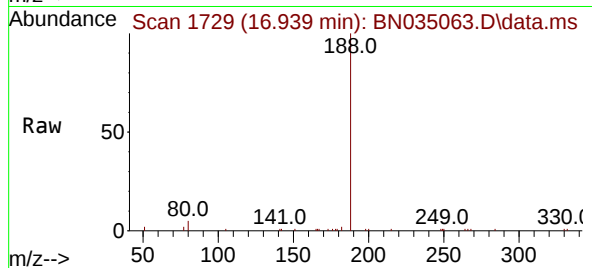
Tgt Ion:188 Resp: 11179

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

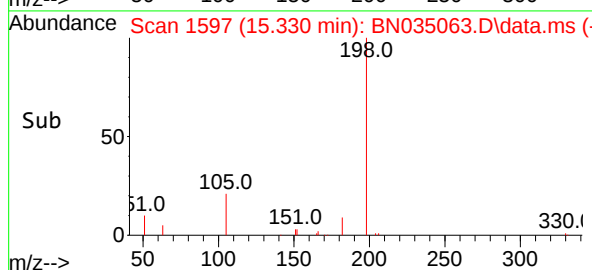
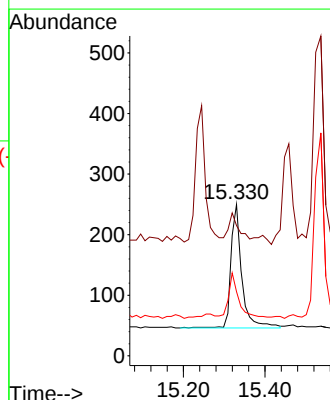
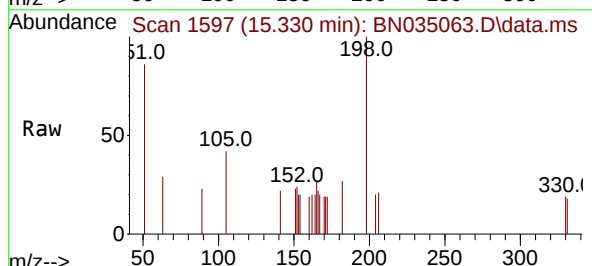
Tgt Ion:198 Resp: 376

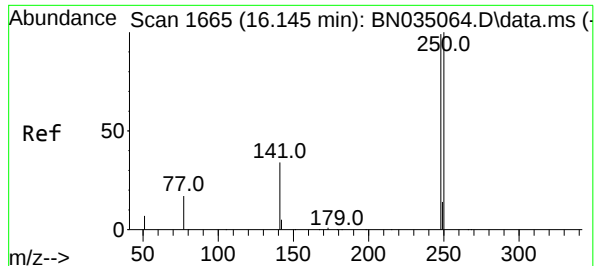
Ion Ratio Lower Upper

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

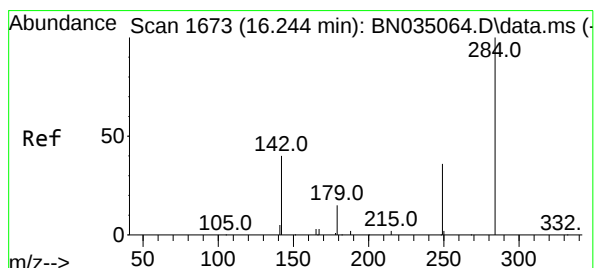
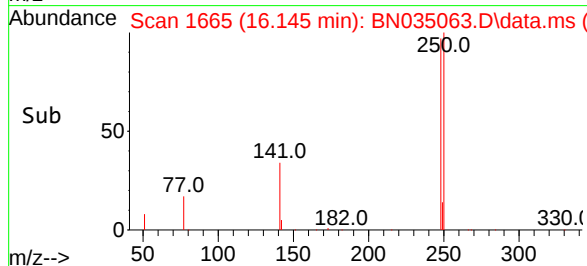
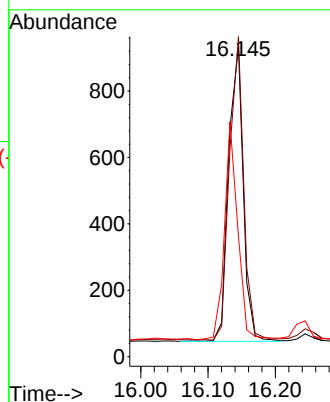
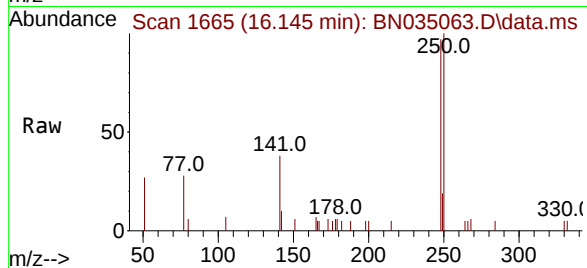
Tgt Ion:248 Resp: 1341

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

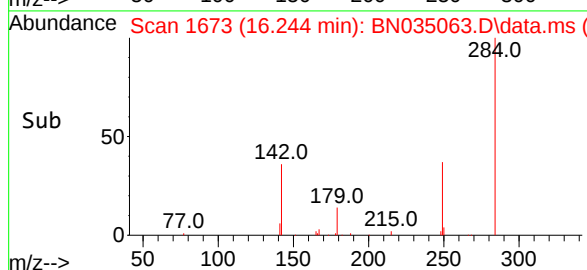
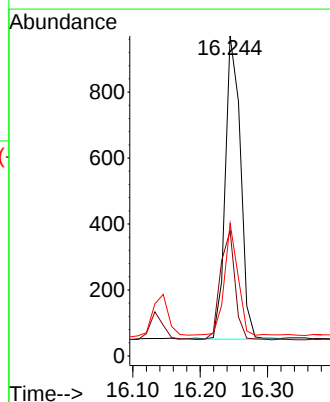
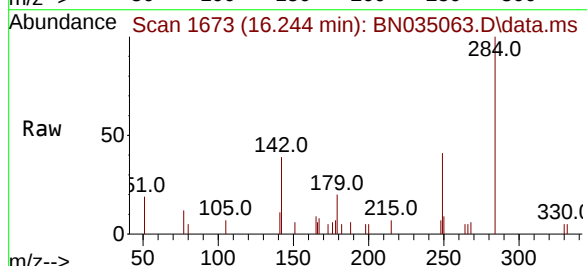
Tgt Ion:284 Resp: 1445

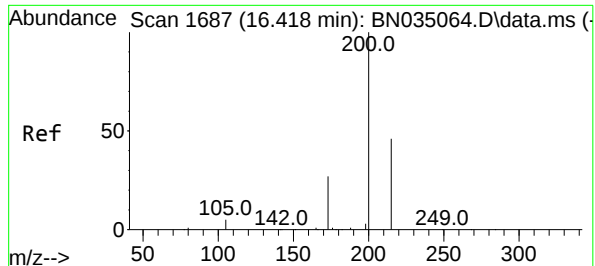
Ion Ratio Lower Upper

284 100

142 34.7 28.2 42.4

249 32.9 26.2 39.2

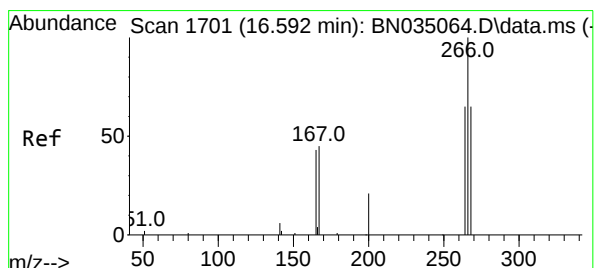
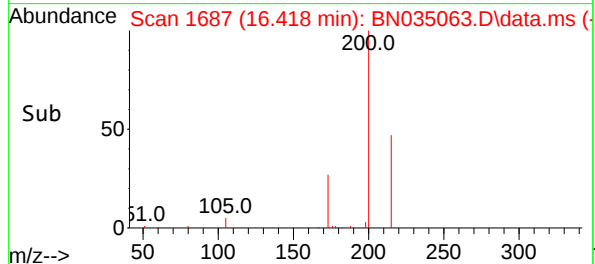
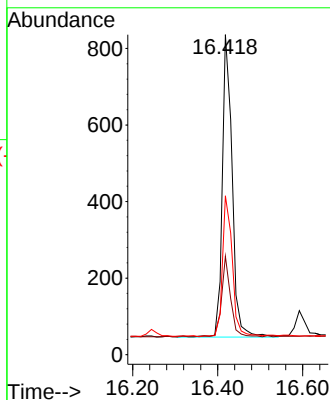
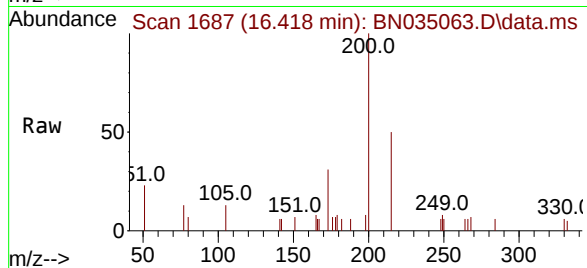




#23
Atrazine
Concen: 0.199 ng
RT: 16.418 min Scan# 1687
Delta R.T. -0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

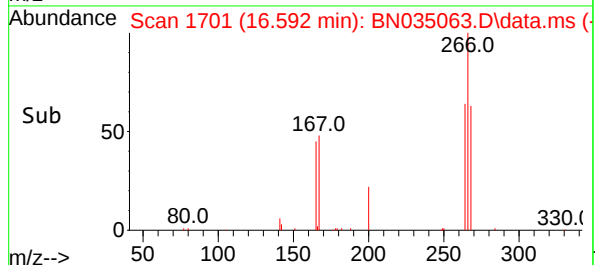
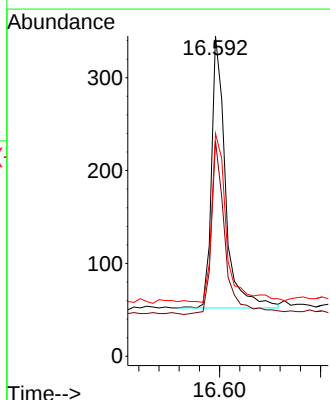
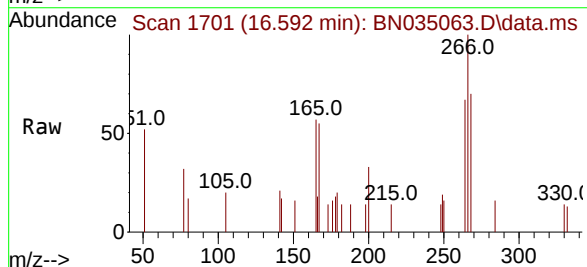
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

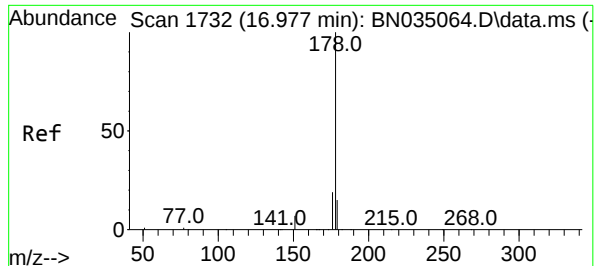
Tgt Ion:200 Resp: 1271
Ion Ratio Lower Upper
200 100
173 30.7 22.6 33.8
215 49.6 37.8 56.6



#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

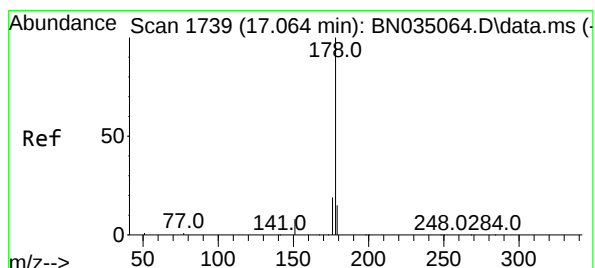
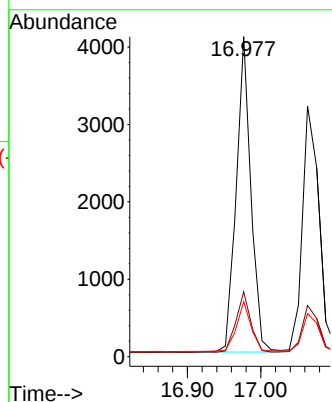
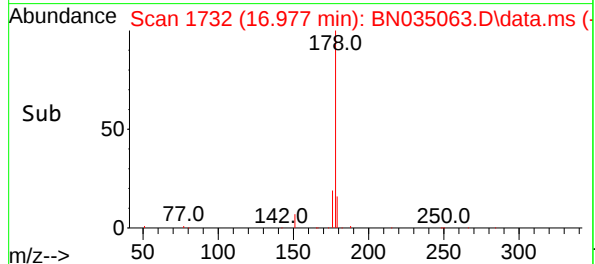
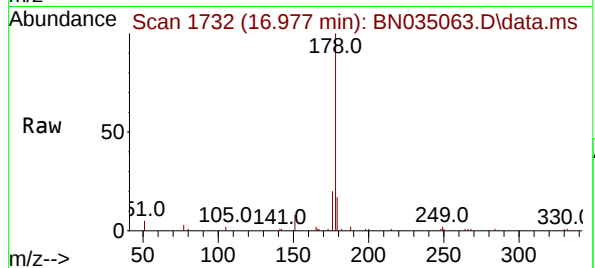




#25
Phenanthrene
Concen: 0.193 ng
RT: 16.977 min Scan# 1732
Delta R.T. 0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

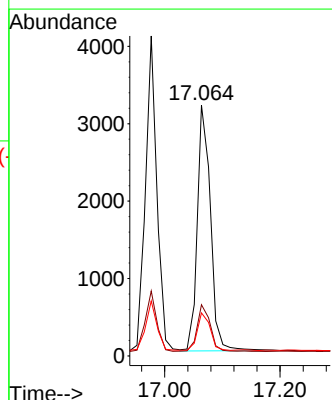
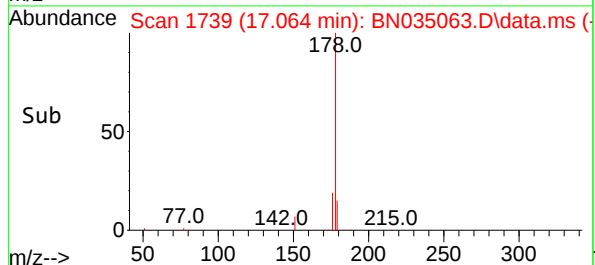
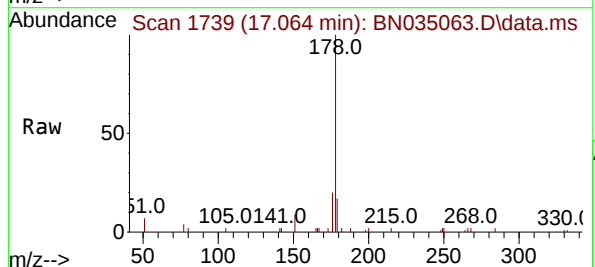
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

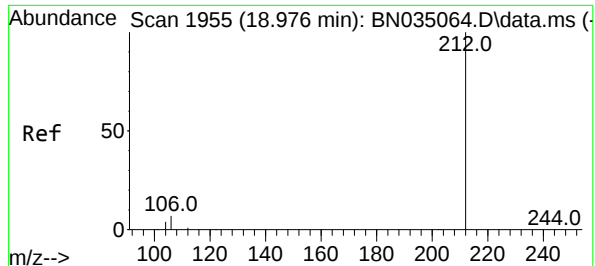
Tgt Ion:178 Resp: 5664
Ion Ratio Lower Upper
178 100
176 19.4 15.2 22.8
179 16.3 12.6 18.8



#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

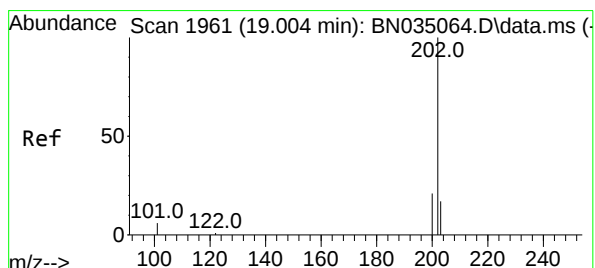
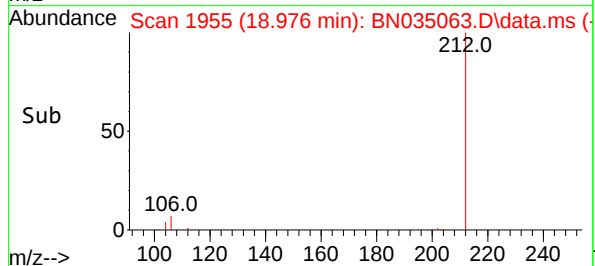
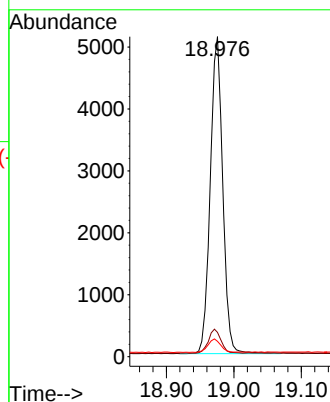
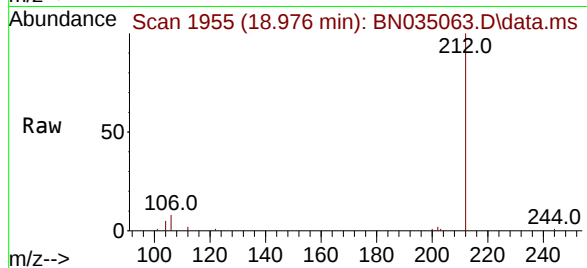
Tgt Ion:212 Resp: 6587

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

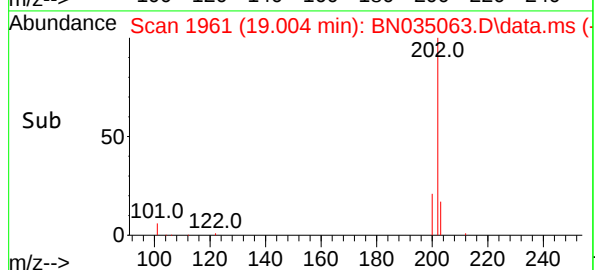
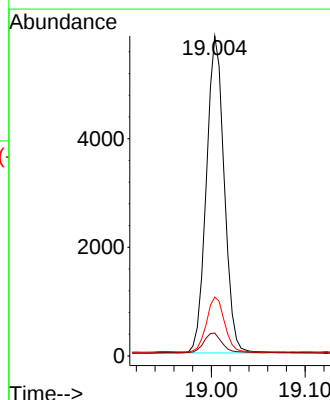
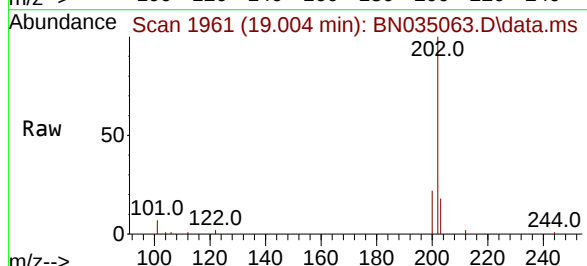
Tgt Ion:202 Resp: 7690

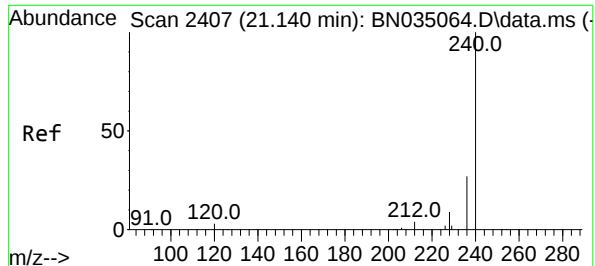
Ion Ratio Lower Upper

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

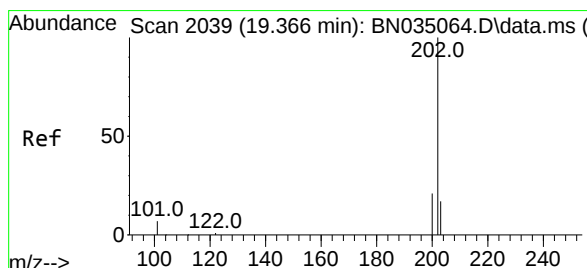
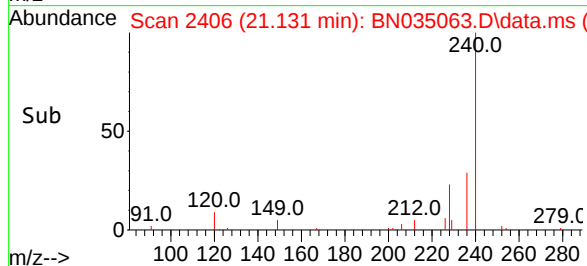
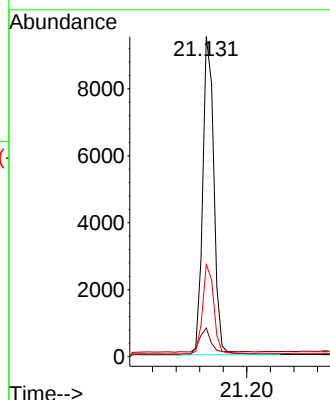
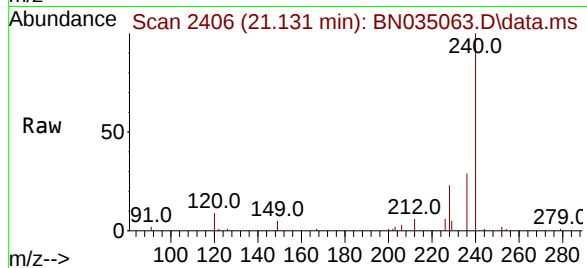
Tgt Ion:240 Resp: 12508

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

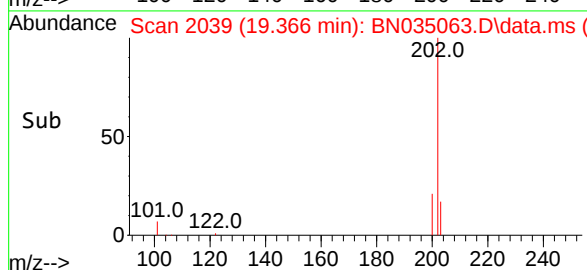
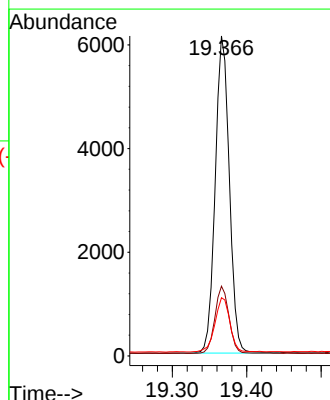
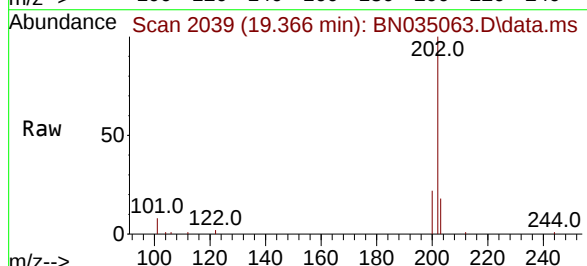
Tgt Ion:202 Resp: 8067

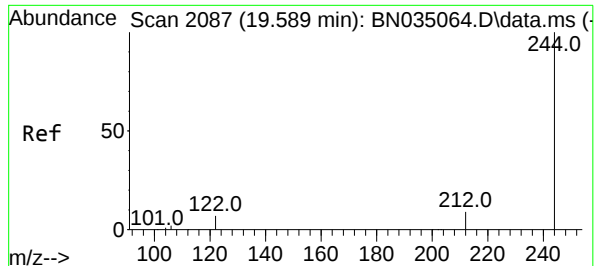
Ion Ratio Lower Upper

202 100

200 21.1 16.7 25.1

203 18.1 14.2 21.4

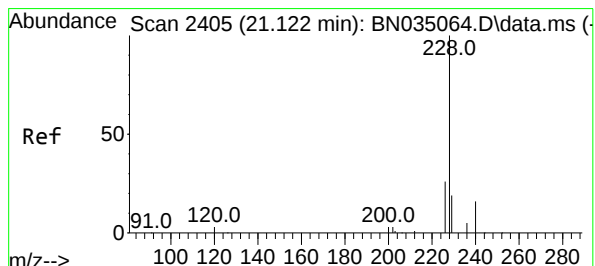
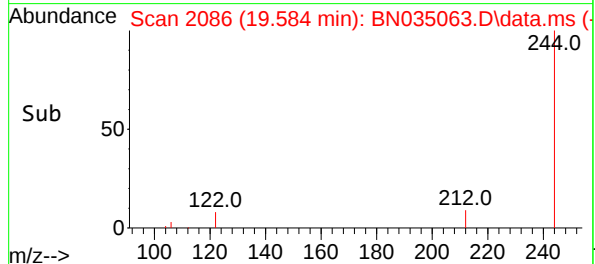
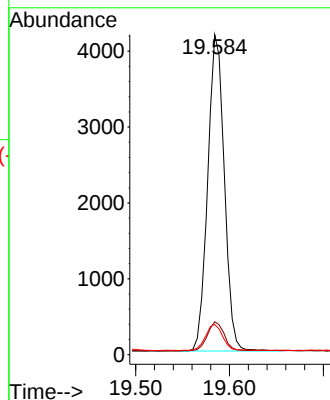
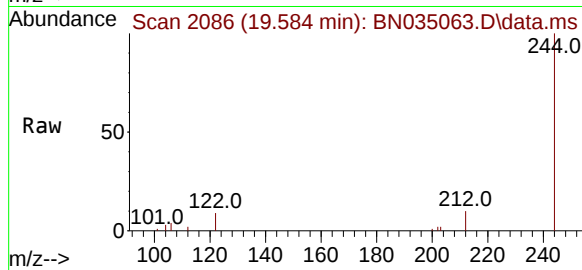




#31
Terphenyl-d14
Concen: 0.195 ng
RT: 19.584 min Scan# 2086
Delta R.T. -0.005 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

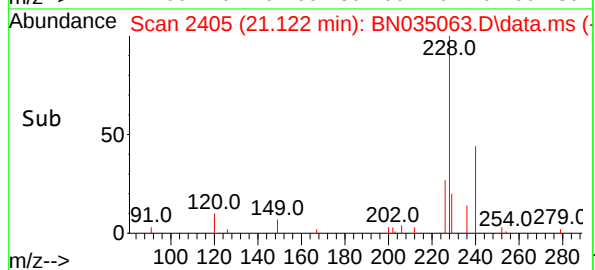
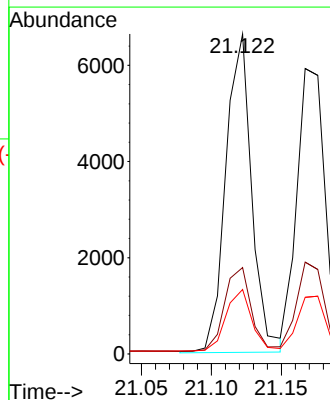
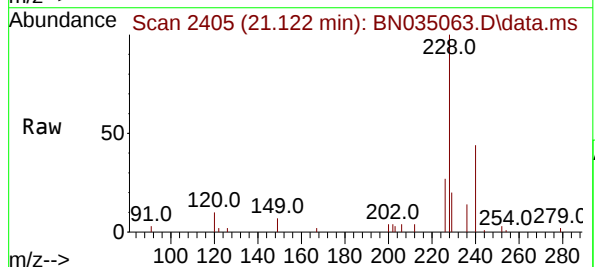
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

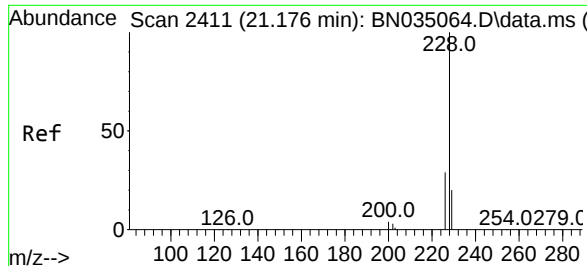
Tgt Ion:244 Resp: 5123
Ion Ratio Lower Upper
244 100
212 10.3 7.6 11.4
122 9.5 6.1 9.1#



#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 :

SSTDIC0.2

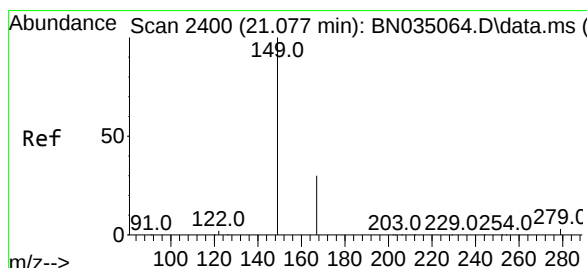
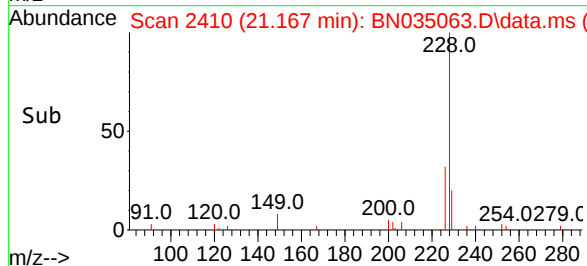
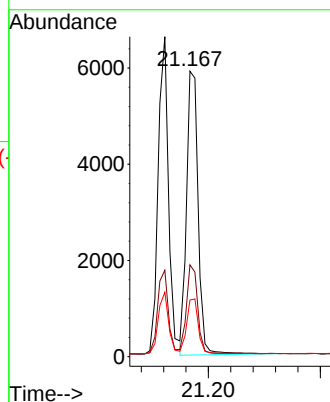
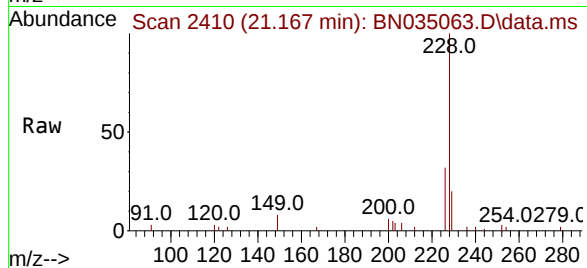
Tgt Ion:228 Resp: 8540

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

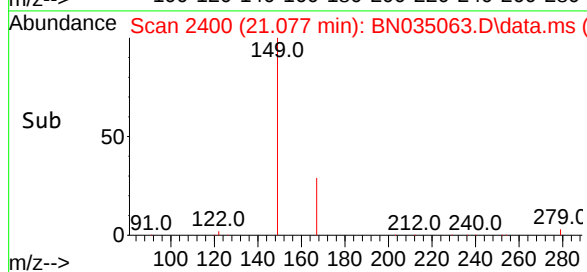
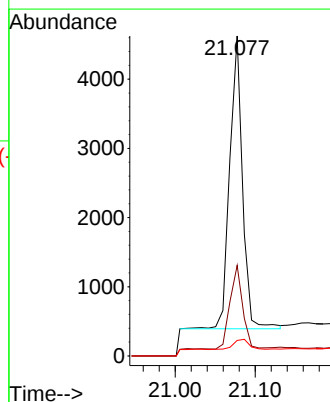
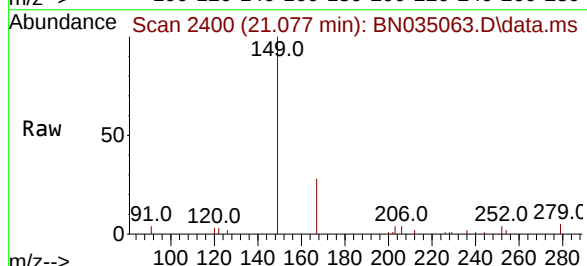
Tgt Ion:149 Resp: 4712

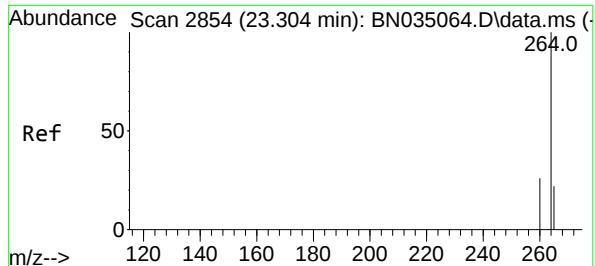
Ion Ratio Lower Upper

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

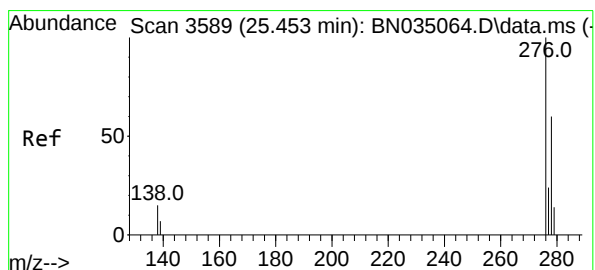
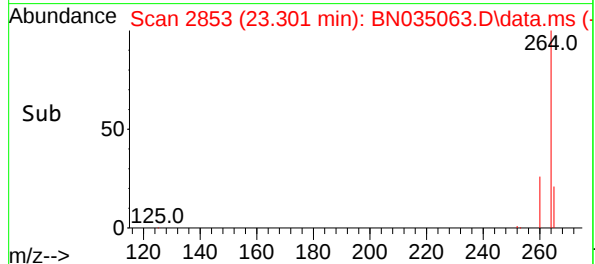
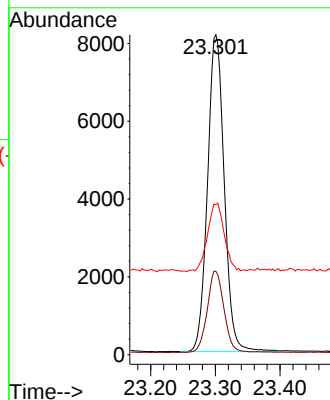
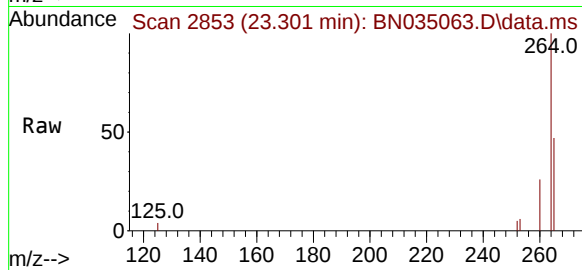
Tgt Ion:264 Resp: 14643

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

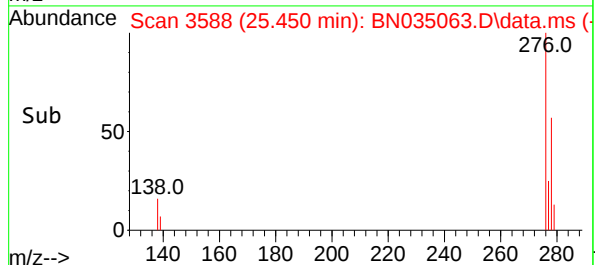
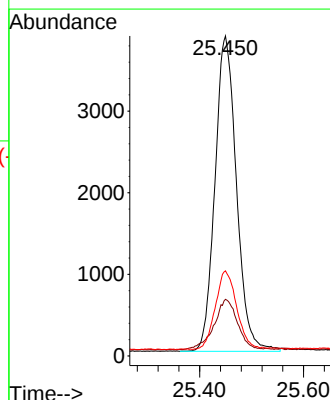
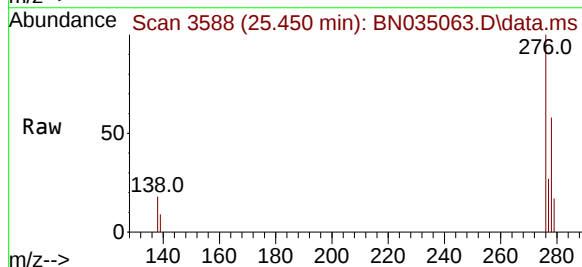
Tgt Ion:276 Resp: 11095

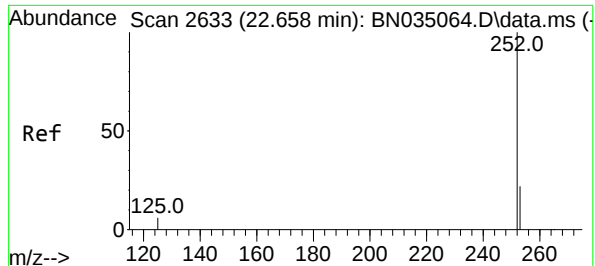
Ion Ratio Lower Upper

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

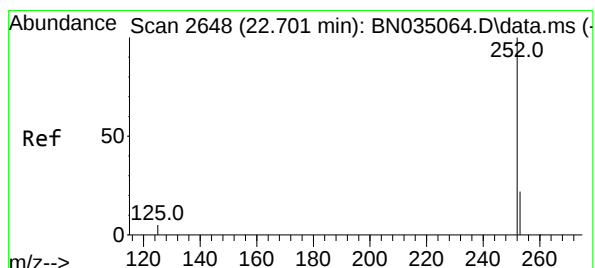
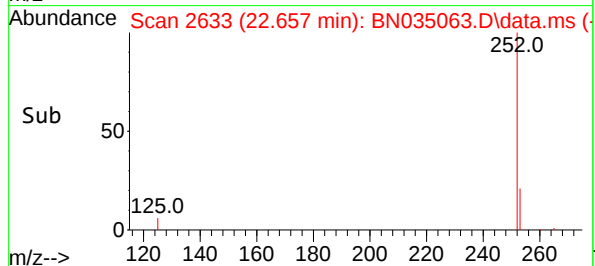
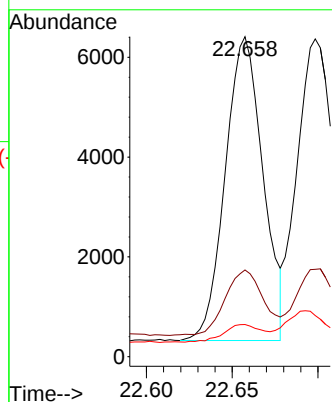
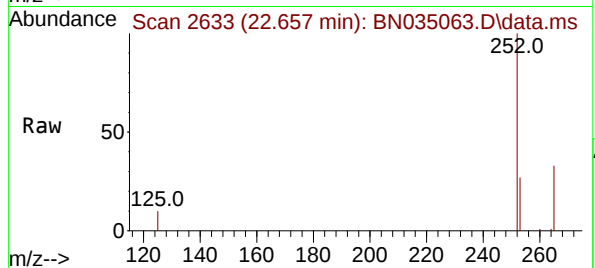
Tgt Ion:252 Resp: 9315

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

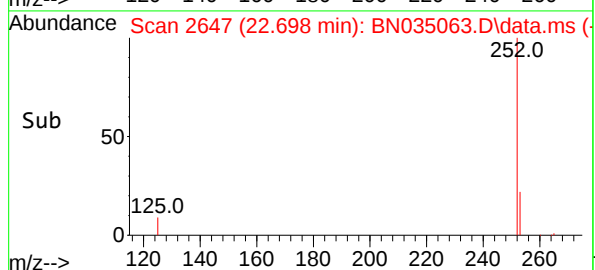
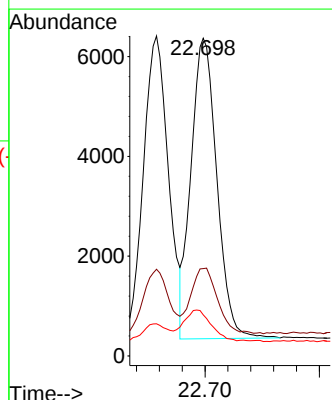
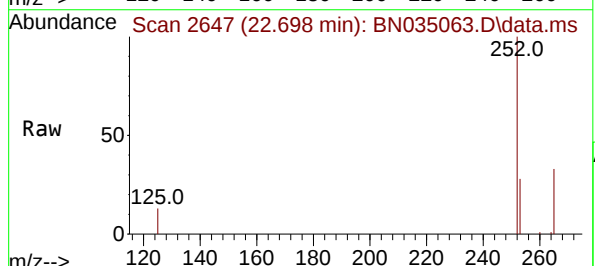
Tgt Ion:252 Resp: 9432

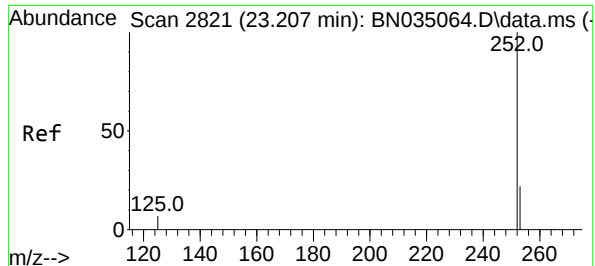
Ion Ratio Lower Upper

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

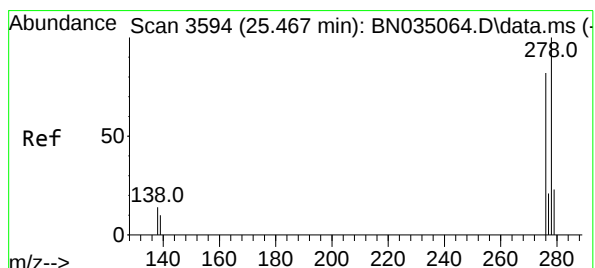
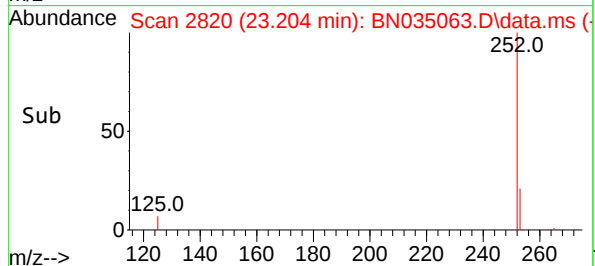
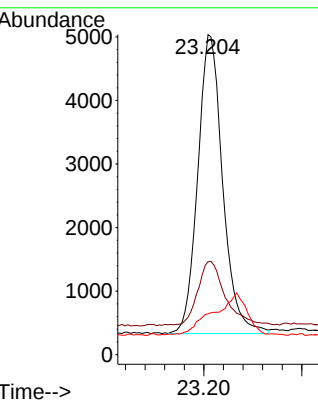
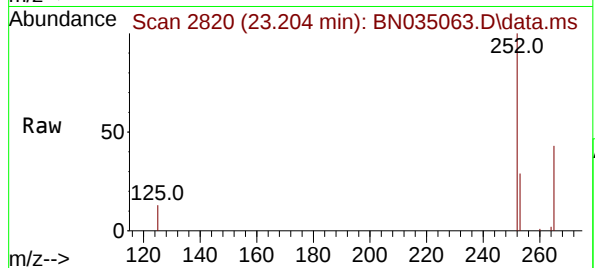
Tgt Ion:252 Resp: 8302

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

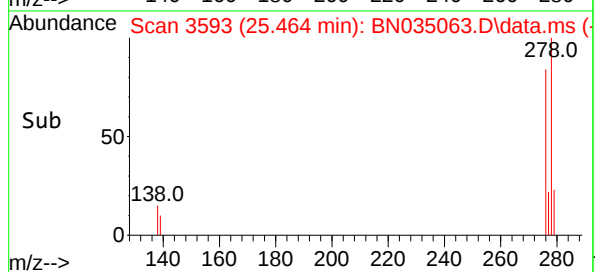
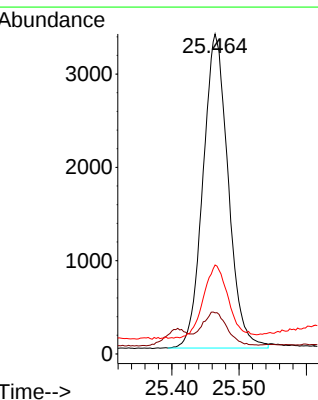
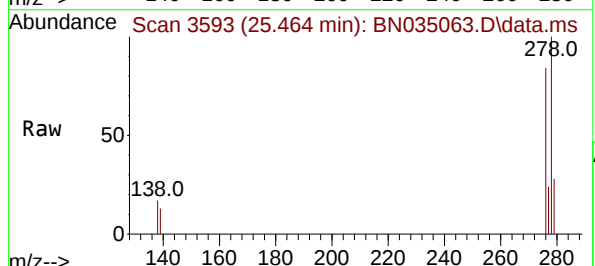
Tgt Ion:278 Resp: 8750

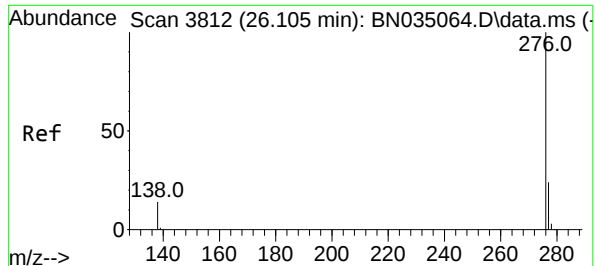
Ion Ratio Lower Upper

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

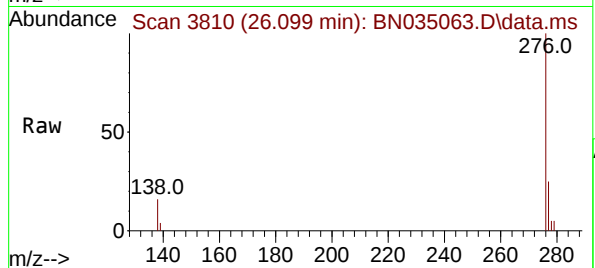
Acq: 13 Nov 2024 13:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



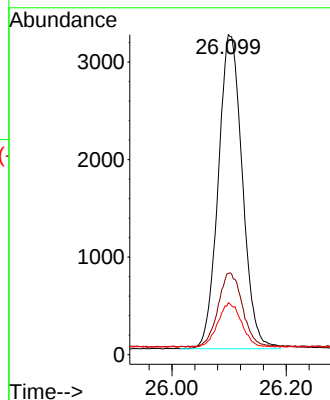
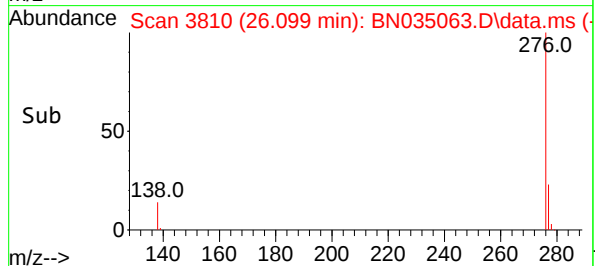
Tgt Ion:276 Resp: 9431

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

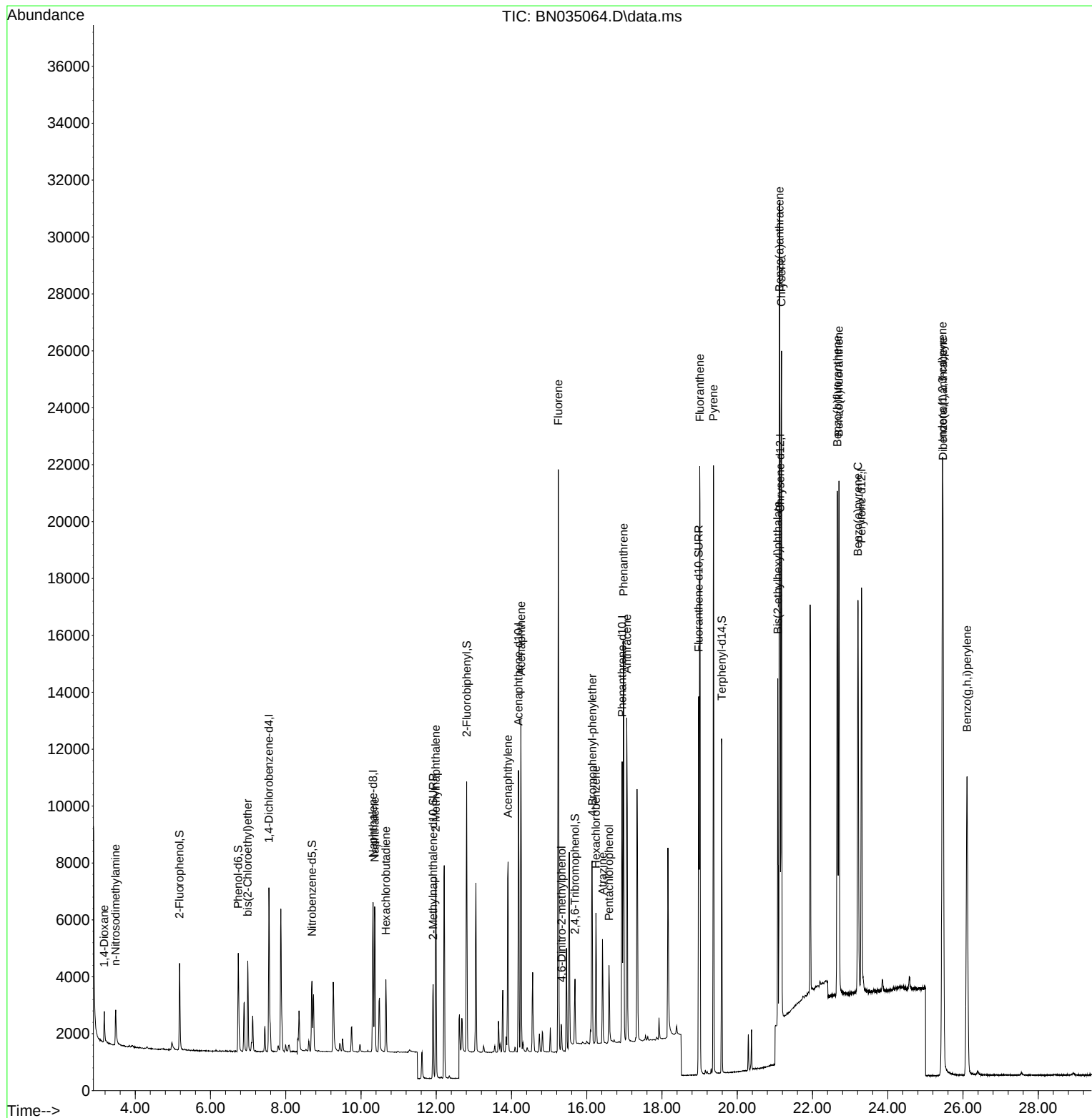
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.553	152	2804	0.400	ng	0.00
7) Naphthalene-d8	10.319	136	6865	0.400	ng	0.00
13) Acenaphthene-d10	14.186	164	5401	0.400	ng	0.00
19) Phenanthrene-d10	16.939	188	13499	0.400	ng	0.00
29) Chrysene-d12	21.140	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						
2) 1,4-Dioxane	3.177	88	940	0.369	ng	Qvalue 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

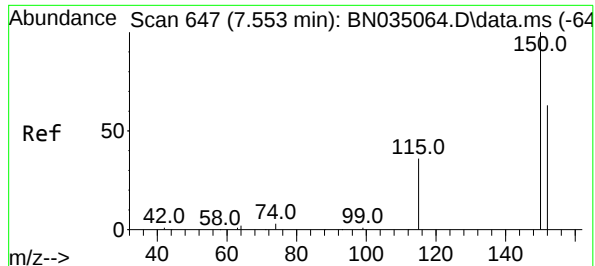
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
Data File : BN035064.D
Acq On : 13 Nov 2024 13:52
Operator : RC/JU
Sample : 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

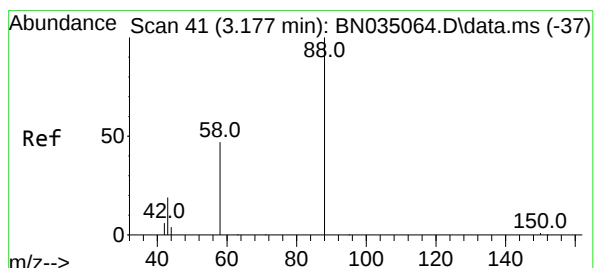
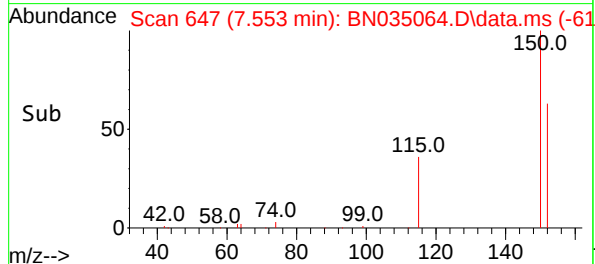
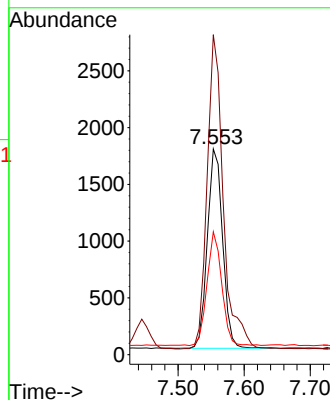
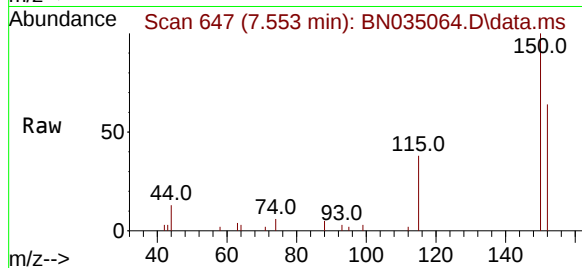




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.553 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

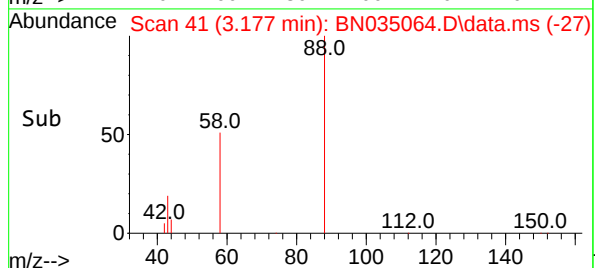
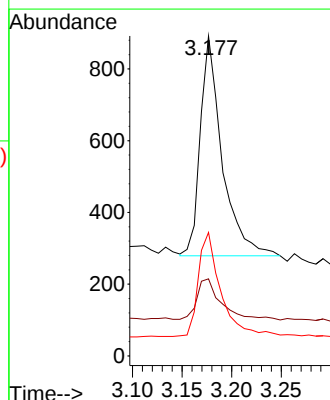
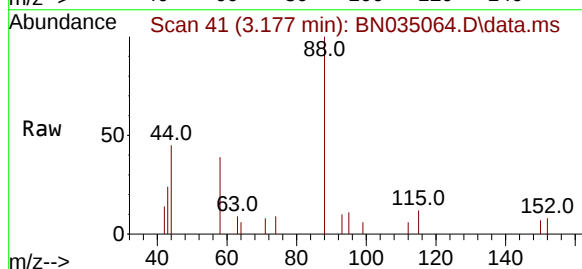
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

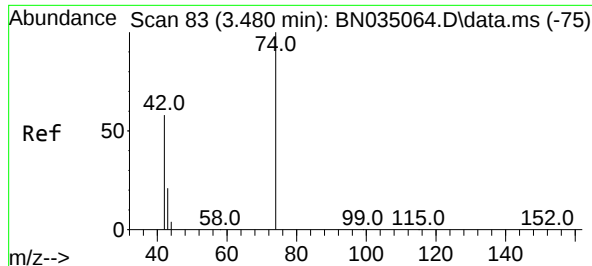
Tgt Ion: 152 Resp: 2804
Ion Ratio Lower Upper
152 100
150 155.6 124.5 186.7
115 59.7 47.8 71.6



#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

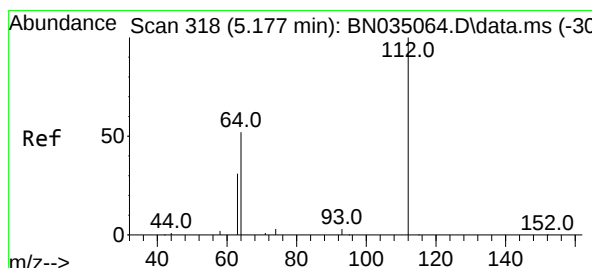
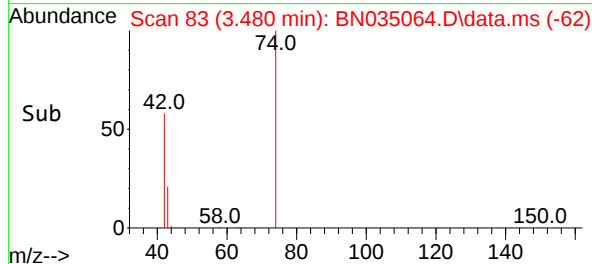
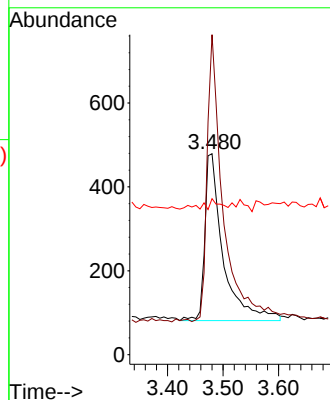
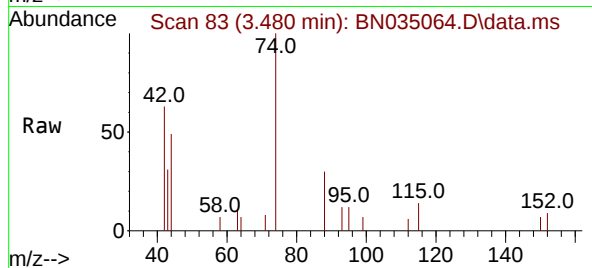




#3
n-Nitrosodimethylamine
Concen: 0.386 ng
RT: 3.480 min Scan# 83
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

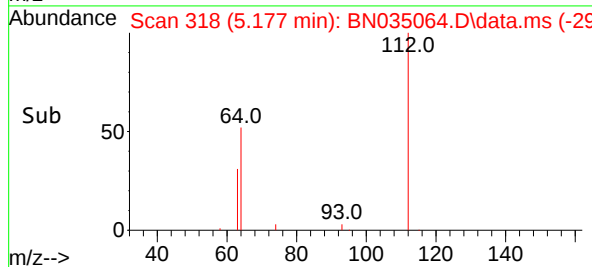
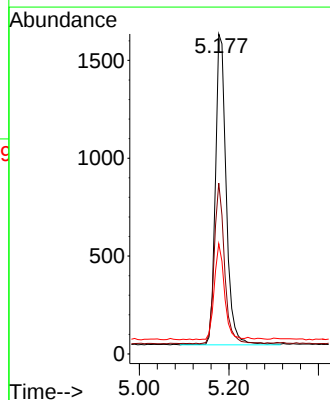
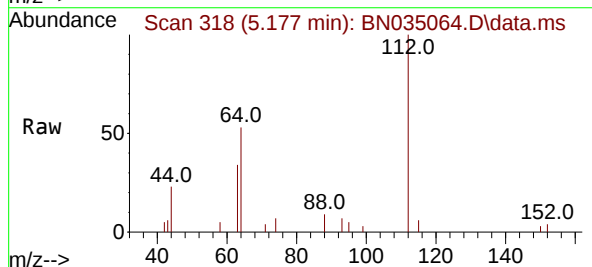
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

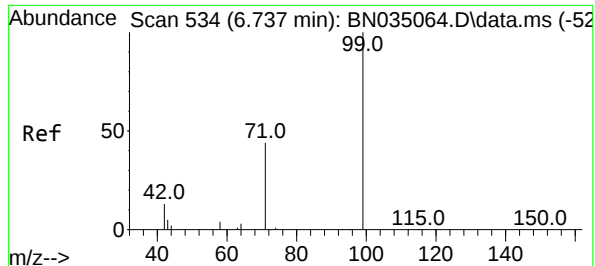
Tgt Ion: 42 Resp: 914
Ion Ratio Lower Upper
42 100
74 151.0 120.8 181.2
44 3.6 2.9 4.3



#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

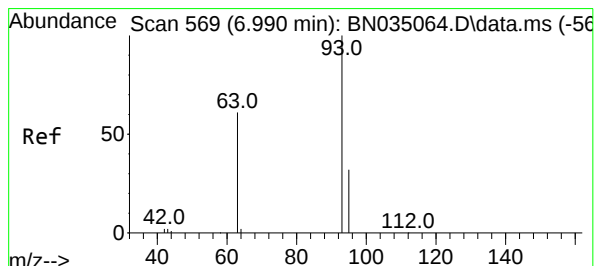
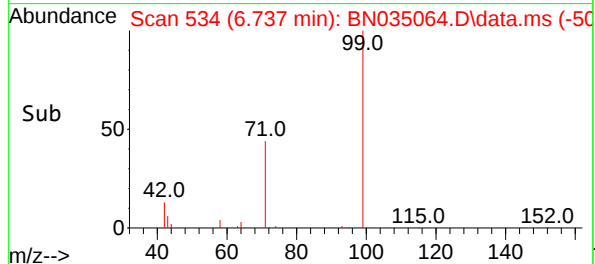
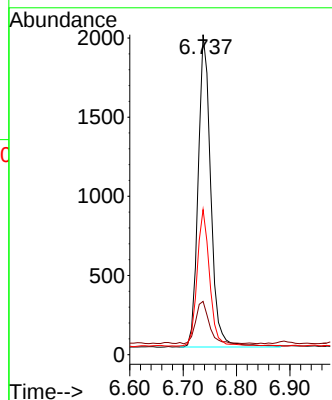
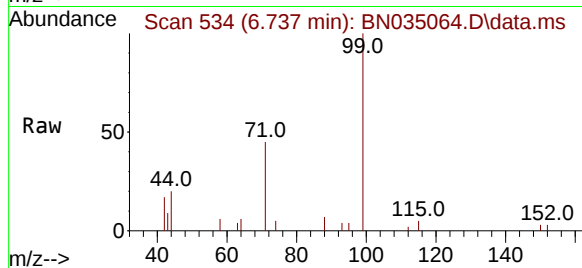




#5
Phenol-d6
Concen: 0.364 ng
RT: 6.737 min Scan# 511
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

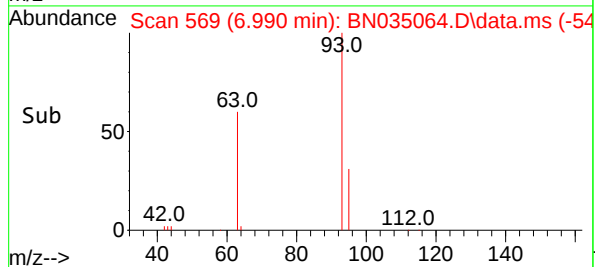
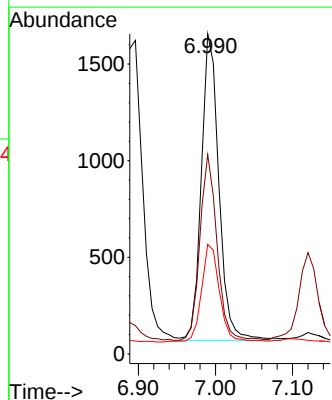
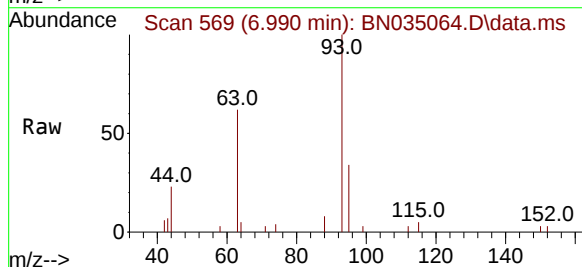
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

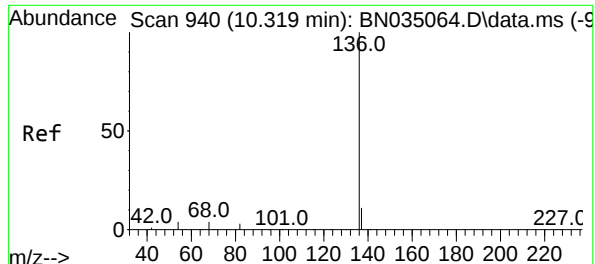
Tgt Ion: 99 Resp: 3250
Ion Ratio Lower Upper
99 100
42 14.2 11.4 17.0
71 43.2 34.6 51.8



#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

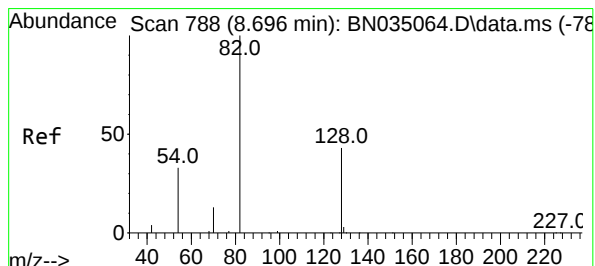
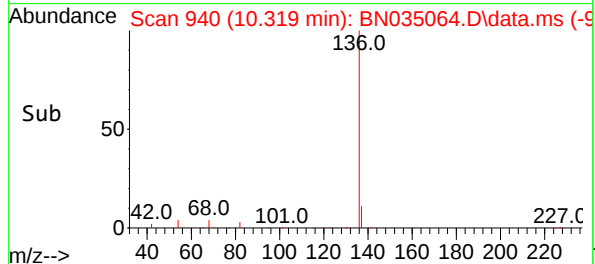
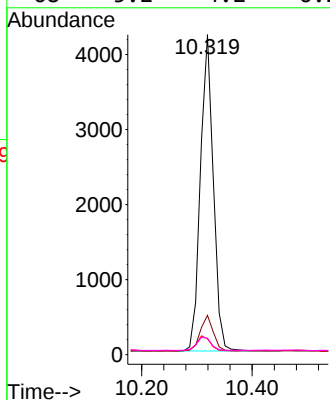
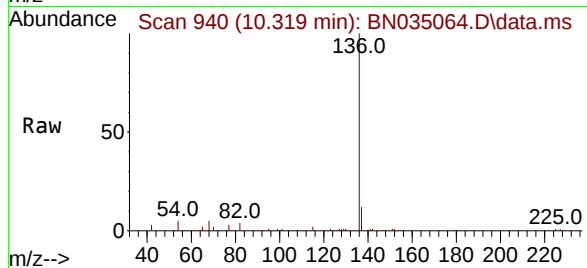




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.319 min Scan# 940
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

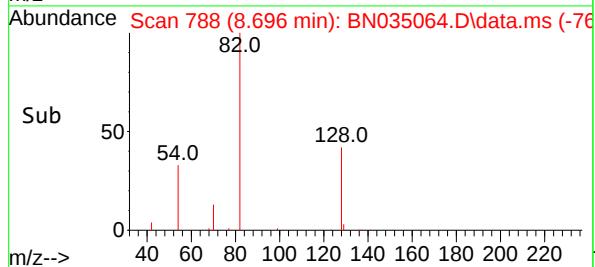
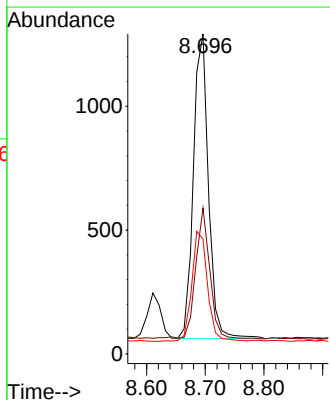
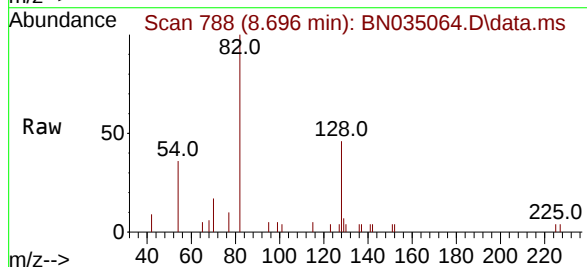
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

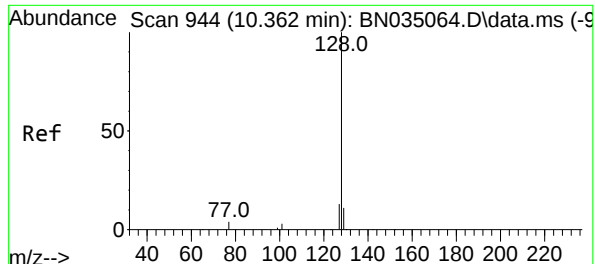
Tgt Ion:	136	Resp:	6865
Ion	Ratio	Lower	Upper
136	100		
137	12.3	9.8	14.8
54	5.0	4.0	6.0
68	5.2	4.2	6.2



#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

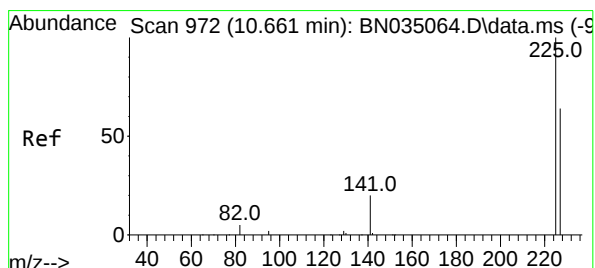
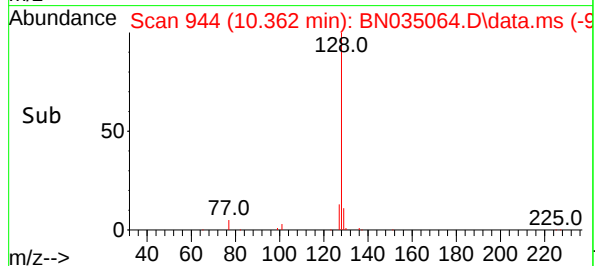
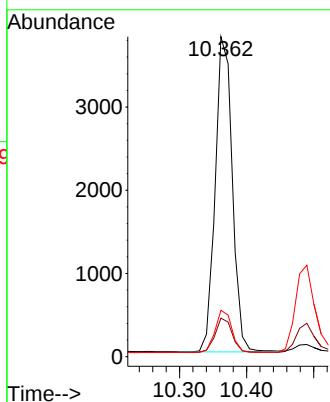
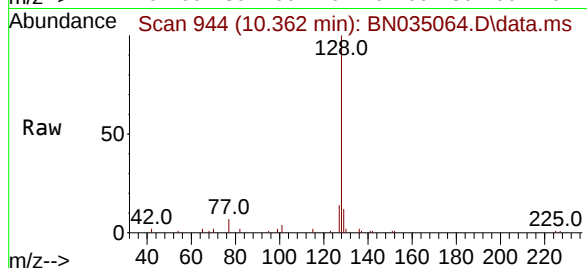
Tgt Ion:128 Resp: 6705

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

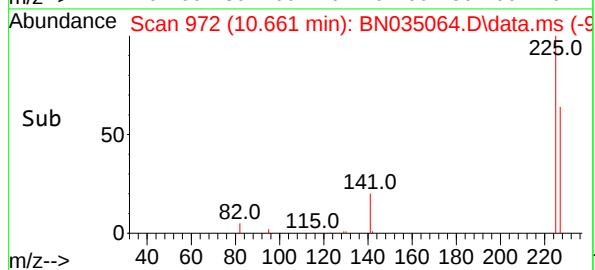
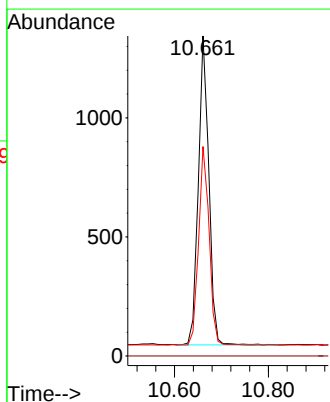
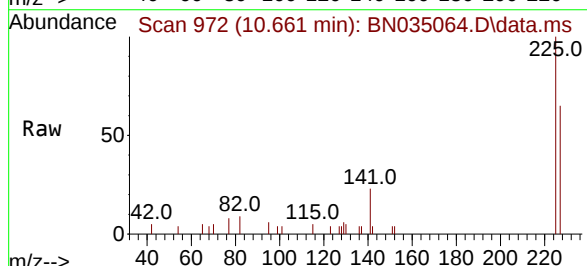
Tgt Ion:225 Resp: 2010

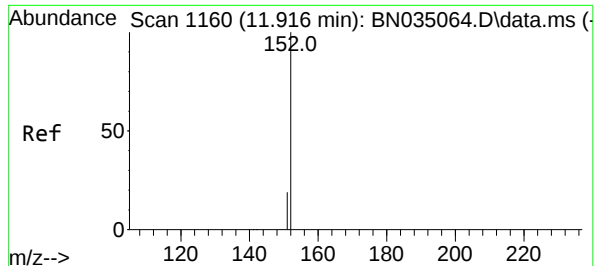
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 64.4 51.5 77.3

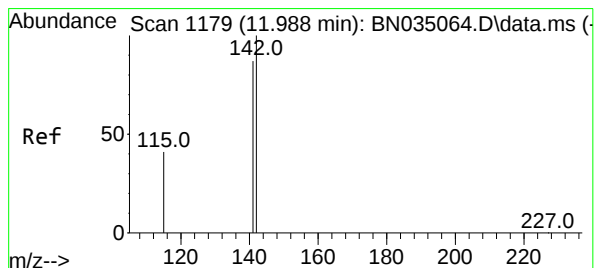
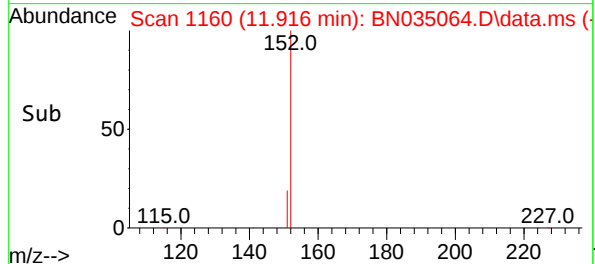
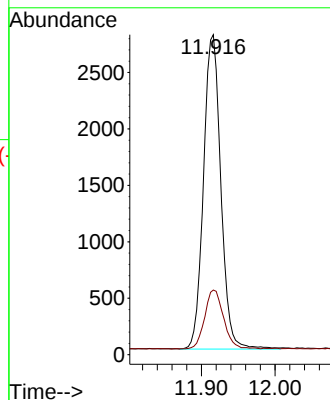
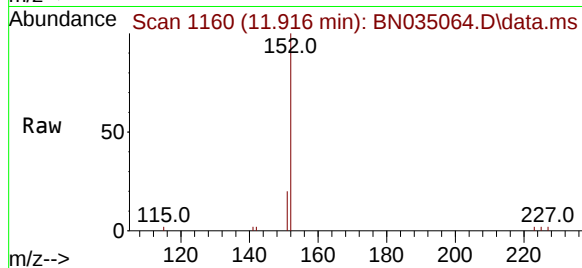




#11
2-Methylnaphthalene-d10
Concen: 0.373 ng
RT: 11.916 min Scan# 1160
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

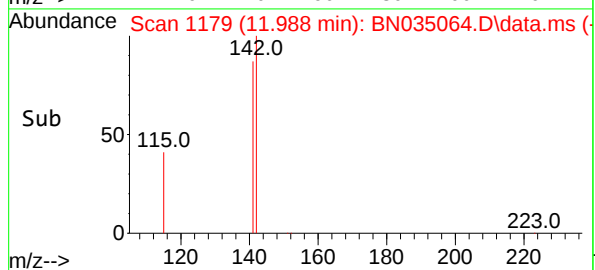
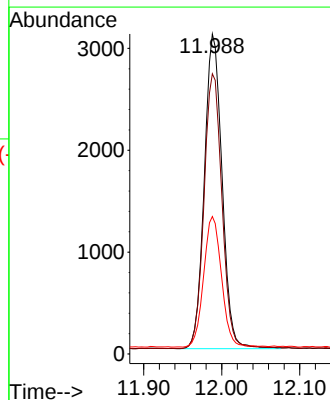
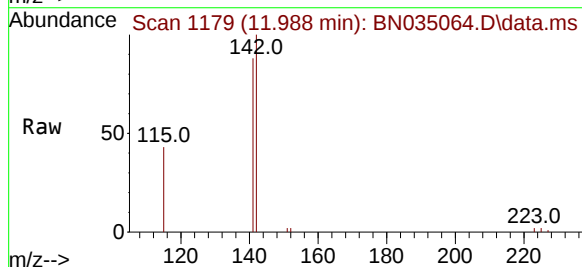
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

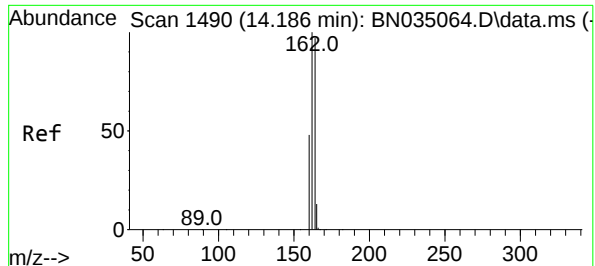
Tgt Ion:152 Resp: 4559
Ion Ratio Lower Upper
152 100
151 20.3 16.2 24.4



#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

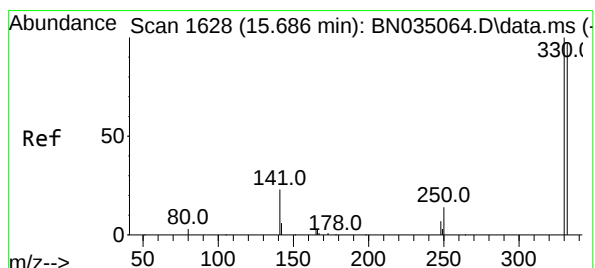
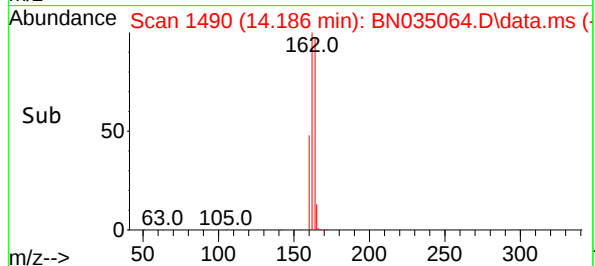
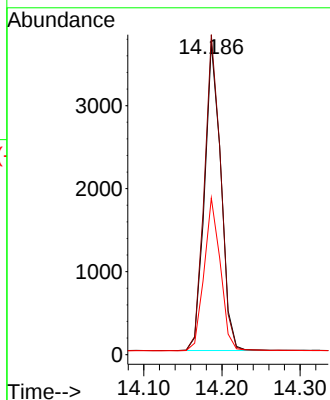
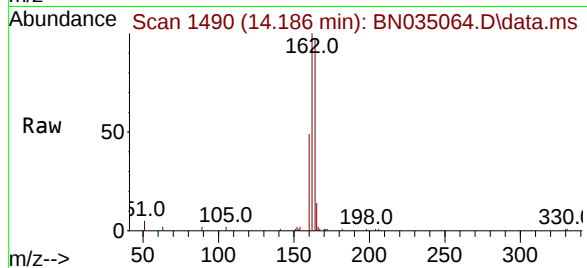




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.186 min Scan# 1490
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

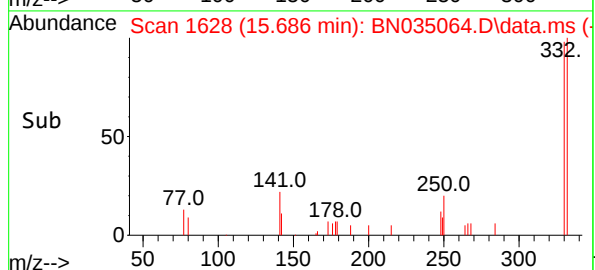
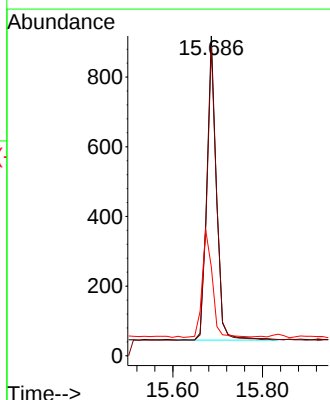
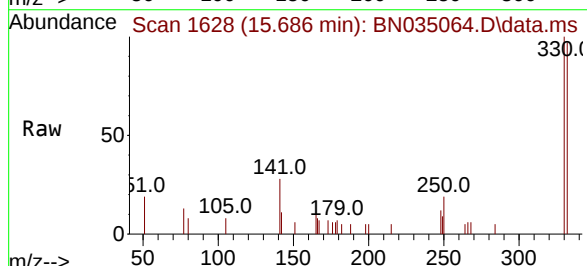
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

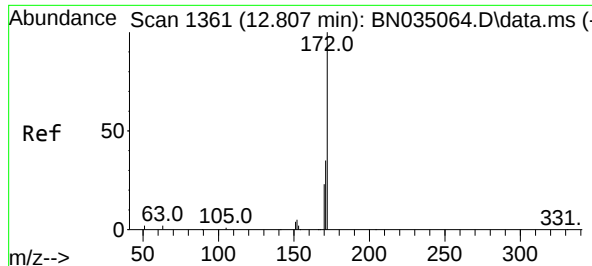
Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.7	82.2	123.2
160	50.3	40.2	60.4



#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	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

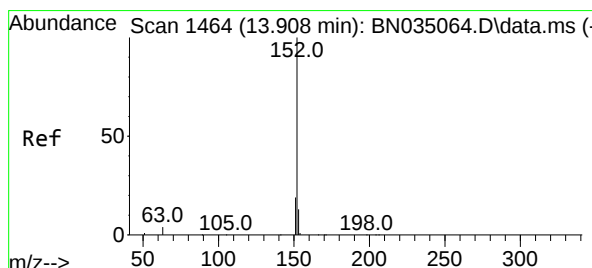
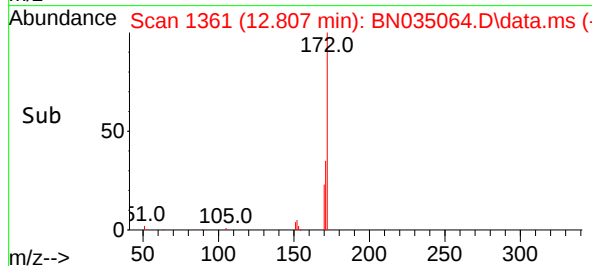
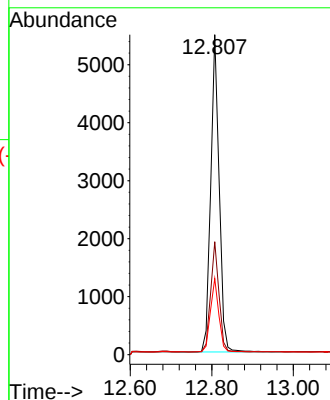
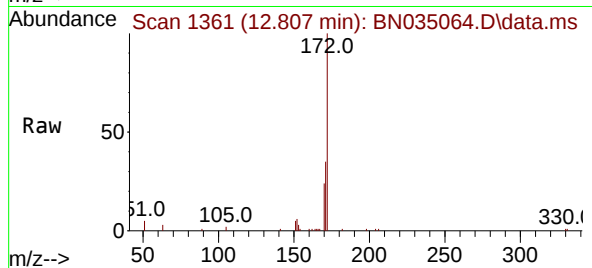
Tgt Ion:172 Resp: 7888

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

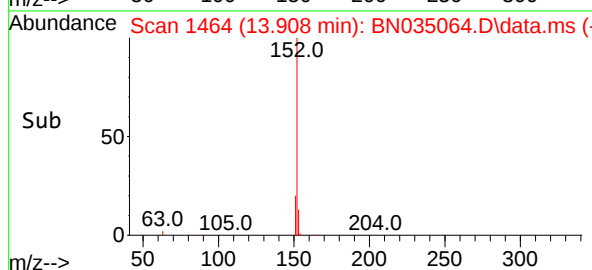
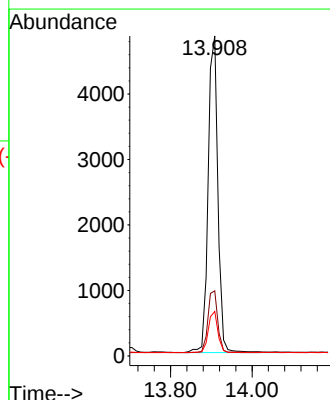
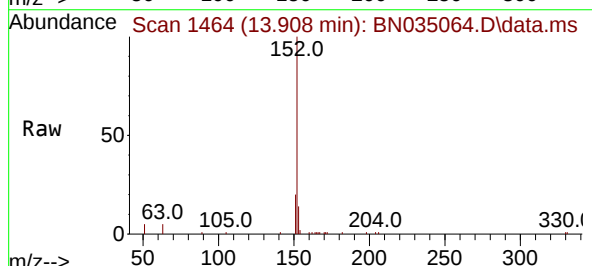
Tgt Ion:152 Resp: 8034

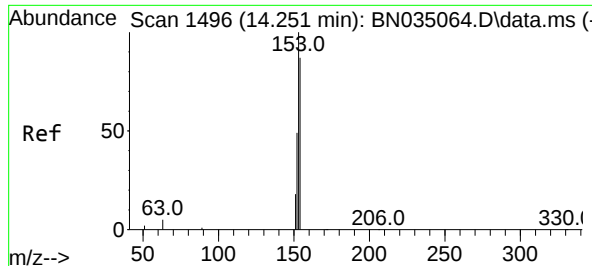
Ion Ratio Lower Upper

152 100

151 19.8 15.8 23.8

153 12.8 10.2 15.4

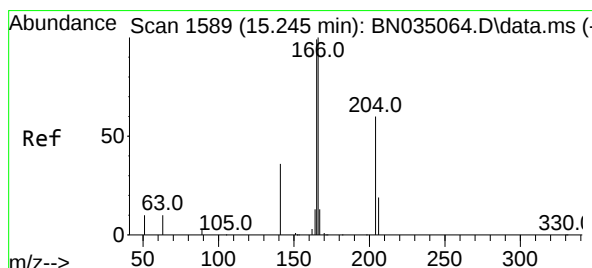
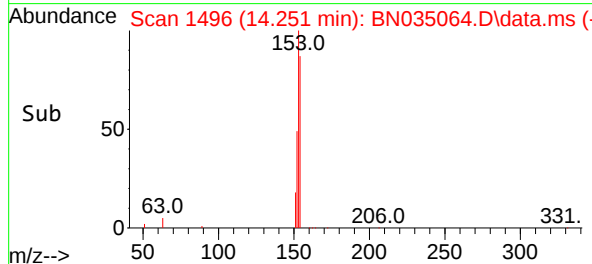
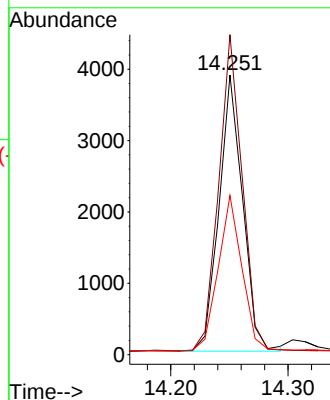
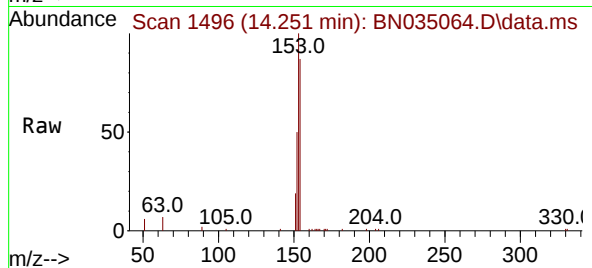




#17
Acenaphthene
Concen: 0.357 ng
RT: 14.251 min Scan# 1496
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

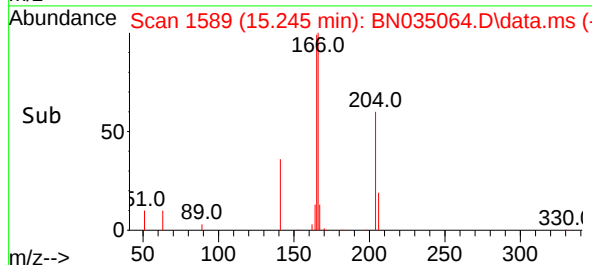
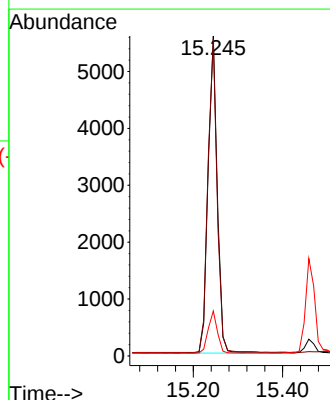
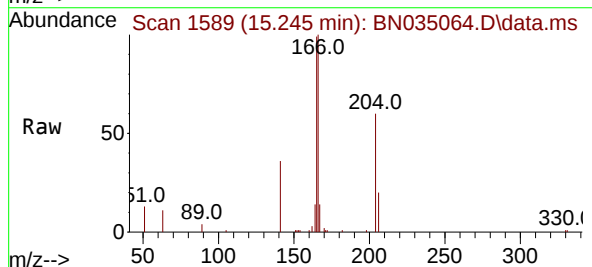
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

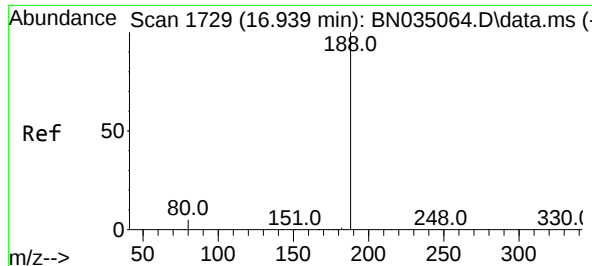
Tgt Ion:154 Resp: 5401
Ion Ratio Lower Upper
154 100
153 114.5 91.6 137.4
152 57.2 45.8 68.6



#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:166 Resp: 7900
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

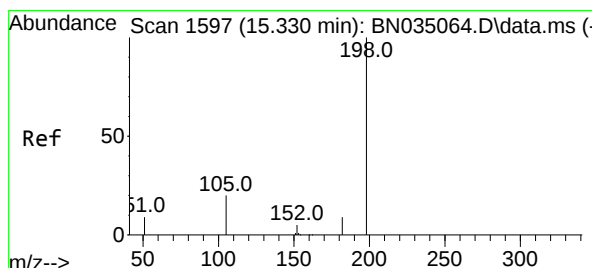
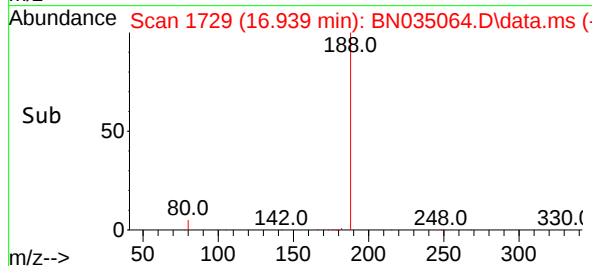
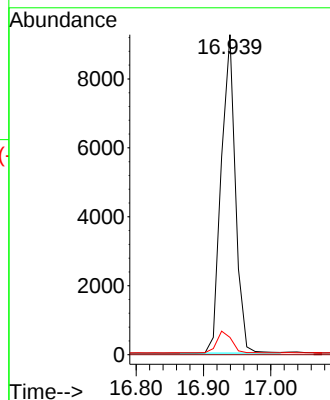
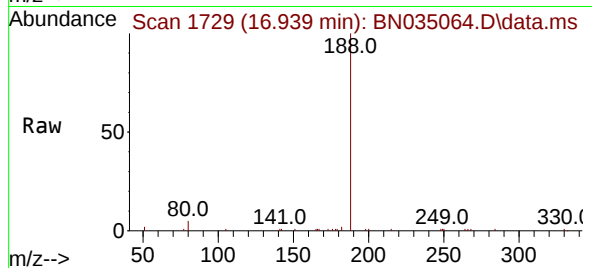
Tgt Ion:188 Resp: 13499

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

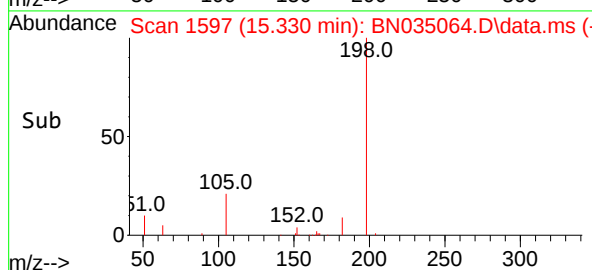
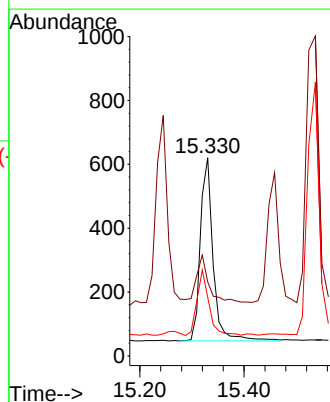
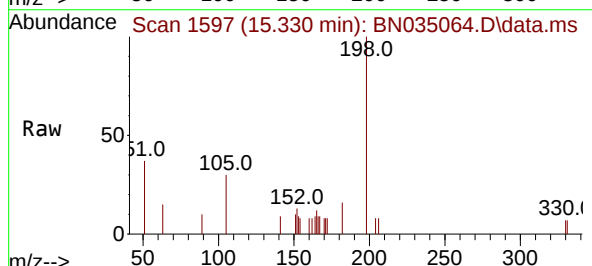
Tgt Ion:198 Resp: 979

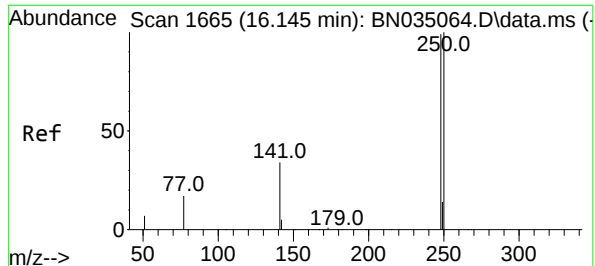
Ion Ratio Lower Upper

198 100

51 37.4 29.9 44.9

105 29.6 23.7 35.5

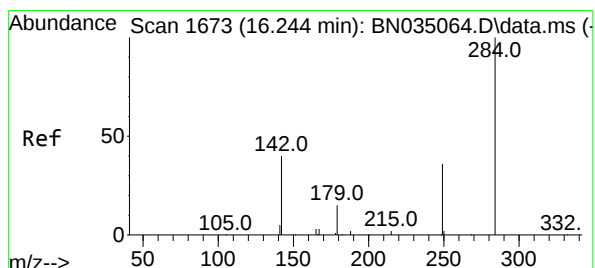
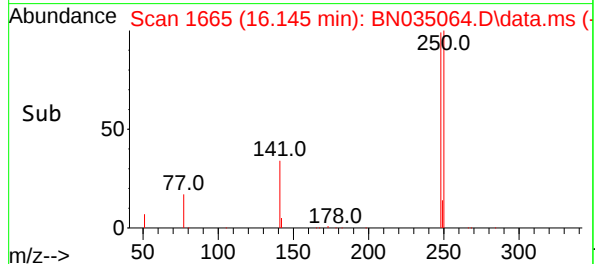
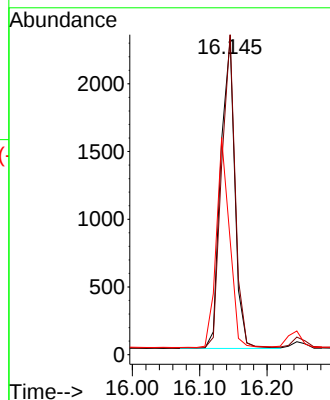
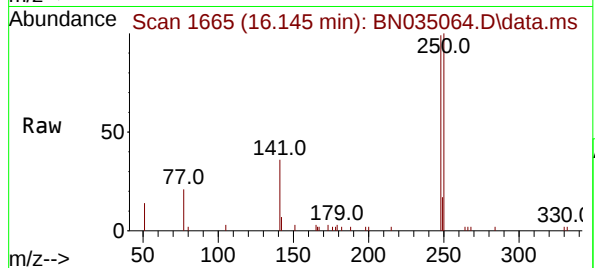




#21
4-Bromophenyl-phenylether
Concen: 0.386 ng
RT: 16.145 min Scan# 1665
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

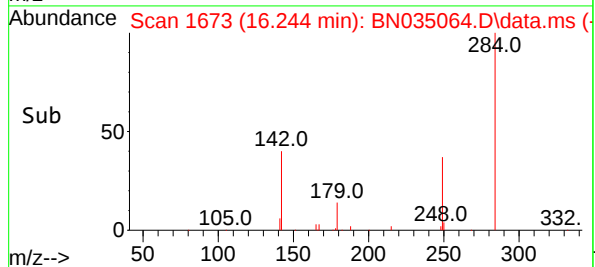
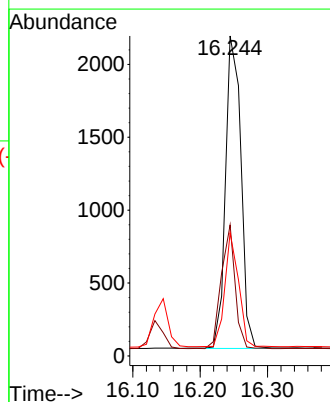
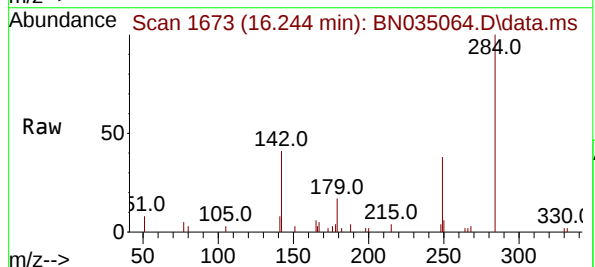
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

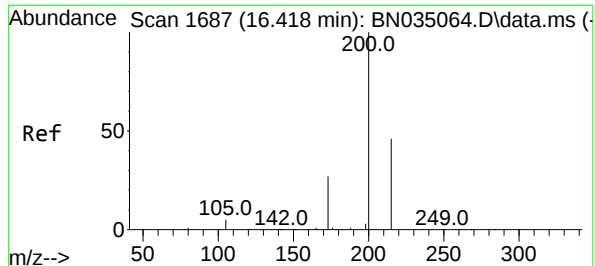
Tgt Ion	Ratio	Lower	Upper
248	100		
250	101.5	81.2	121.8
141	36.4	29.1	43.7



#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# 1

Delta R.T. 0.000 min

Lab File: BN035064.D

Acq: 13 Nov 2024 13:52

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

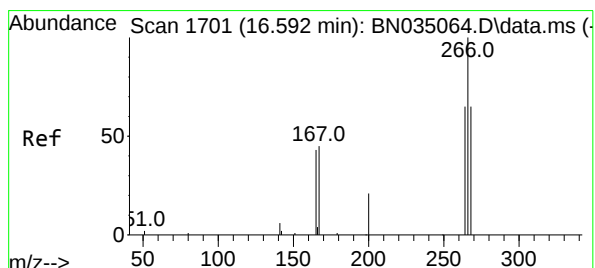
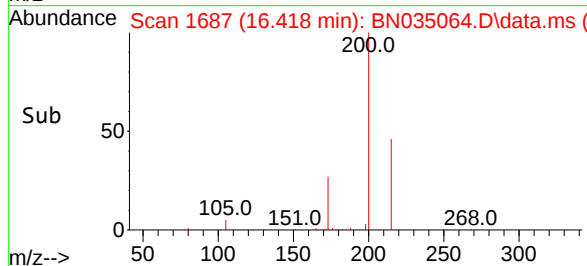
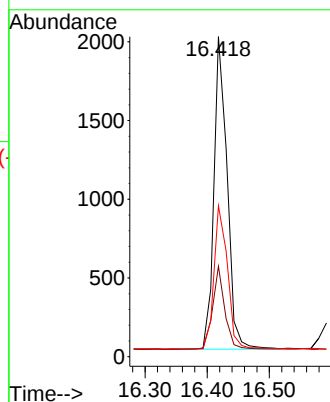
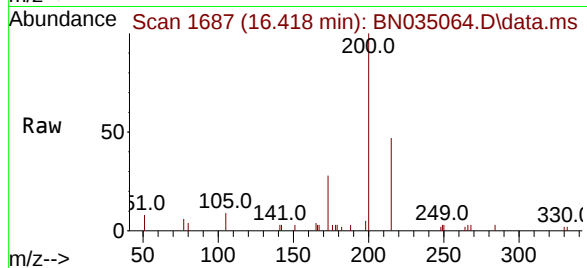
Tgt Ion:200 Resp: 2925

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

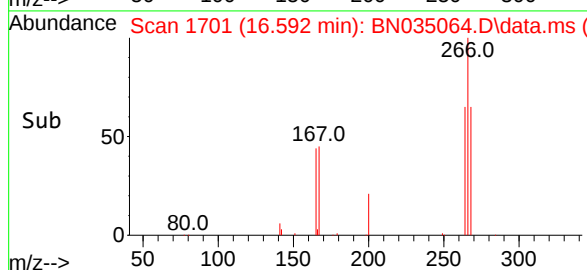
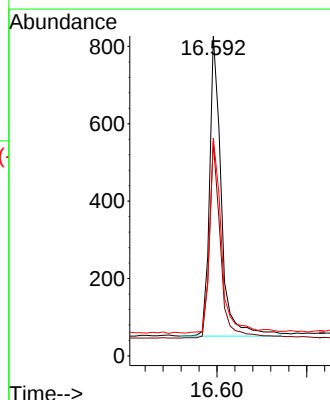
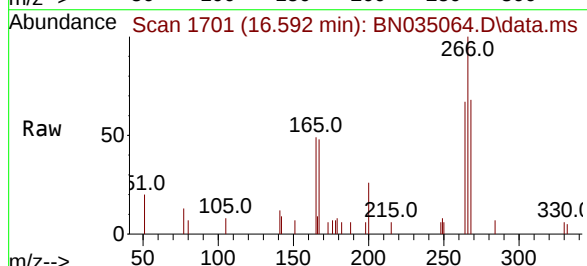
Tgt Ion:266 Resp: 1402

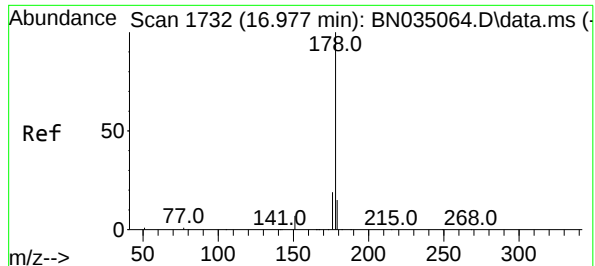
Ion Ratio Lower Upper

266 100

264 61.7 49.4 74.0

268 65.8 52.6 79.0

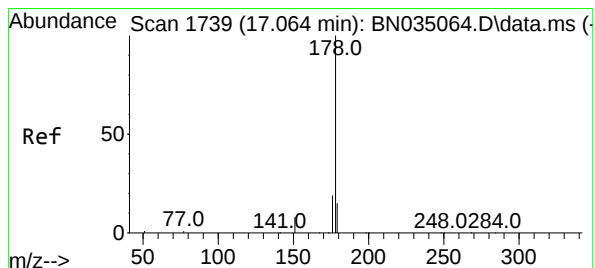
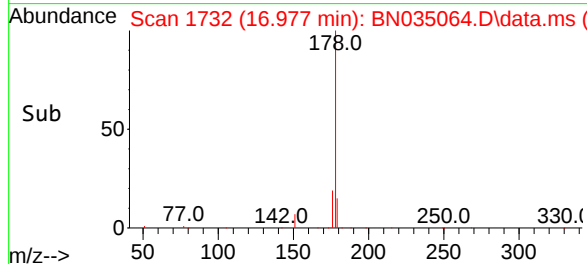
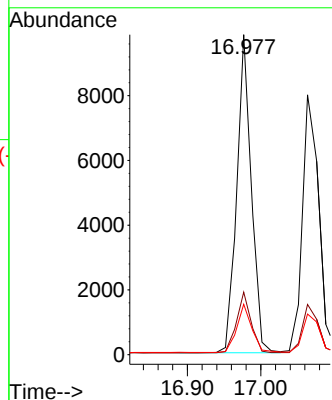
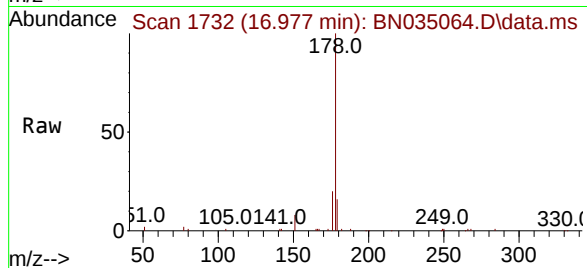




#25
Phenanthrene
Concen: 0.382 ng
RT: 16.977 min Scan# 1732
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

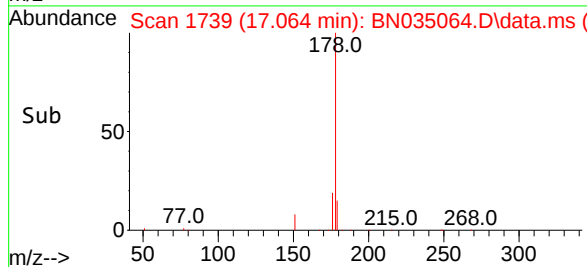
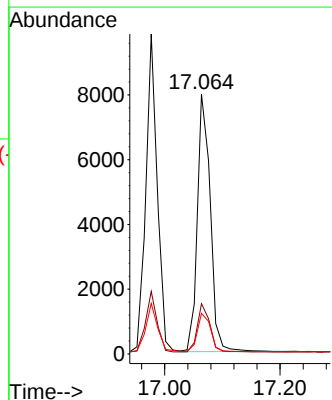
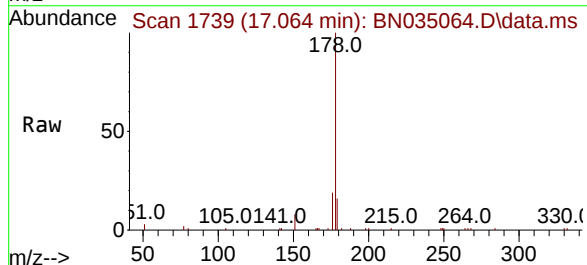
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

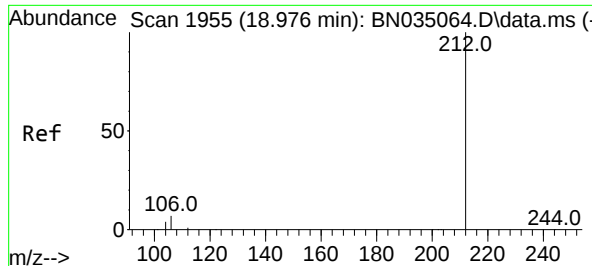
Tgt Ion:178 Resp: 13558
Ion Ratio Lower Upper
178 100
176 19.0 15.2 22.8
179 15.7 12.6 18.8



#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

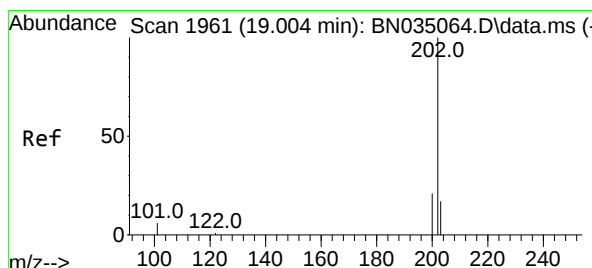
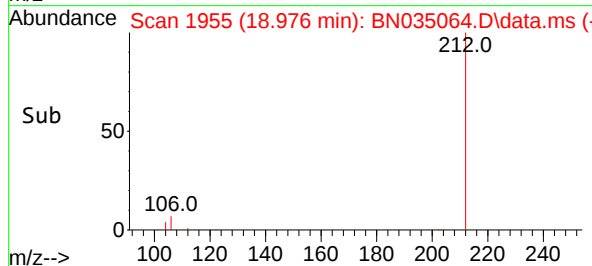
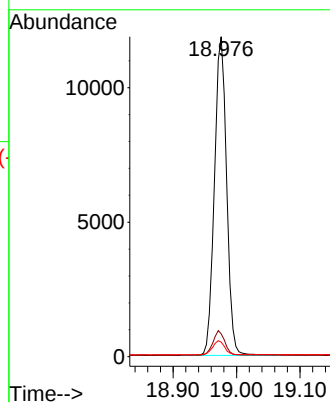
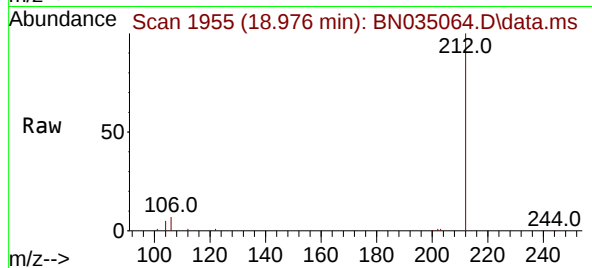
Tgt Ion:212 Resp: 15786

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

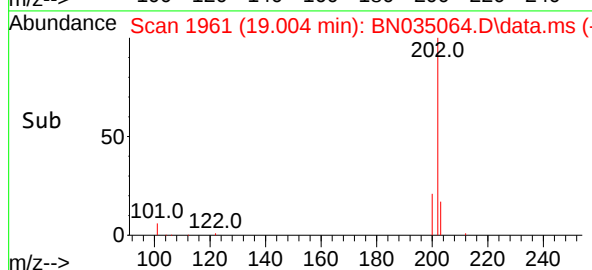
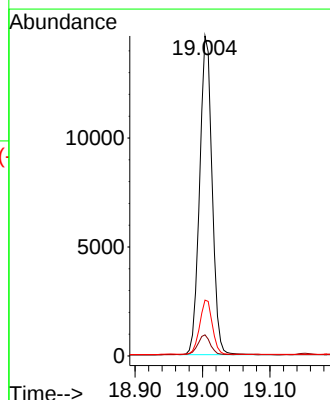
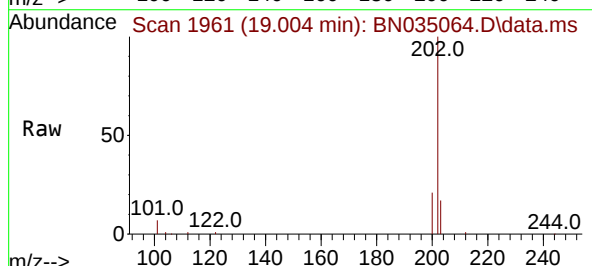
Tgt Ion:202 Resp: 18716

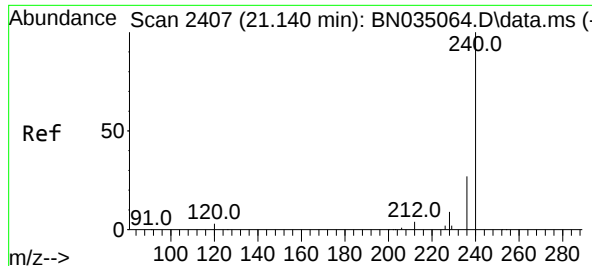
Ion Ratio Lower Upper

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

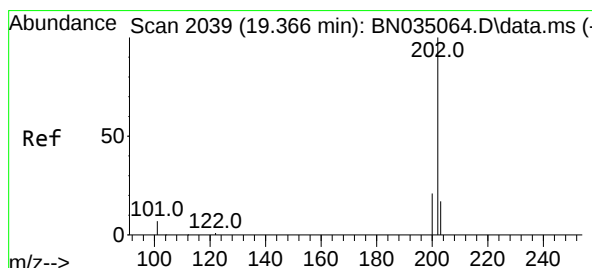
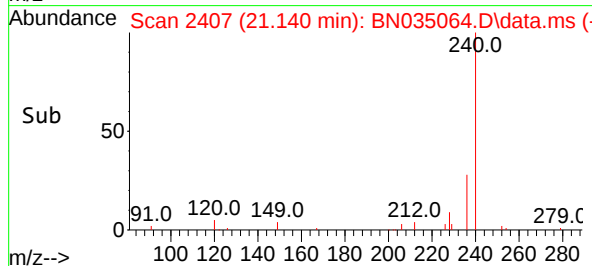
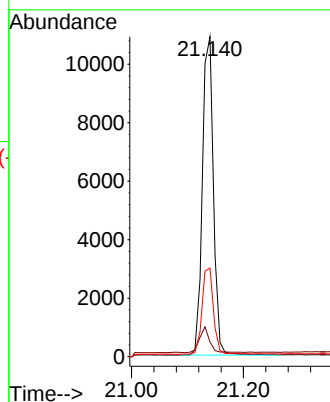
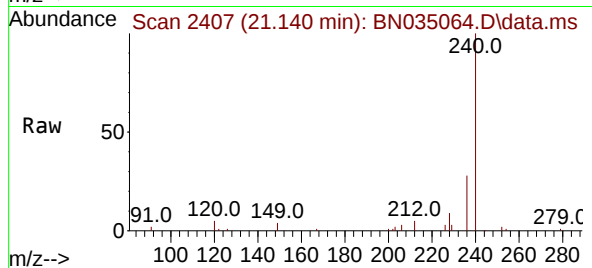
Tgt Ion:240 Resp: 14946

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

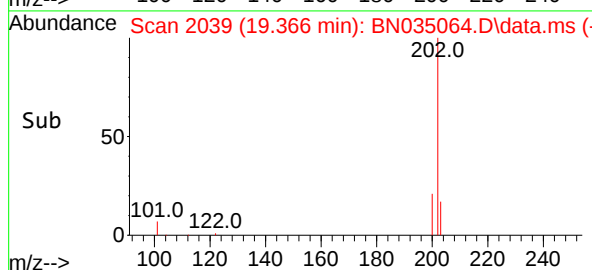
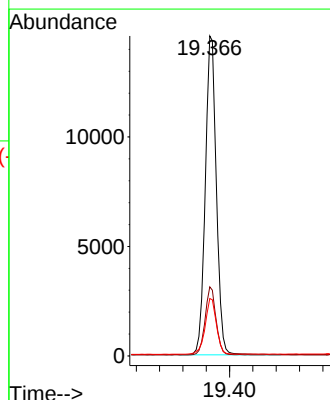
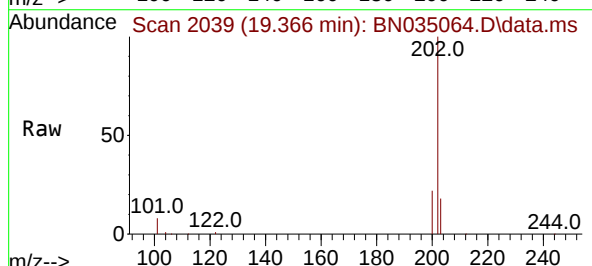
Tgt Ion:202 Resp: 19252

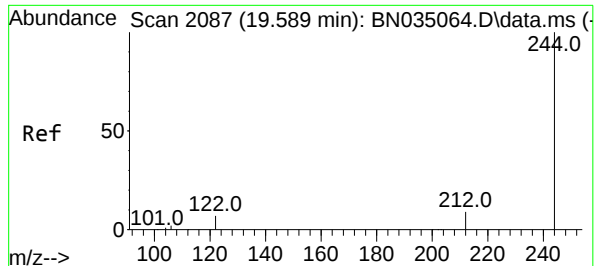
Ion Ratio Lower Upper

202 100

200 20.9 16.7 25.1

203 17.8 14.2 21.4

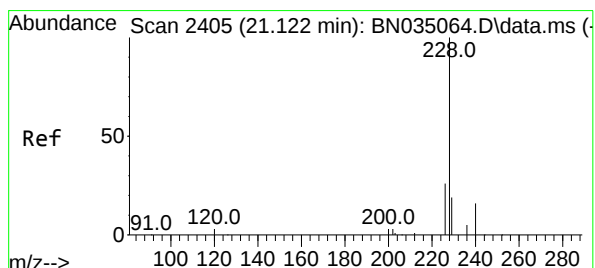
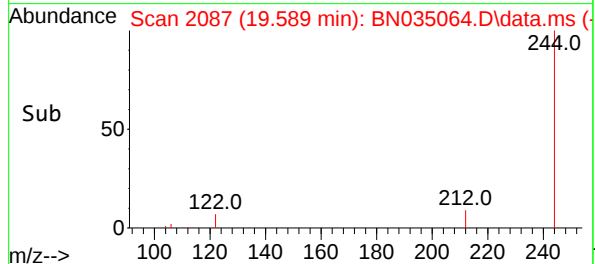
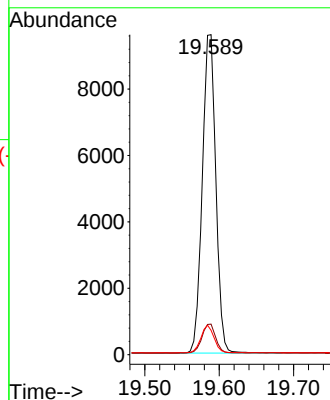
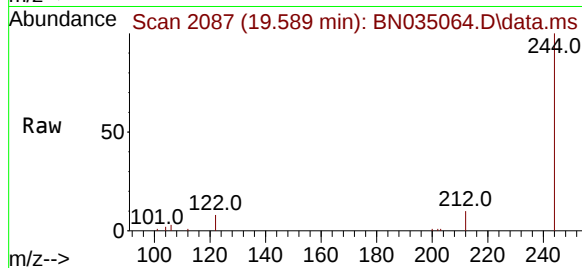




#31
Terphenyl-d14
Concen: 0.386 ng
RT: 19.589 min Scan# 2087
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

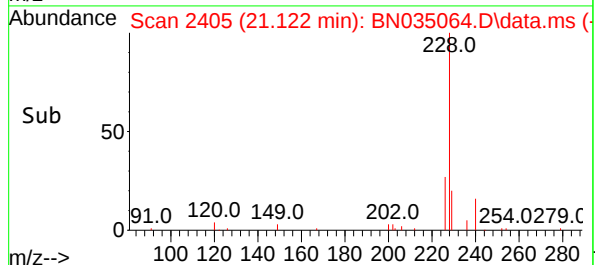
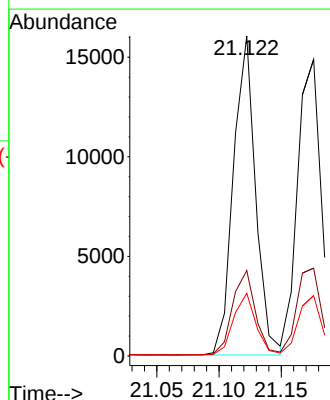
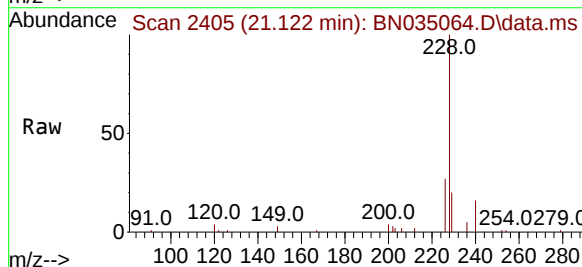
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

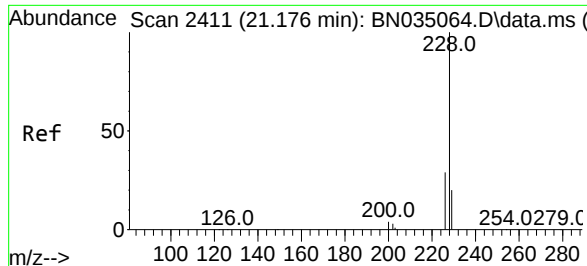
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.5	7.6	11.4
122	7.6	6.1	9.1



#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	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

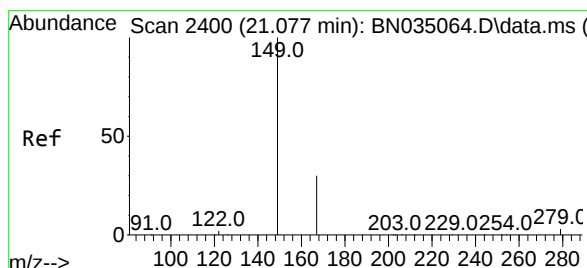
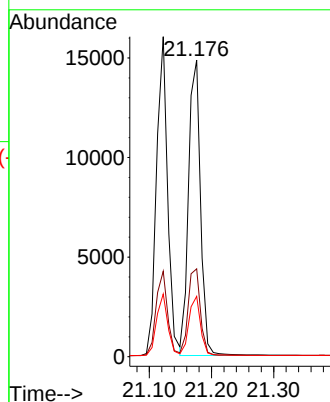
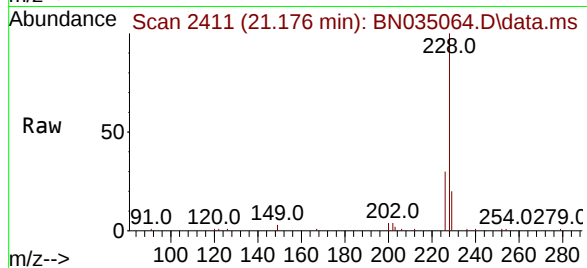
Tgt Ion:228 Resp: 19908

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

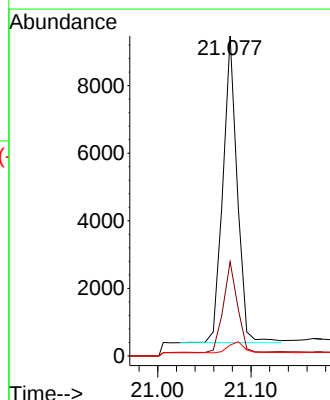
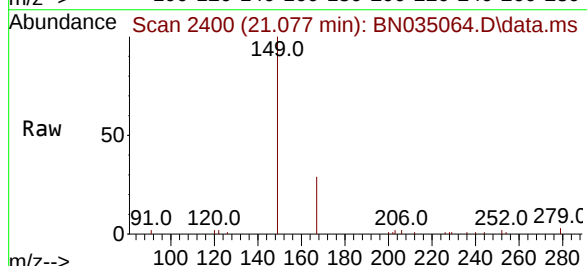
Tgt Ion:149 Resp: 9671

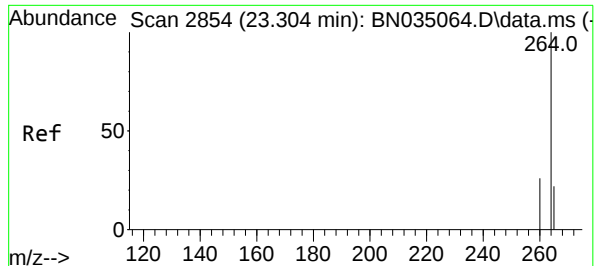
Ion Ratio Lower Upper

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

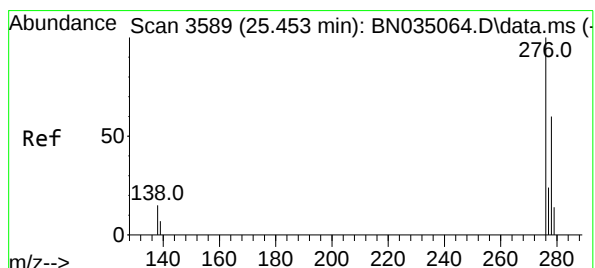
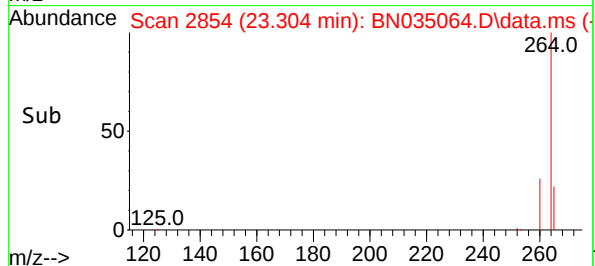
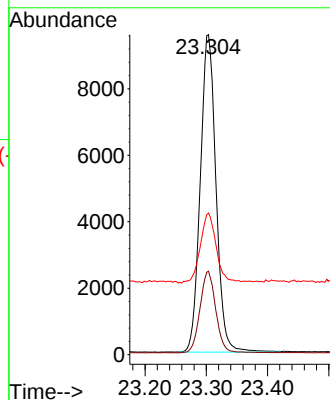
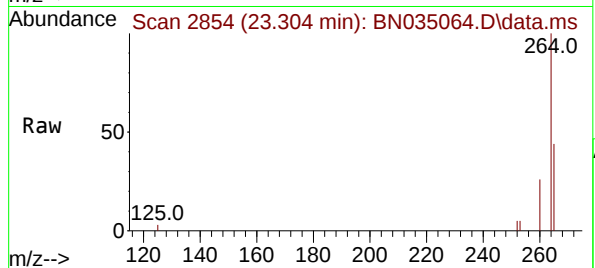
Tgt Ion:264 Resp: 17077

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

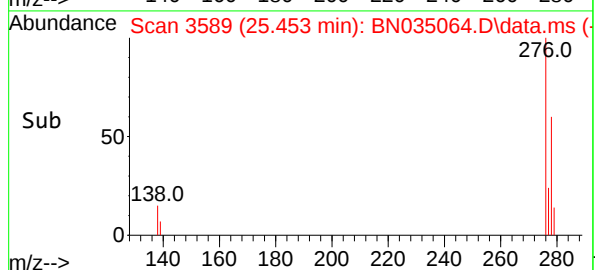
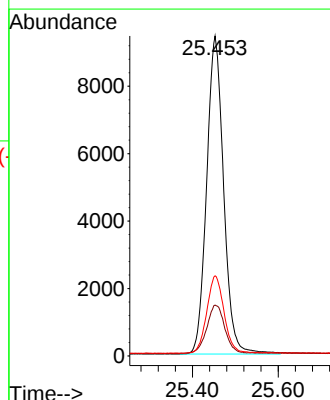
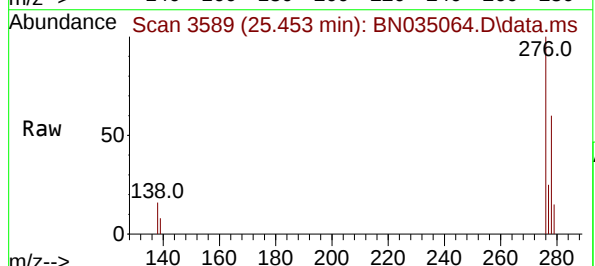
Tgt Ion:276 Resp: 25986

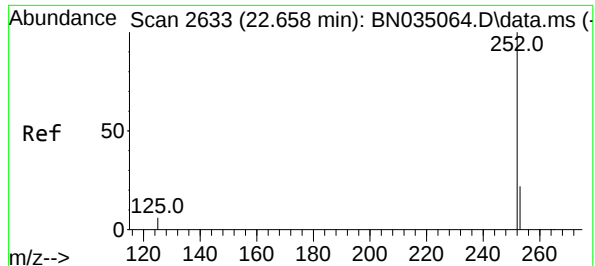
Ion Ratio Lower Upper

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

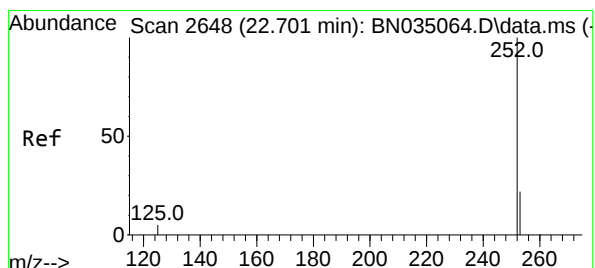
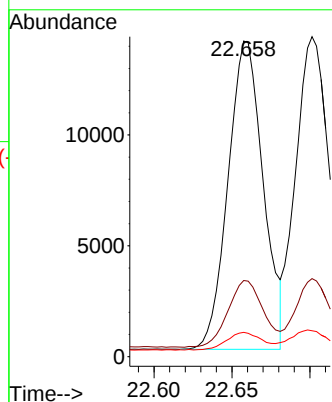
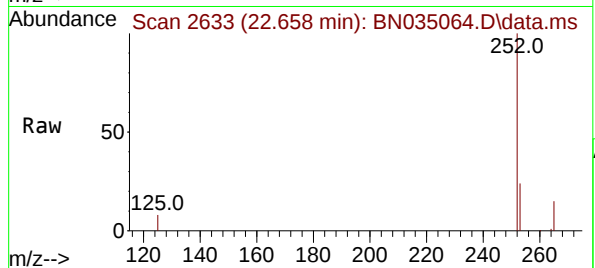
Tgt Ion:252 Resp: 21843

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

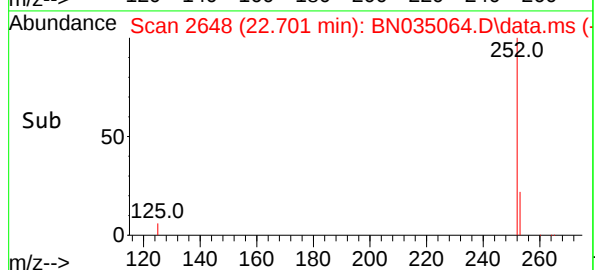
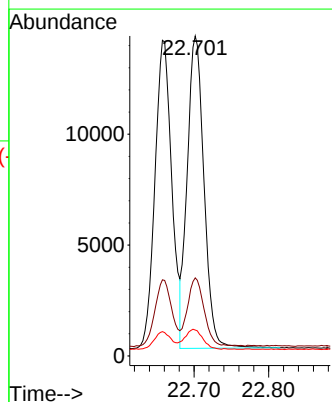
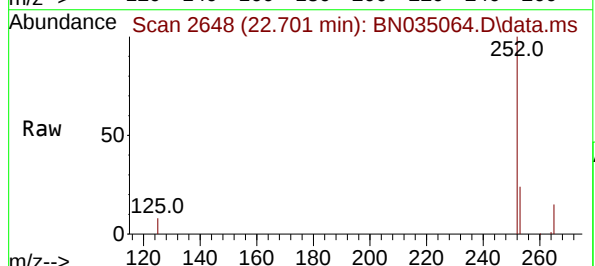
Tgt Ion:252 Resp: 21977

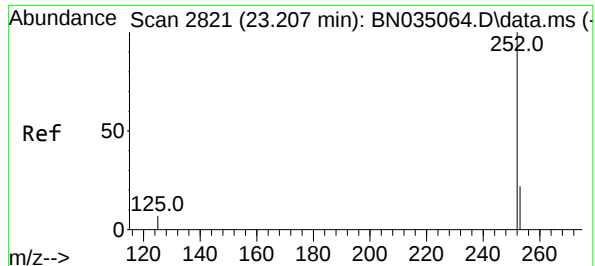
Ion Ratio Lower Upper

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

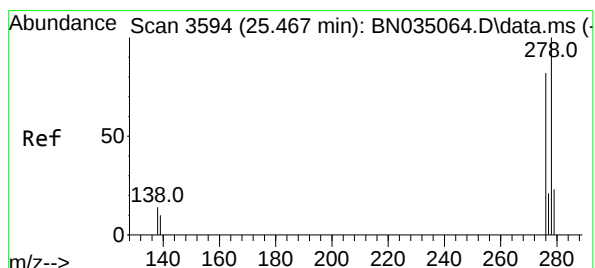
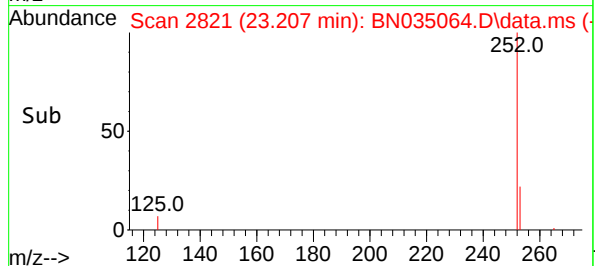
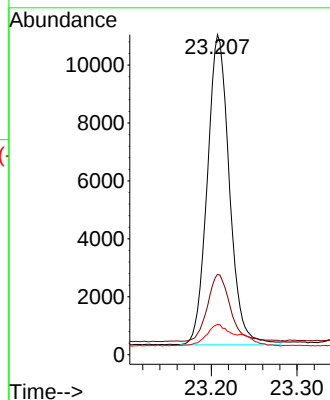
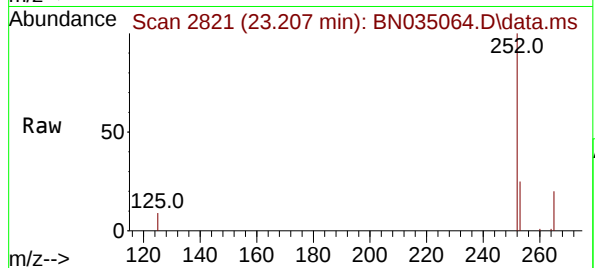
Tgt Ion:252 Resp: 19170

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

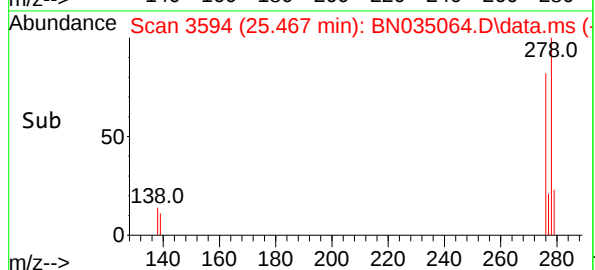
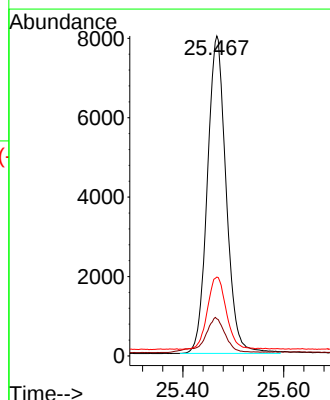
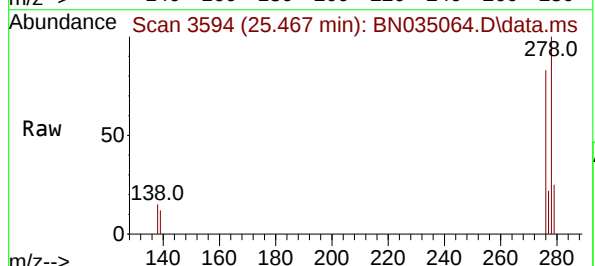
Tgt Ion:278 Resp: 20655

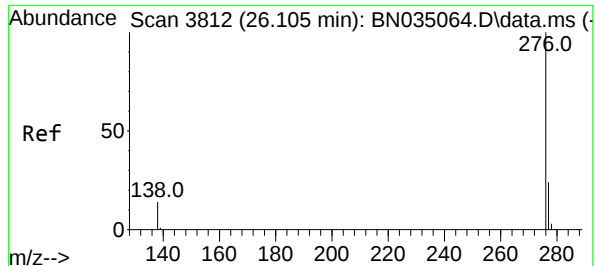
Ion Ratio Lower Upper

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

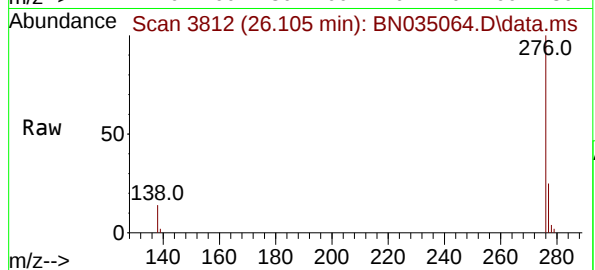
Acq: 13 Nov 2024 13:52

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4



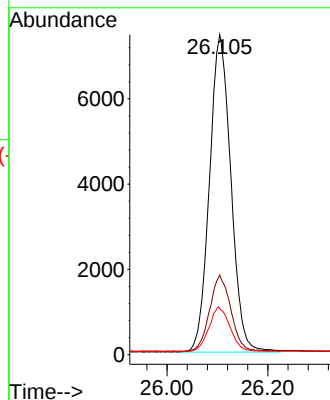
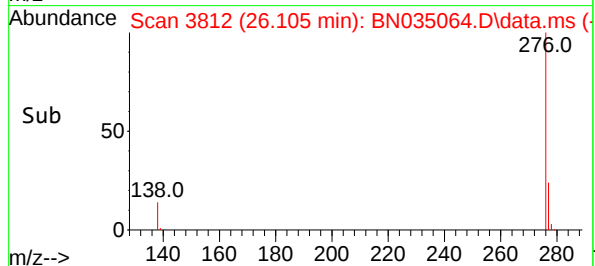
Tgt Ion:276 Resp: 21955

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

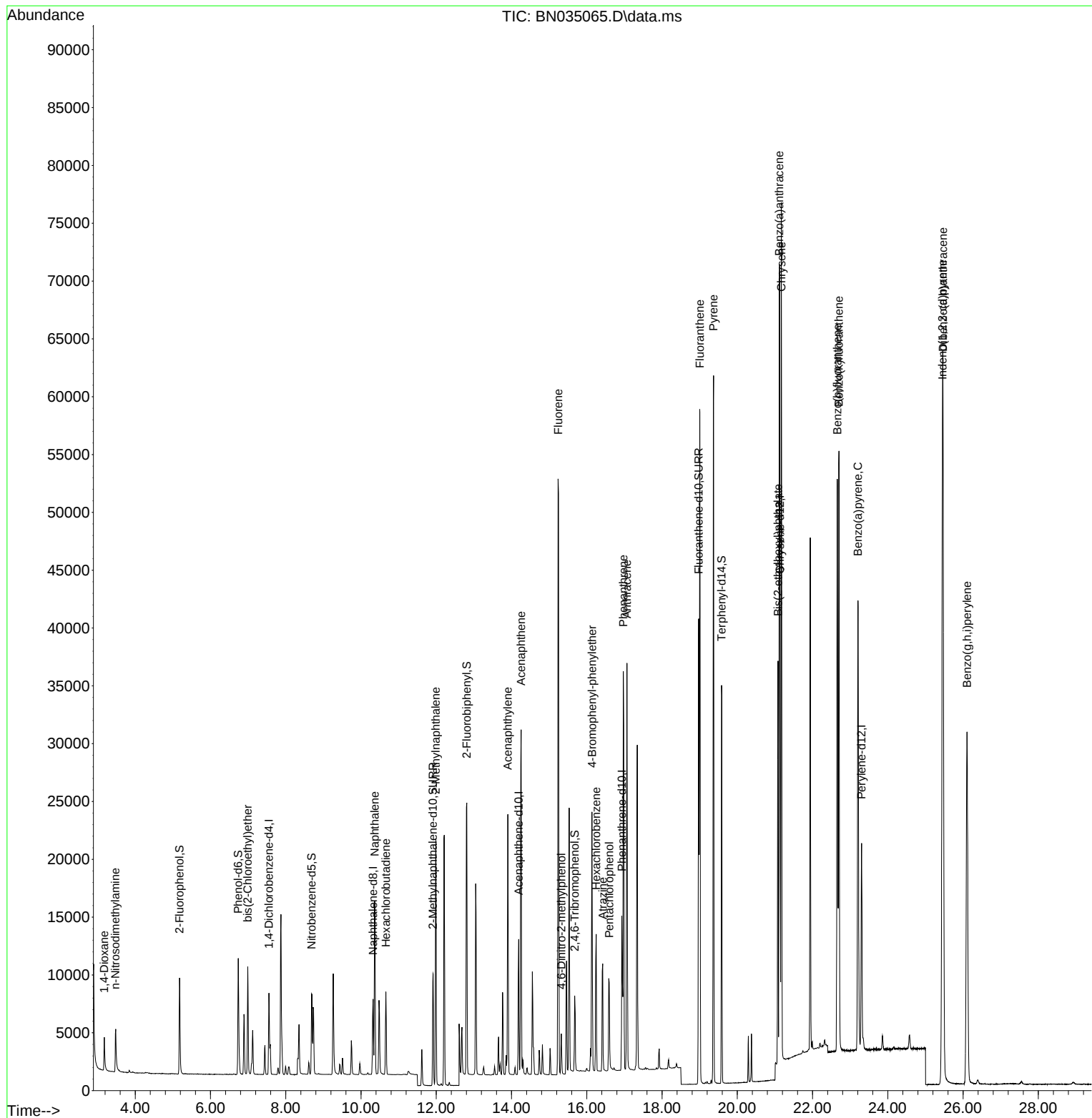
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.553	152	3429	0.400	ng	0.00
7) Naphthalene-d8	10.319	136	8612	0.400	ng	0.00
13) Acenaphthene-d10	14.190	164	6454	0.400	ng	0.00
19) Phenanthrene-d10	16.933	188	17302	0.400	ng	# 0.00
29) Chrysene-d12	21.134	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						
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

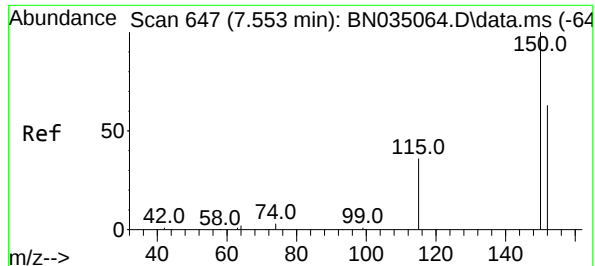
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

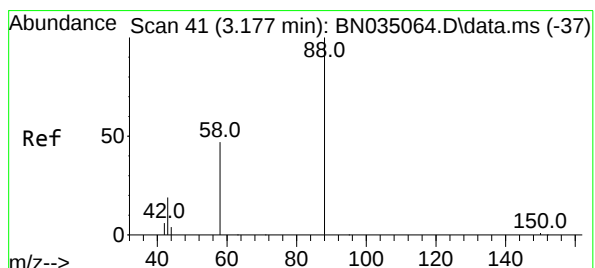
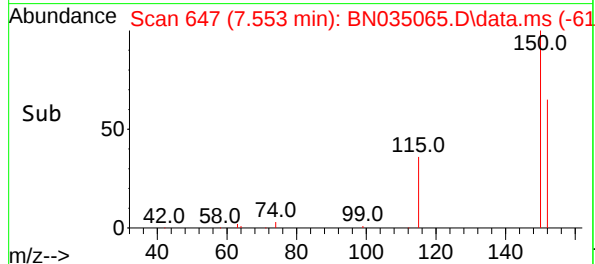
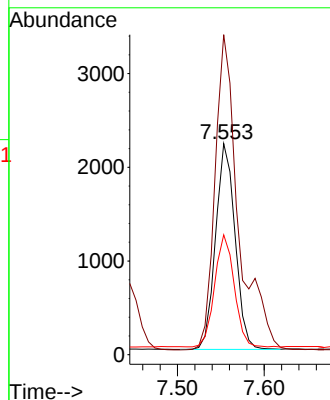
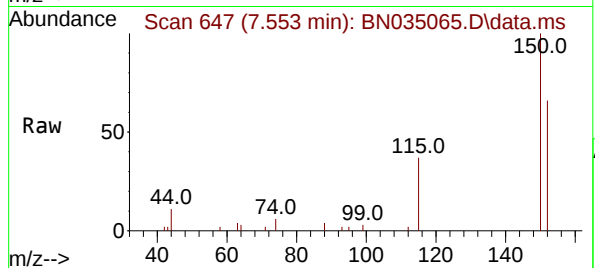




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.553 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

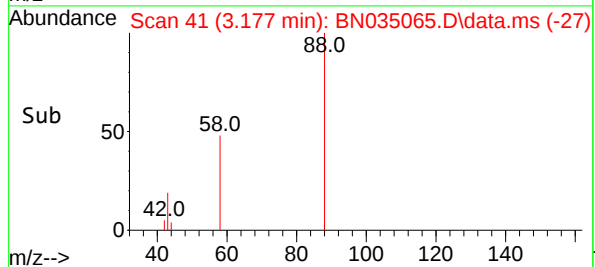
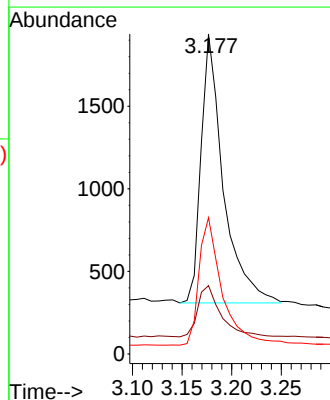
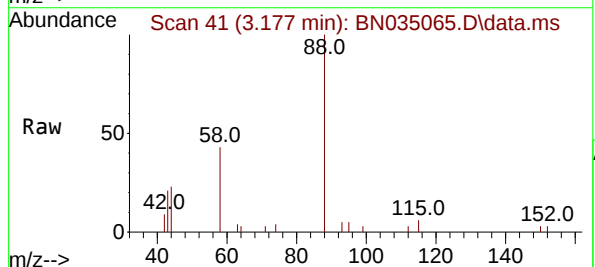
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

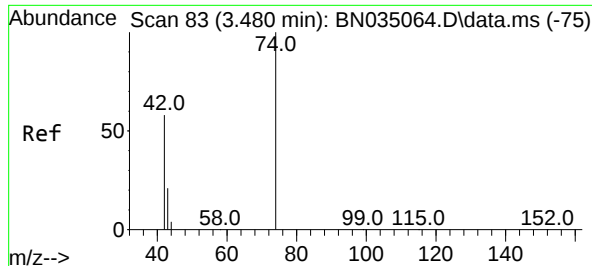
Tgt Ion:152 Resp: 3429
Ion Ratio Lower Upper
152 100
150 151.6 124.5 186.7
115 56.8 47.8 71.6



#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

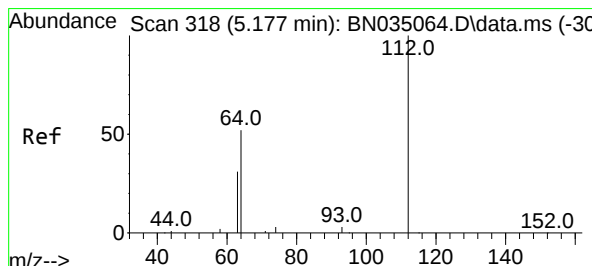
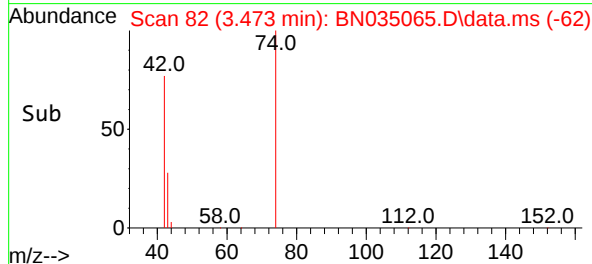
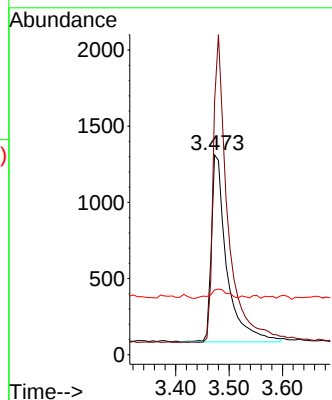
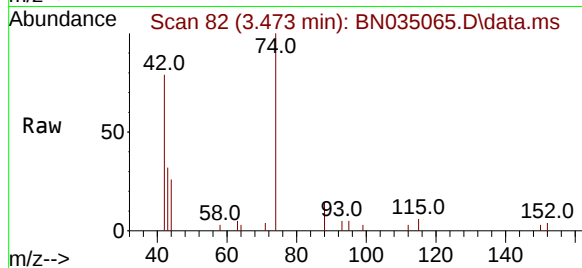




#3
n-Nitrosodimethylamine
Concen: 0.853 ng
RT: 3.473 min Scan# 81
Delta R.T. -0.007 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

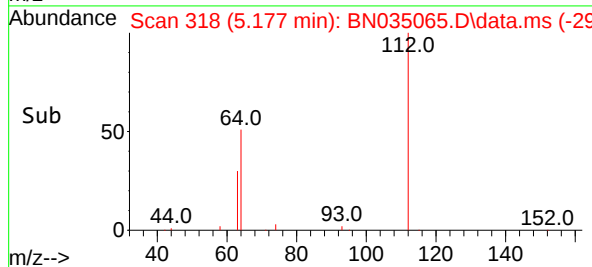
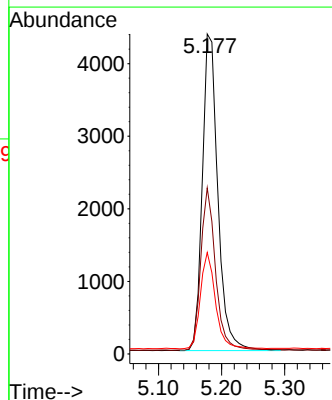
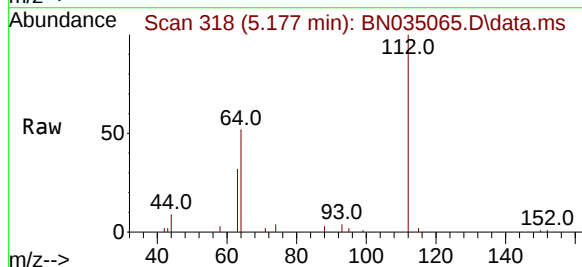
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

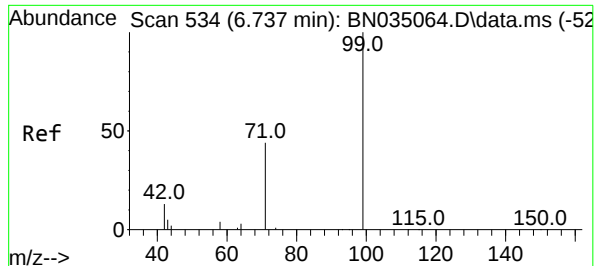
Tgt Ion: 42 Resp: 2466
Ion Ratio Lower Upper
42 100
74 155.8 120.8 181.2
44 5.4 2.9 4.3#



#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

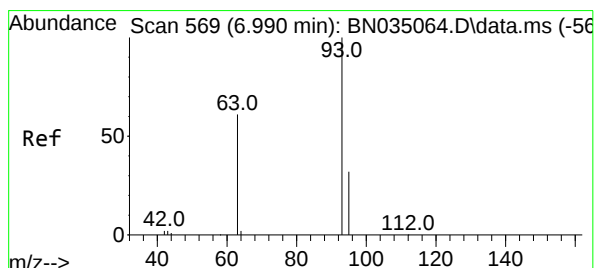
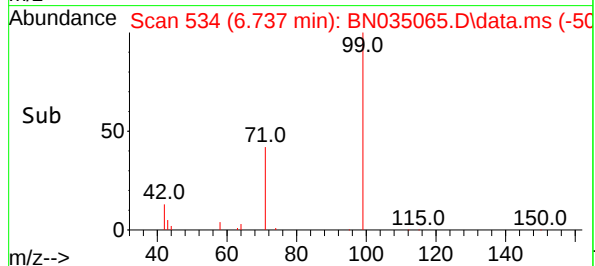
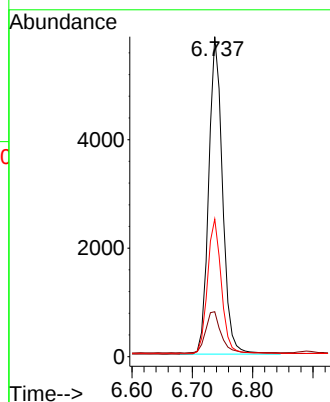
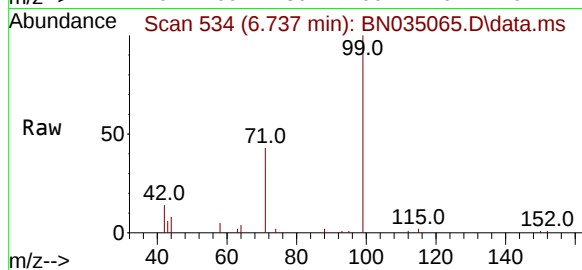
Tgt Ion: 99 Resp: 9293

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

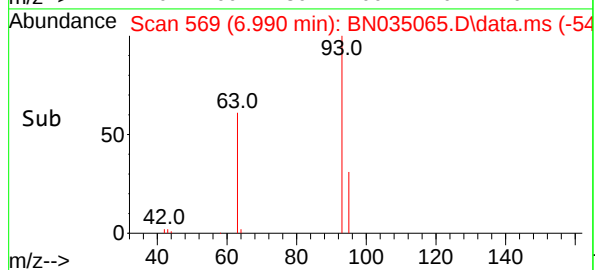
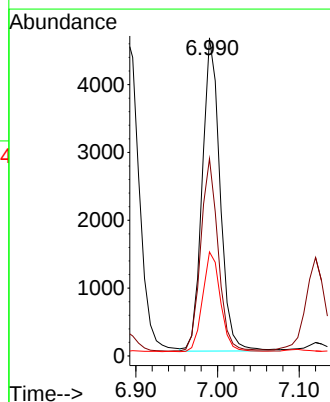
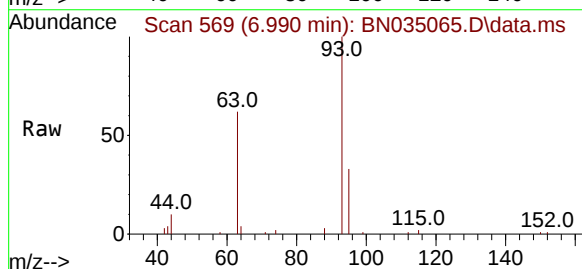
Tgt Ion: 93 Resp: 7043

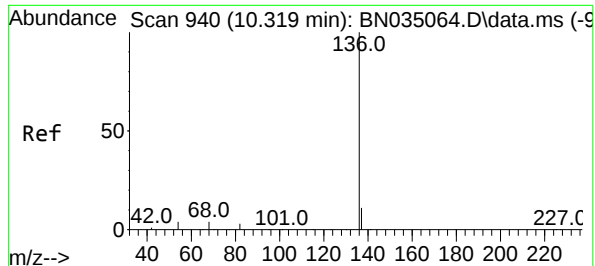
Ion Ratio Lower Upper

93 100

63 60.1 47.4 71.2

95 31.8 26.2 39.4

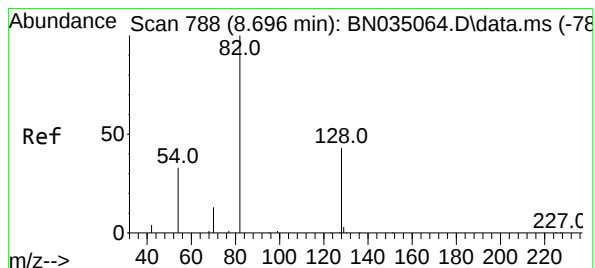
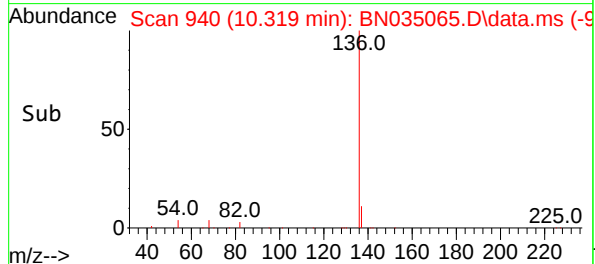
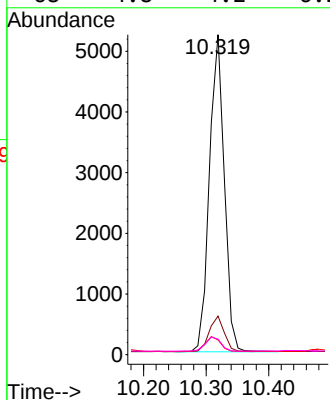
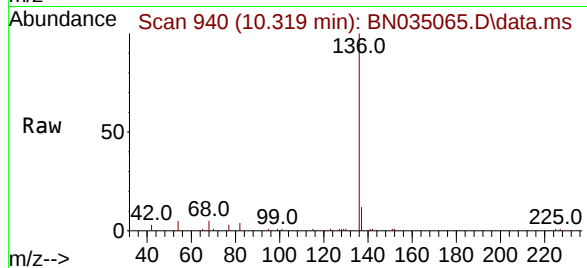




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.319 min Scan# 940
Delta R.T. 0.000 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

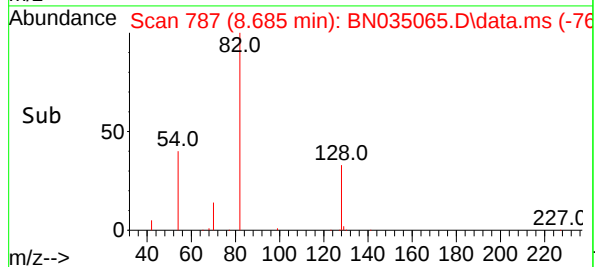
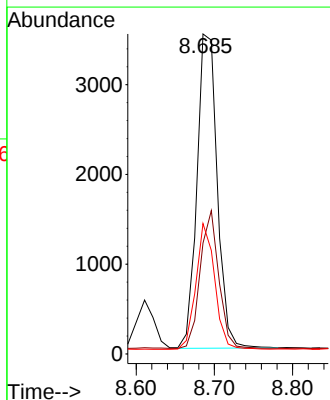
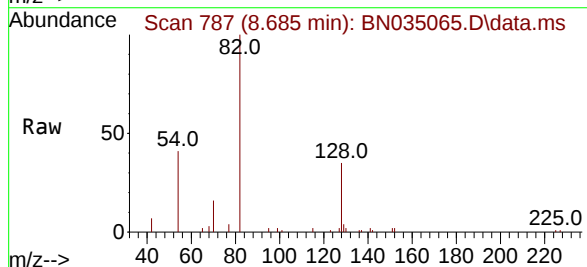
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

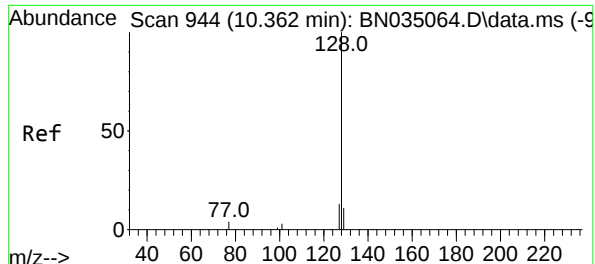
Tgt Ion:	136	Resp:	8612
Ion	Ratio	Lower	Upper
136	100		
137	12.1	9.8	14.8
54	4.6	4.0	6.0
68	4.8	4.2	6.2



#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

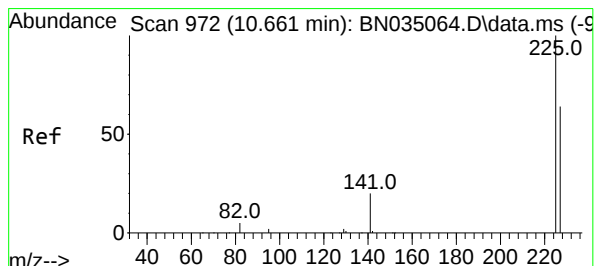
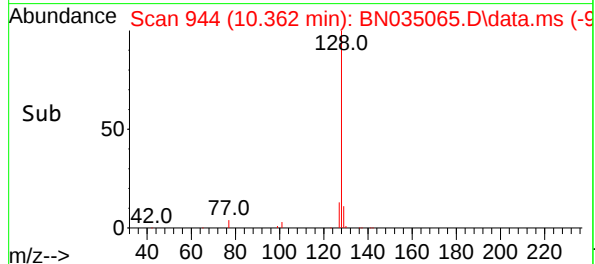
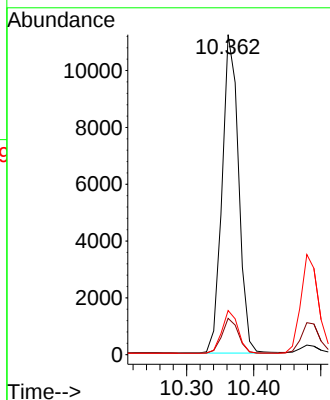
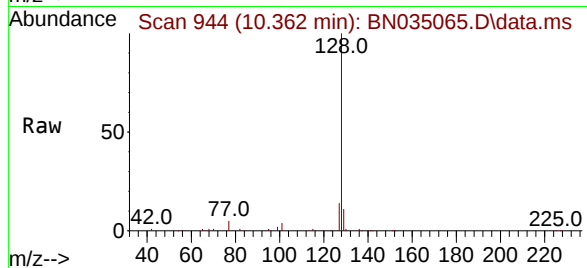




#9
Naphthalene
Concen: 0.855 ng
RT: 10.362 min Scan# 944
Delta R.T. 0.000 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

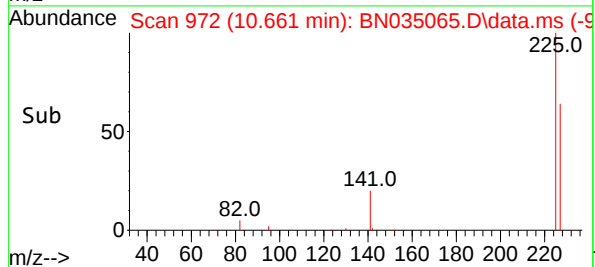
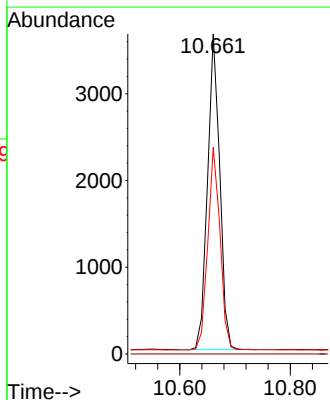
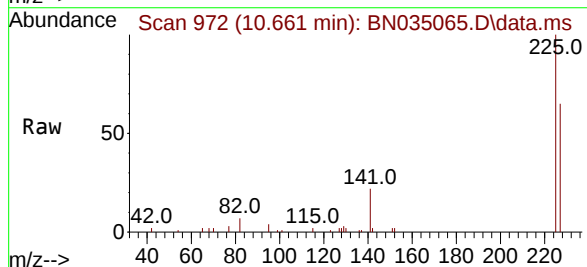
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

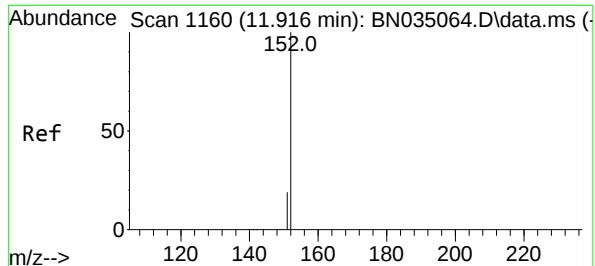
Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.4	9.6	14.4
127	13.8	11.6	17.4



#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

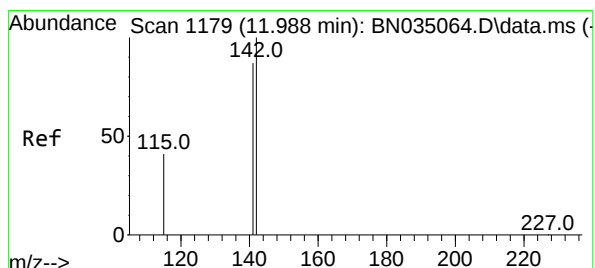
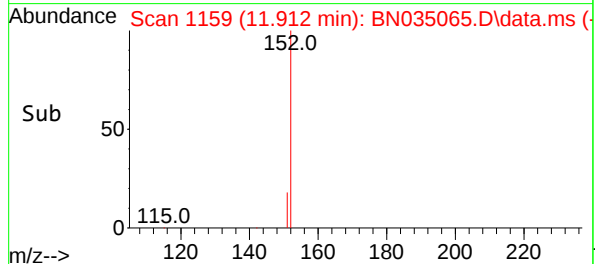
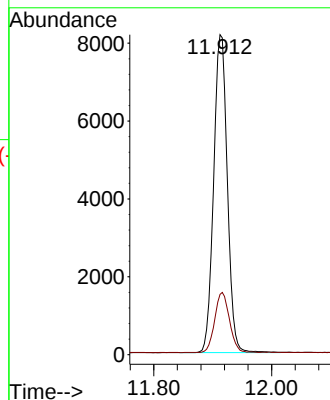
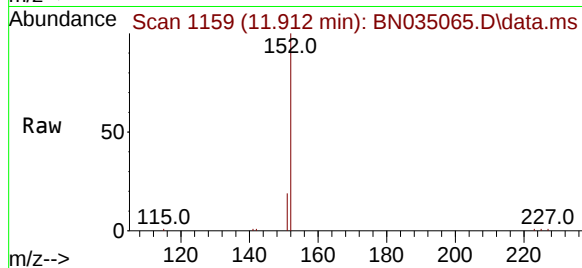




#11
2-Methylnaphthalene-d10
Concen: 0.855 ng
RT: 11.912 min Scan# 1159
Delta R.T. -0.004 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

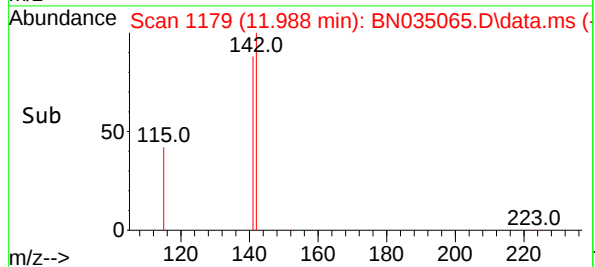
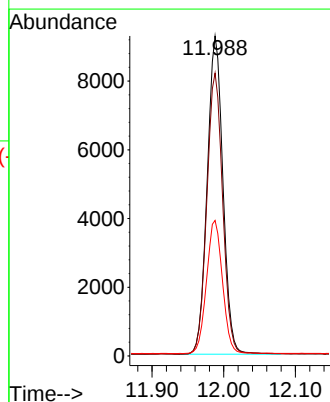
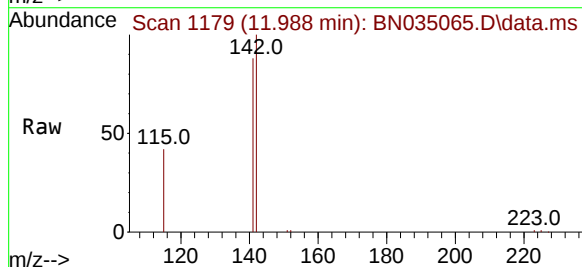
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

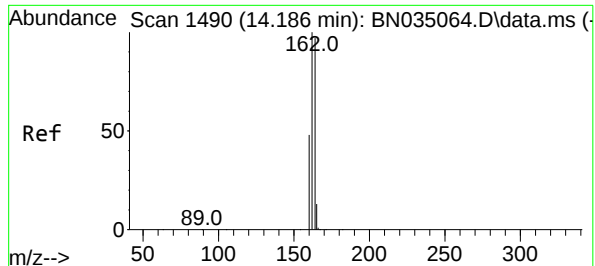
Tgt Ion:152 Resp: 13119
Ion Ratio Lower Upper
152 100
151 20.3 16.2 24.4



#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

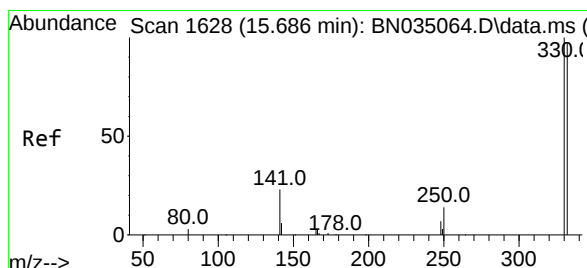
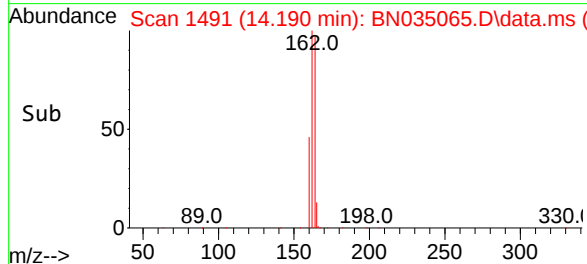
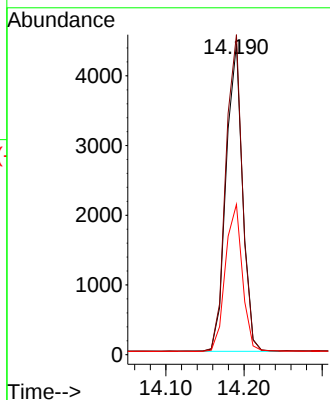
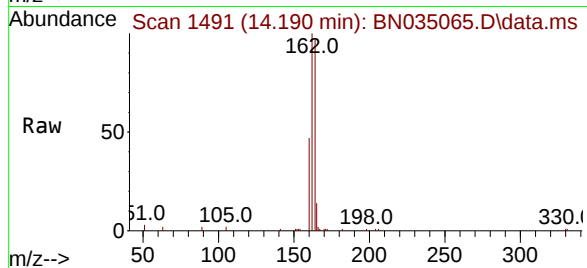




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.190 min Scan# 1490
Delta R.T. 0.004 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

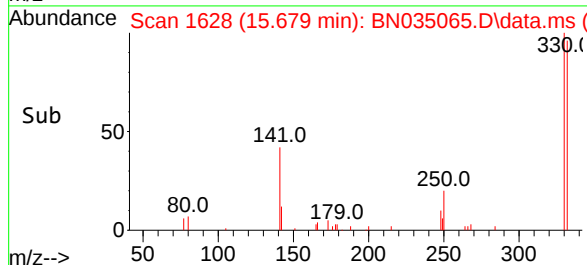
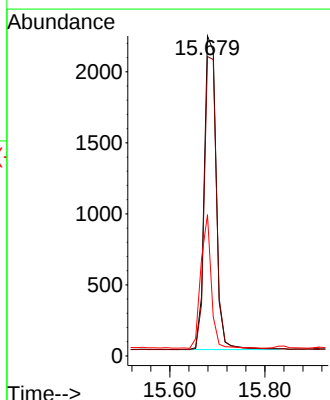
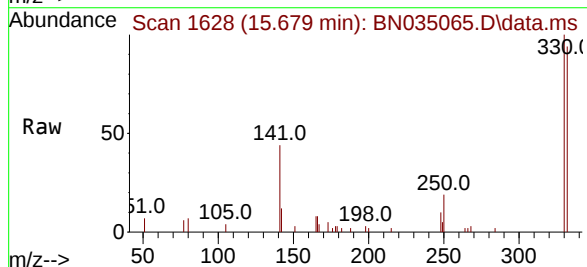
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

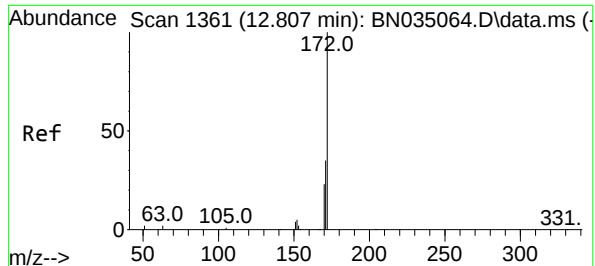
Tgt Ion:164 Resp: 6454
Ion Ratio Lower Upper
164 100
162 102.9 82.2 123.2
160 48.3 40.2 60.4



#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

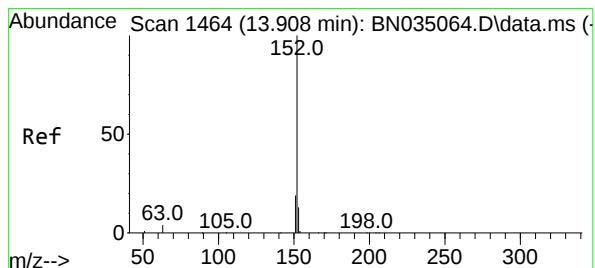
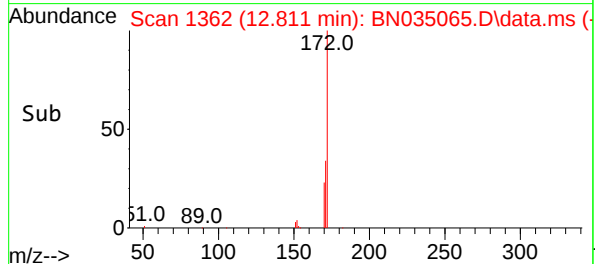
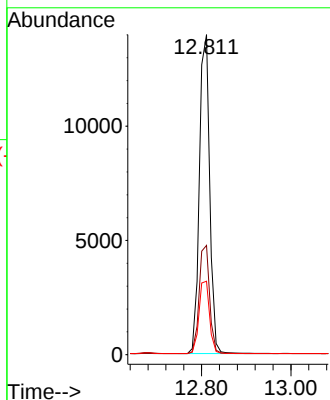
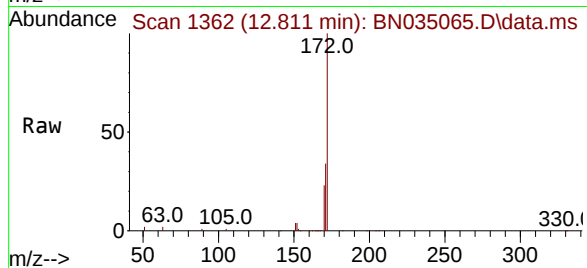




#15
2-Fluorobiphenyl
Concen: 0.855 ng
RT: 12.811 min Scan# 1361
Delta R.T. 0.004 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

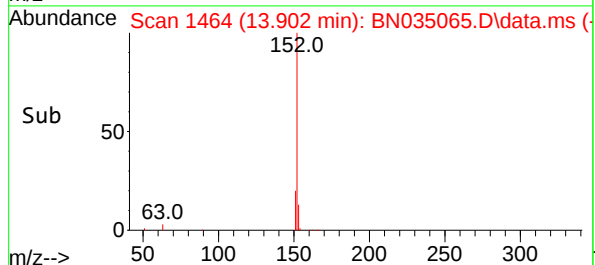
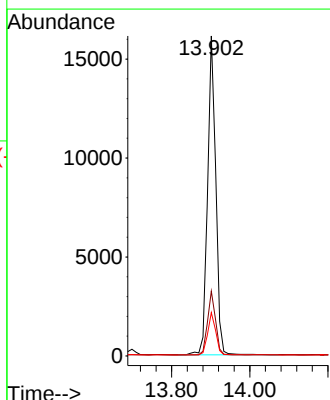
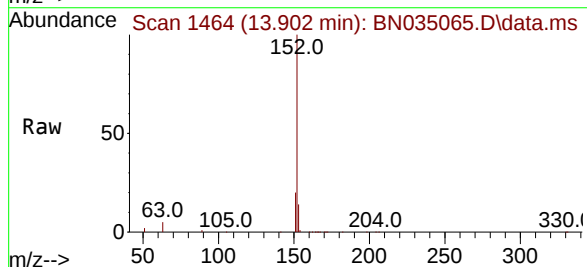
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

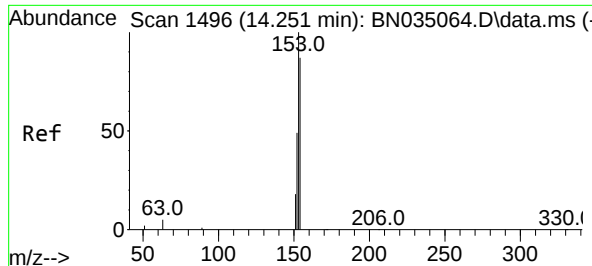
Tgt Ion:172 Resp: 22399
Ion Ratio Lower Upper
172 100
171 34.1 28.2 42.4
170 22.9 19.0 28.6



#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

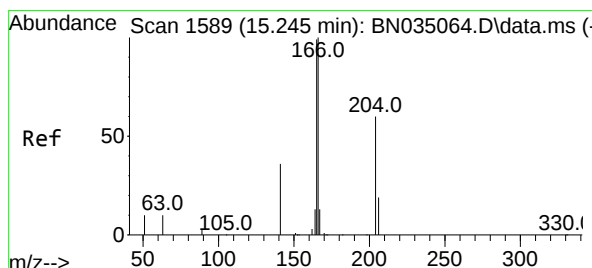
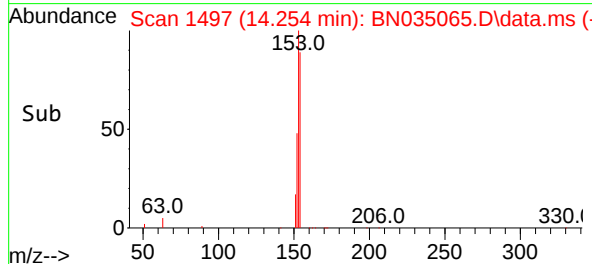
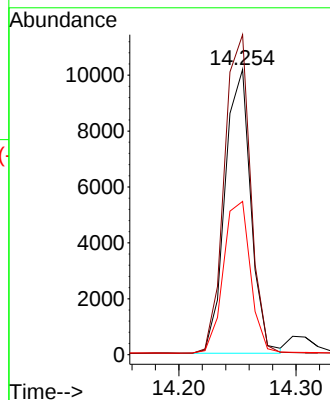
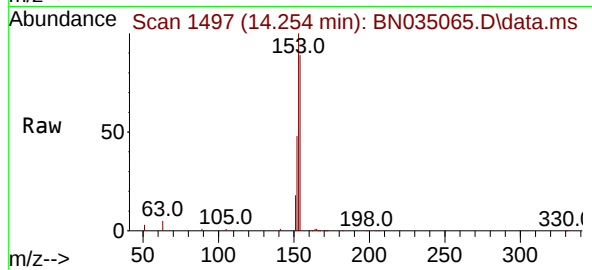




#17
Acenaphthene
Concen: 0.858 ng
RT: 14.254 min Scan# 1496
Delta R.T. 0.004 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

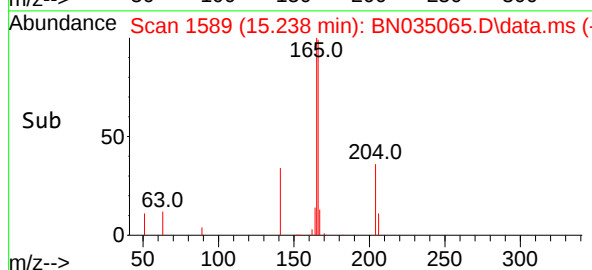
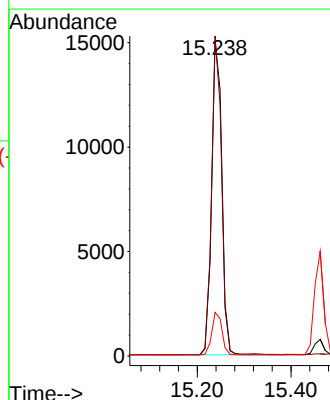
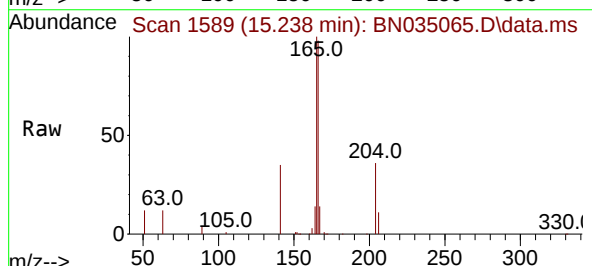
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

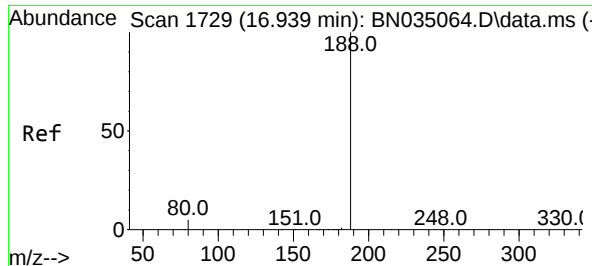
Tgt Ion:154 Resp: 15511
Ion Ratio Lower Upper
154 100
153 114.0 91.6 137.4
152 56.6 45.8 68.6



#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 :

SSTDIC0.8

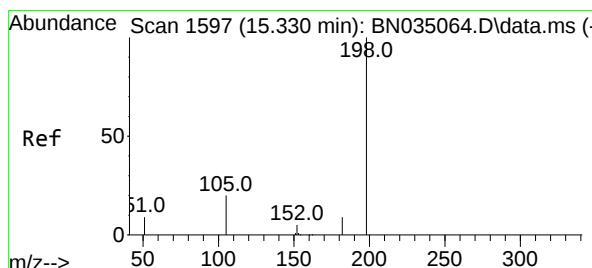
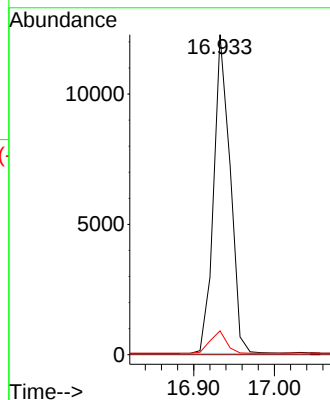
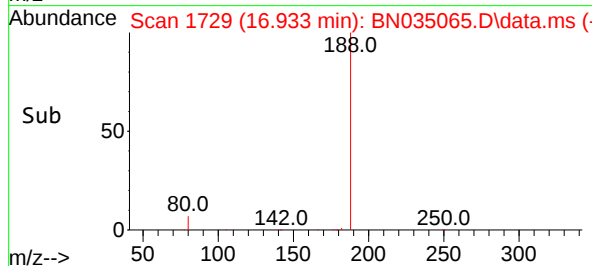
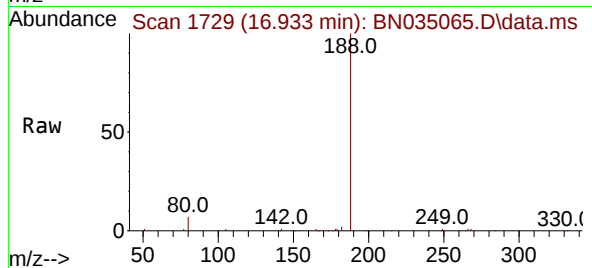
Tgt Ion:188 Resp: 17302

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

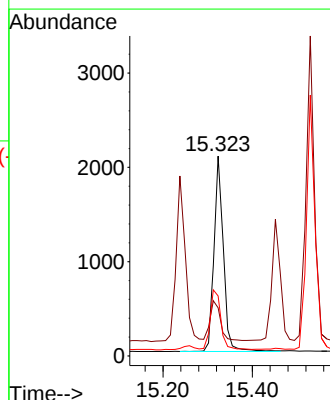
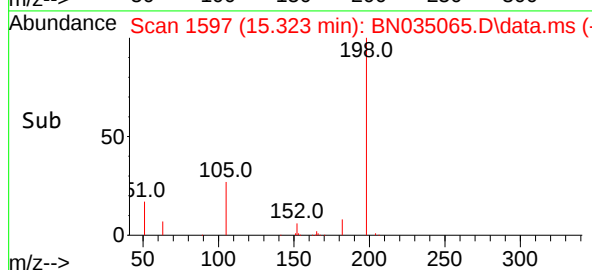
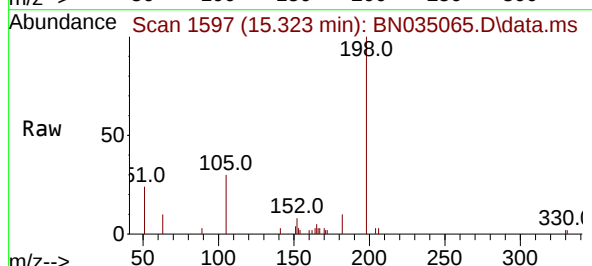
Tgt Ion:198 Resp: 3013

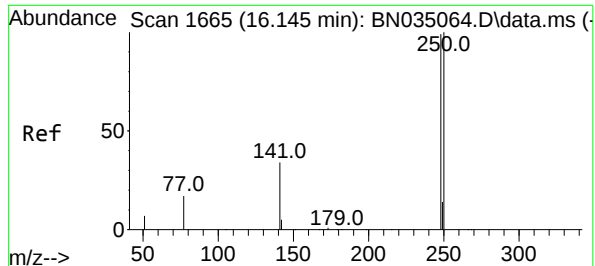
Ion Ratio Lower Upper

198 100

51 24.1 29.9 44.9#

105 30.0 23.7 35.5

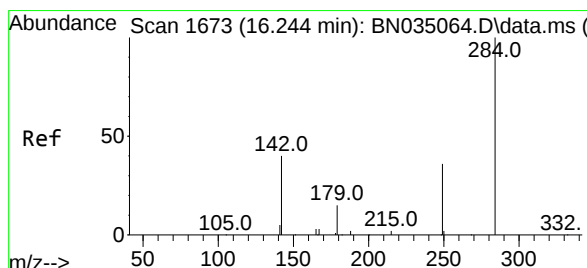
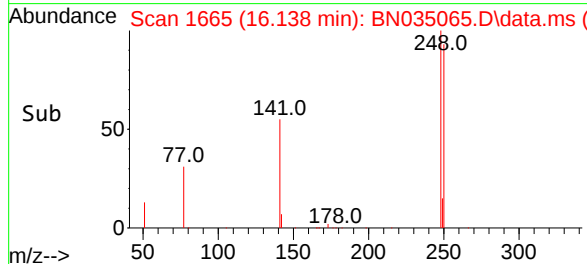
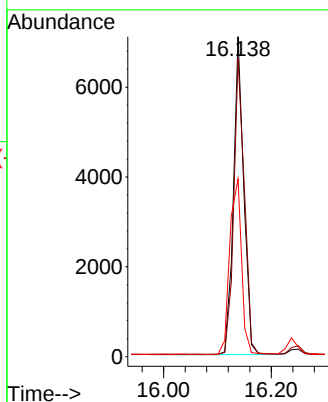
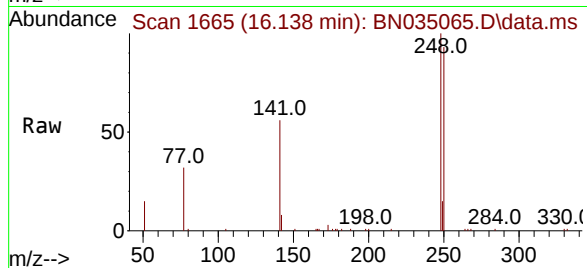




#21
4-Bromophenyl-phenylether
Concen: 0.853 ng
RT: 16.138 min Scan# 1665
Delta R.T. -0.007 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

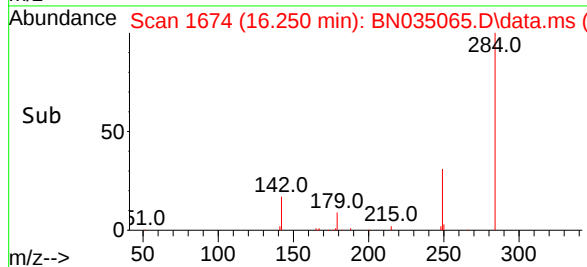
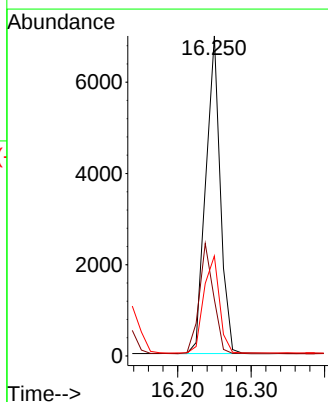
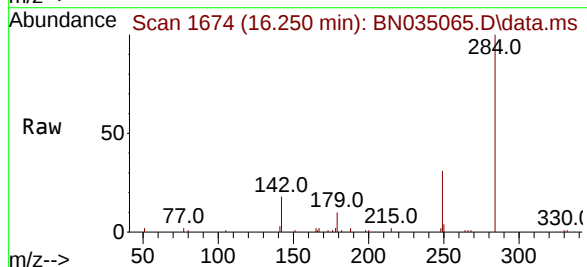
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

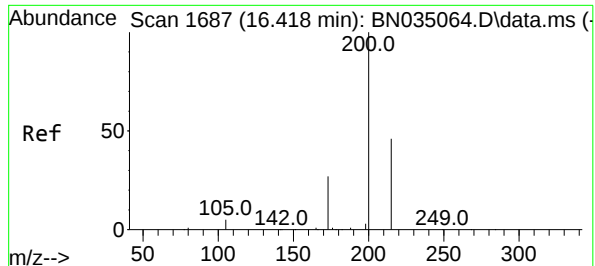
Tgt Ion	Ratio	Lower	Upper
248	100		
250	93.3	81.2	121.8
141	55.6	29.1	43.7



#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

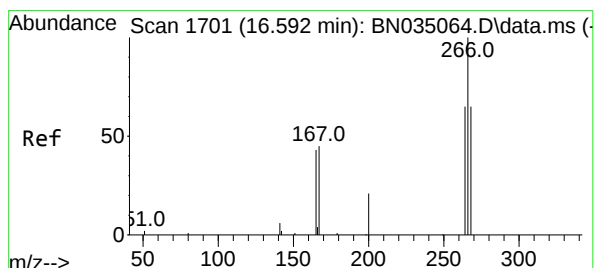
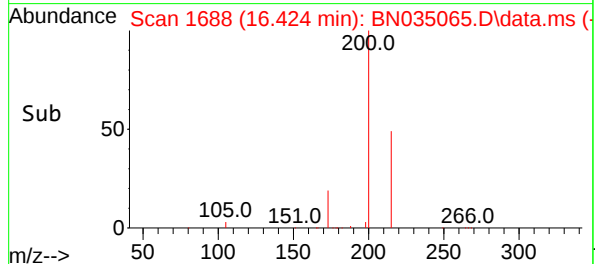
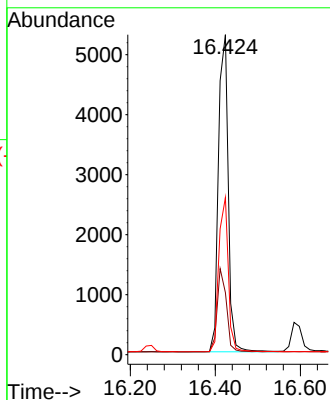
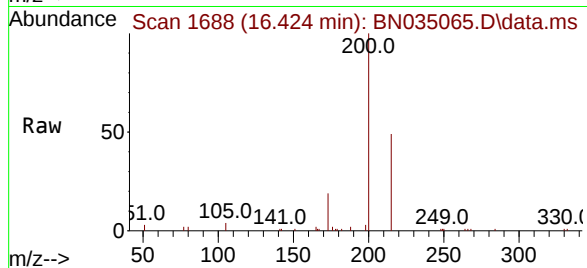




#23
Atrazine
Concen: 0.852 ng
RT: 16.424 min Scan# 1
Delta R.T. 0.006 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

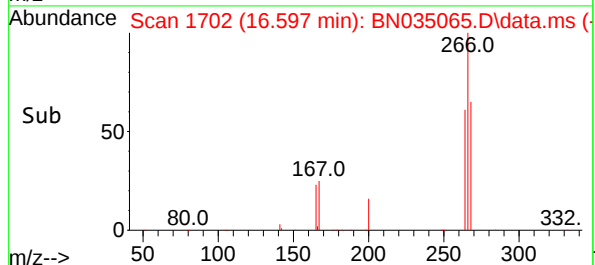
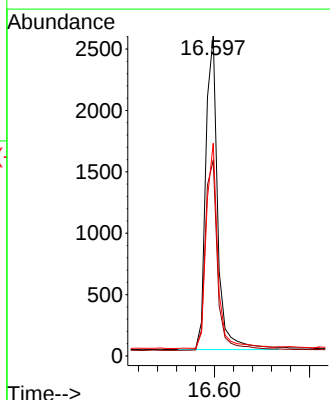
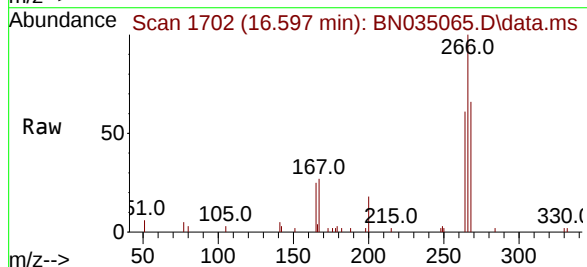
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

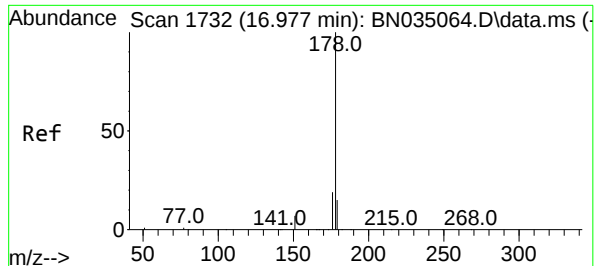
Tgt Ion:200 Resp: 8427
Ion Ratio Lower Upper
200 100
173 19.4 22.6 33.8#
215 49.1 37.8 56.6



#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

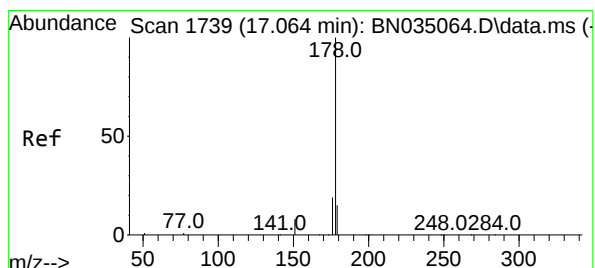
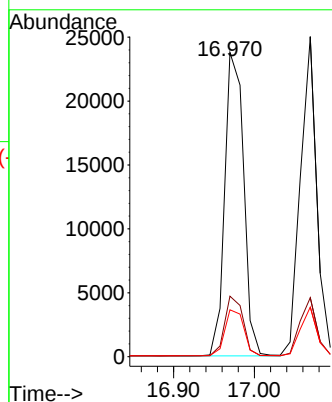
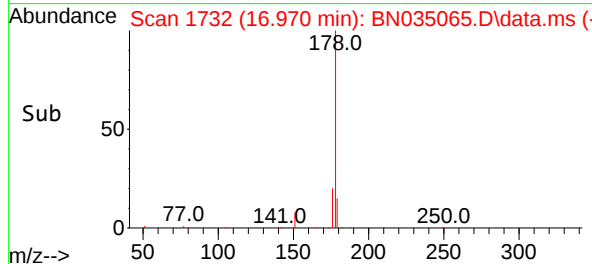
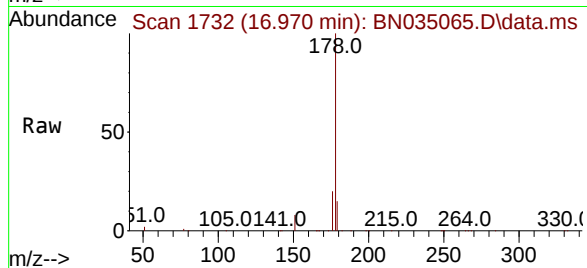




#25
Phenanthrene
Concen: 0.847 ng
RT: 16.970 min Scan# 1732
Delta R.T. -0.007 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

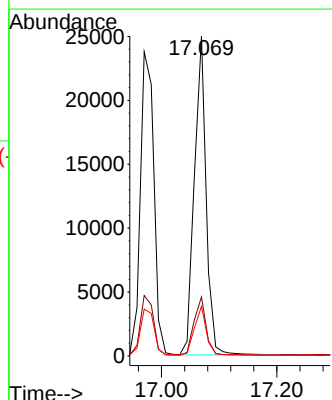
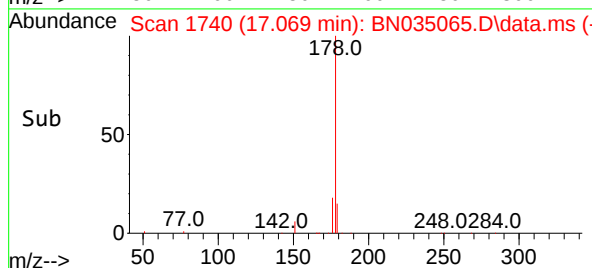
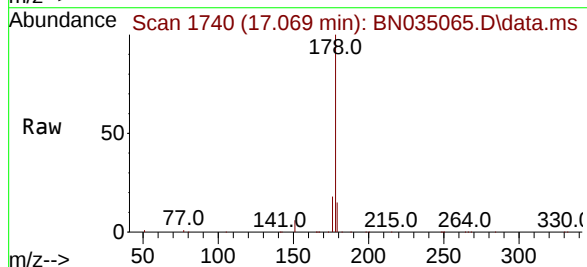
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

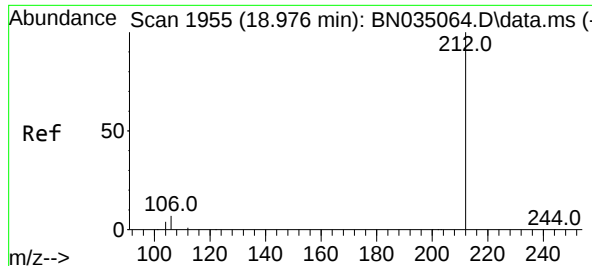
Tgt Ion:178 Resp: 38573
Ion Ratio Lower Upper
178 100
176 19.3 15.2 22.8
179 15.3 12.6 18.8



#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

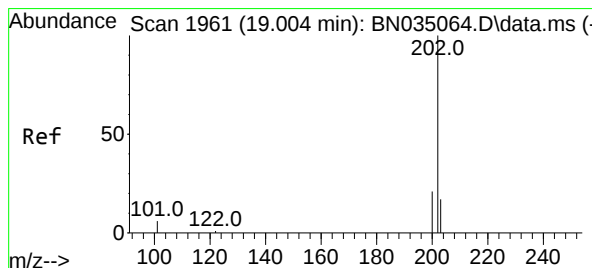
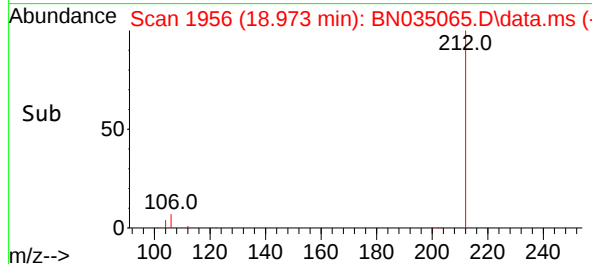
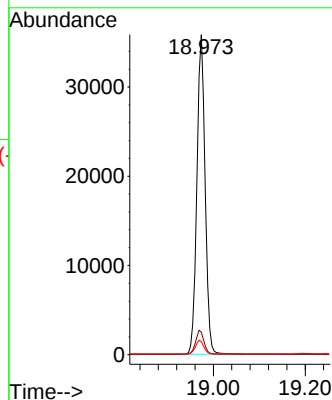
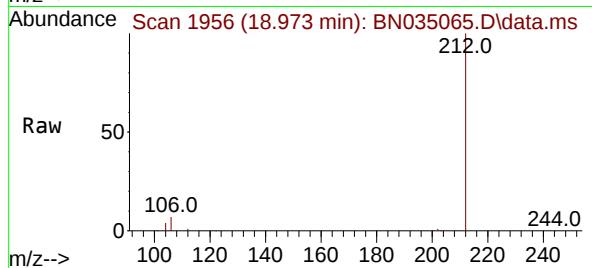




#27
Fluoranthene-d10
Concen: 0.841 ng
RT: 18.973 min Scan# 1955
Delta R.T. -0.002 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

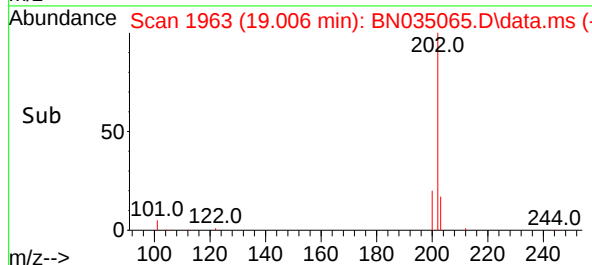
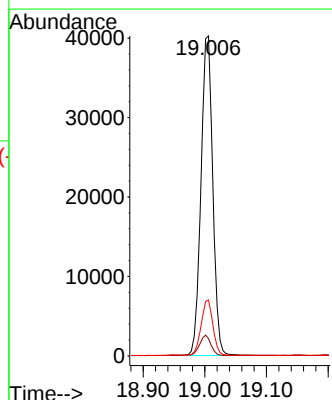
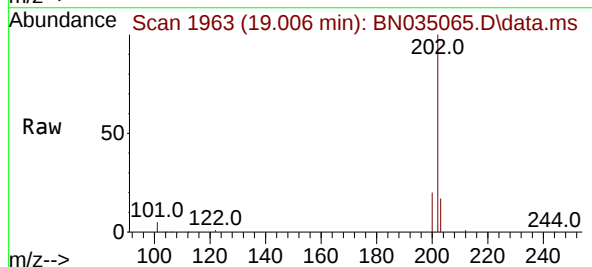
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

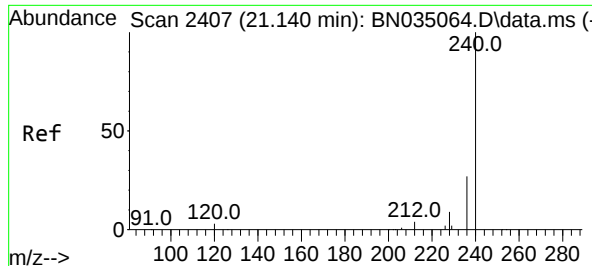
Tgt Ion	Ratio	Lower	Upper
212	100		
106	7.5	6.0	9.0
104	4.4	3.5	5.3



#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	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

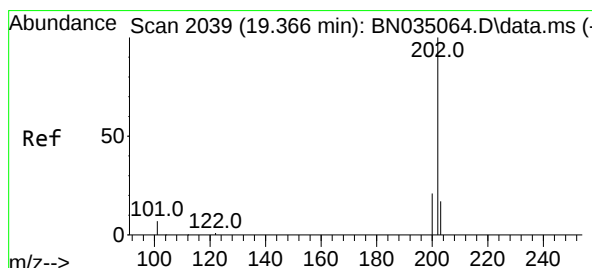
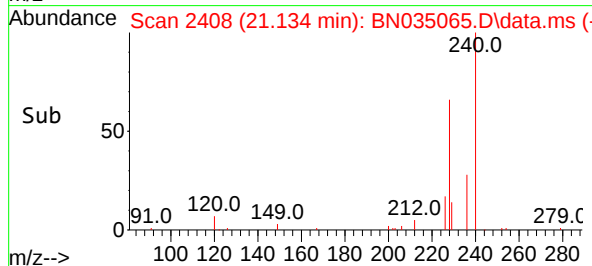
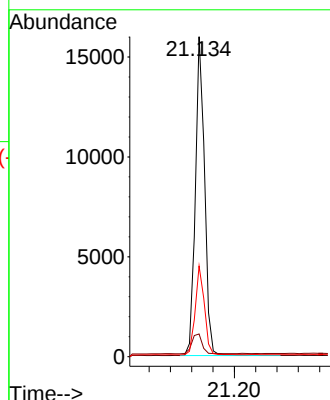
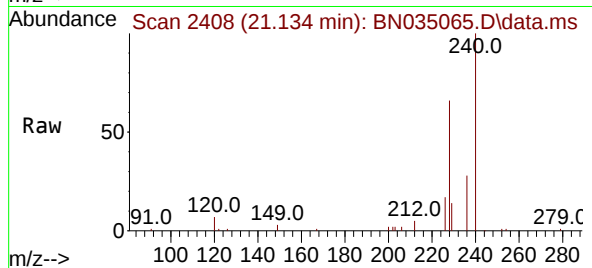
Tgt Ion:240 Resp: 19278

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

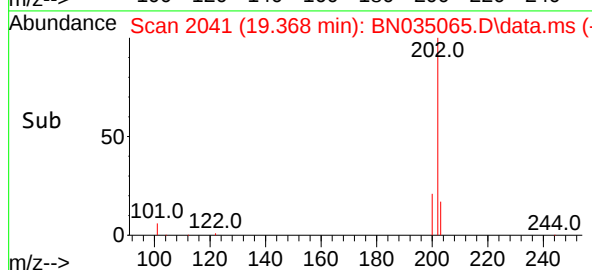
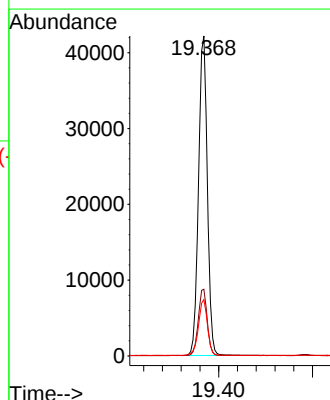
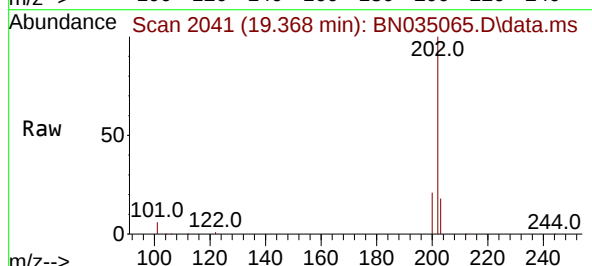
Tgt Ion:202 Resp: 54892

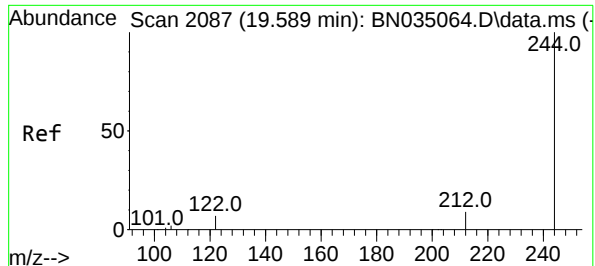
Ion Ratio Lower Upper

202 100

200 21.0 16.7 25.1

203 17.8 14.2 21.4

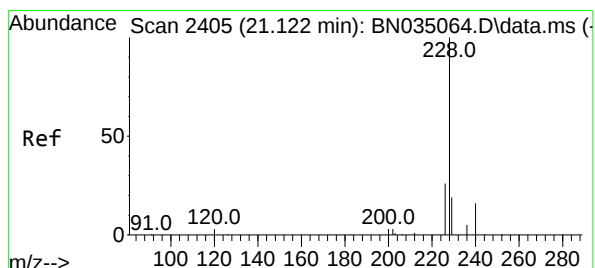
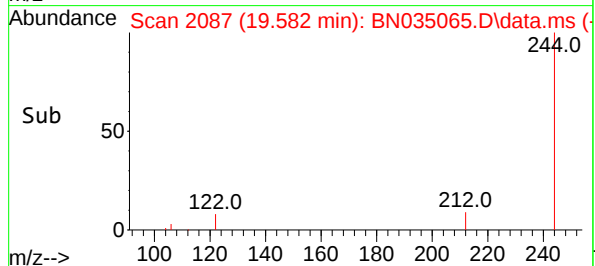
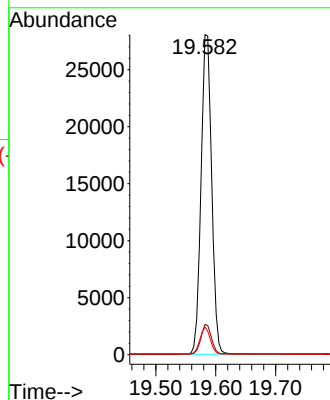
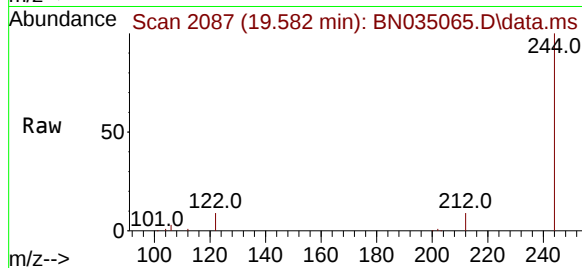




#31
Terphenyl-d14
Concen: 0.852 ng
RT: 19.582 min Scan# 2087
Delta R.T. -0.007 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

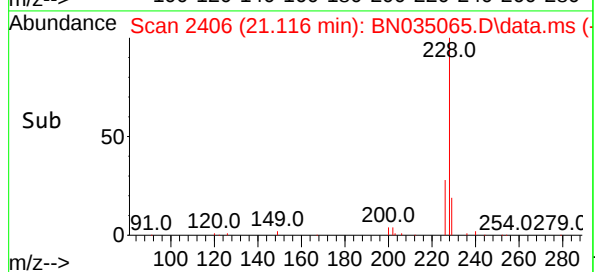
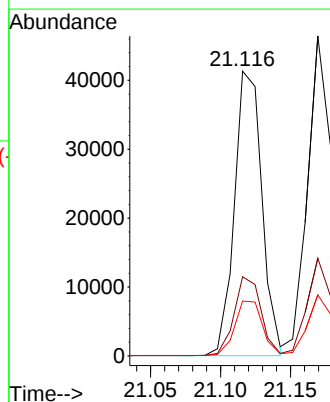
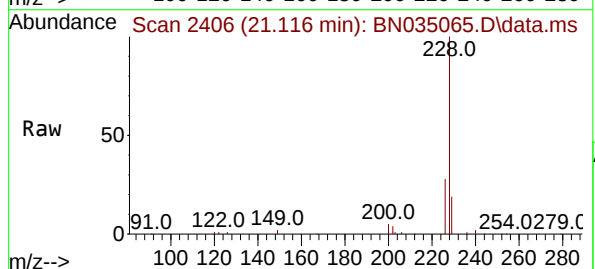
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

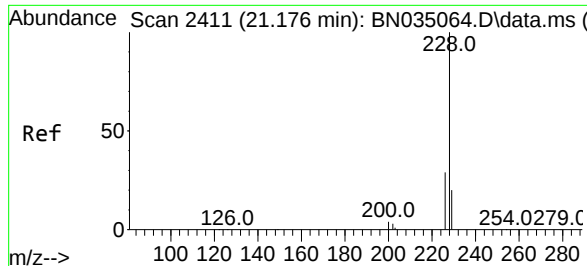
Tgt Ion:244 Resp: 34460
Ion Ratio Lower Upper
244 100
212 9.5 7.6 11.4
122 8.6 6.1 9.1



#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

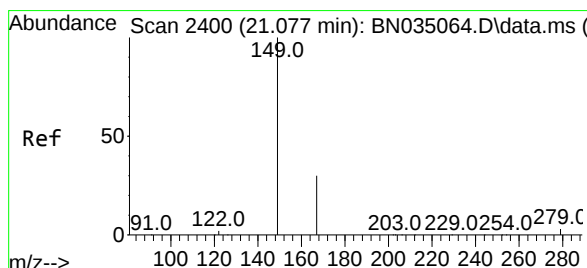
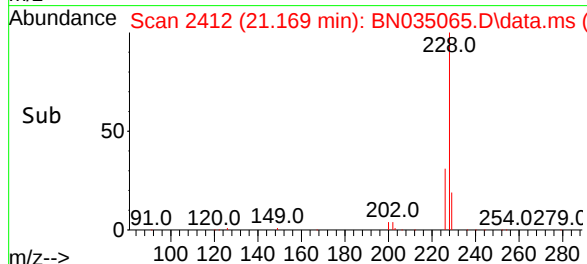
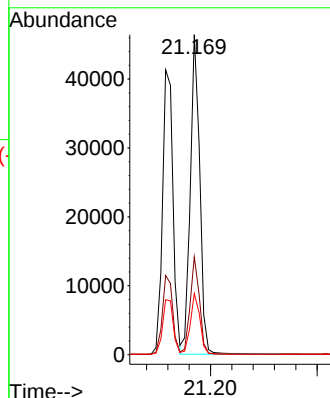
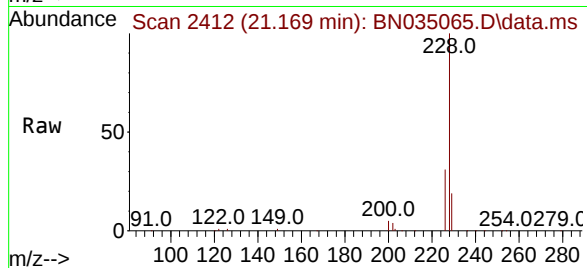
Tgt Ion:228 Resp: 57039

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

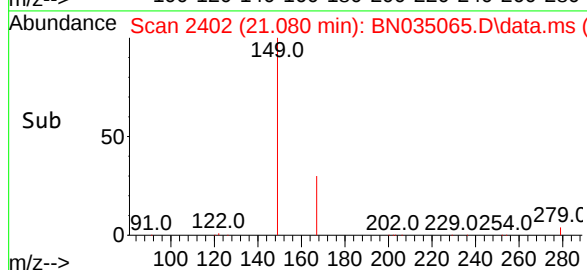
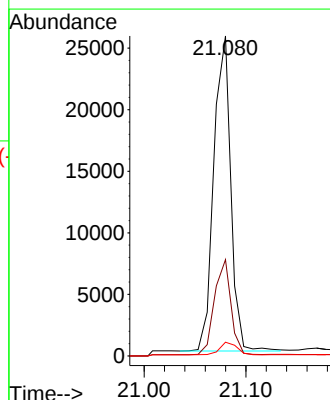
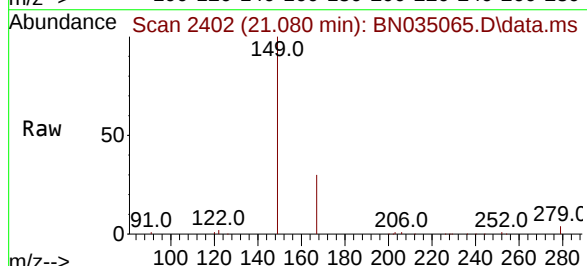
Tgt Ion:149 Resp: 29628

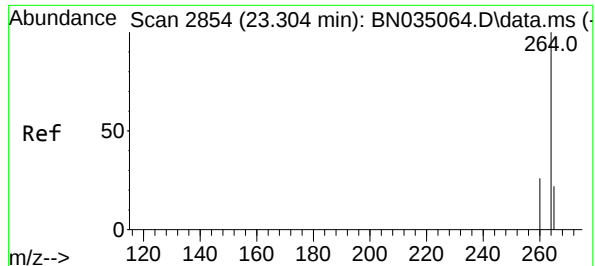
Ion Ratio Lower Upper

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

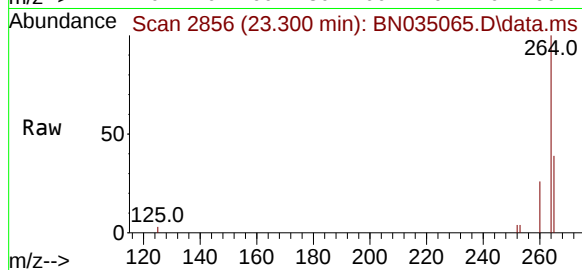
Acq: 13 Nov 2024 14:28

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



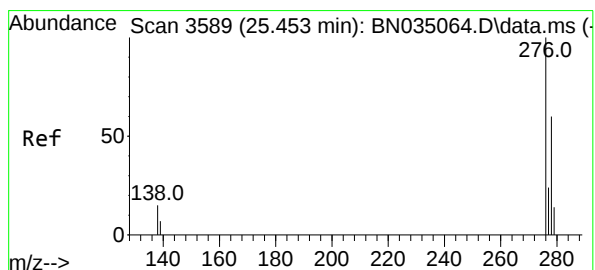
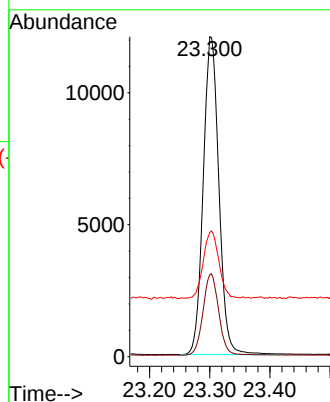
Tgt Ion:264 Resp: 21751

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

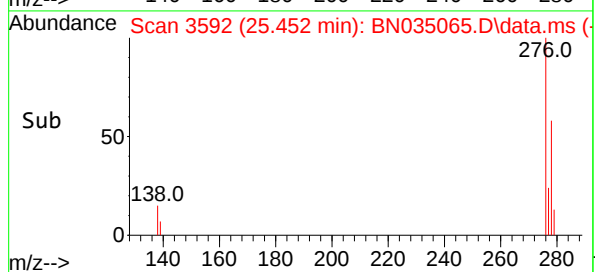
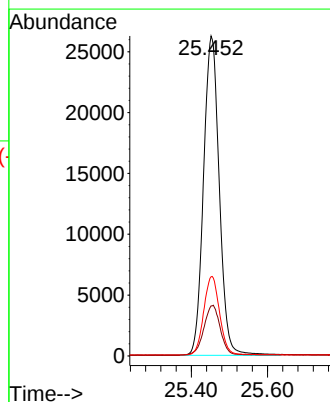
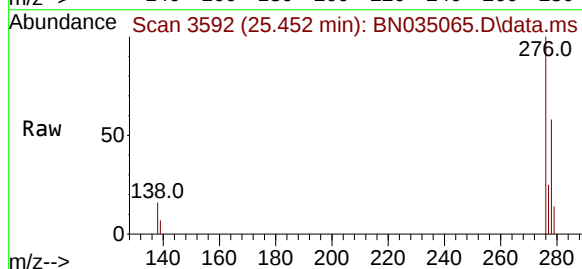
Tgt Ion:276 Resp: 75270

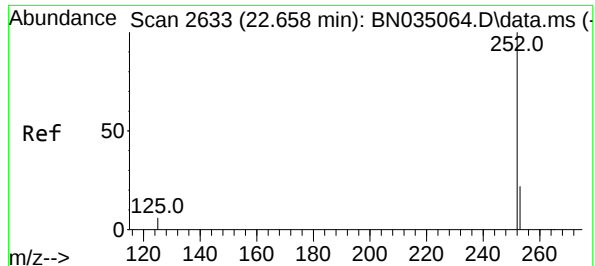
Ion Ratio Lower Upper

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

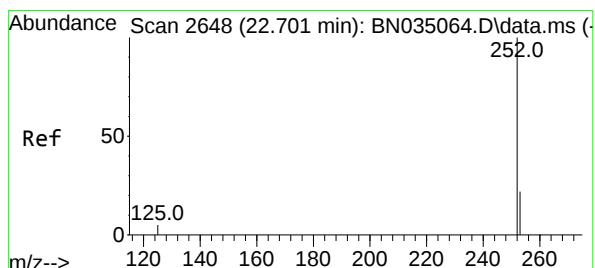
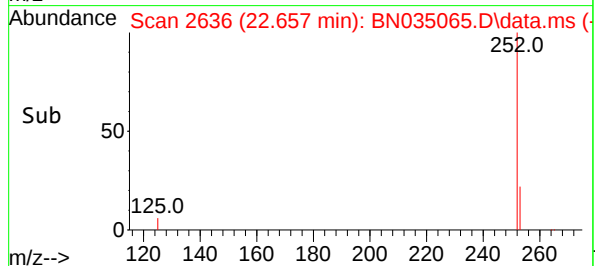
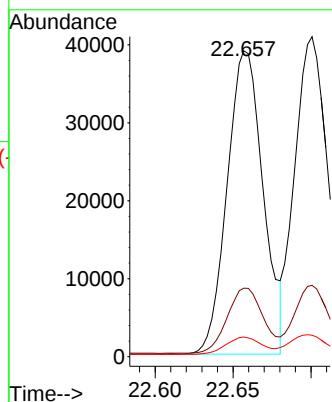
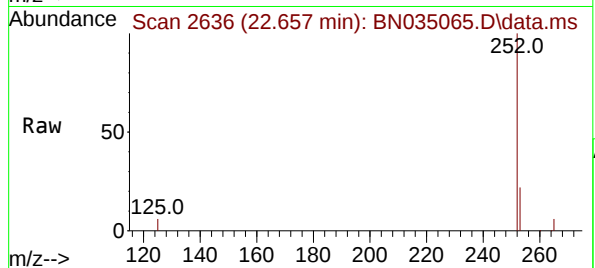
Tgt Ion:252 Resp: 62606

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

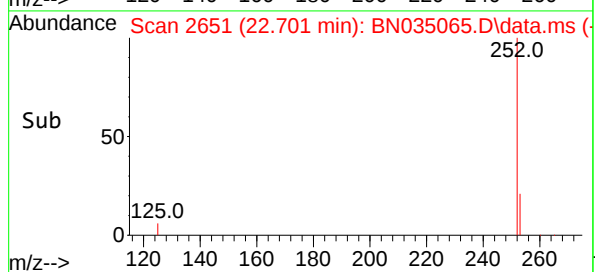
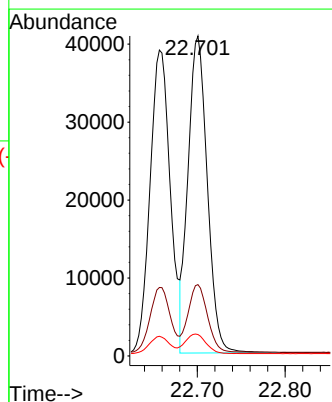
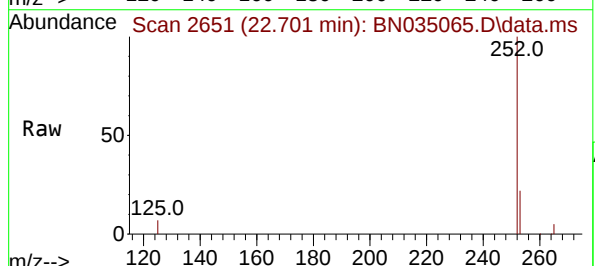
Tgt Ion:252 Resp: 61702

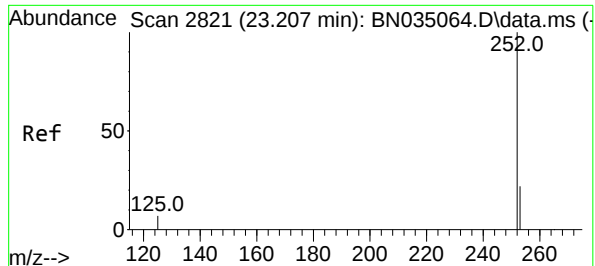
Ion Ratio Lower Upper

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 :

SSTDIC0.8

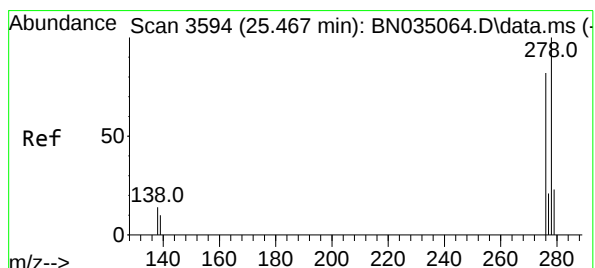
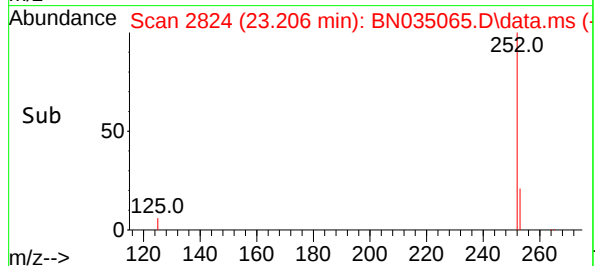
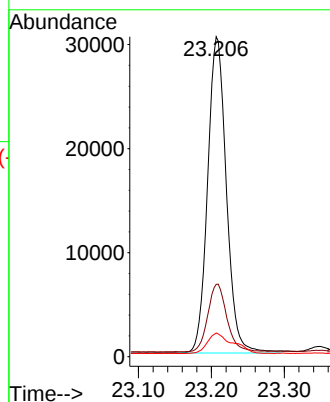
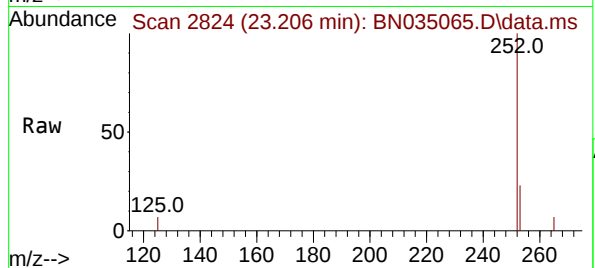
Tgt Ion:252 Resp: 54251

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

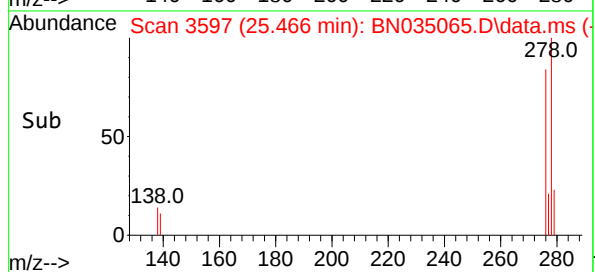
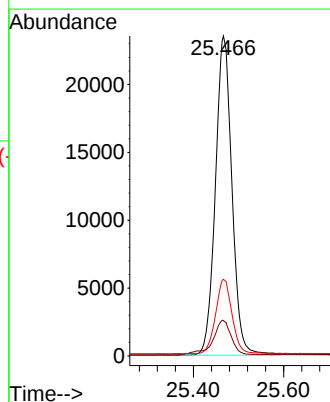
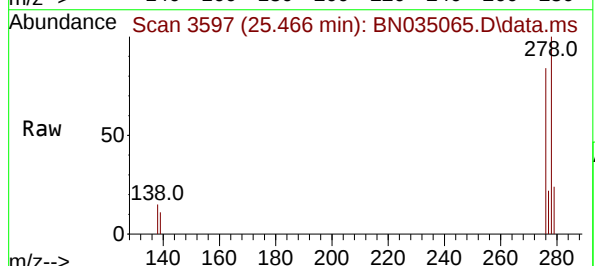
Tgt Ion:278 Resp: 59829

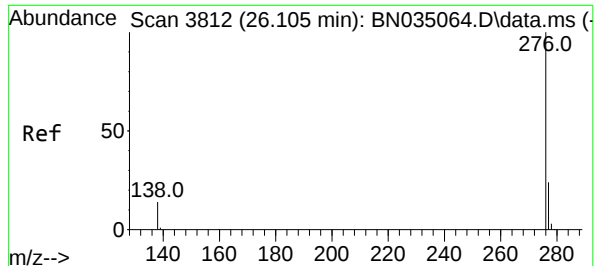
Ion Ratio Lower Upper

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

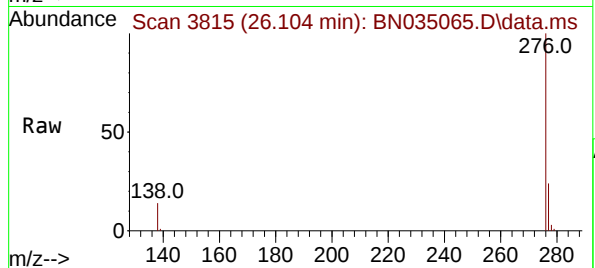
Acq: 13 Nov 2024 14:28

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



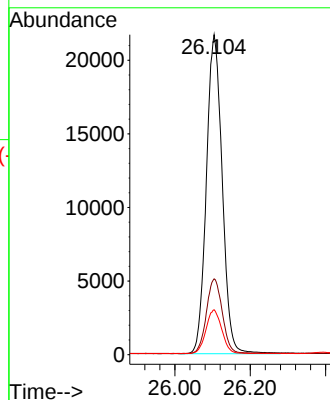
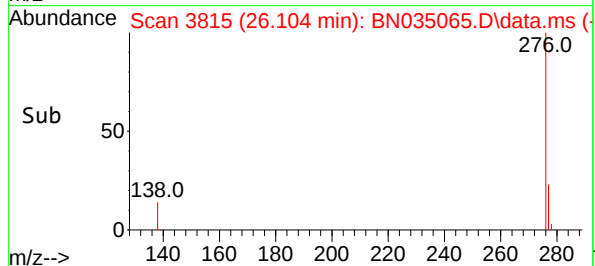
Tgt Ion:276 Resp: 63167

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

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

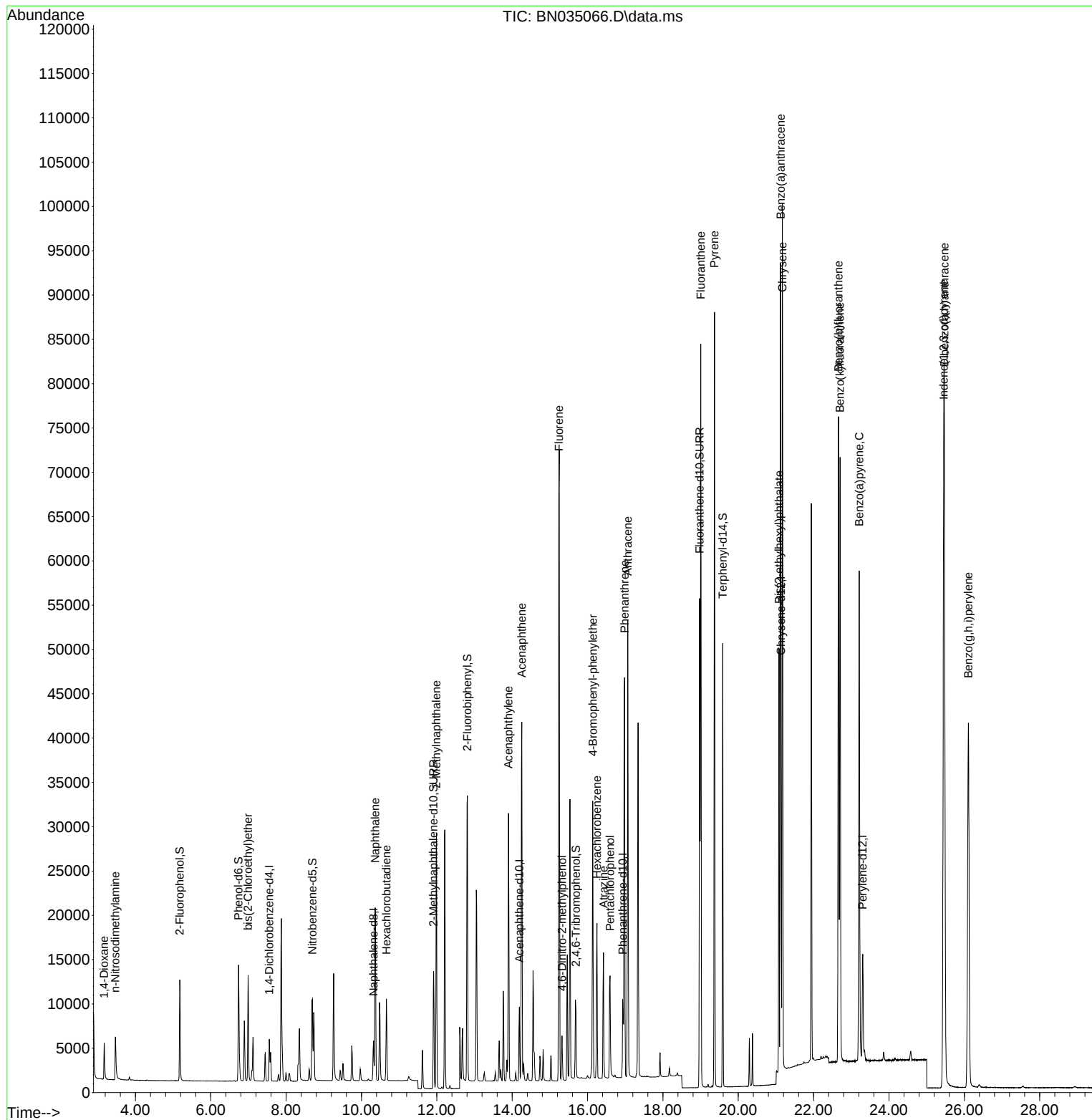
Response via : Initial Calibration

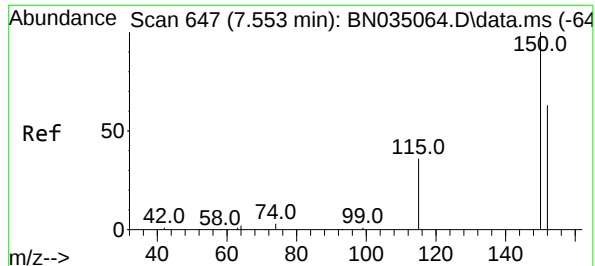
Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/14/2024

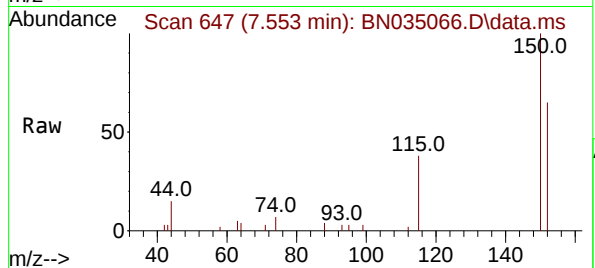
Supervised By :mohammad ahmed 11/14/2024





#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

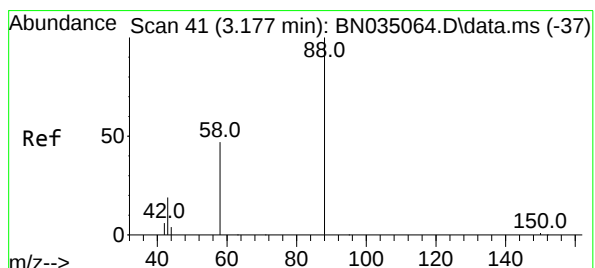
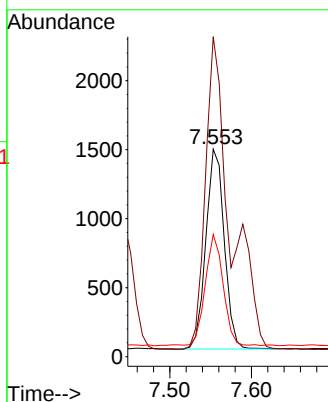
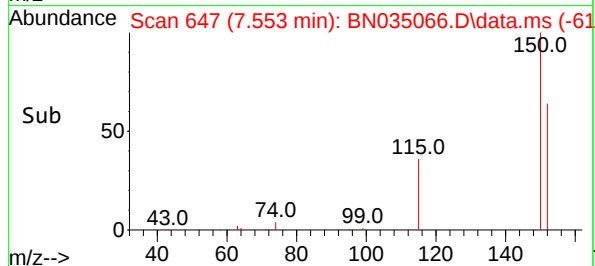
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6



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

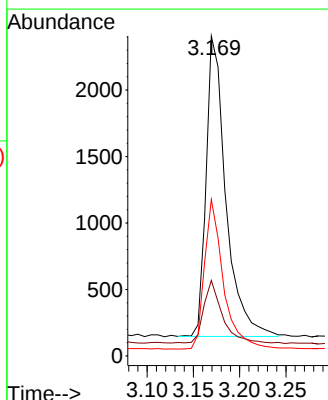
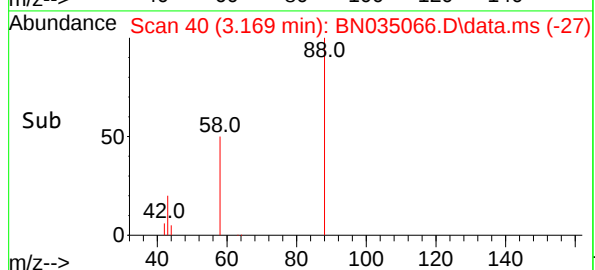
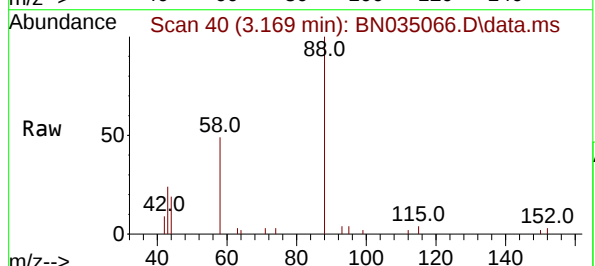
Manual Integrations
APPROVED

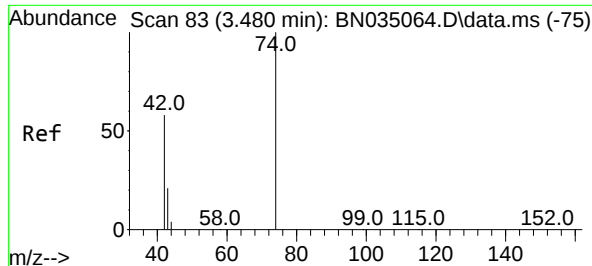
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#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

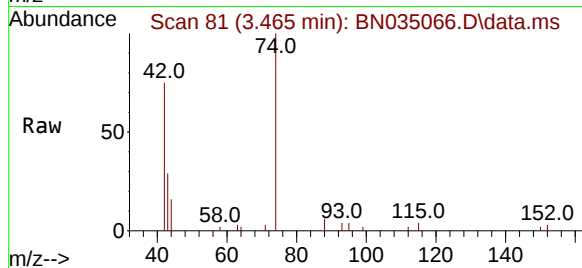
Tgt Ion: 88 Resp: 3351
Ion Ratio Lower Upper
88 100
43 20.3 16.9 25.3
58 47.7 39.0 58.4





#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

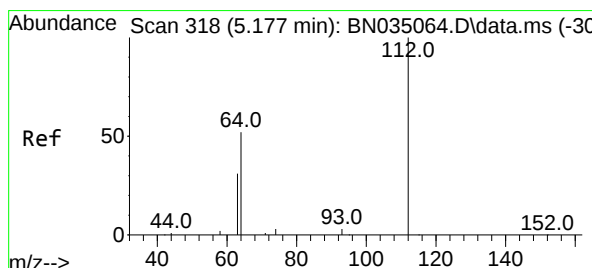
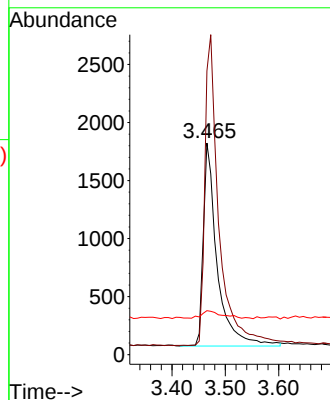
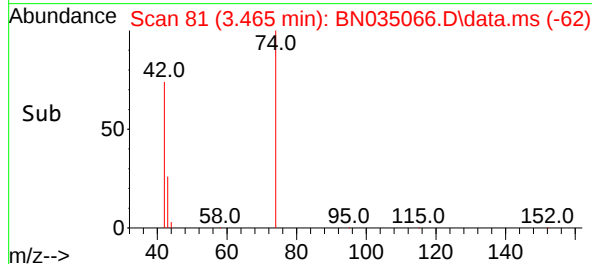
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6



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

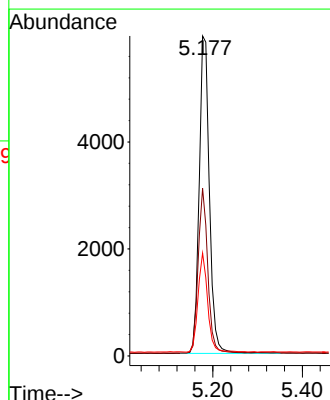
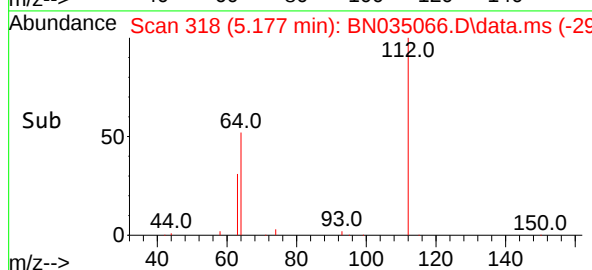
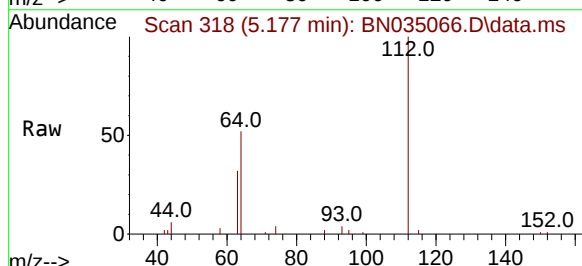
Manual Integrations
APPROVED

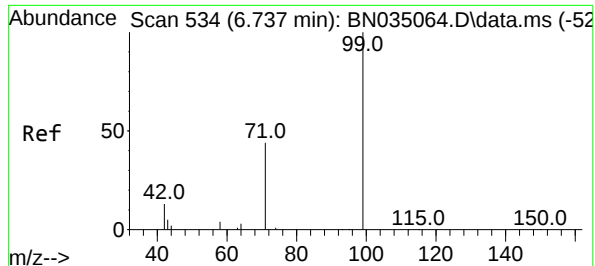
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#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





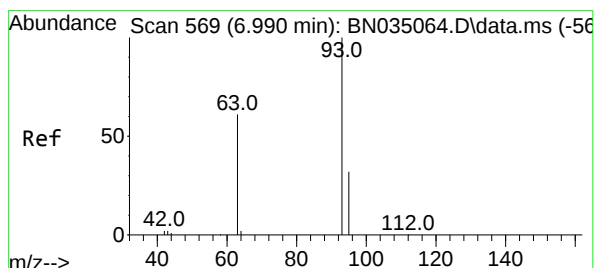
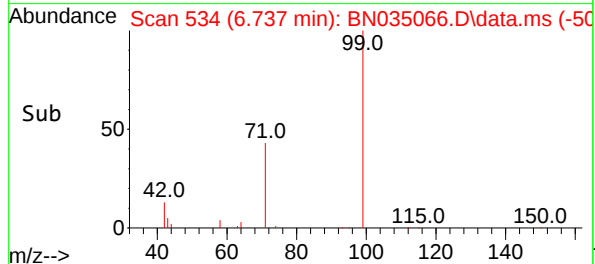
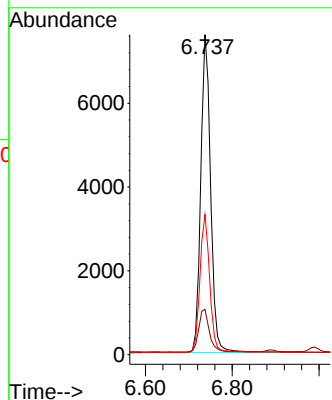
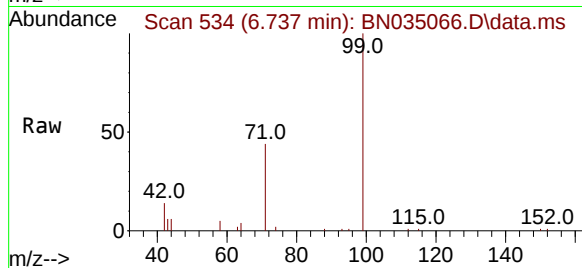
#5
Phenol-d6
Concen: 1.657 ng
RT: 6.737 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

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

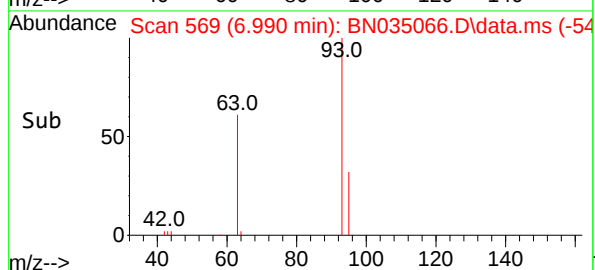
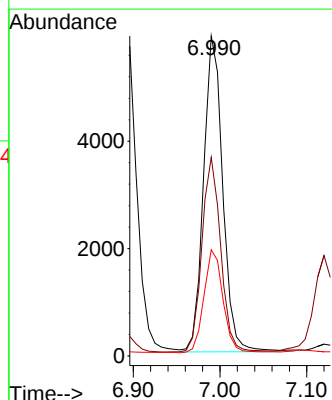
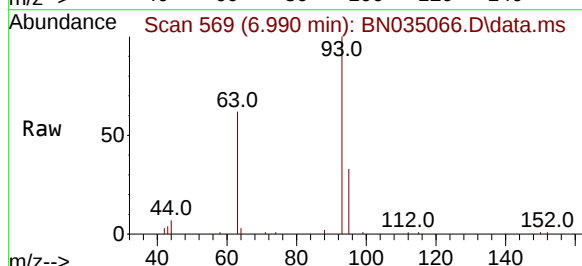
Manual Integrations
APPROVED

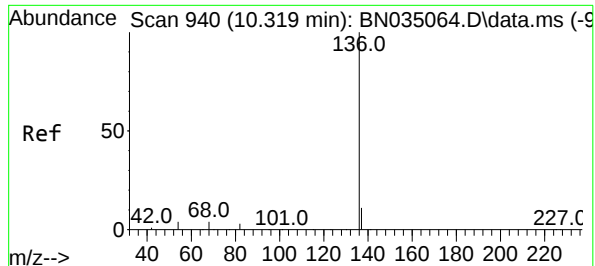
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#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





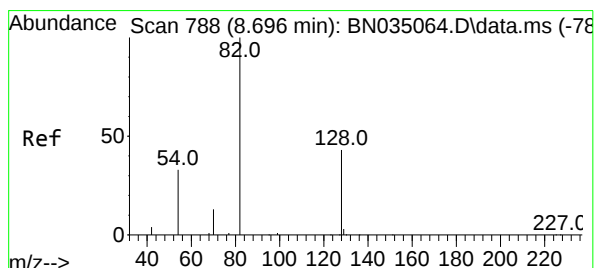
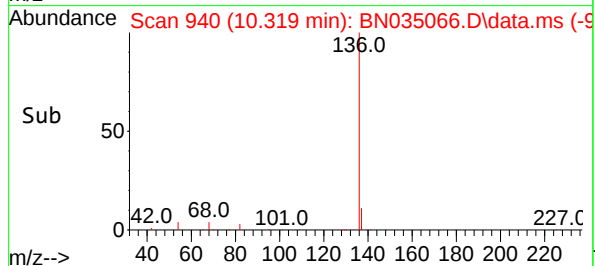
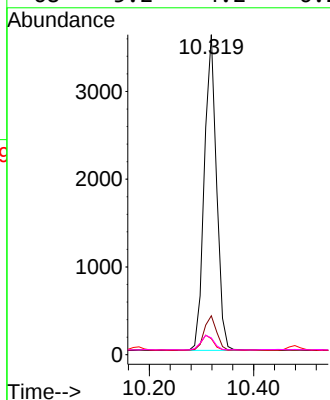
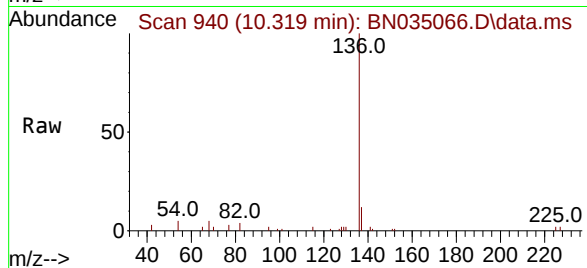
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.319 min Scan# 940
Delta R.T. -0.000 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

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

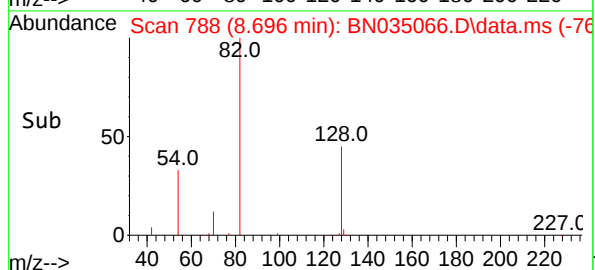
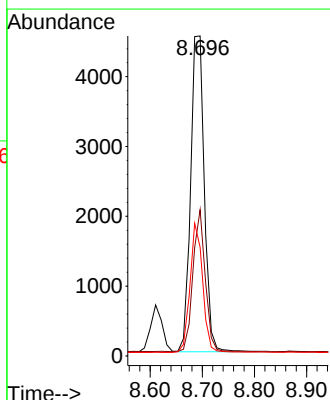
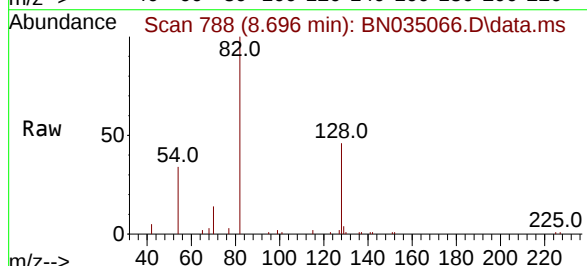
Manual Integrations
APPROVED

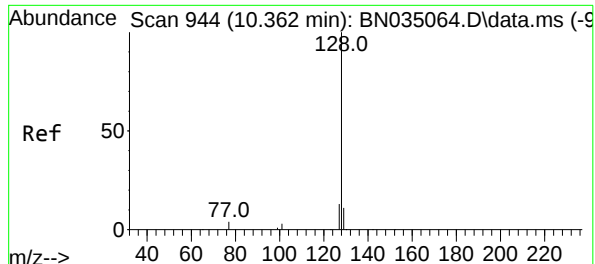
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#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





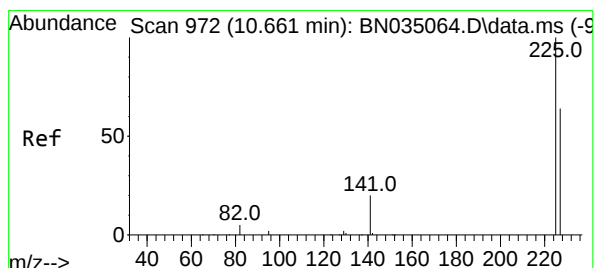
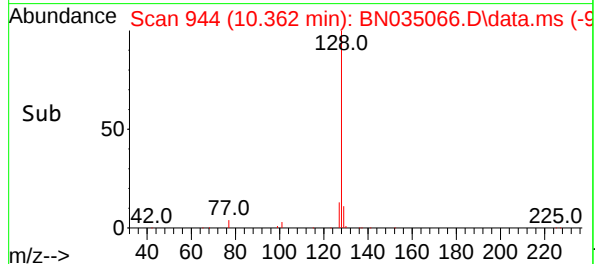
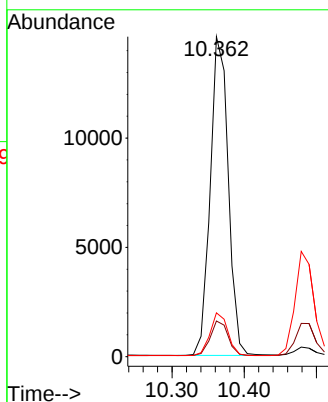
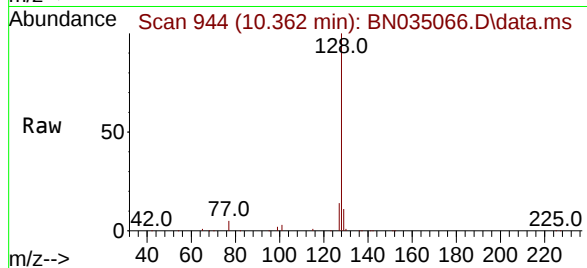
#9
Naphthalene
Concen: 1.662 ng
RT: 10.362 min Scan# 944
Delta R.T. -0.000 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

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

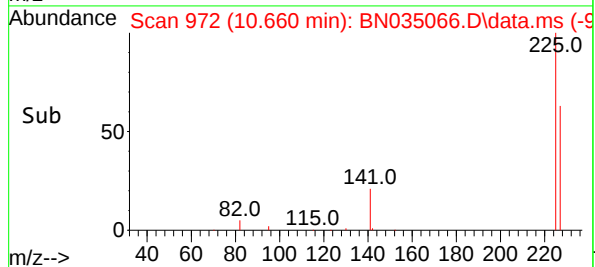
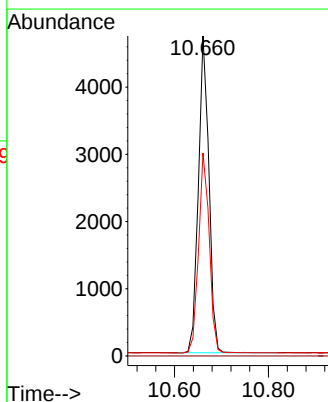
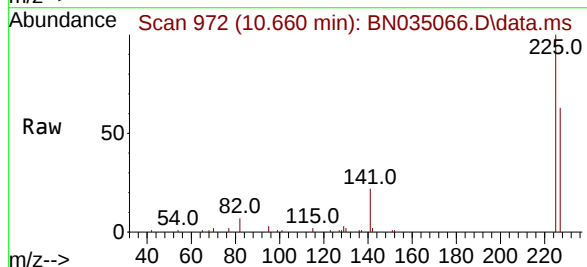
Manual Integrations
APPROVED

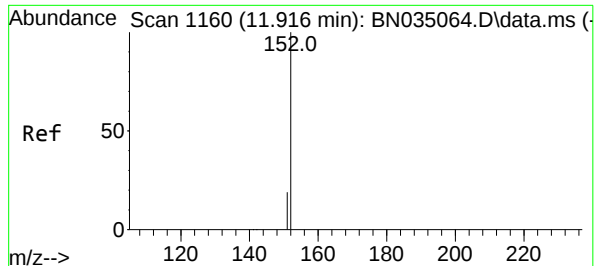
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#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





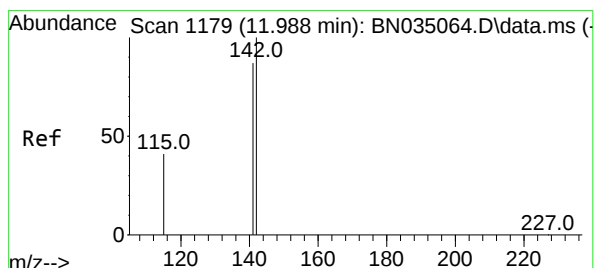
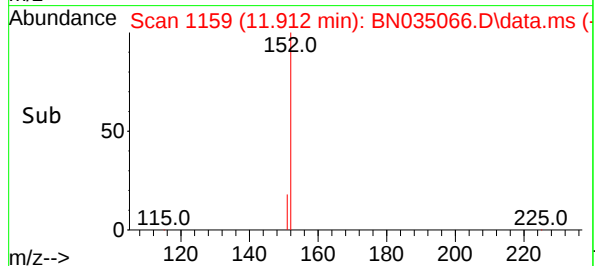
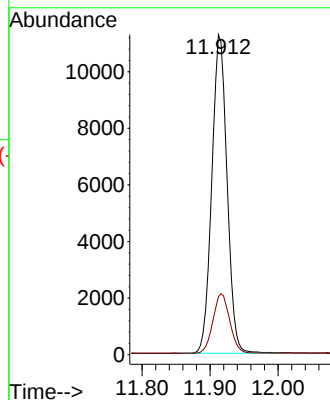
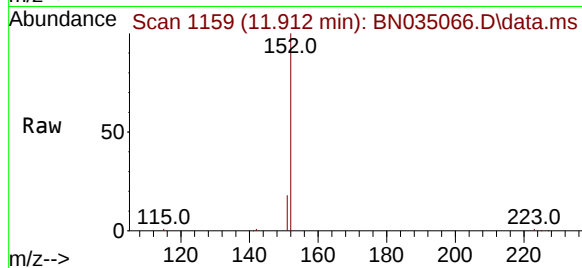
#11
2-Methylnaphthalene-d10
Concen: 1.690 ng
RT: 11.912 min Scan# 1159
Delta R.T. -0.004 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:152 Resp: 1754
Ion Ratio Lower Upper
152 100
151 20.6 16.2 24.4

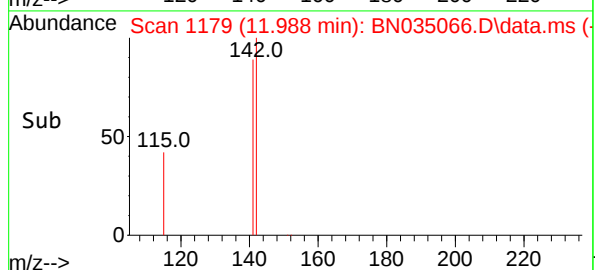
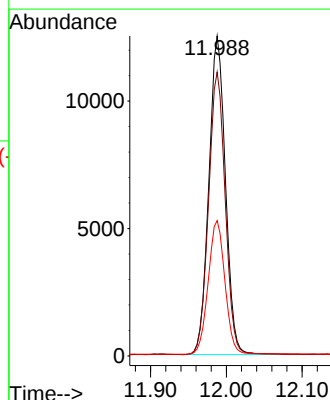
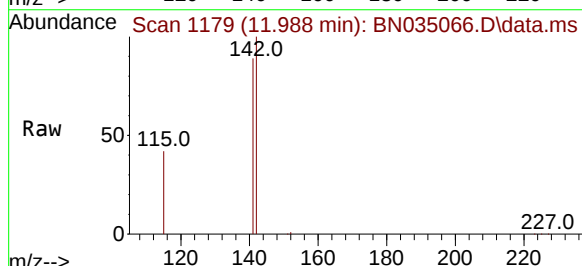
Manual Integrations
APPROVED

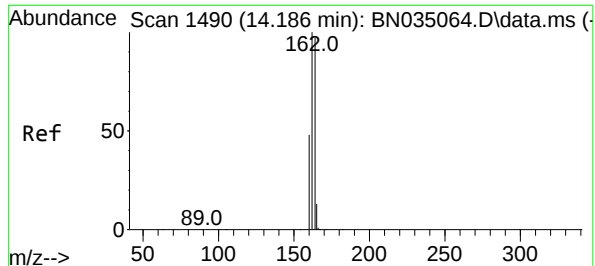
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#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

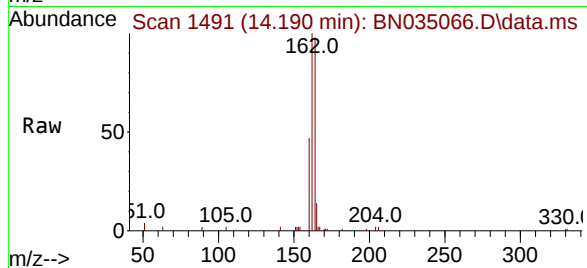
Tgt Ion:142 Resp: 18997
Ion Ratio Lower Upper
142 100
141 88.8 70.1 105.1
115 42.3 34.4 51.6





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.190 min Scan# 1490
Delta R.T. 0.004 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

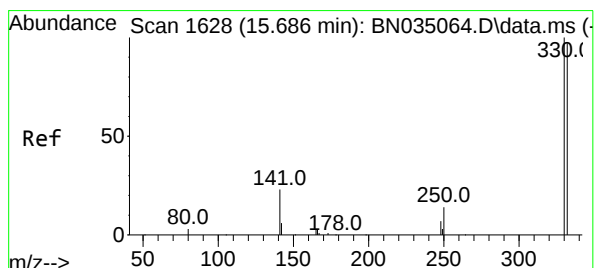
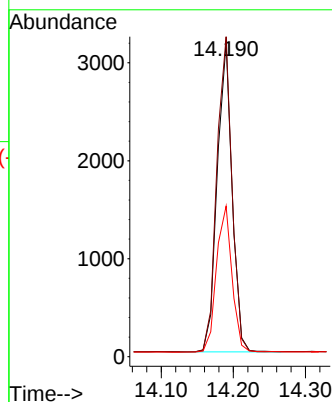
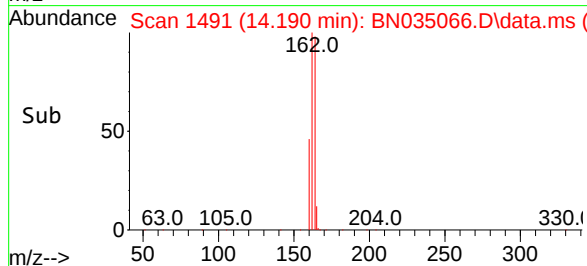
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6



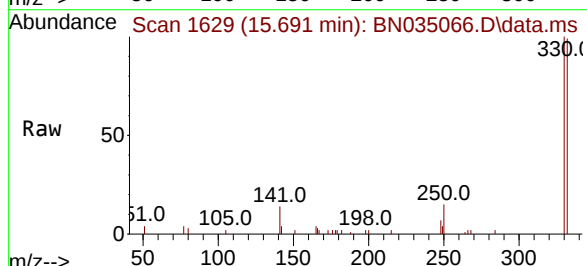
Tgt Ion:164 Resp: 451
Ion Ratio Lower Upper
164 100
162 101.8 82.2 123.2
160 47.9 40.2 60.4

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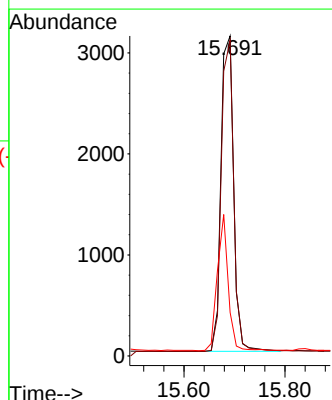
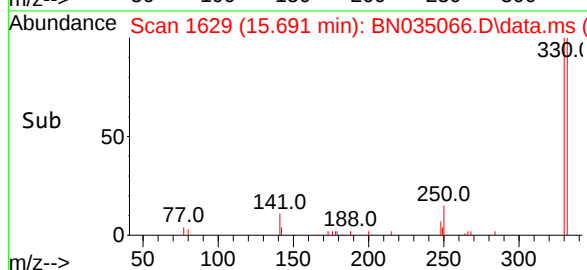
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

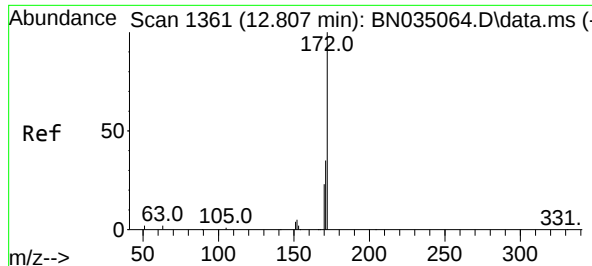


#14
2,4,6-Tribromophenol
Concen: 1.659 ng
RT: 15.691 min Scan# 1629
Delta R.T. 0.005 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04



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





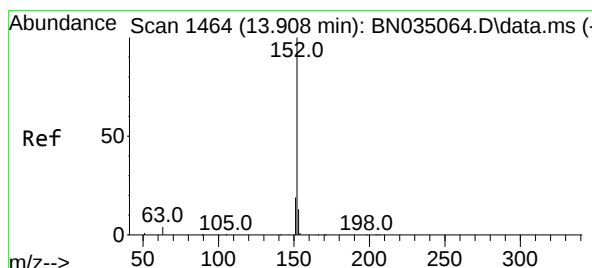
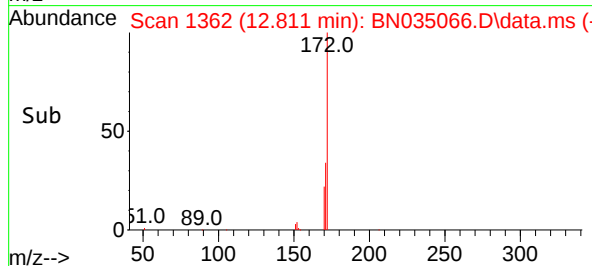
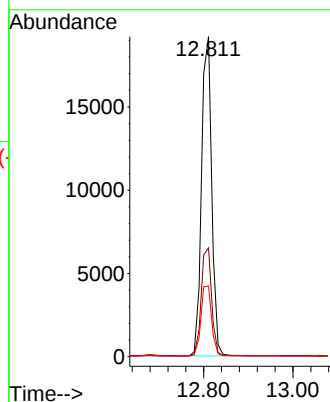
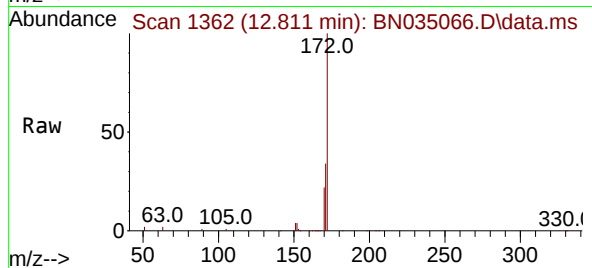
#15
2-Fluorobiphenyl
Concen: 1.661 ng
RT: 12.811 min Scan# 1361
Delta R.T. 0.004 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

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

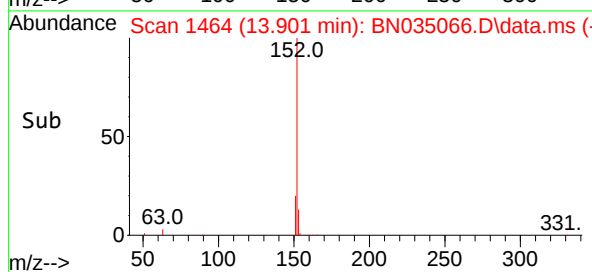
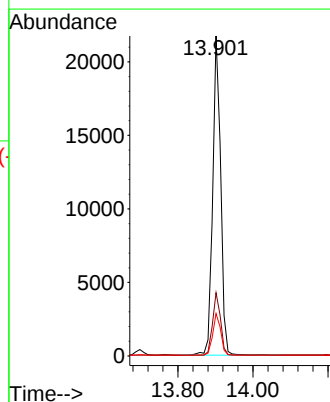
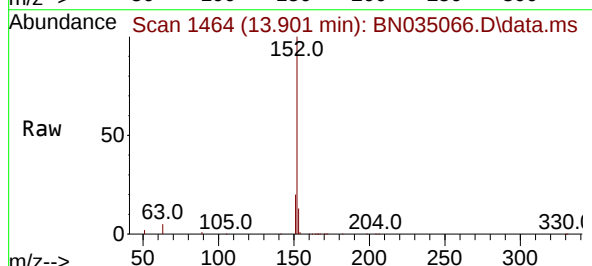
Manual Integrations
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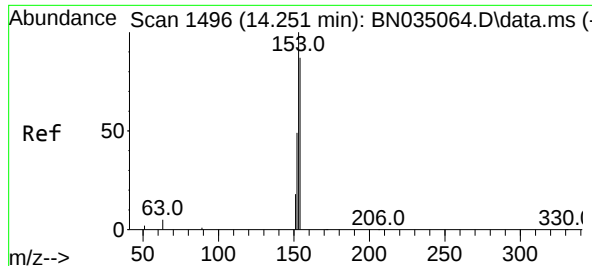
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#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

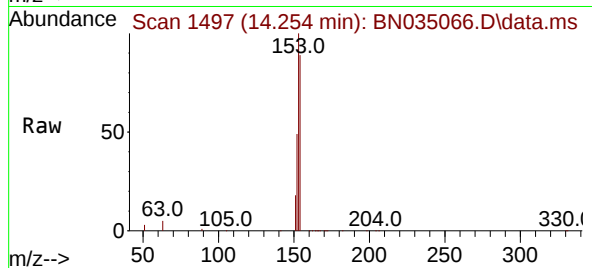
Tgt Ion:152 Resp: 32064
Ion Ratio Lower Upper
152 100
151 19.5 15.8 23.8
153 13.1 10.2 15.4





#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

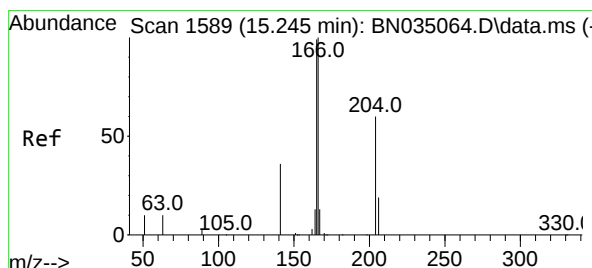
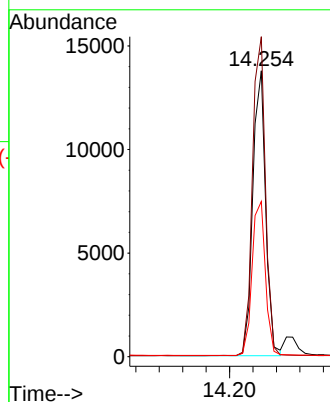
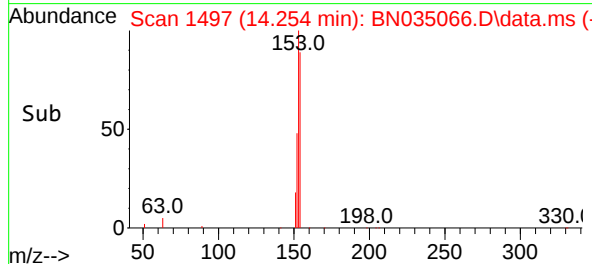
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6



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

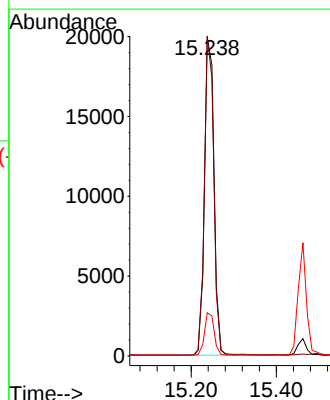
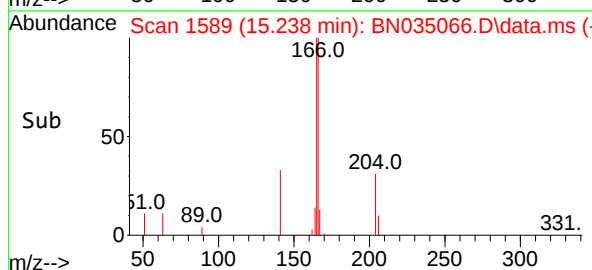
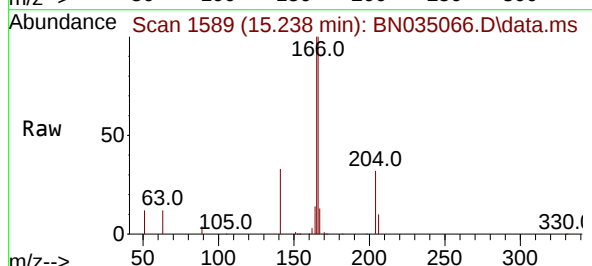
Manual Integrations
APPROVED

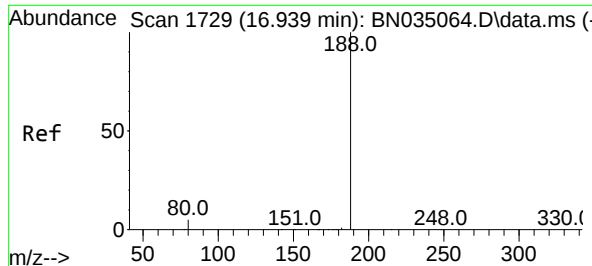
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#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 :

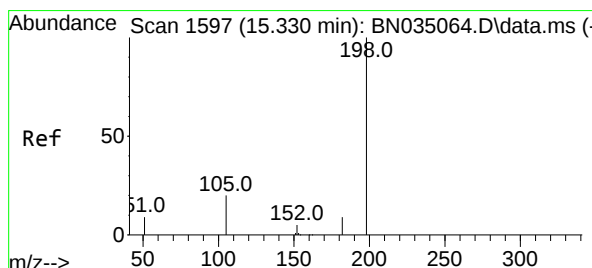
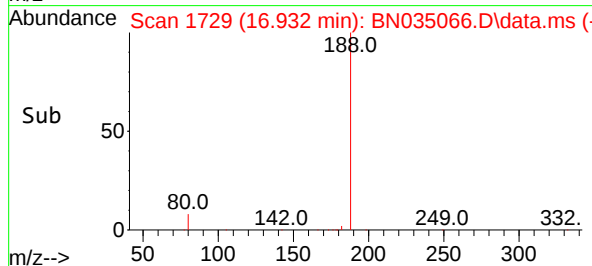
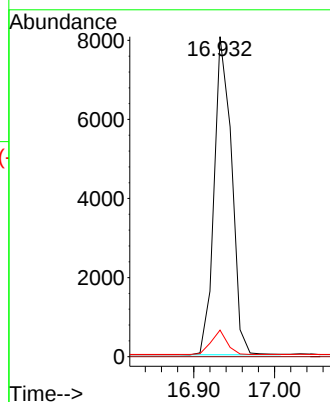
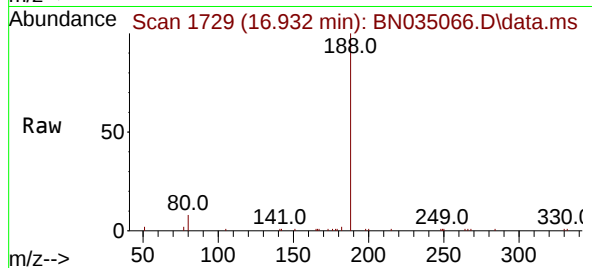
SSTDICC1.6

Tgt Ion:188	Resp:	12068
Ion Ratio	Lower	Upper
188	100	
94	0.0	0.0
80	8.3	4.3

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

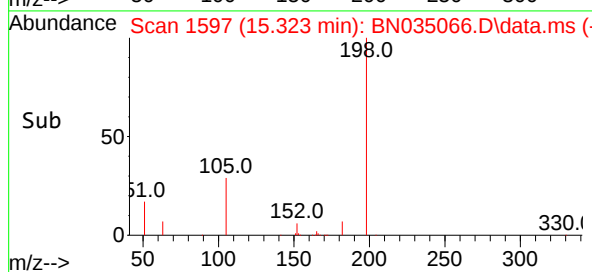
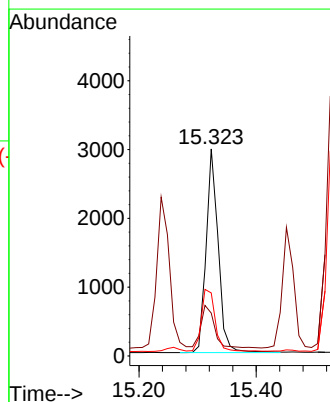
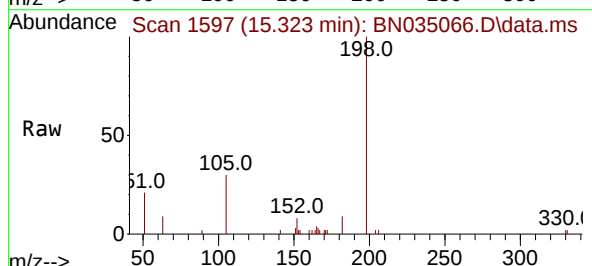
RT: 15.323 min Scan# 1597

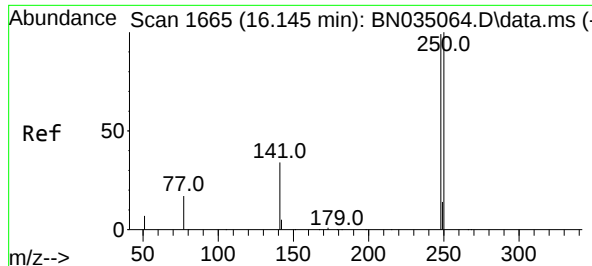
Delta R.T. -0.007 min

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
105	30.5	23.7





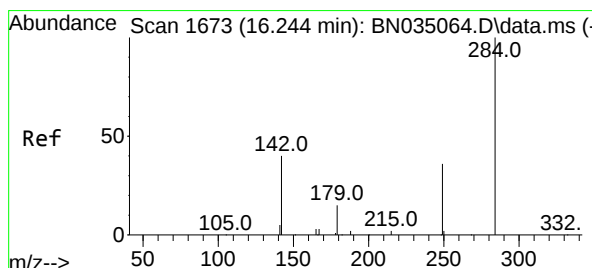
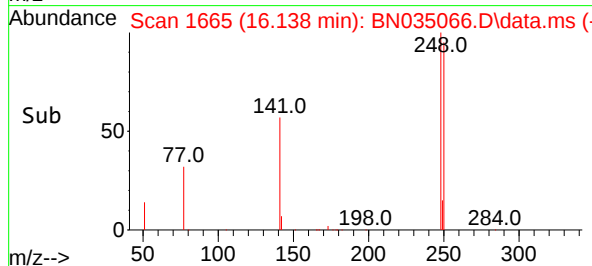
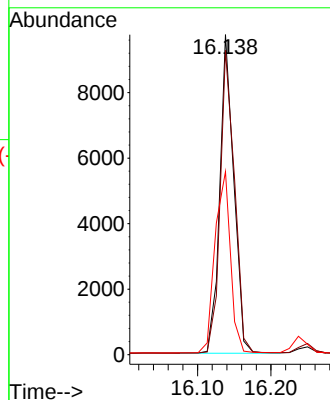
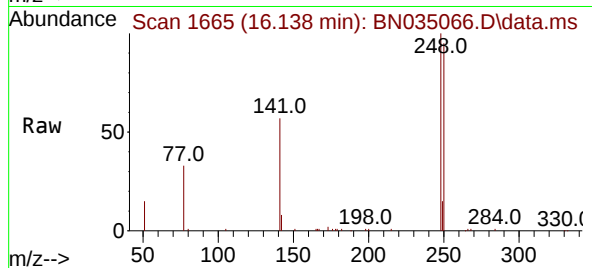
#21
4-Bromophenyl-phenylether
Concen: 1.676 ng
RT: 16.138 min Scan# 1665
Delta R.T. -0.007 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

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

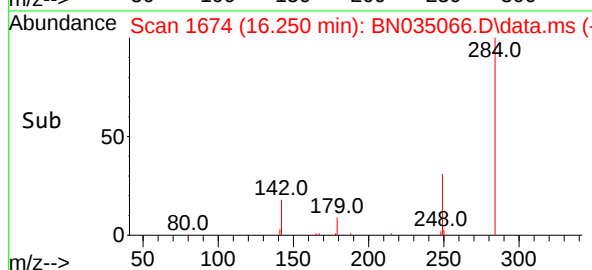
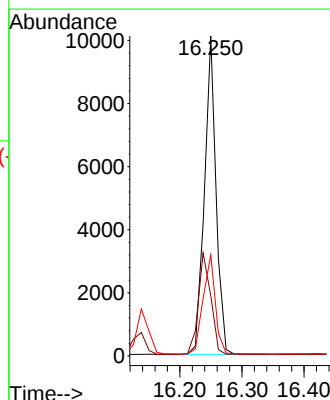
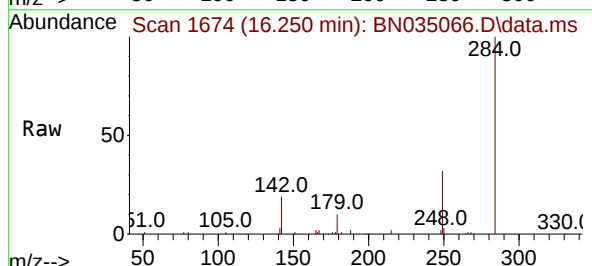
Manual Integrations
APPROVED

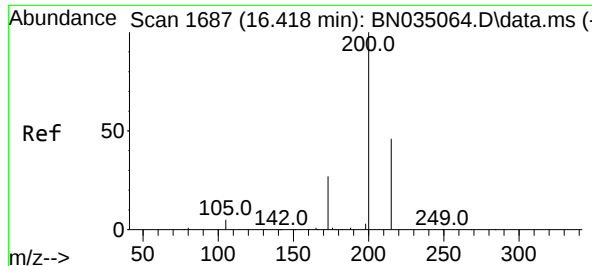
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#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





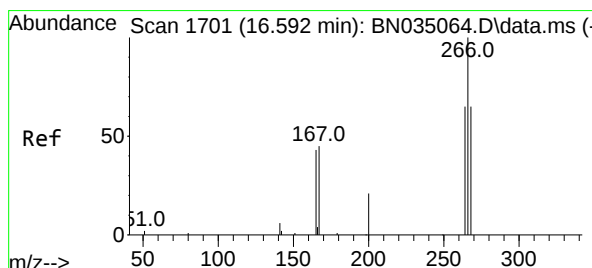
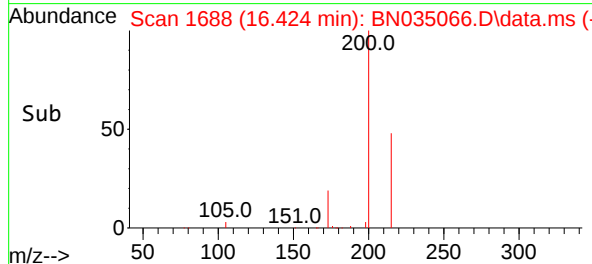
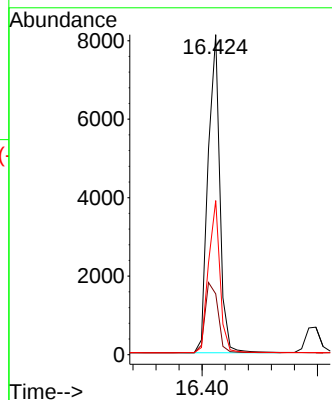
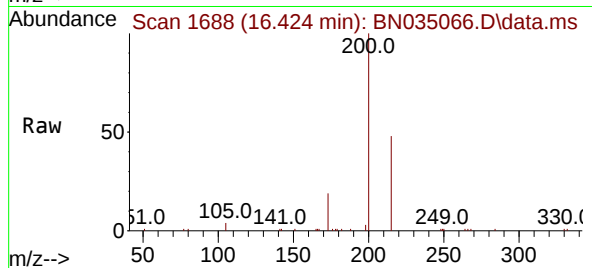
#23
Atrazine
Concen: 1.663 ng
RT: 16.424 min Scan# 1147
Delta R.T. 0.005 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

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

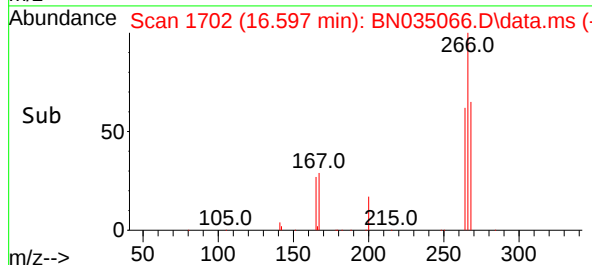
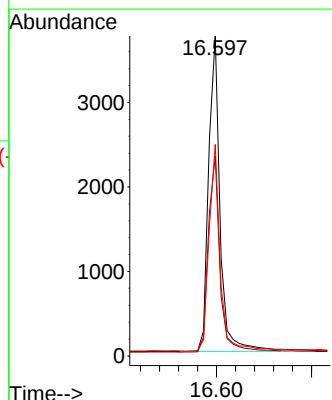
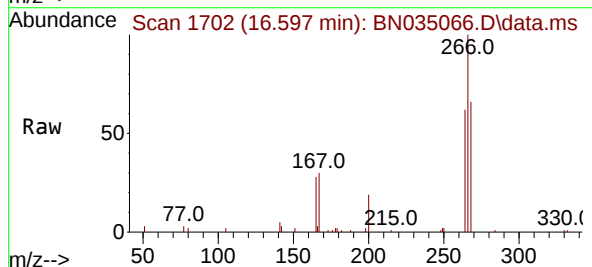
Manual Integrations
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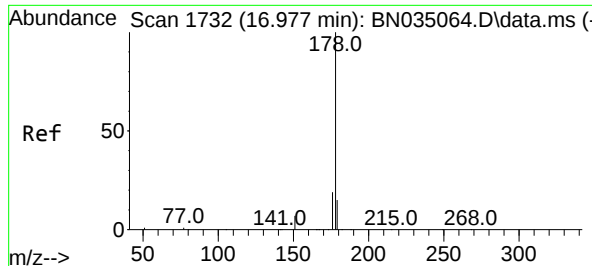
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#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





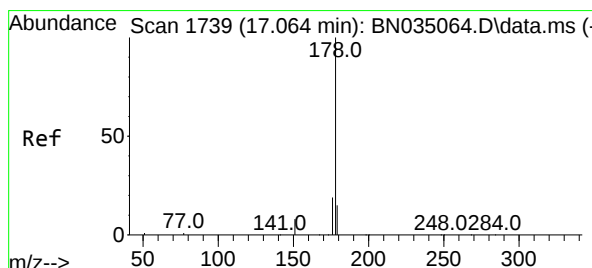
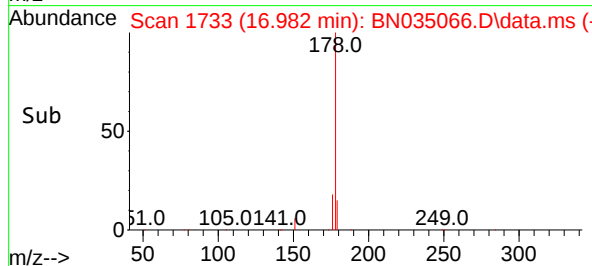
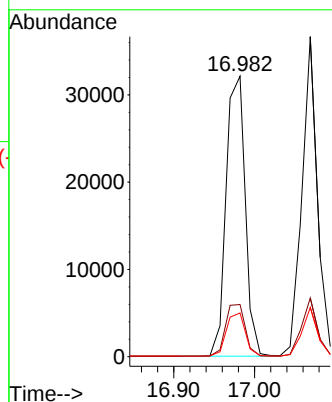
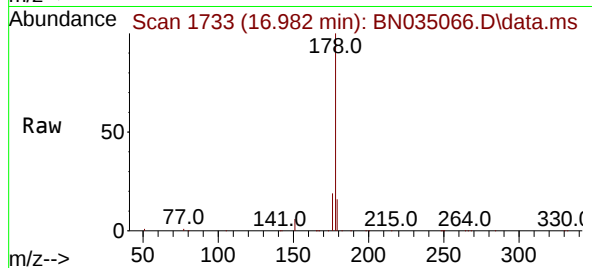
#25
Phenanthrene
Concen: 1.666 ng
RT: 16.982 min Scan# 1733
Delta R.T. 0.005 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

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

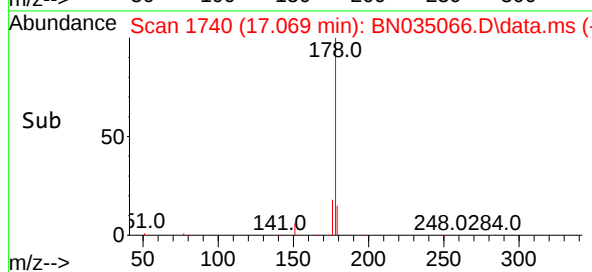
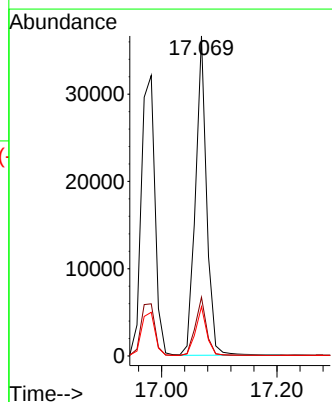
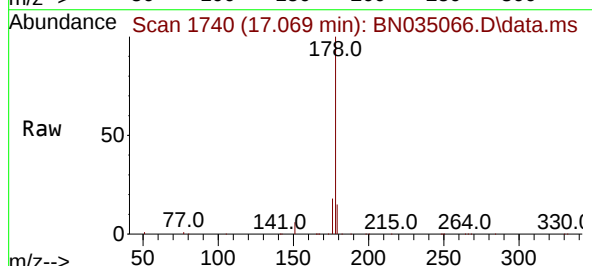
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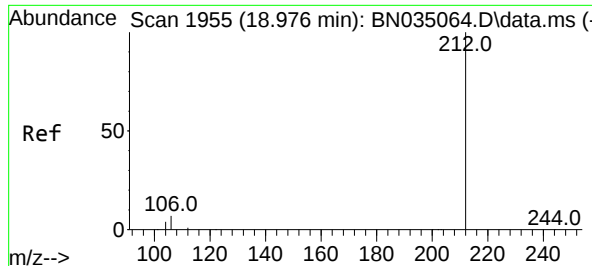
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#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

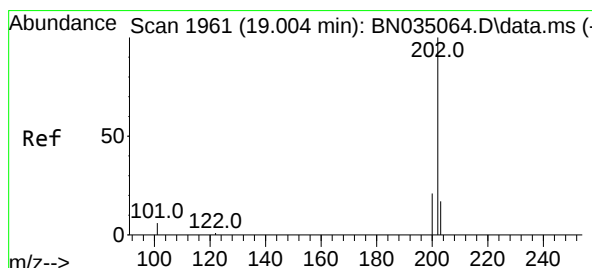
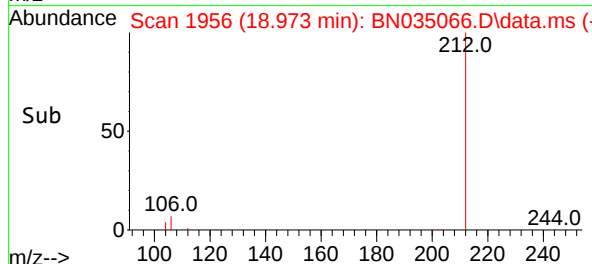
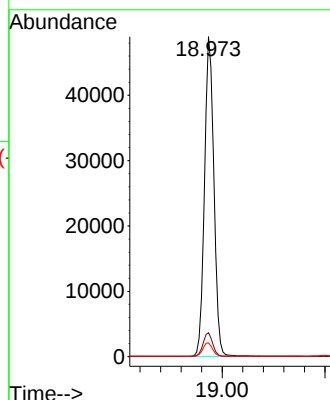
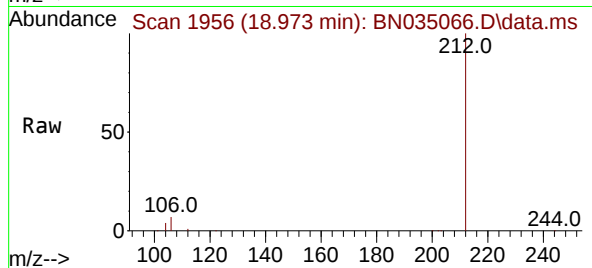
ClientSampleId :

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

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



#28

Fluoranthene

Concen: 1.687 ng

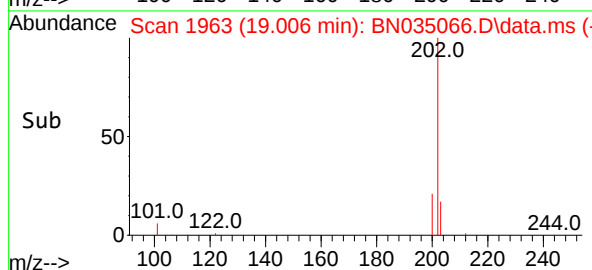
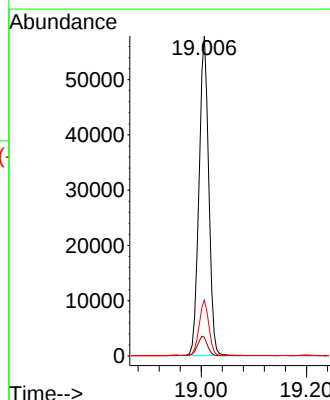
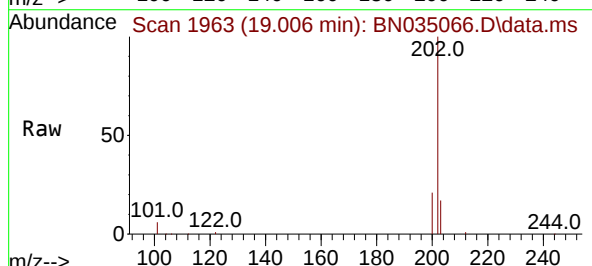
RT: 19.006 min Scan# 1963

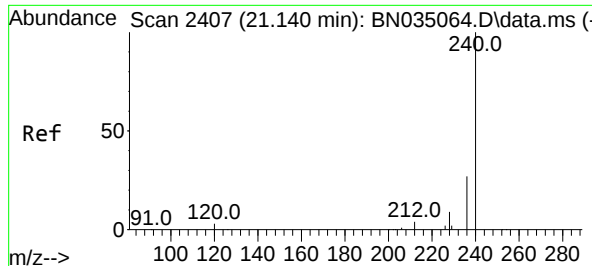
Delta R.T. 0.002 min

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 :

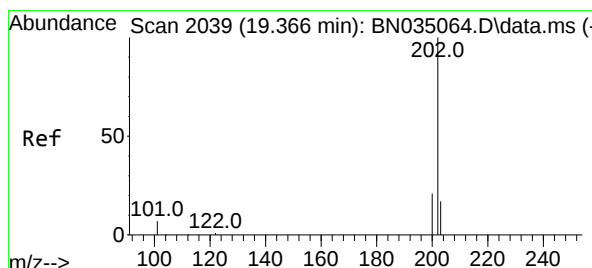
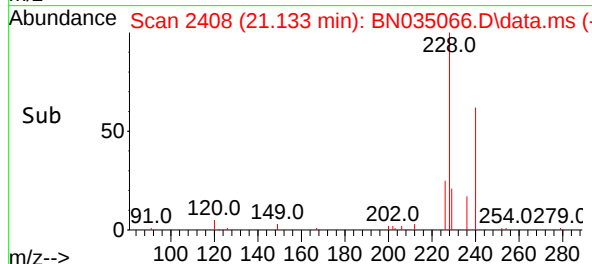
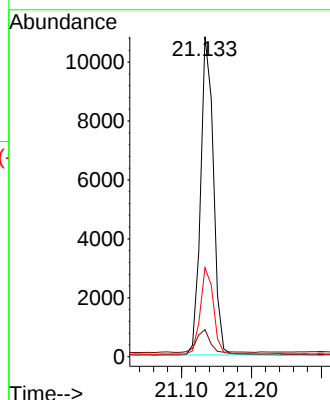
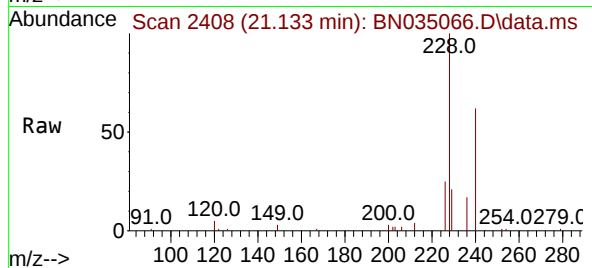
SSTDICC1.6

Tgt Ion:	240	Resp:	1382
Ion Ratio	Lower	Upper	
240	100		
120	8.5	3.8	5.6
236	27.8	22.2	33.2

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Reviewed By :Yogesh Patel 11/14/2024

Supervised By :mohammad ahmed 11/14/2024



#30

Pyrene

Concen: 1.641 ng

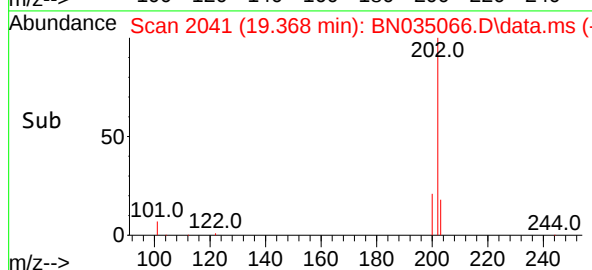
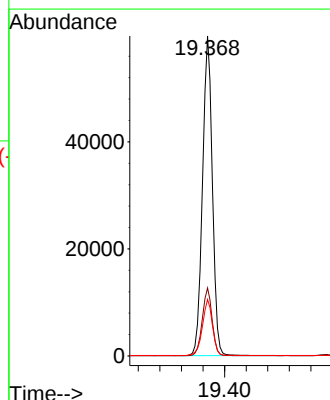
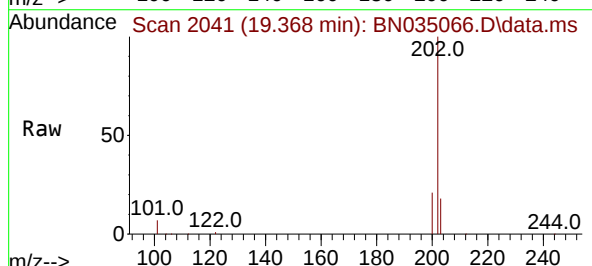
RT: 19.368 min Scan# 2041

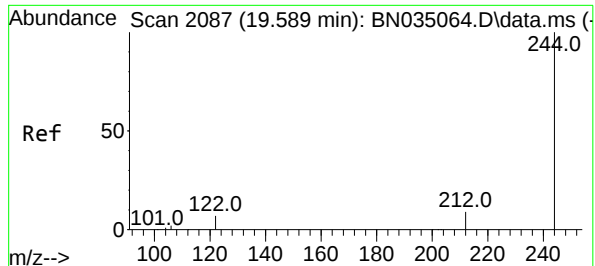
Delta R.T. 0.002 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

Tgt Ion:	202	Resp:	75558
Ion Ratio	Lower	Upper	
202	100		
200	21.0	16.7	25.1
203	17.9	14.2	21.4





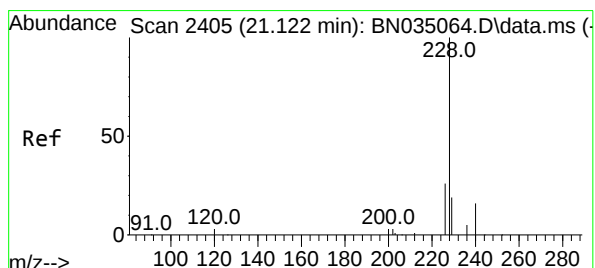
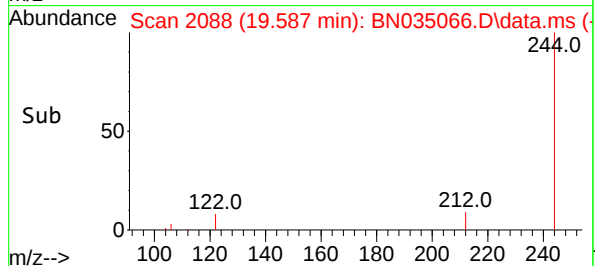
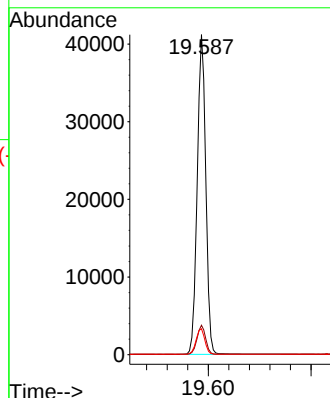
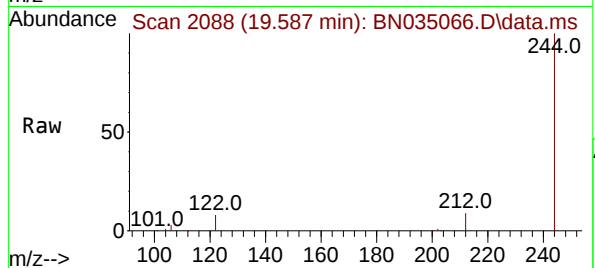
#31
Terphenyl-d14
Concen: 1.652 ng
RT: 19.587 min Scan# 2087
Delta R.T. -0.002 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:244 Resp: 47914
Ion Ratio Lower Upper
244 100
212 9.2 7.6 11.4
122 8.1 6.1 9.1

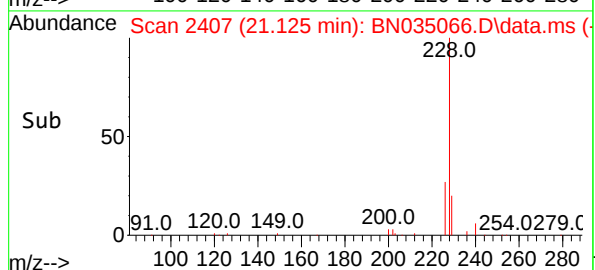
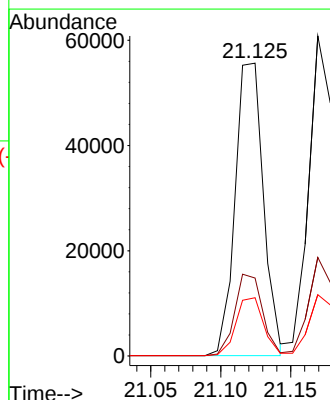
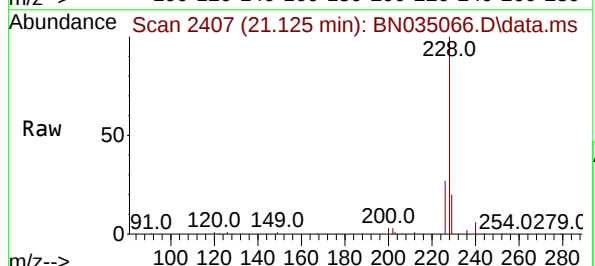
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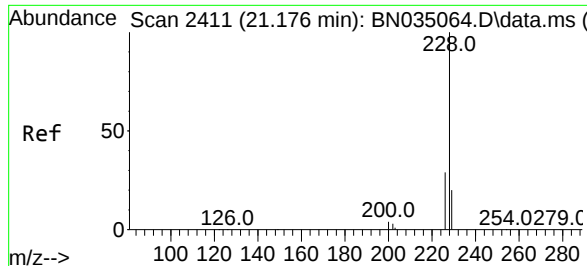
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#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: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: 7853

Ion Ratio Lower Upper

228 100

226 30.8 23.7 35.5

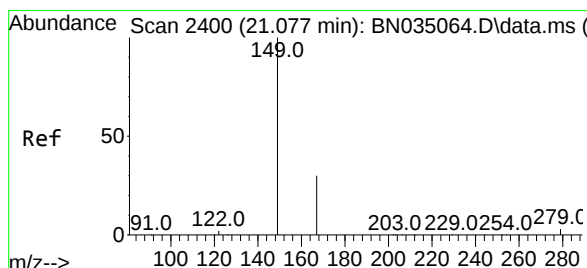
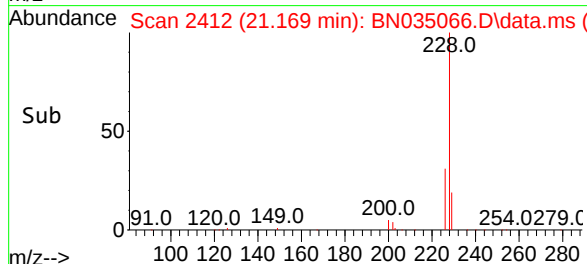
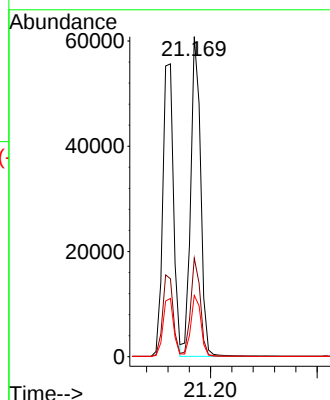
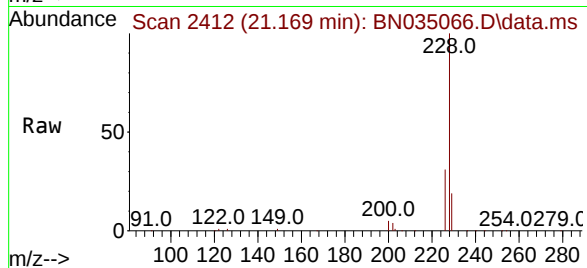
229 19.2 16.2 24.4

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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

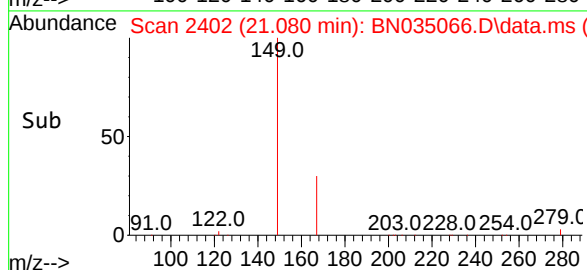
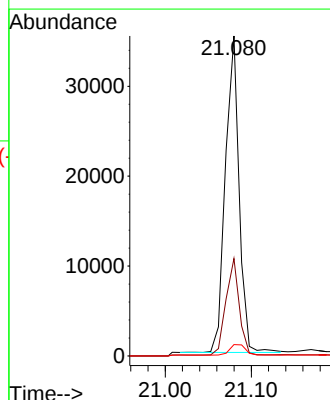
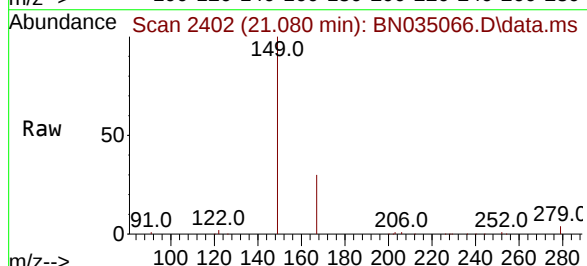
Tgt Ion:149 Resp: 38807

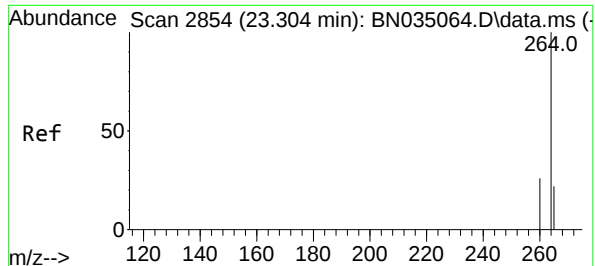
Ion Ratio Lower Upper

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

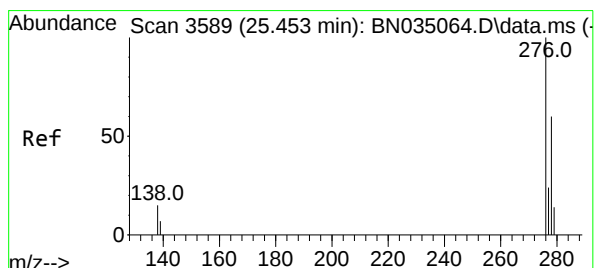
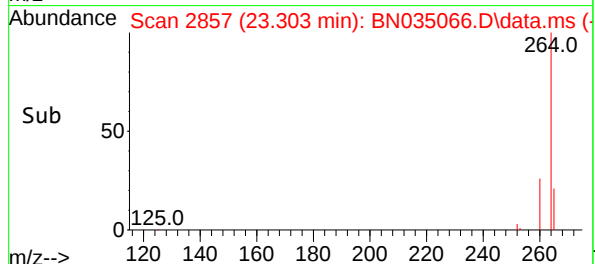
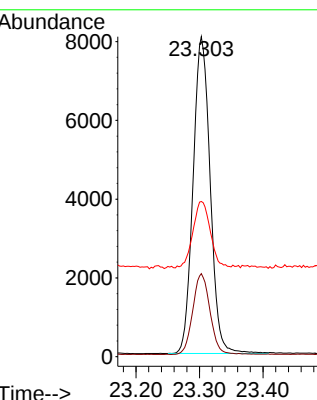
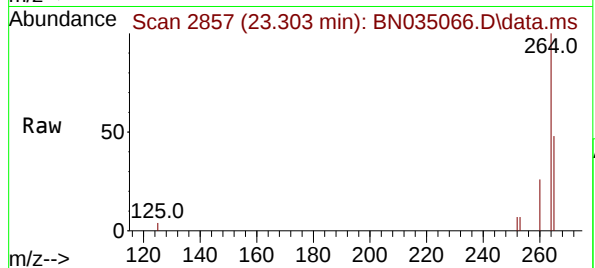
265 48.5 35.4 53.2

Manual Integrations

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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: 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

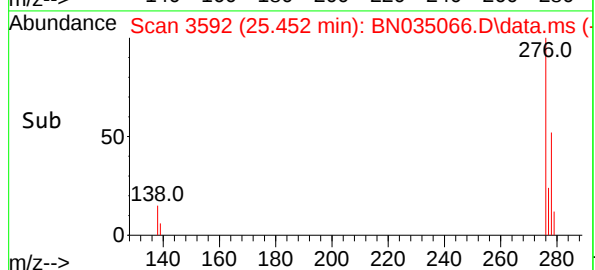
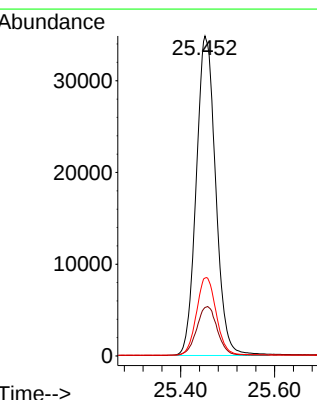
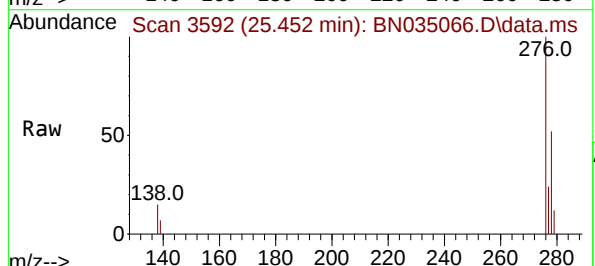
Tgt Ion:276 Resp: 99936

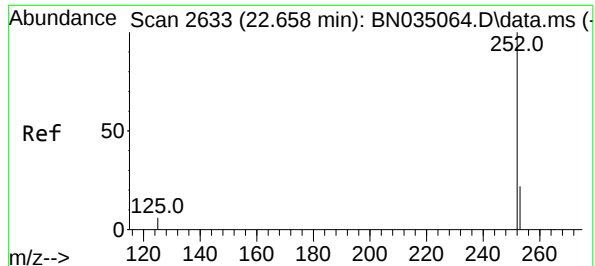
Ion Ratio Lower Upper

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

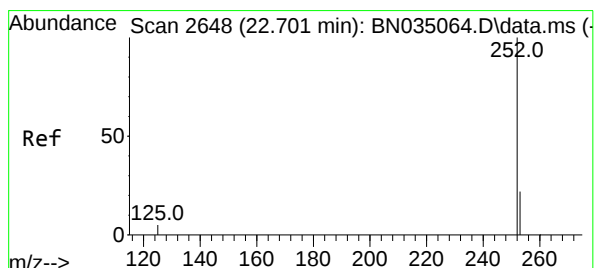
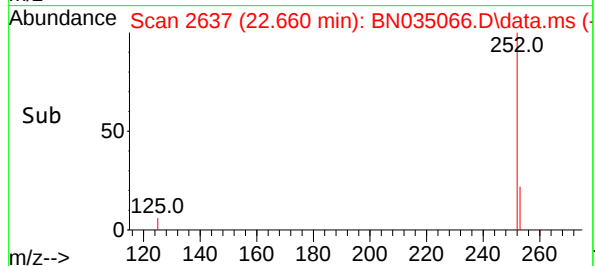
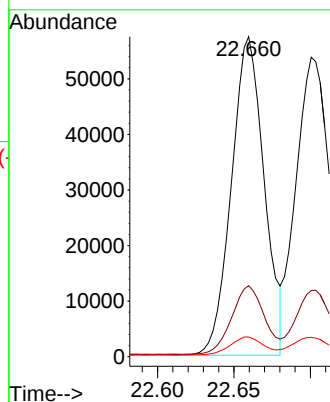
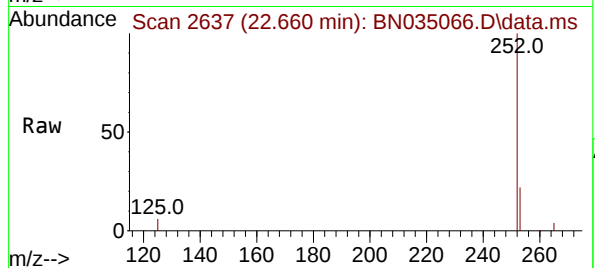
Ion	Ratio	Lower	Upper
252	100		
253	22.2	19.3	28.9
125	6.1	6.2	9.2

Manual Integrations

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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

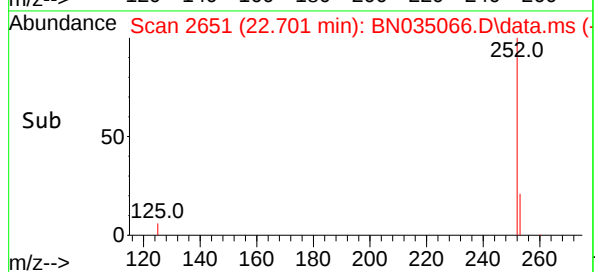
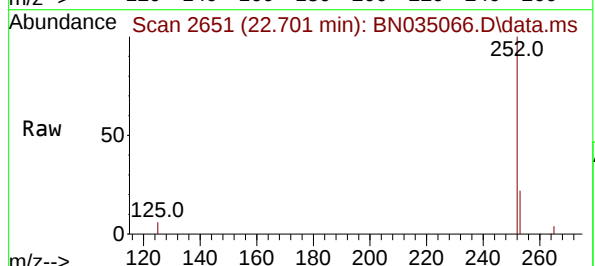
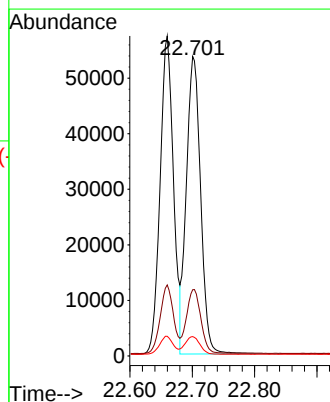
Delta R.T. -0.001 min

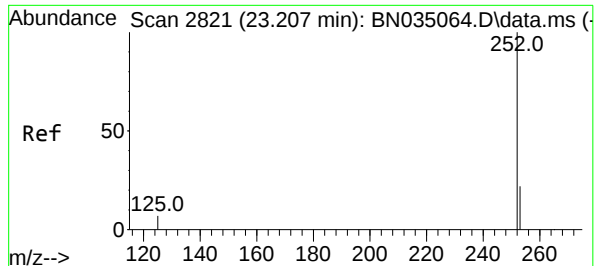
Lab File: BN035066.D

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# 2821

Delta R.T. 0.002 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

Instrument :

BNA_N

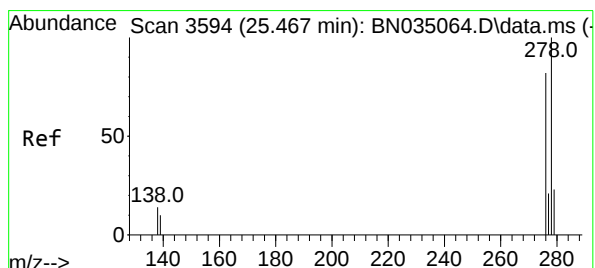
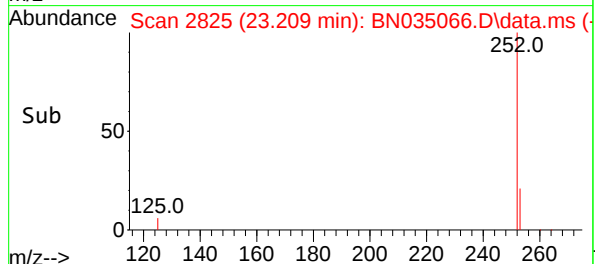
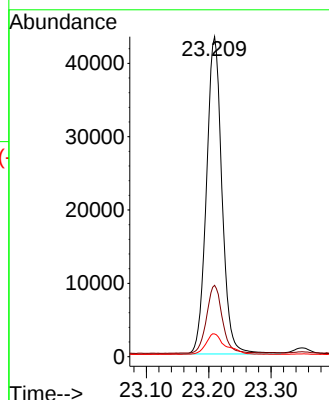
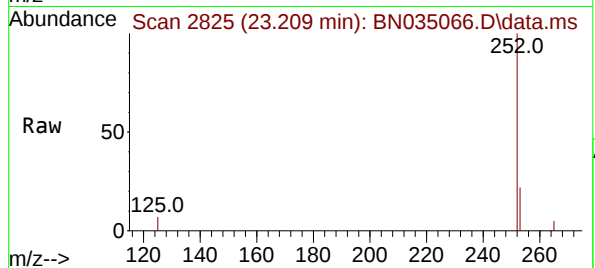
ClientSampleId :

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



#40

Dibenzo(a,h)anthracene

Concen: 1.673 ng

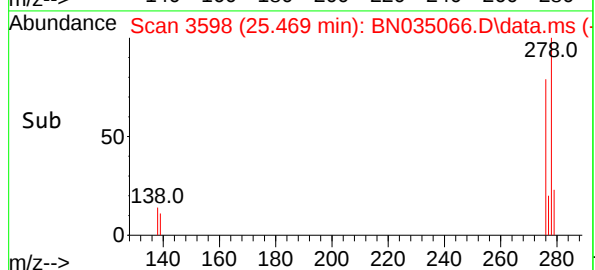
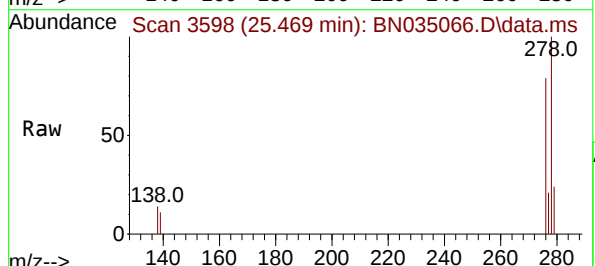
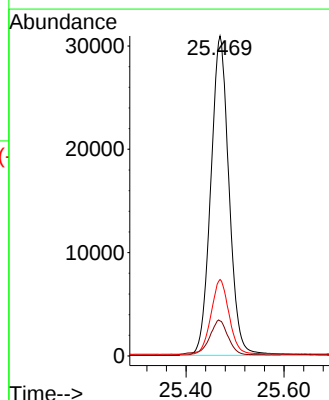
RT: 25.469 min Scan# 3598

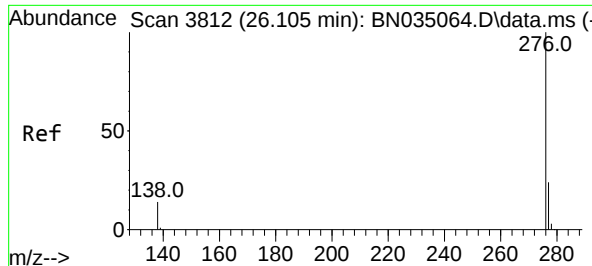
Delta R.T. 0.002 min

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

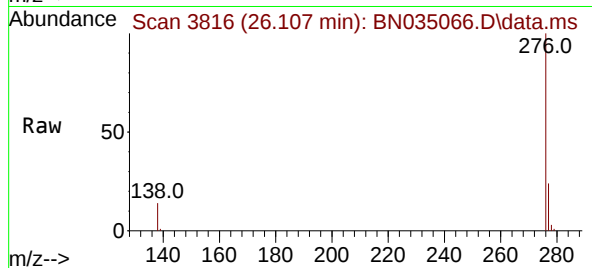
Acq: 13 Nov 2024 15:04

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



Tgt Ion:276 Resp: 83498

Ion Ratio Lower Upper

276 100

277 23.7 19.9 29.9

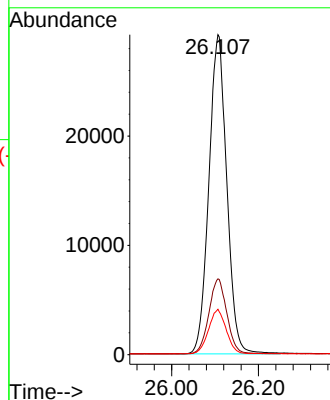
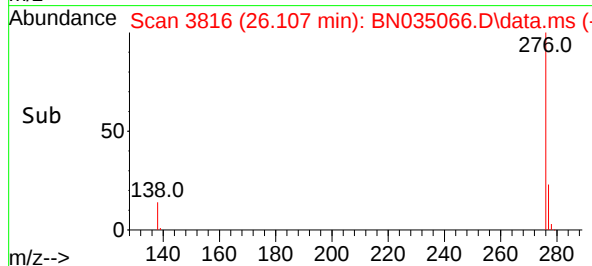
138 14.2 11.6 17.4

Manual Integrations

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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 : 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						
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

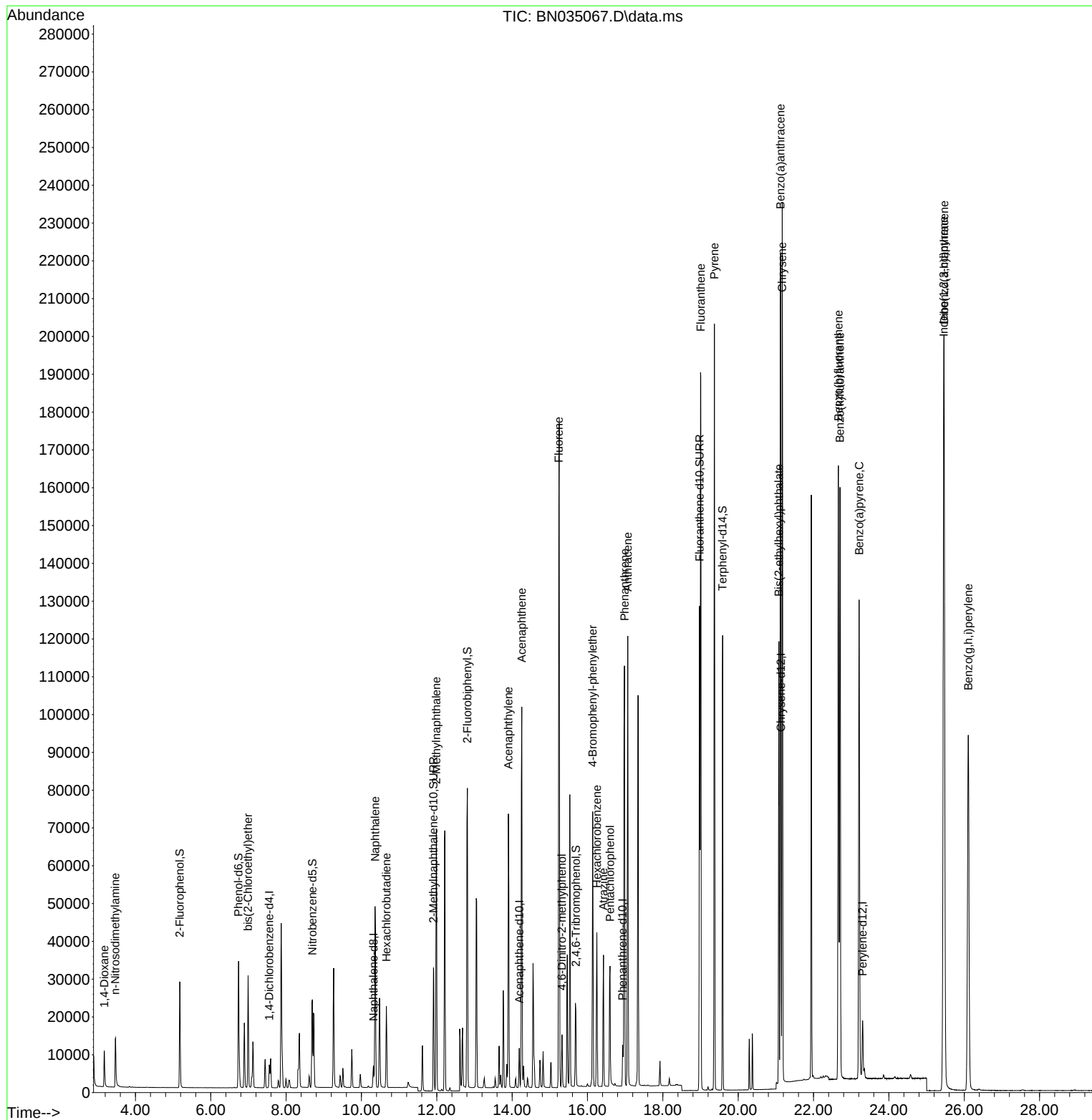
Quant Time: Nov 13 16:45:11 2024

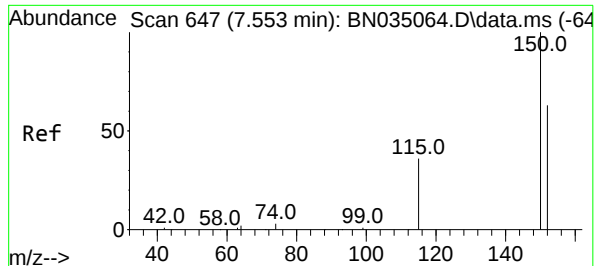
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Response via : Initial Calibration





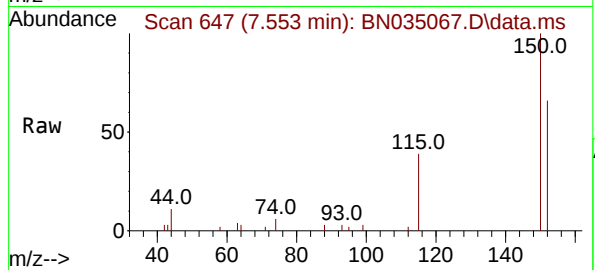
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.553 min Scan# 647
Delta R.T. 0.000 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Instrument :

BNA_N

ClientSampleId :

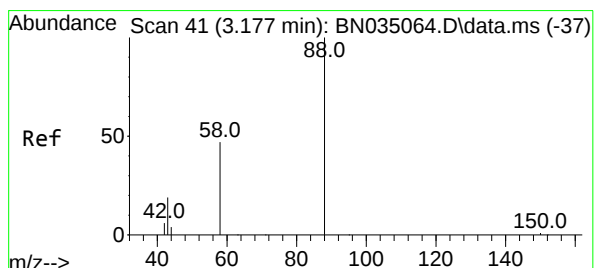
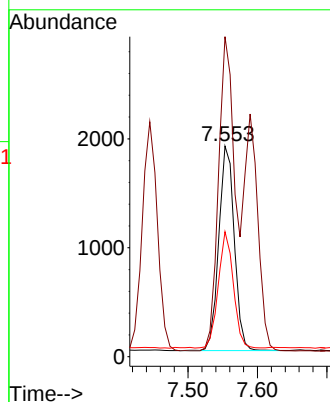
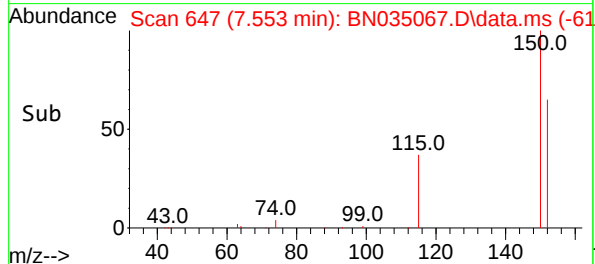
SSTDICC3.2



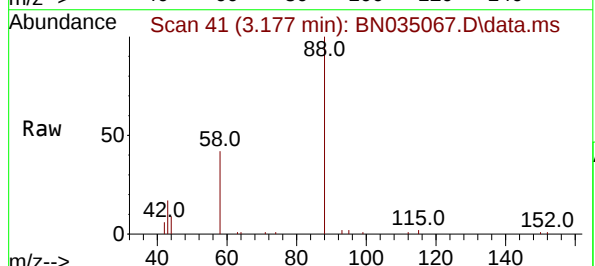
Tgt Ion: 152 Resp: 2920
Ion Ratio Lower Upper
152 100
150 152.0 124.5 186.7
115 59.4 47.8 71.6

Manual Integrations
APPROVED

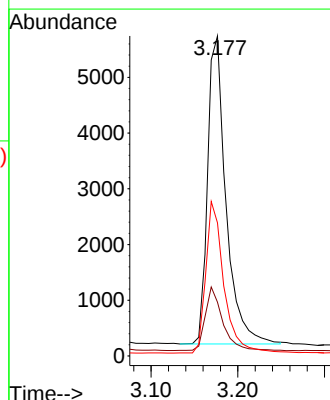
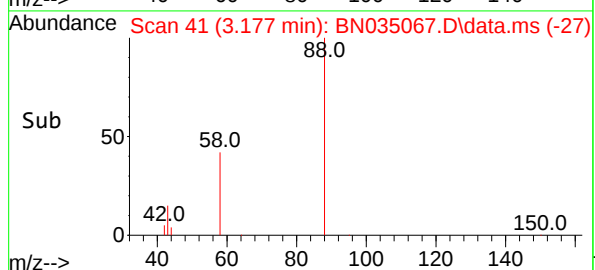
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

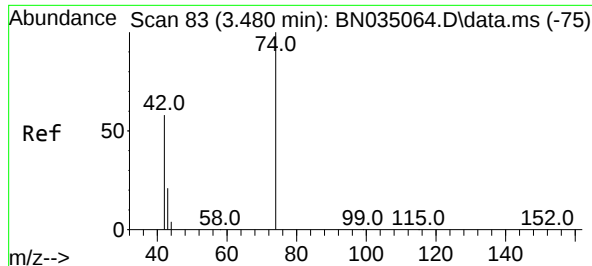


#2
1,4-Dioxane
Concen: 3.066 ng
RT: 3.177 min Scan# 41
Delta R.T. -0.000 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39



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

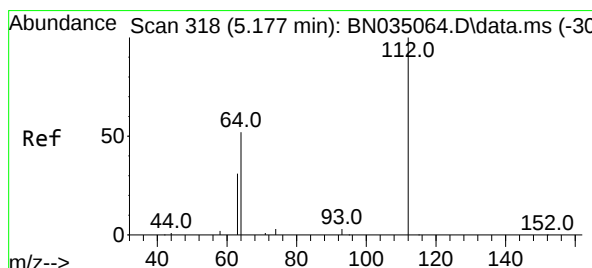
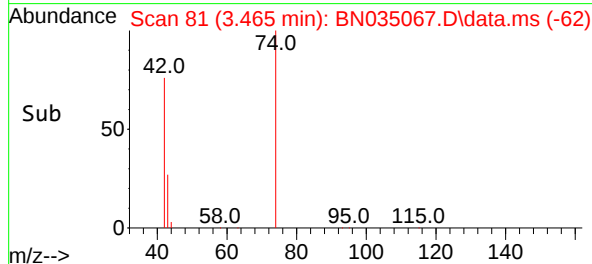
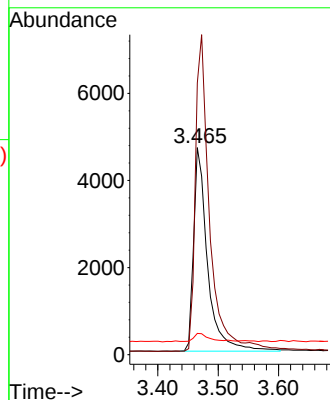
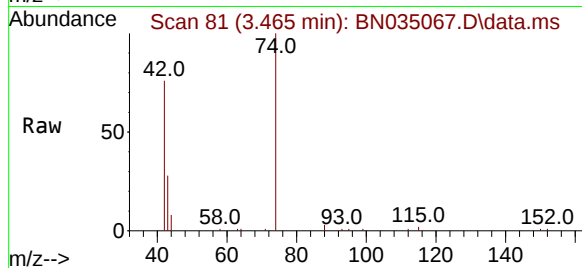
ClientSampleId :

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

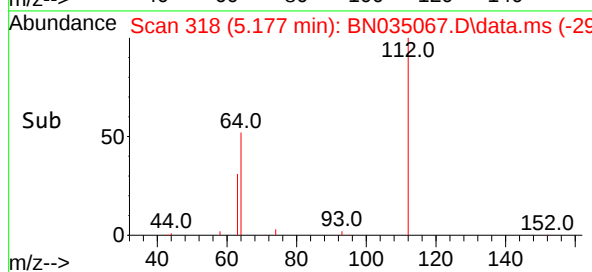
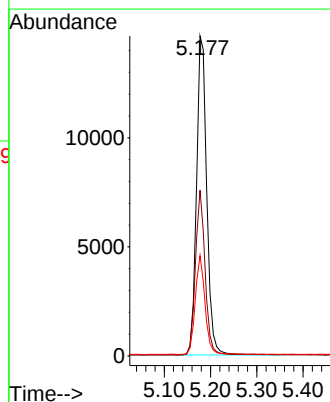
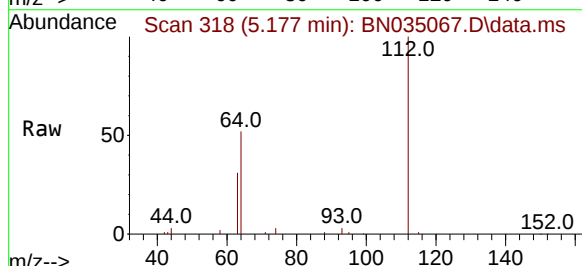
Manual Integrations
APPROVED

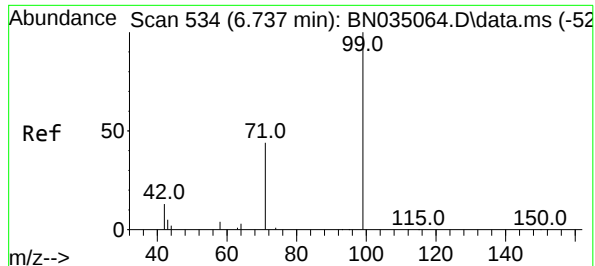
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#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

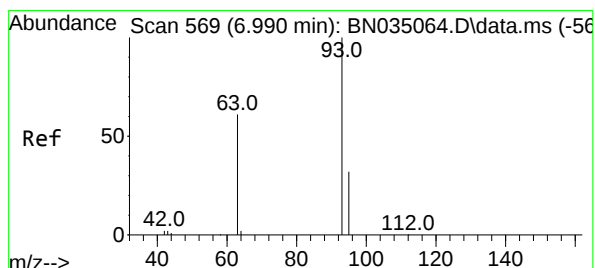
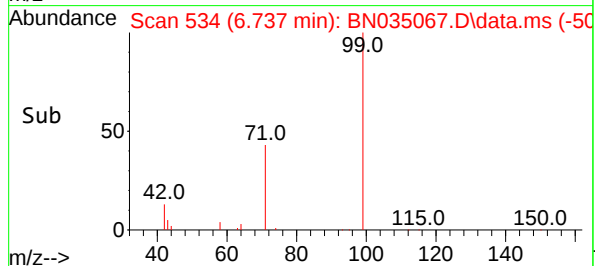
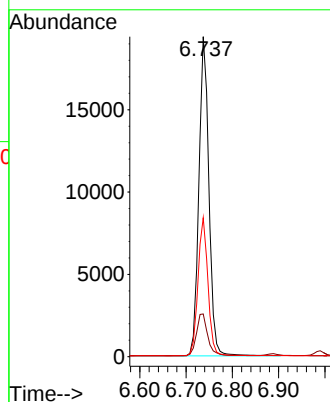
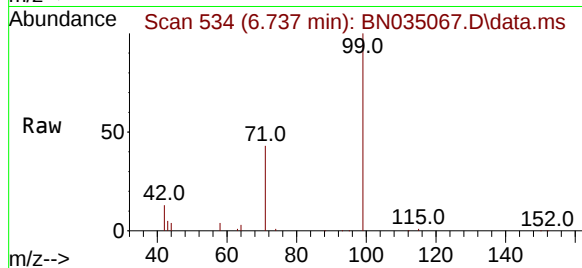
ClientSampleId :

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
APPROVED

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



#6

bis(2-Chloroethyl)ether

Concen: 3.099 ng

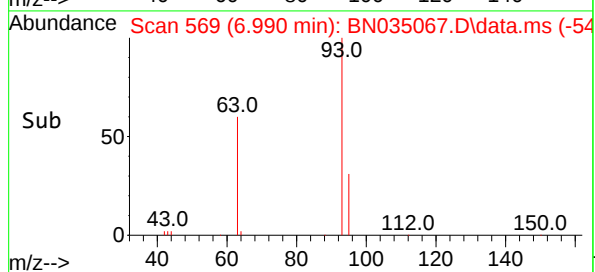
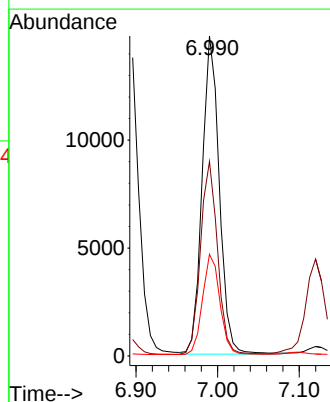
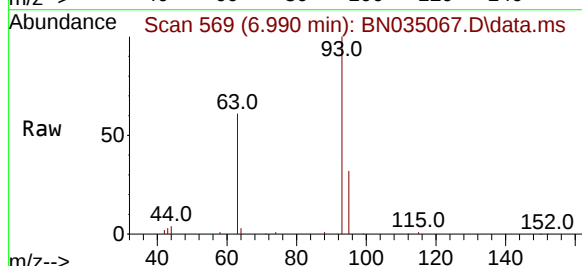
RT: 6.990 min Scan# 569

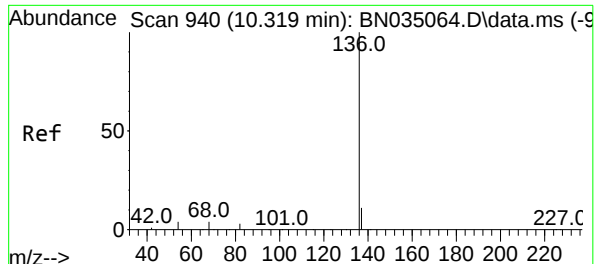
Delta R.T. -0.000 min

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





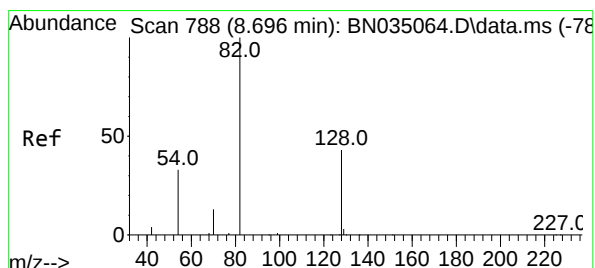
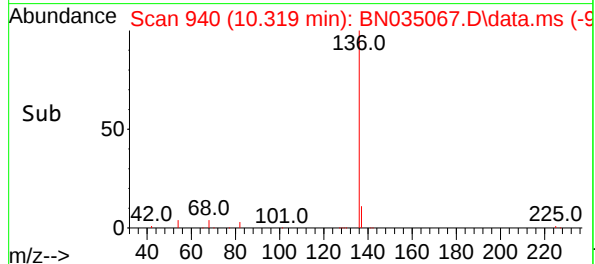
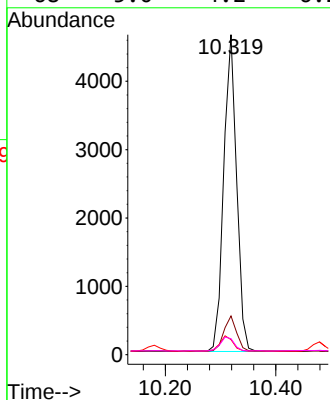
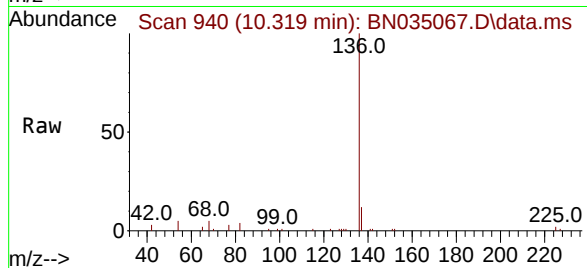
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.319 min Scan# 940
Delta R.T. -0.000 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

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

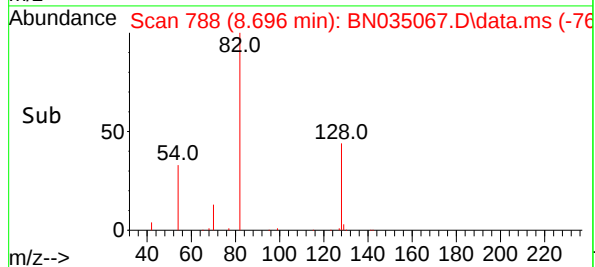
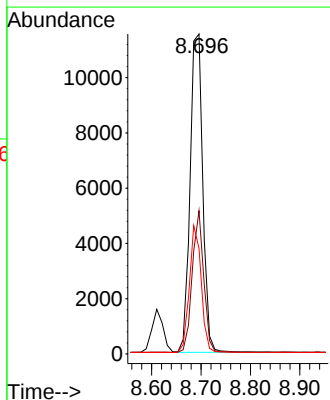
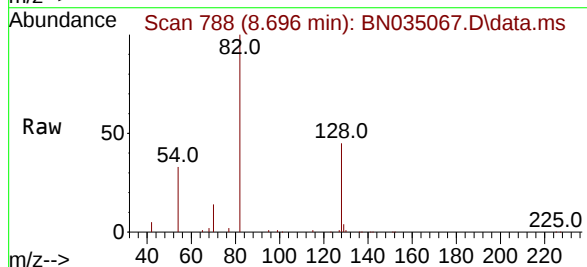
Manual Integrations
APPROVED

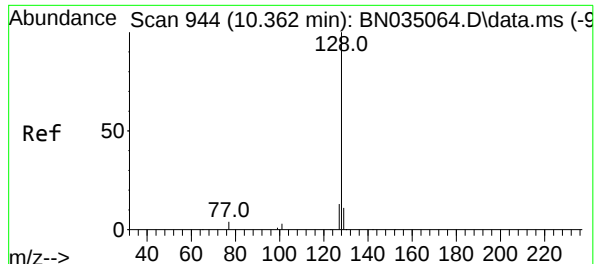
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#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

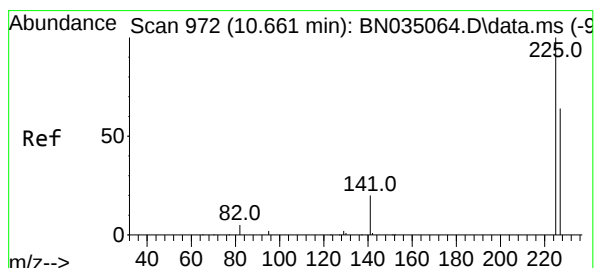
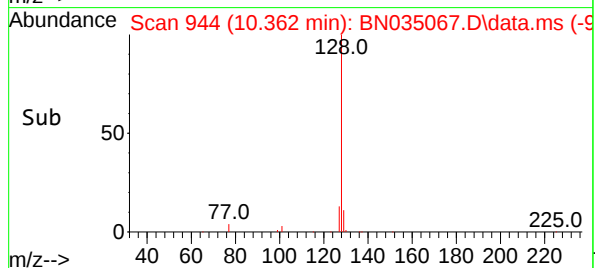
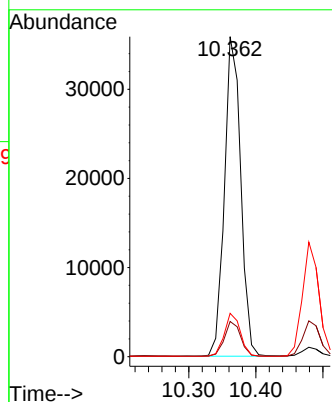
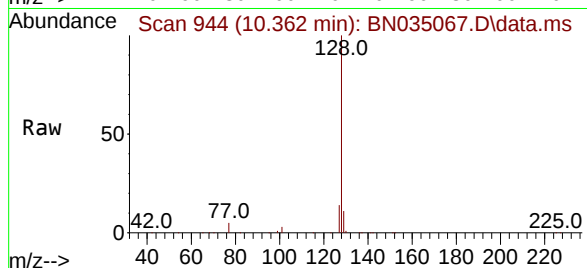
ClientSampleId :

SSTDICC3.2

Tgt Ion:	128	Resp:	6046
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

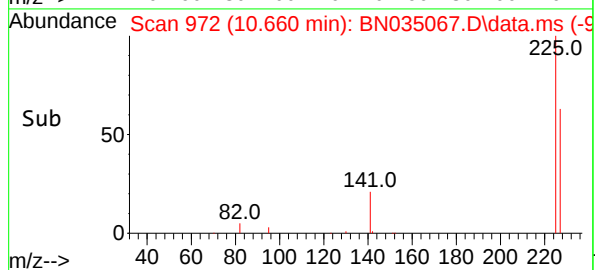
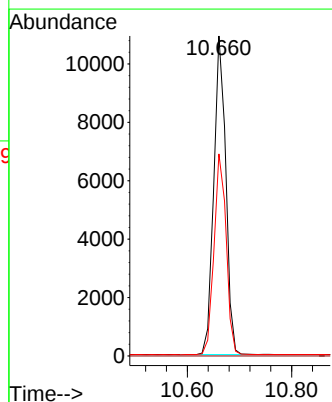
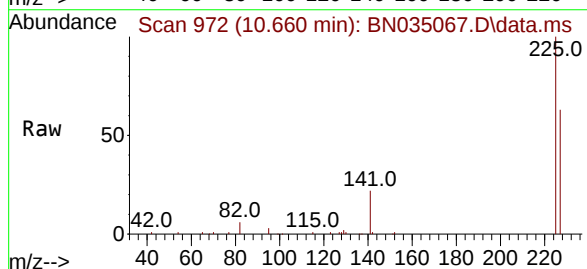
RT: 10.660 min Scan# 972

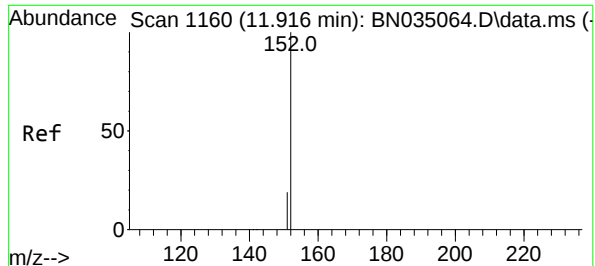
Delta R.T. -0.000 min

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





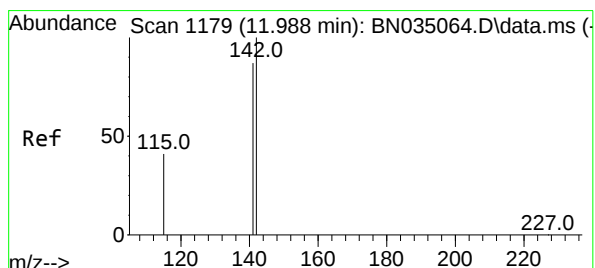
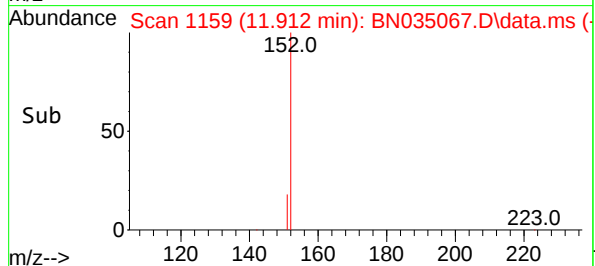
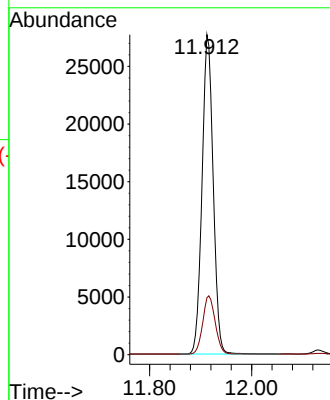
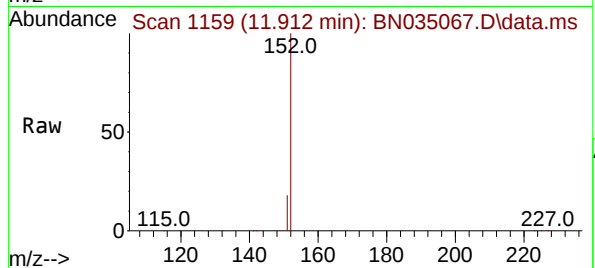
#11
2-Methylnaphthalene-d10
Concen: 3.157 ng
RT: 11.912 min Scan# 1160
Delta R.T. -0.004 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:152 Resp: 42128
Ion Ratio Lower Upper
152 100
151 20.4 16.2 24.4

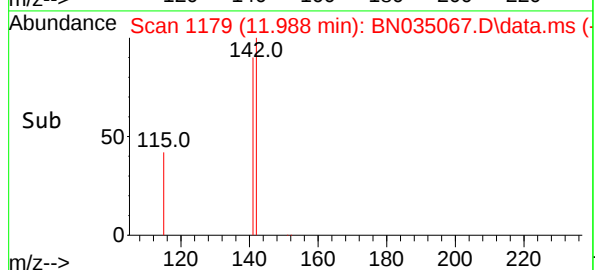
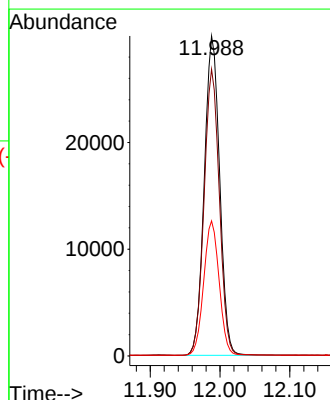
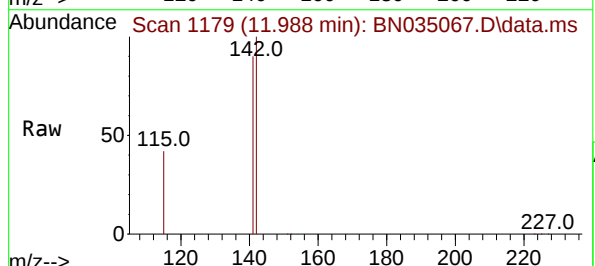
Manual Integrations
APPROVED

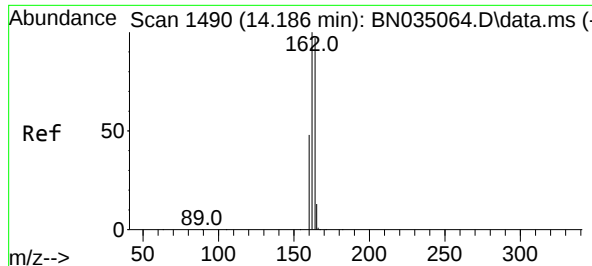
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#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

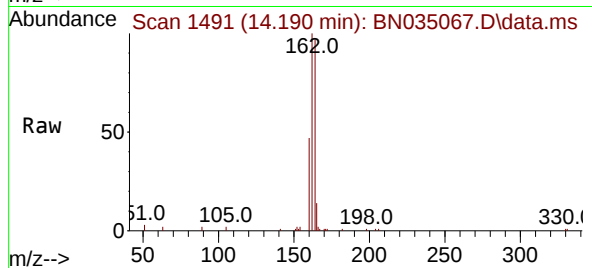
Tgt Ion:142 Resp: 45806
Ion Ratio Lower Upper
142 100
141 89.6 70.1 105.1
115 42.2 34.4 51.6





#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

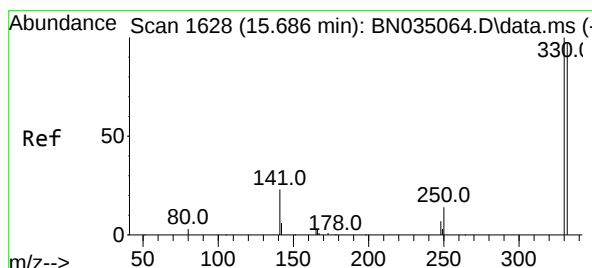
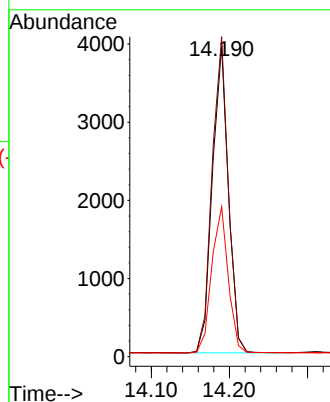
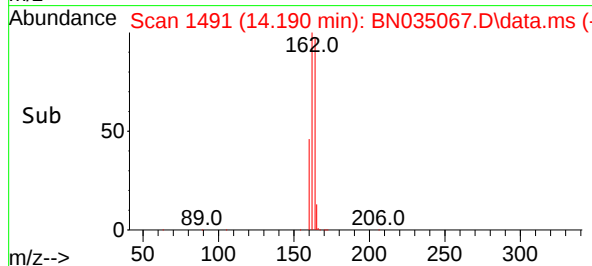
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2



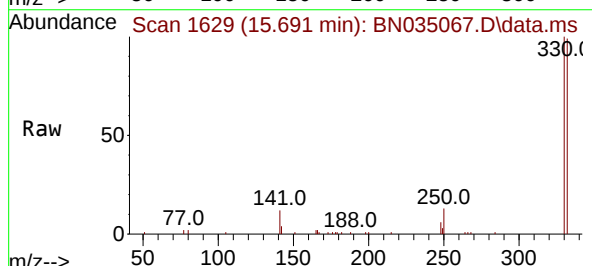
Tgt Ion:164 Resp: 559
Ion Ratio Lower Upper
164 100
162 102.9 82.2 123.2
160 48.2 40.2 60.4

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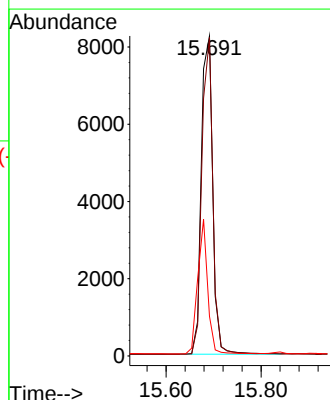
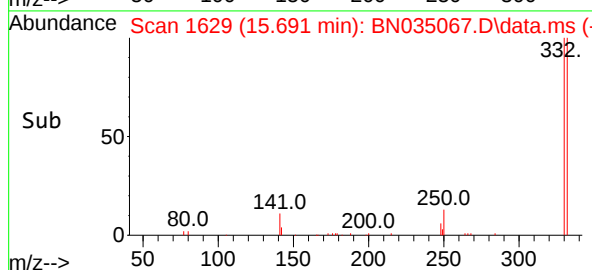
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

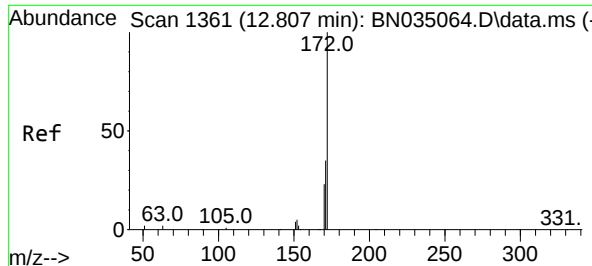


#14
2,4,6-Tribromophenol
Concen: 3.417 ng
RT: 15.691 min Scan# 1629
Delta R.T. 0.005 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39



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# 1362

Delta R.T. 0.004 min

Lab File: BN035067.D

Acq: 13 Nov 2024 15:39

Instrument :

BNA_N

ClientSampleId :

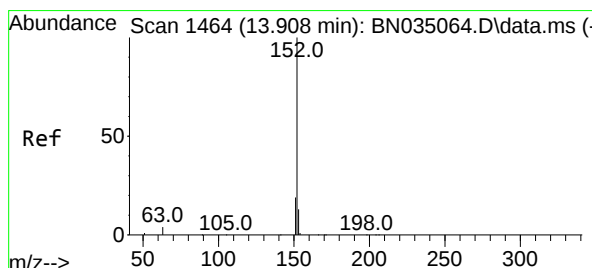
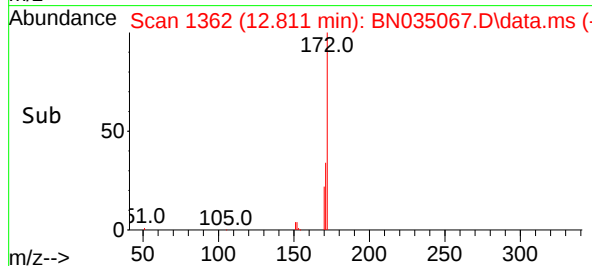
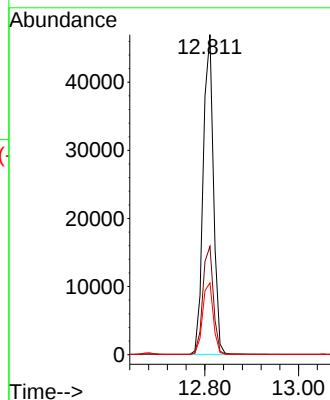
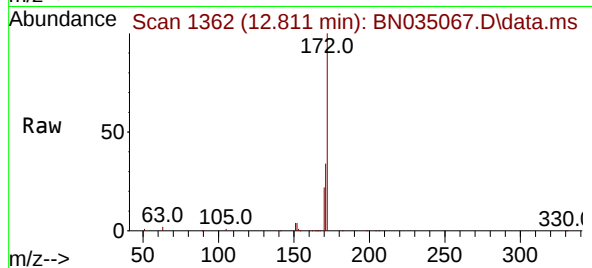
SSTDICC3.2

Tgt Ion:	172	Resp:	7154
Ion Ratio	Lower	Upper	
172	100		
171	33.9	28.2	42.4
170	22.5	19.0	28.6

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Reviewed By :Yogesh Patel 11/14/2024

Supervised By :mohammad ahmed 11/14/2024



#16

Acenaphthylene

Concen: 3.286 ng

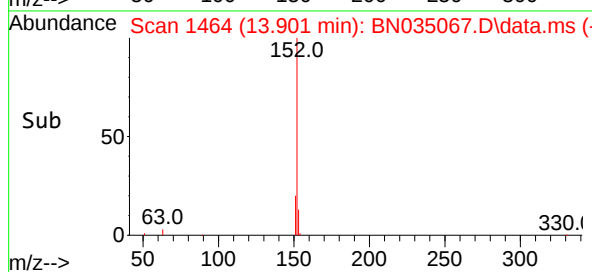
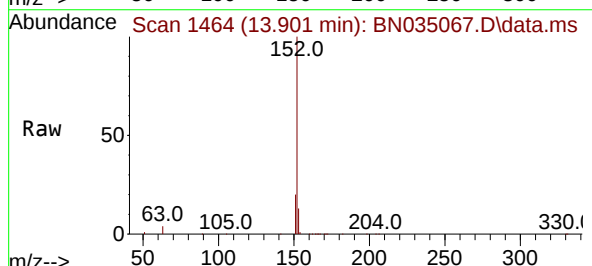
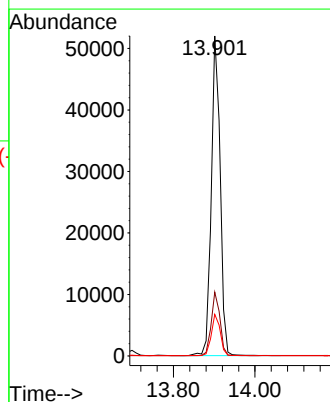
RT: 13.901 min Scan# 1464

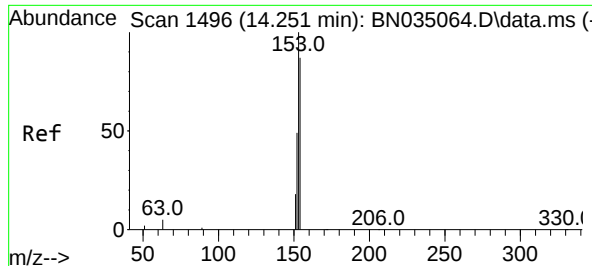
Delta R.T. -0.007 min

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





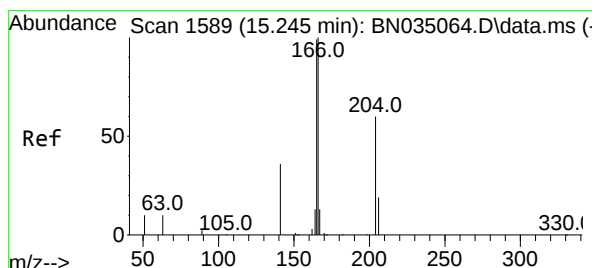
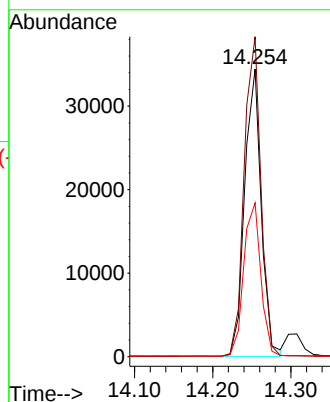
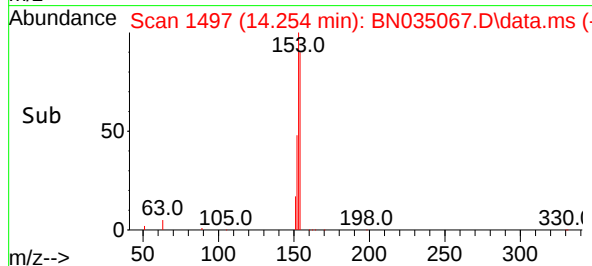
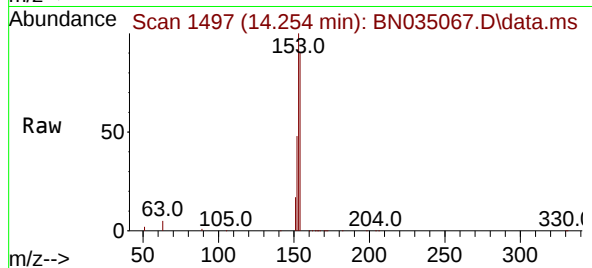
#17
Acenaphthene
Concen: 3.227 ng
RT: 14.254 min Scan# 1496
Delta R.T. 0.004 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:154 Resp: 5054
Ion Ratio Lower Upper
154 100
153 112.9 91.6 137.4
152 55.6 45.8 68.6

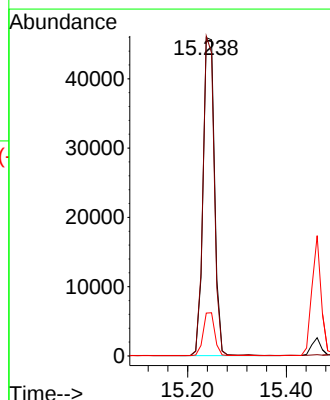
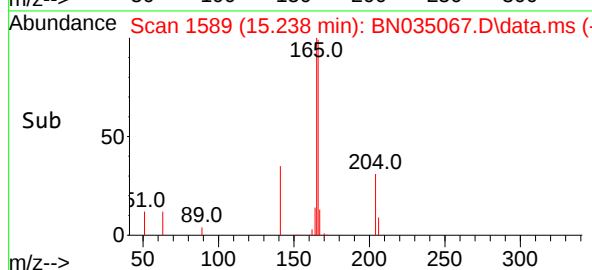
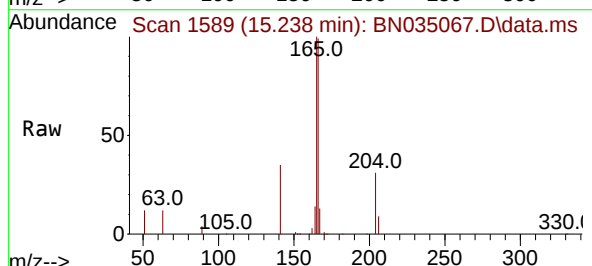
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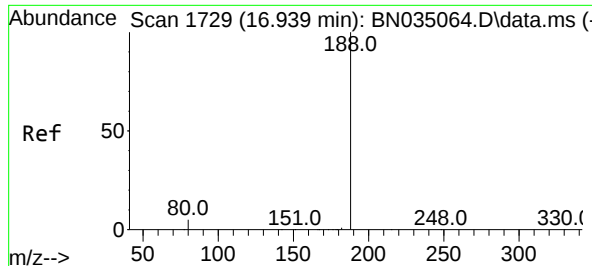
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#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 :

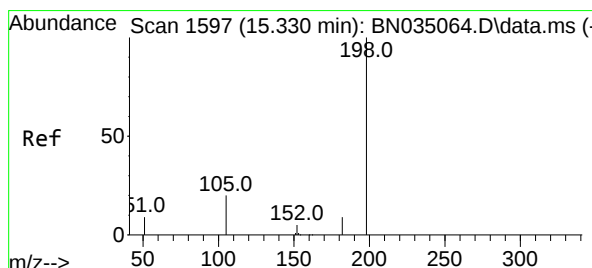
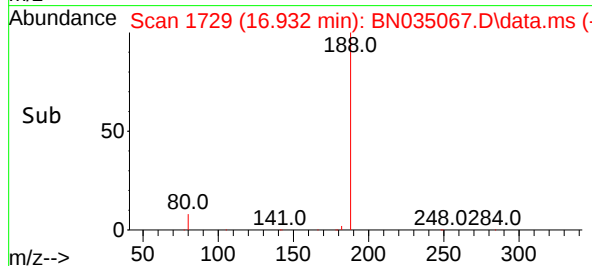
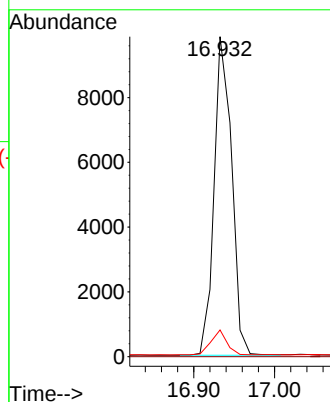
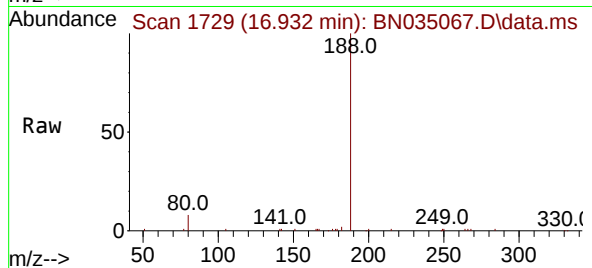
SSTDICC3.2

Tgt Ion:188	Resp:	14864
Ion Ratio	Lower	Upper
188	100	
94	0.0	0.0
80	8.3	4.3

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

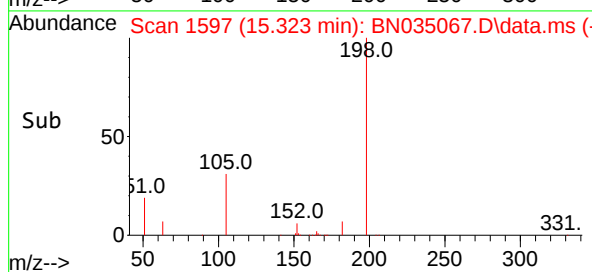
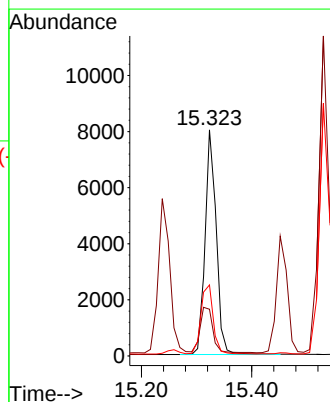
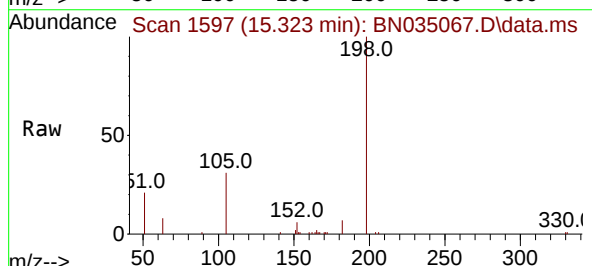
RT: 15.323 min Scan# 1597

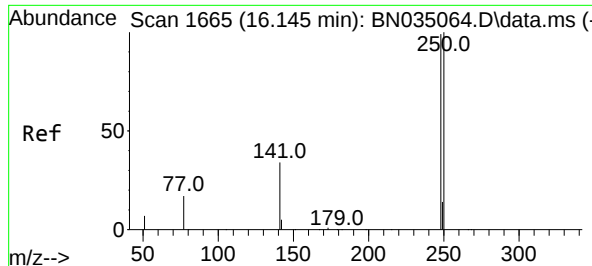
Delta R.T. -0.007 min

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
105	31.4	44.9





#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 :

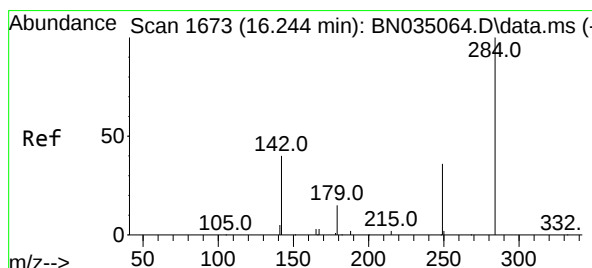
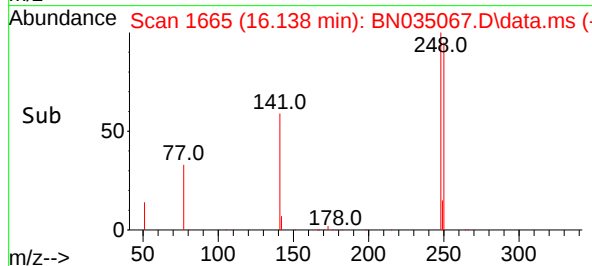
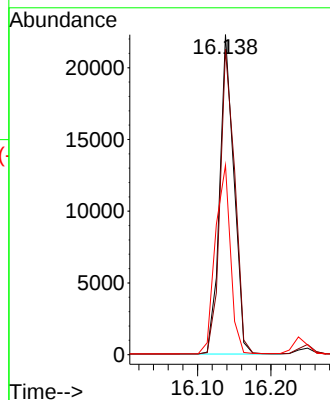
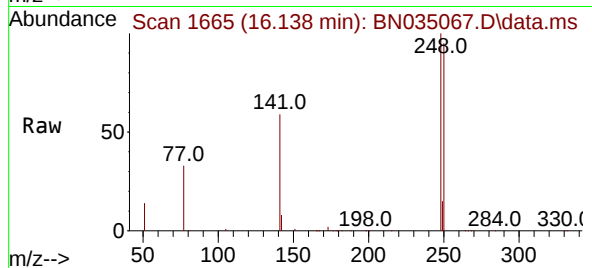
SSTDICC3.2

Tgt Ion	Ratio	Lower	Upper
248	100		
250	95.4	81.2	121.8
141	59.2	29.1	43.7

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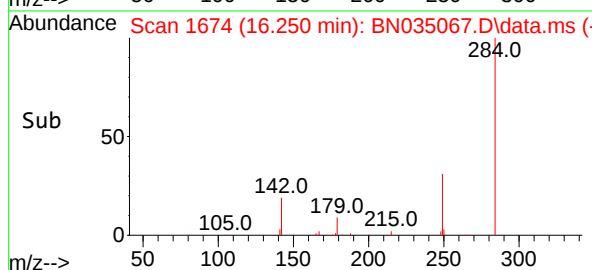
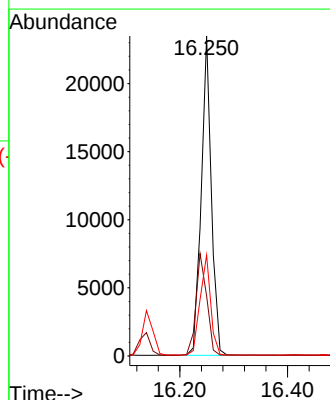
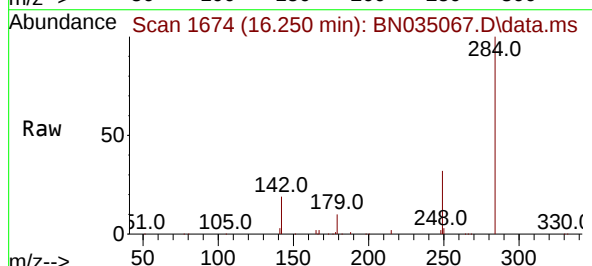
APPROVED

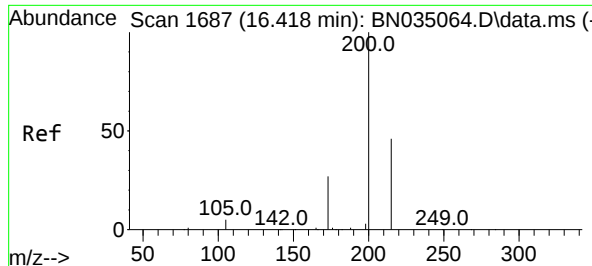
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#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	Ratio	Lower	Upper
284	100		
142	33.9	28.2	42.4
249	32.8	26.2	39.2





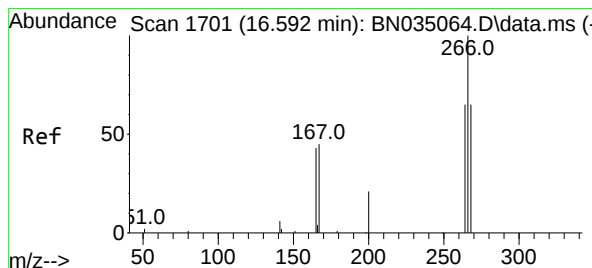
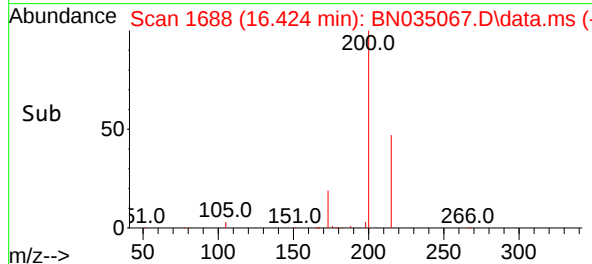
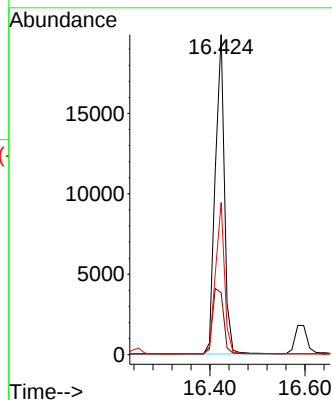
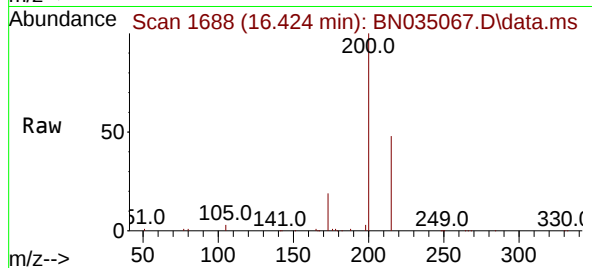
#23
Atrazine
Concen: 3.127 ng
RT: 16.424 min Scan# 1687
Delta R.T. 0.005 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

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

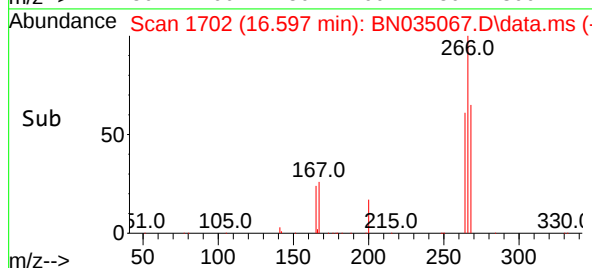
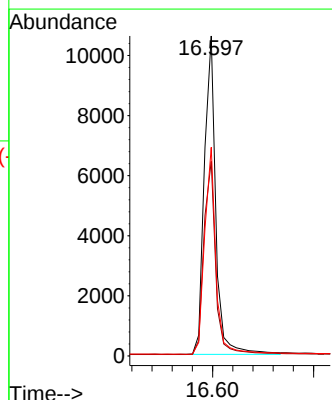
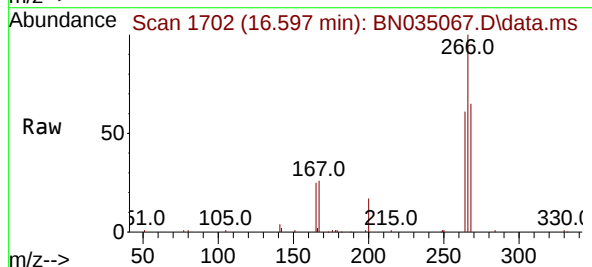
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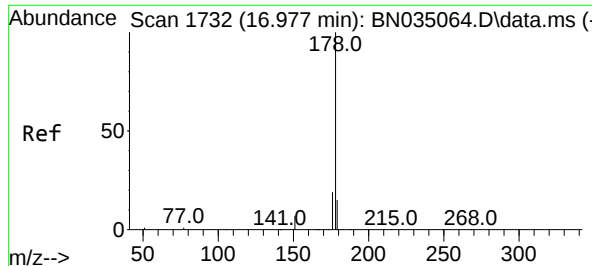
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#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

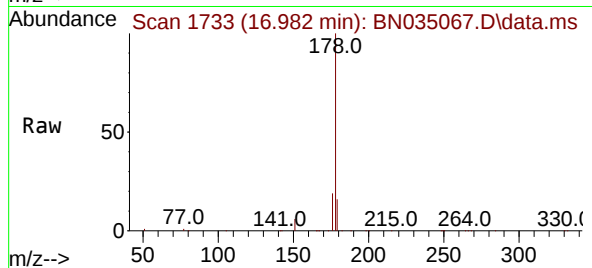
Tgt Ion:266 Resp: 16789
Ion Ratio Lower Upper
266 100
264 62.8 49.4 74.0
268 64.0 52.6 79.0





#25
Phenanthrene
Concen: 3.144 ng
RT: 16.982 min Scan# 1732
Delta R.T. 0.005 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

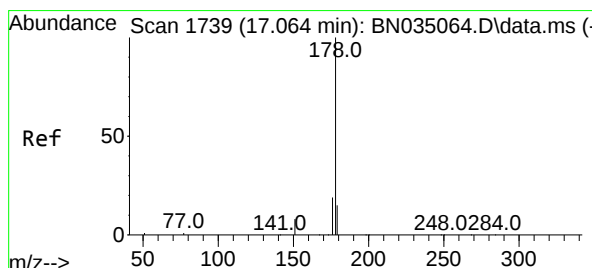
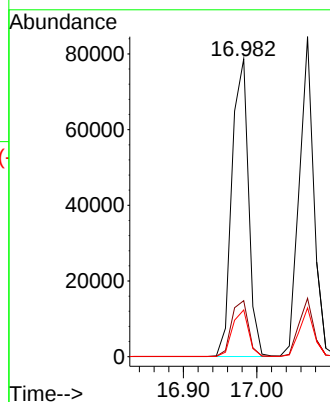
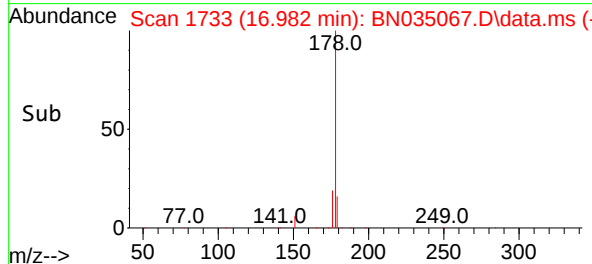
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2



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

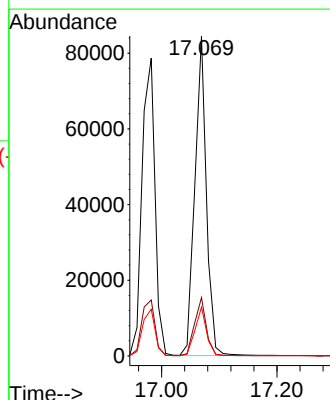
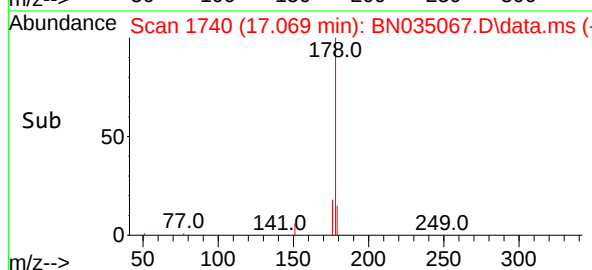
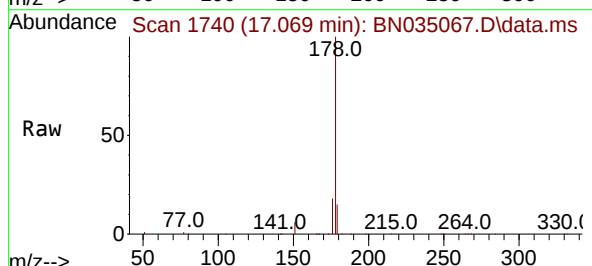
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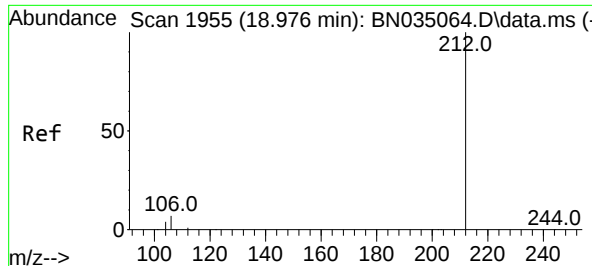
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#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

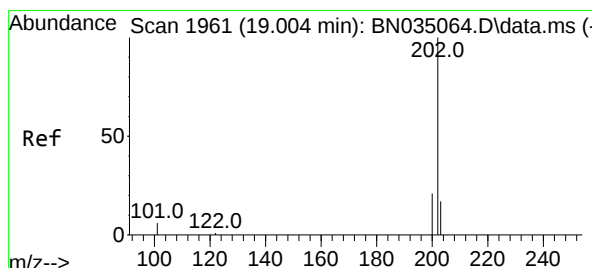
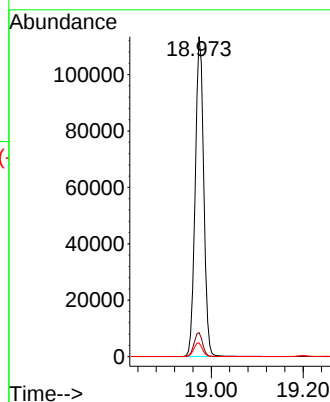
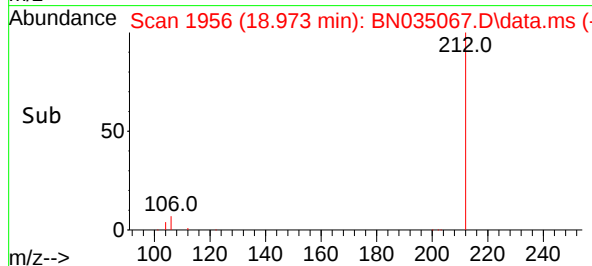
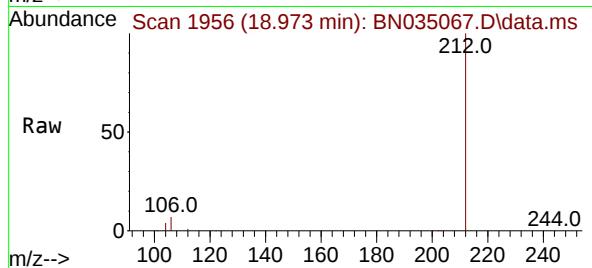
104 4.3 3.5 5.3

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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

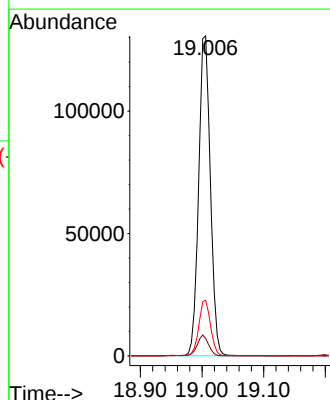
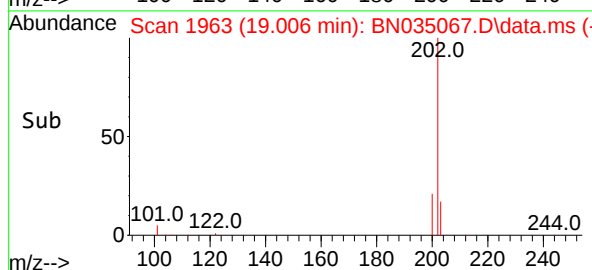
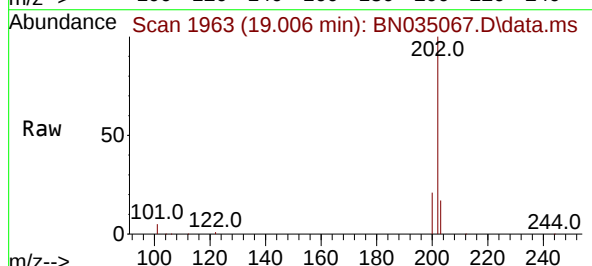
Tgt Ion:202 Resp: 172759

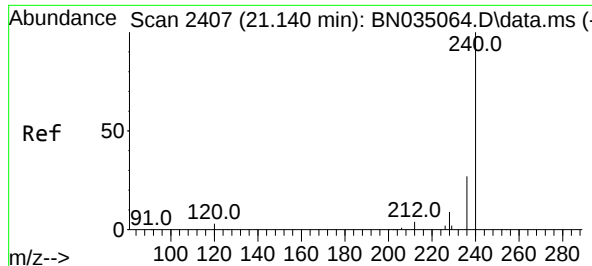
Ion Ratio Lower Upper

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

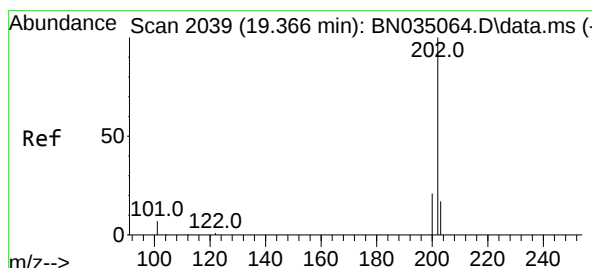
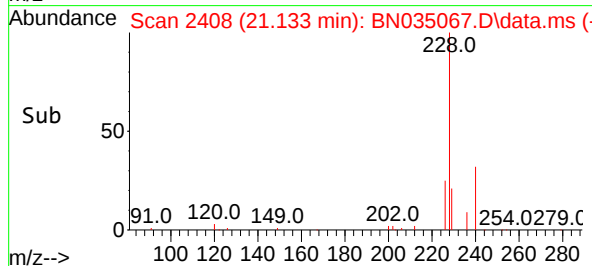
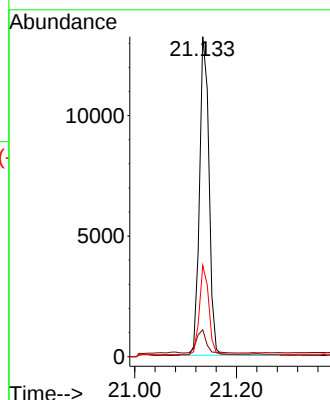
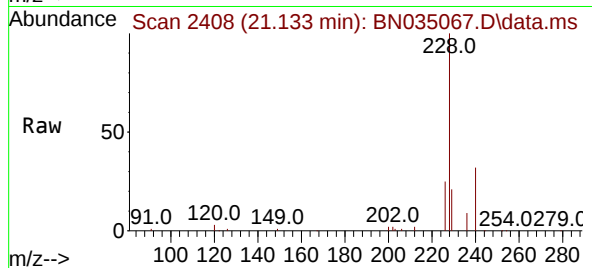
Tgt Ion:240 Resp: 17090
Ion Ratio Lower Upper
240 100
120 8.4 3.8 5.6
236 28.5 22.2 33.2

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

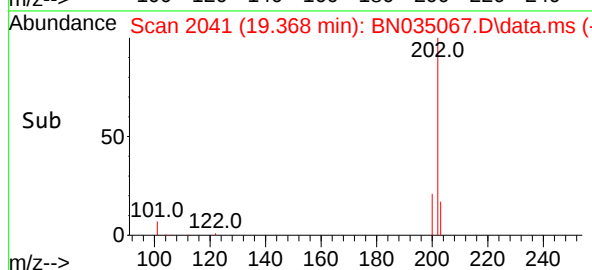
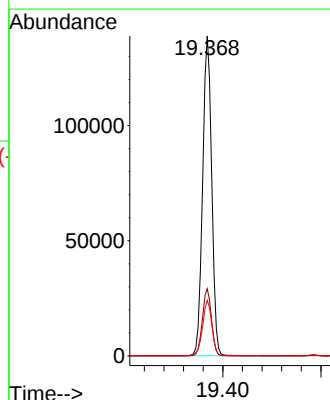
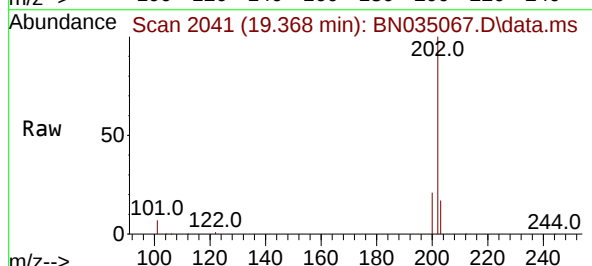
RT: 19.368 min Scan# 2041

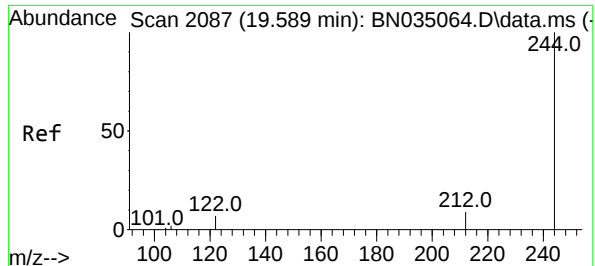
Delta R.T. 0.002 min

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





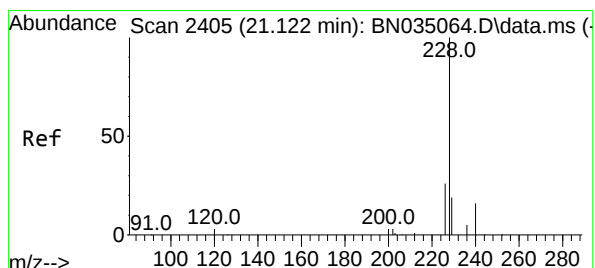
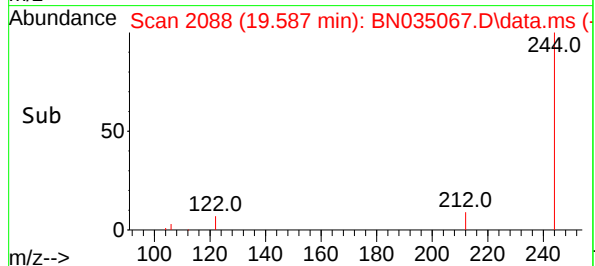
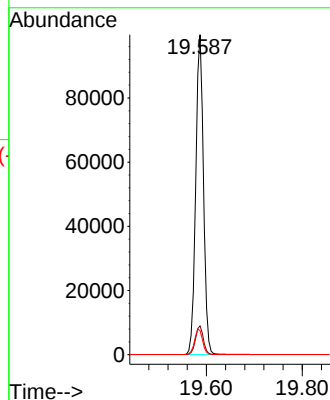
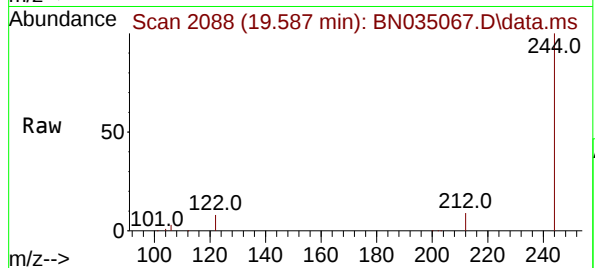
#31
Terphenyl-d14
Concen: 3.115 ng
RT: 19.587 min Scan# 2087
Delta R.T. -0.002 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:244 Resp: 11173
Ion Ratio Lower Upper
244 100
212 9.0 7.6 11.4
122 7.6 6.1 9.1

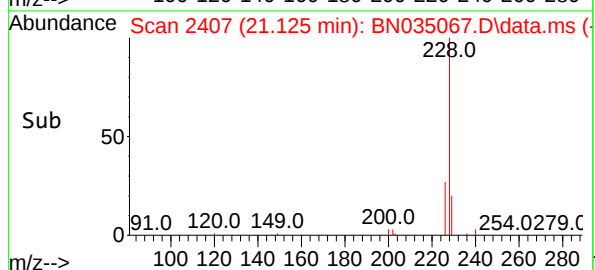
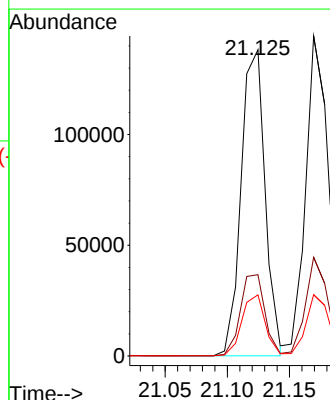
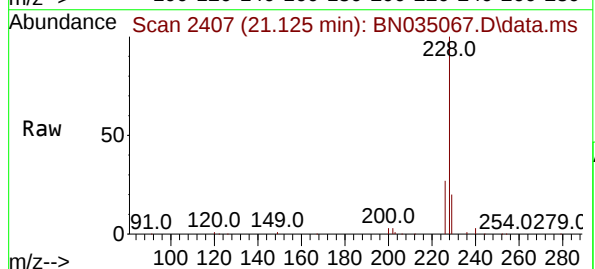
Manual Integrations
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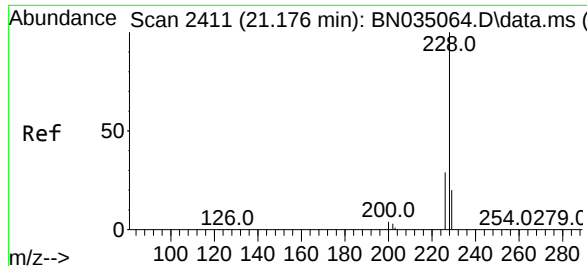
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#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

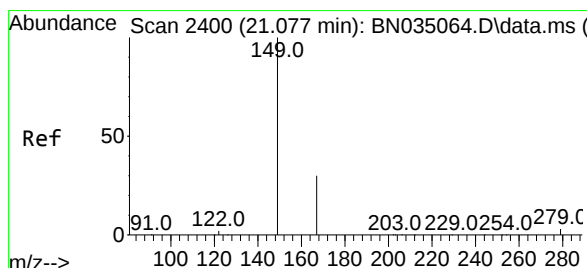
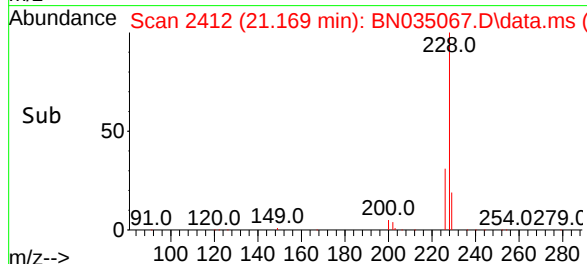
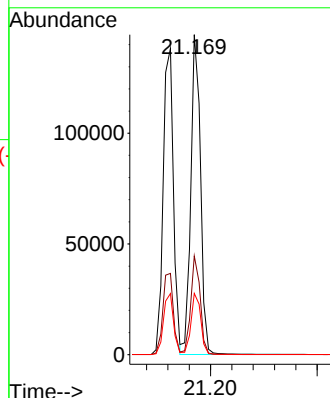
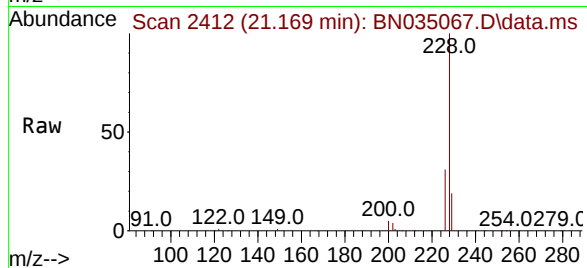
229 19.1 16.2 24.4

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

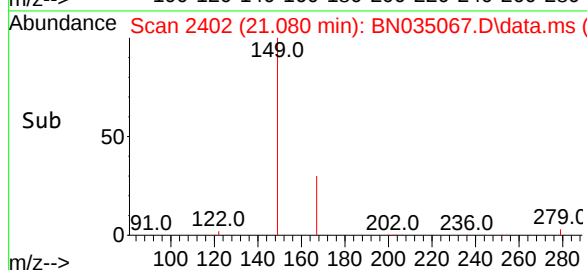
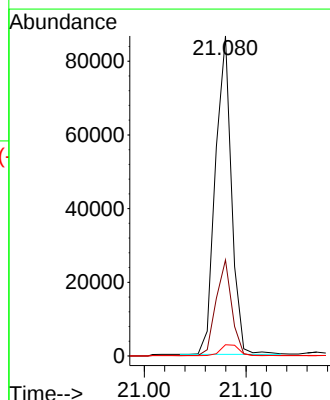
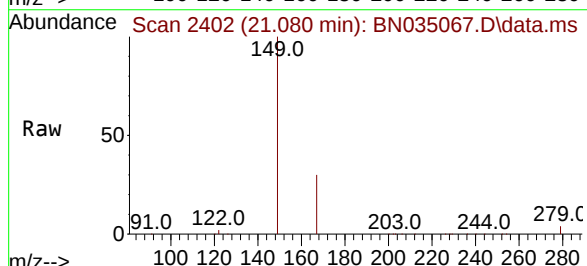
Tgt Ion:149 Resp: 94826

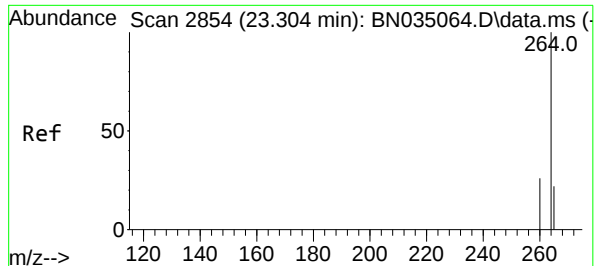
Ion Ratio Lower Upper

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

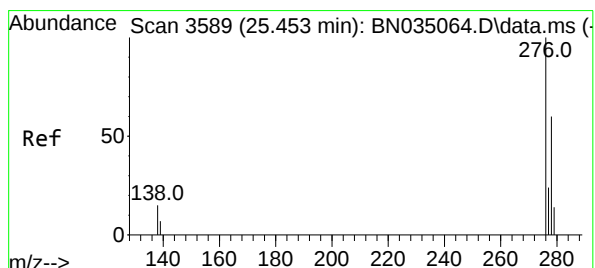
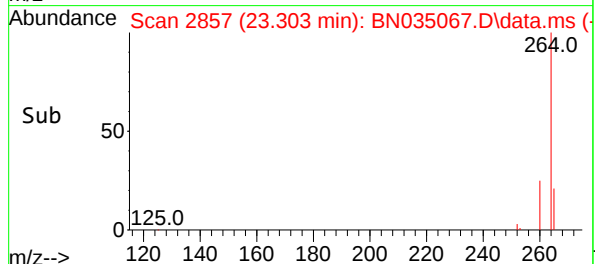
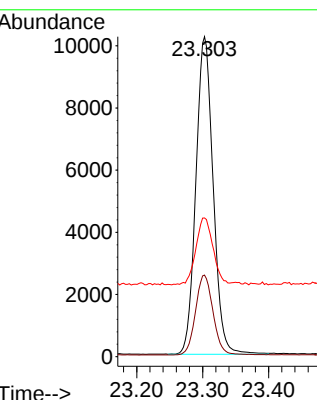
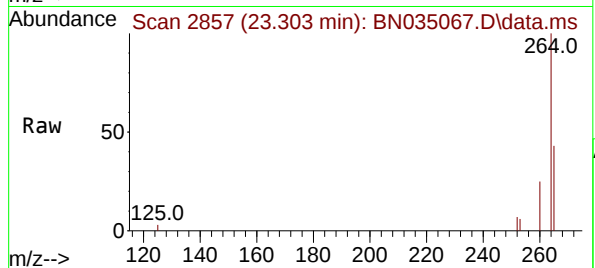
265 43.4 35.4 53.2

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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

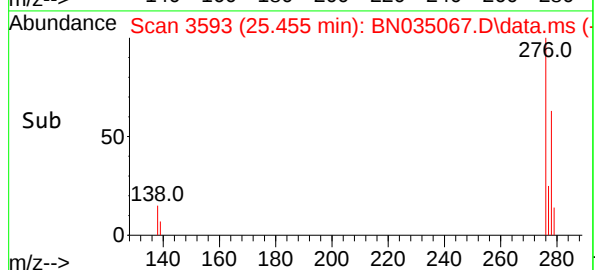
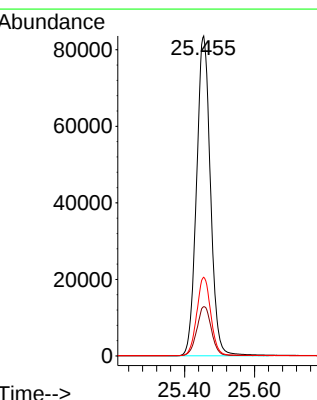
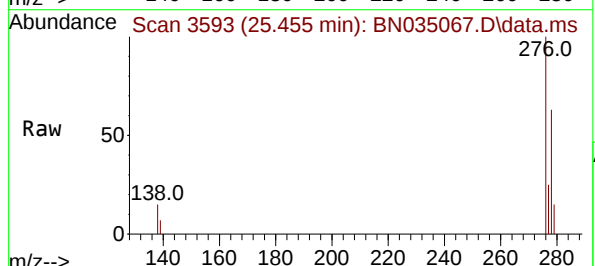
Tgt Ion:276 Resp: 230419

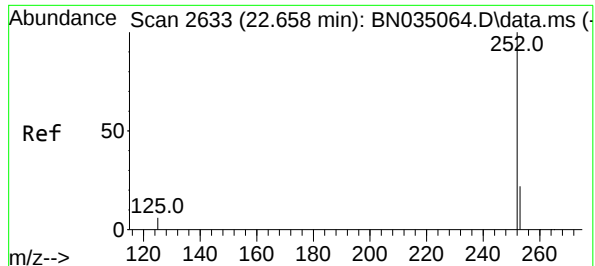
Ion Ratio Lower Upper

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

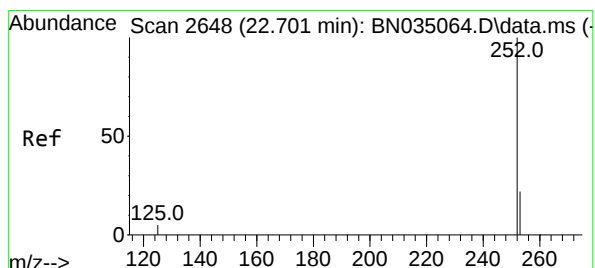
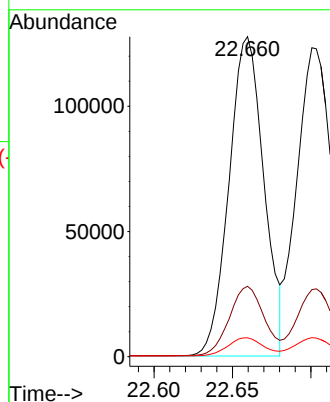
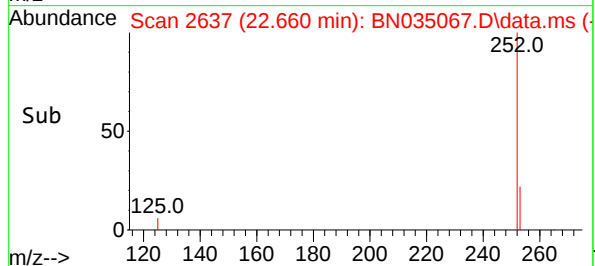
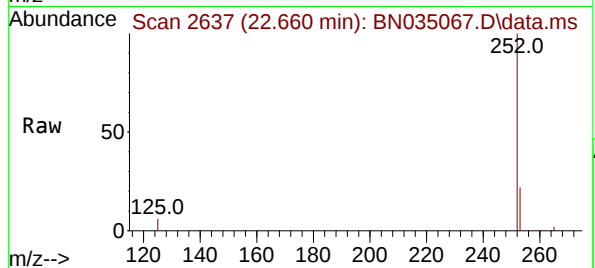
125 5.9 6.2 9.2

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

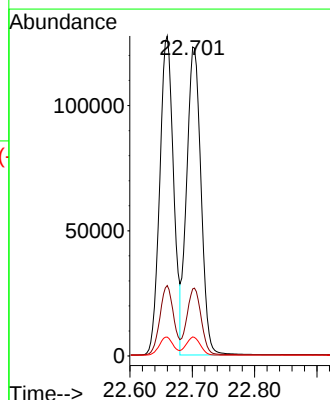
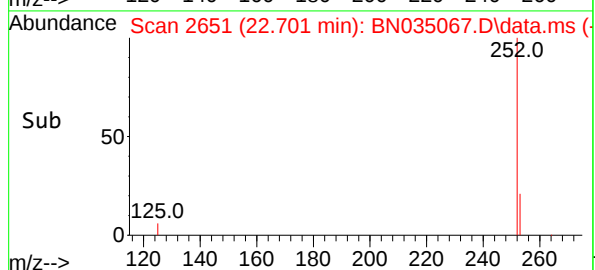
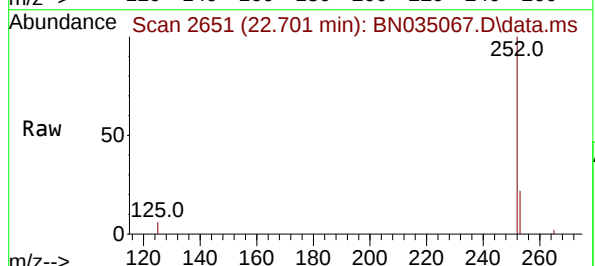
Tgt Ion:252 Resp: 196686

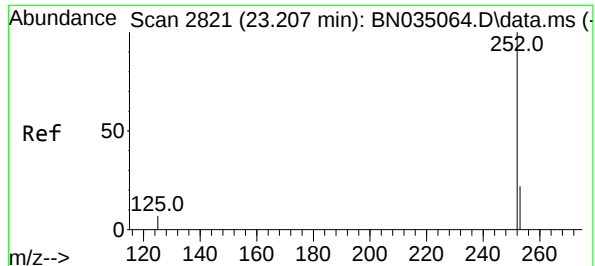
Ion Ratio Lower Upper

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# 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: 17354

Ion Ratio Lower Upper

252 100

253 22.0 20.1 30.1

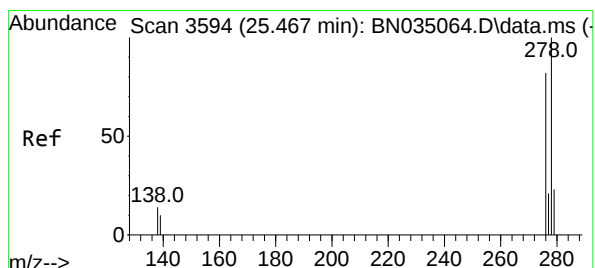
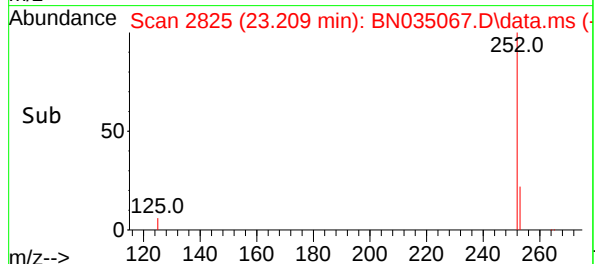
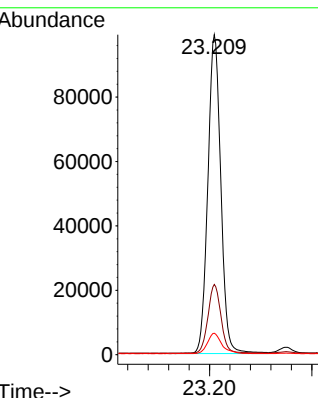
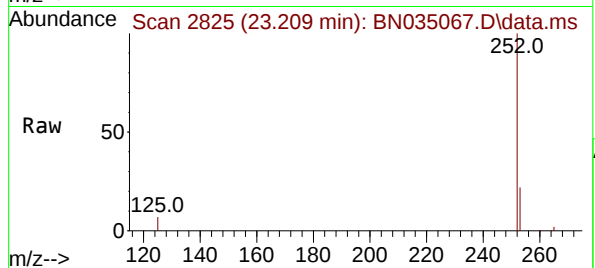
125 6.7 7.5 11.3

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

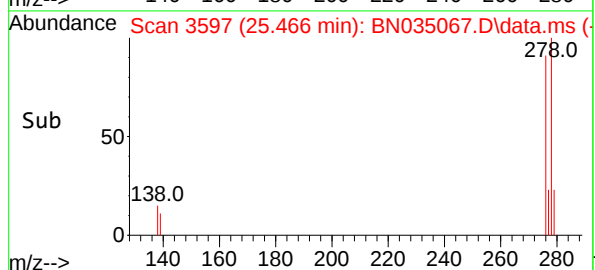
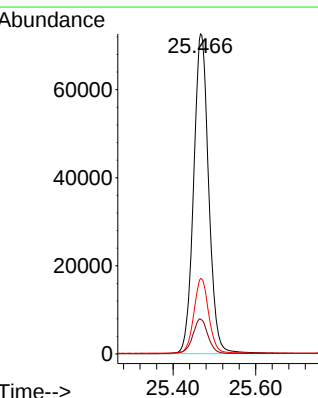
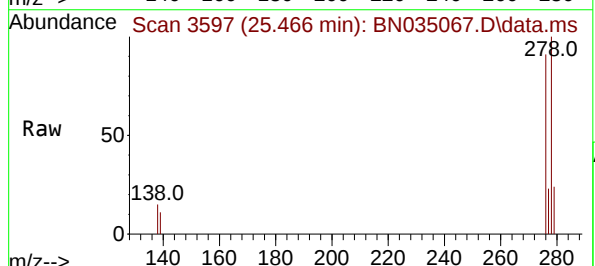
Tgt Ion:278 Resp: 183641

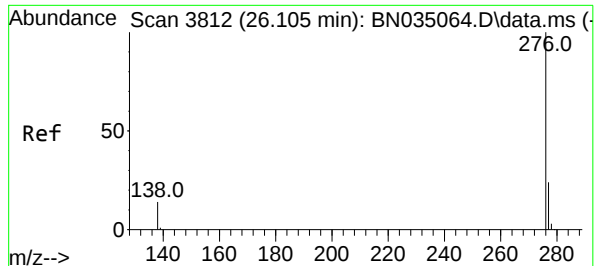
Ion Ratio Lower Upper

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

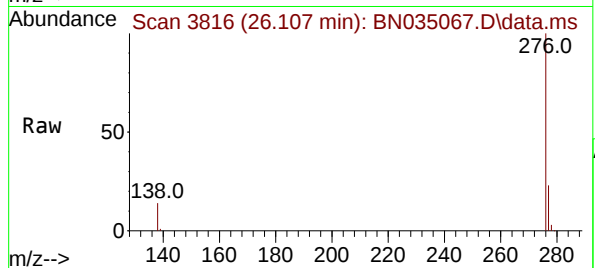
Acq: 13 Nov 2024 15:39

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



Tgt Ion:276 Resp: 19234

Ion Ratio Lower Upper

276 100

277 23.4 19.9 29.9

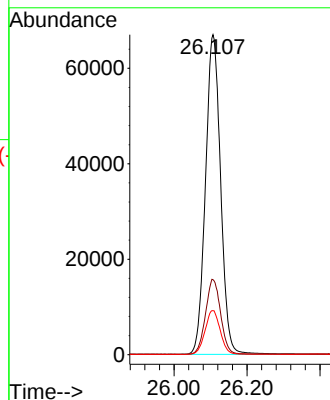
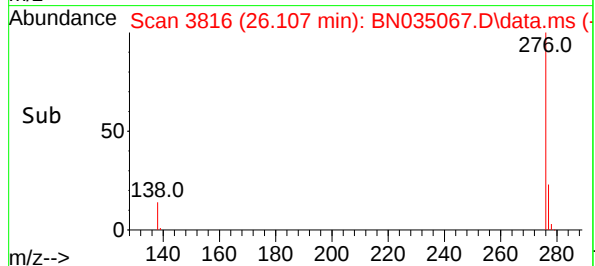
138 13.8 11.6 17.4

Manual Integrations

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 : 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

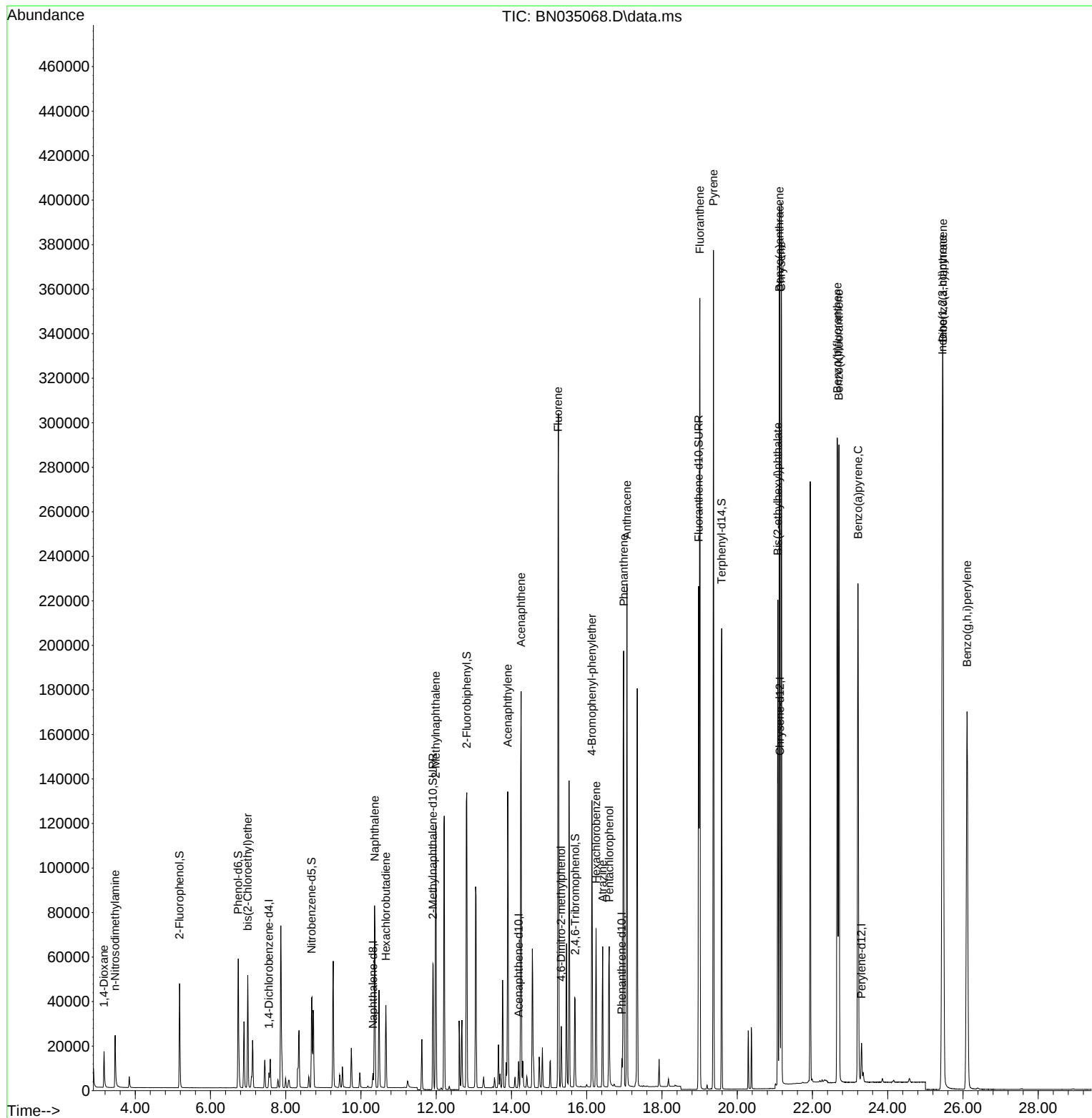
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.553	152	3163	0.400	ng	0.00
7) Naphthalene-d8	10.319	136	8134	0.400	ng	0.00
13) Acenaphthene-d10	14.190	164	6225	0.400	ng	0.00
19) Phenanthrene-d10	16.932	188	16809	0.400	ng	# 0.00
29) Chrysene-d12	21.133	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						
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

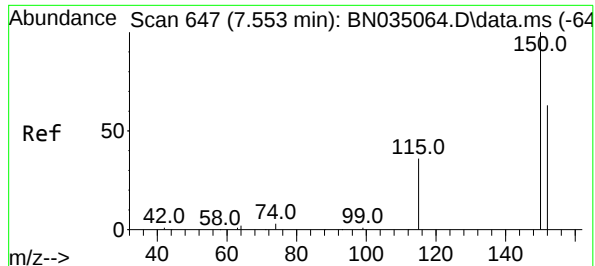
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

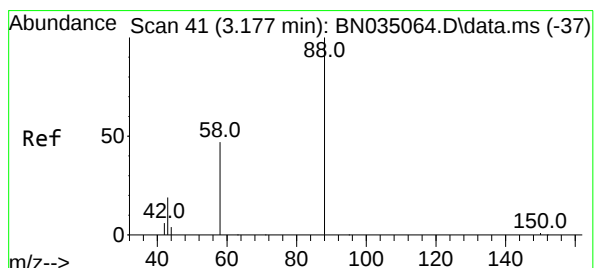
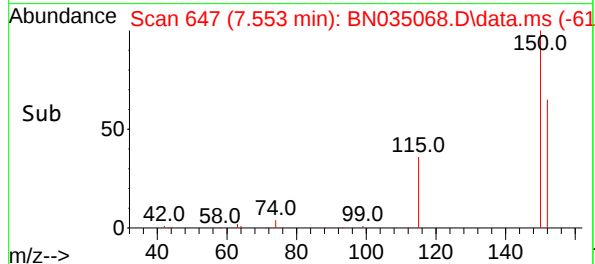
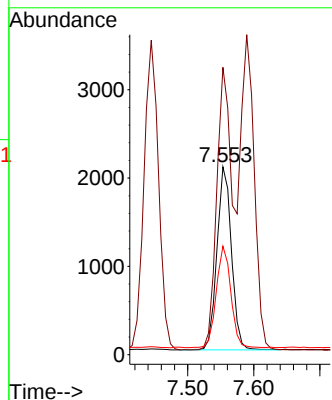
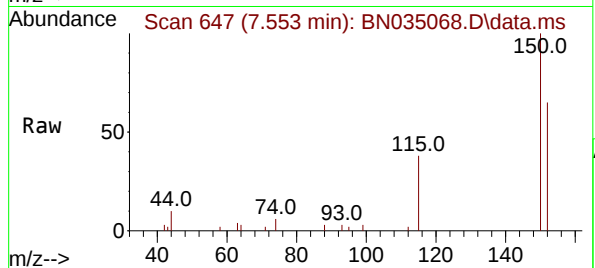




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.553 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

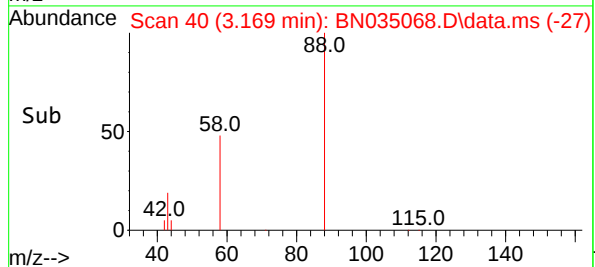
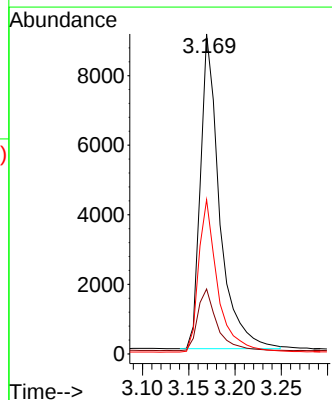
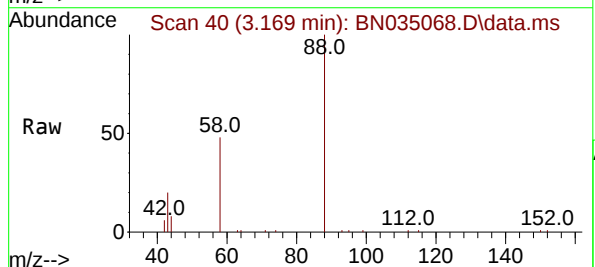
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

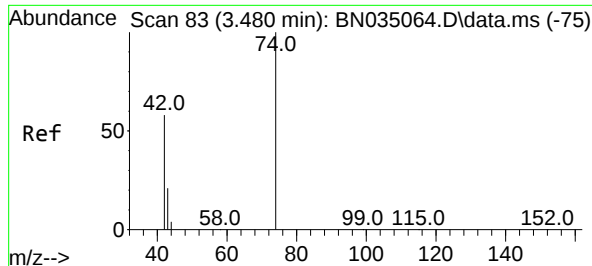
Tgt Ion:152 Resp: 3163
Ion Ratio Lower Upper
152 100
150 152.9 124.5 186.7
115 57.7 47.8 71.6



#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

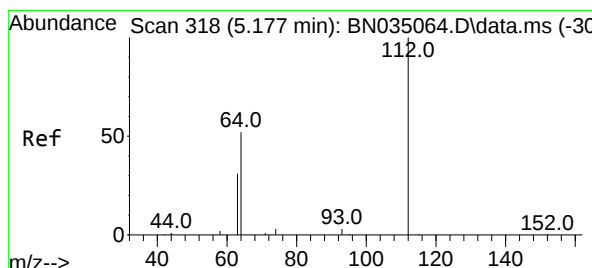
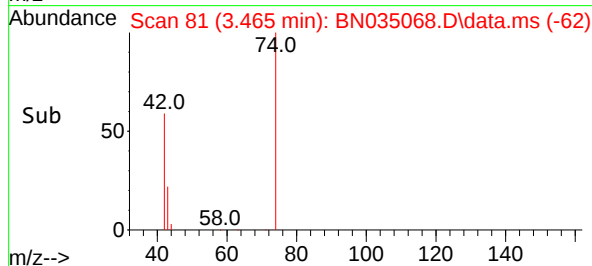
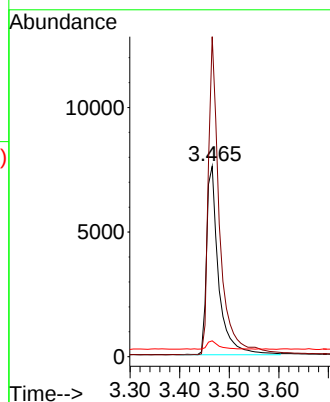
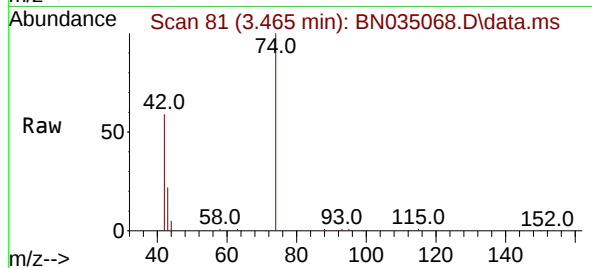




#3
n-Nitrosodimethylamine
Concen: 4.774 ng
RT: 3.465 min Scan# 81
Delta R.T. -0.015 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

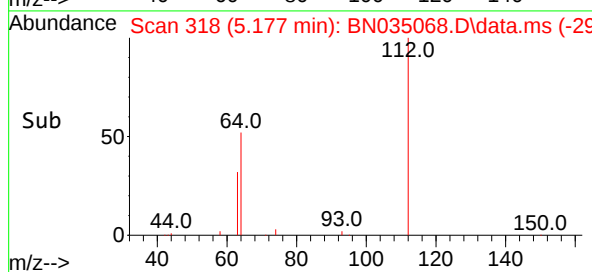
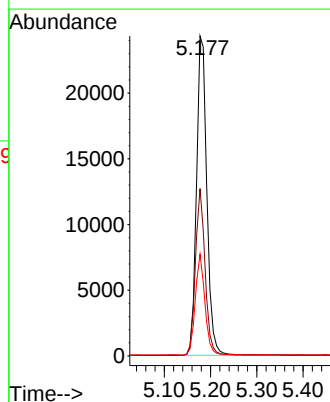
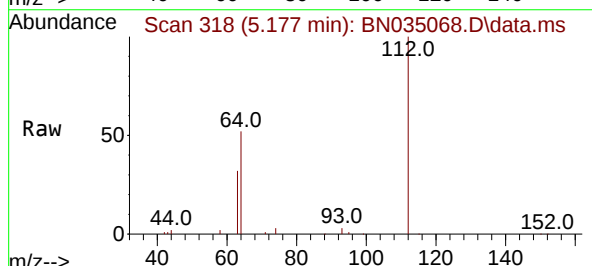
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

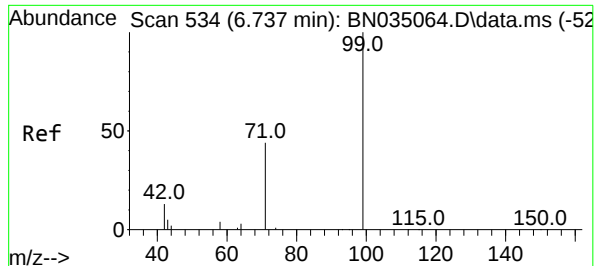
Tgt Ion: 42 Resp: 12737
Ion Ratio Lower Upper
42 100
74 159.1 120.8 181.2
44 4.4 2.9 4.3#



#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

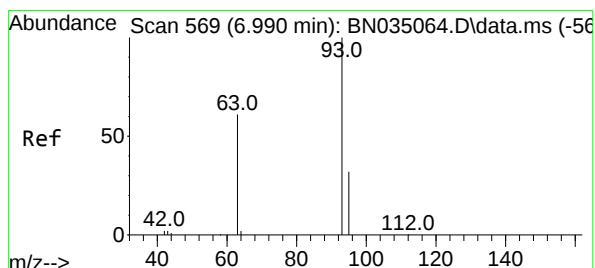
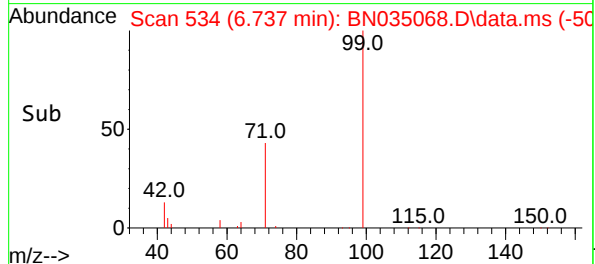
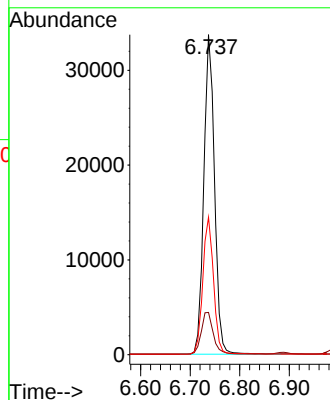
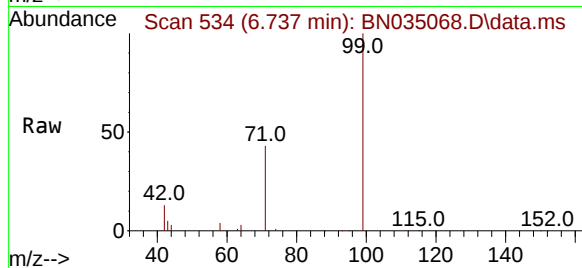




#5
Phenol-d6
Concen: 5.035 ng
RT: 6.737 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

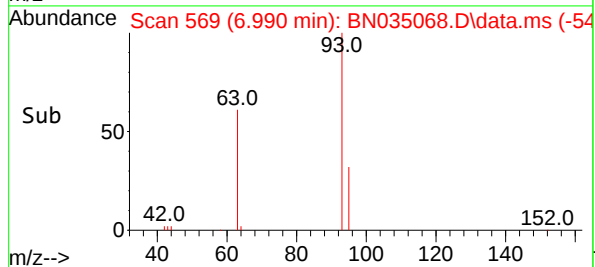
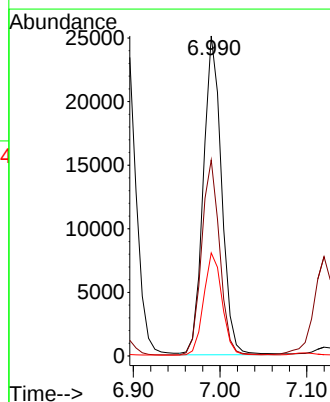
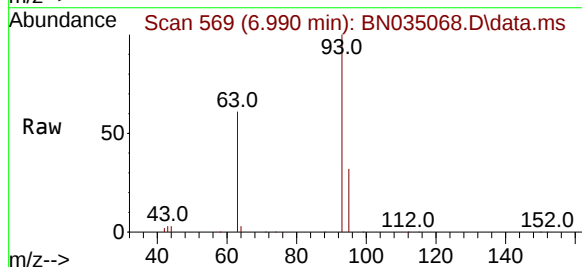
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

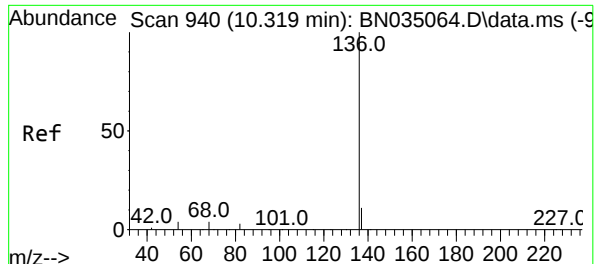
Tgt Ion: 99 Resp: 50689
Ion Ratio Lower Upper
99 100
42 14.6 11.4 17.0
71 43.2 34.6 51.8



#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

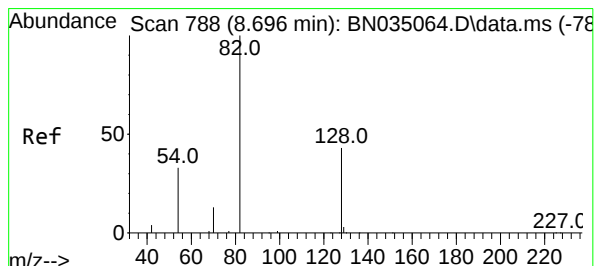
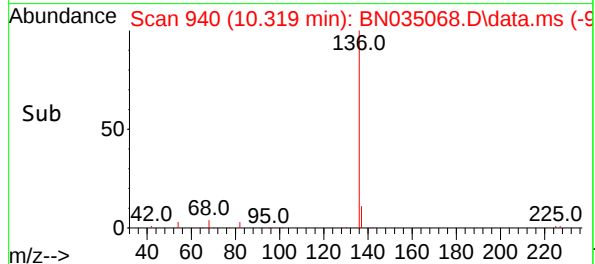
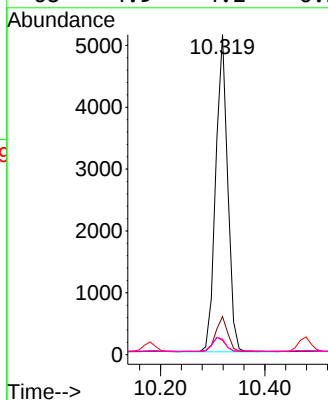
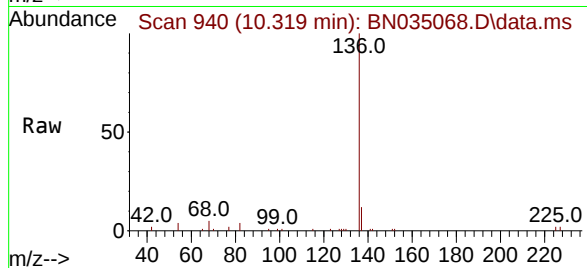




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.319 min Scan# 940
Delta R.T. -0.000 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

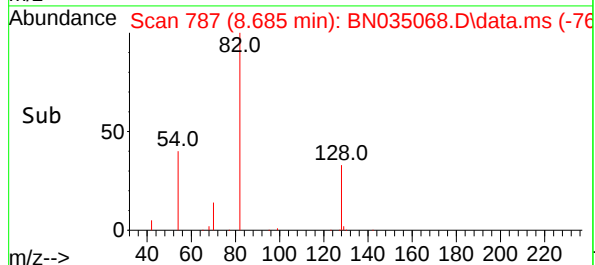
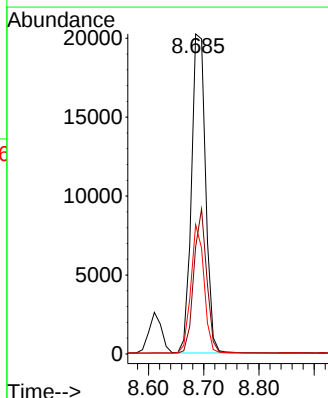
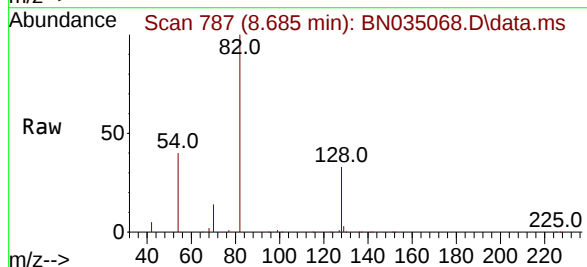
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

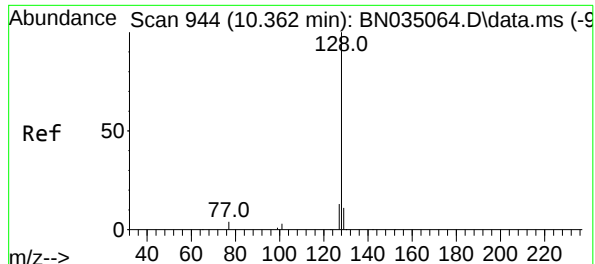
Tgt Ion:	136	Resp:	8134
Ion	Ratio	Lower	Upper
136	100		
137	11.9	9.8	14.8
54	4.4	4.0	6.0
68	4.9	4.2	6.2



#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

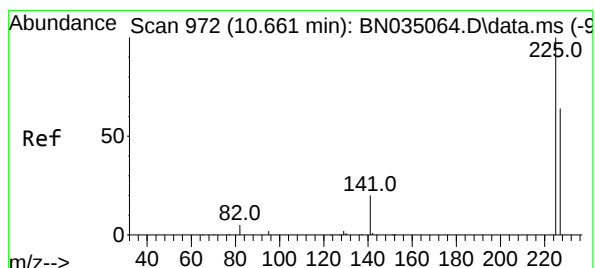
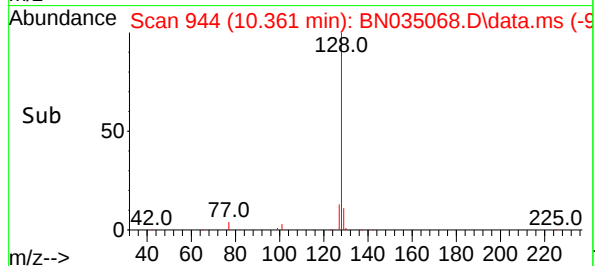
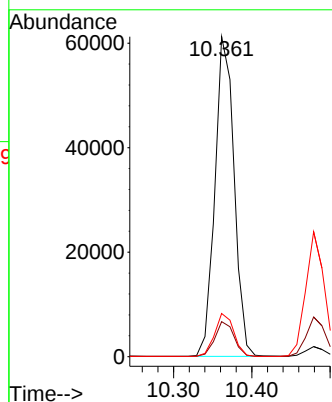
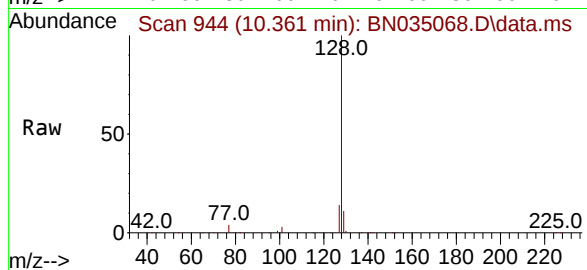
Tgt Ion:128 Resp: 104370

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

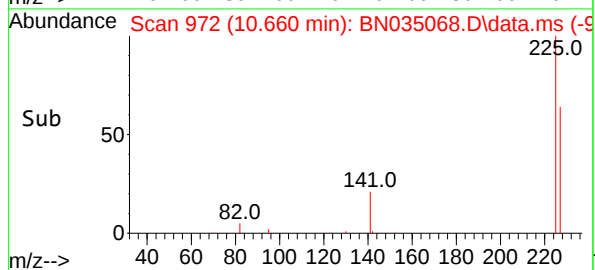
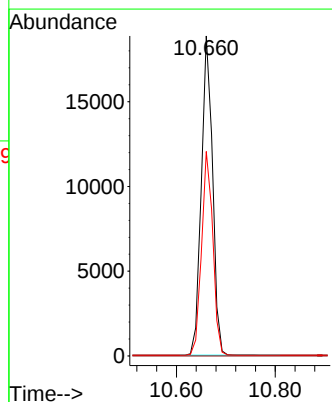
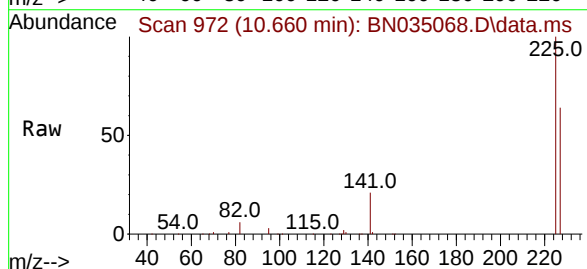
Tgt Ion:225 Resp: 29615

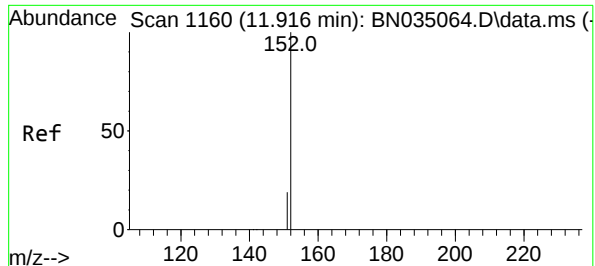
Ion Ratio Lower Upper

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 :

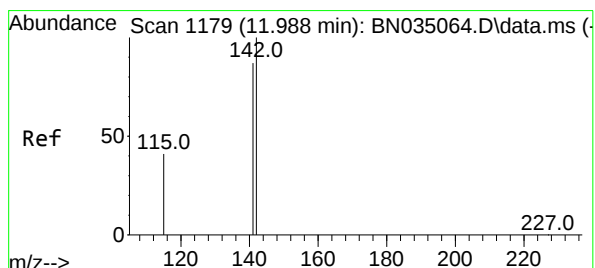
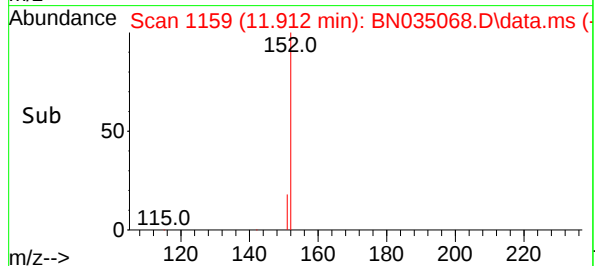
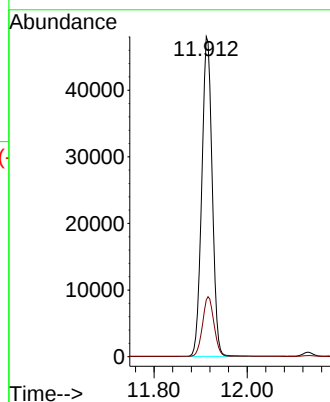
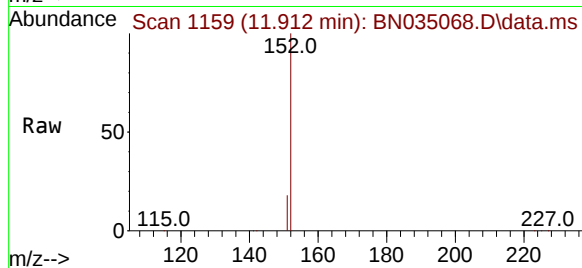
SSTDICC5.0

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

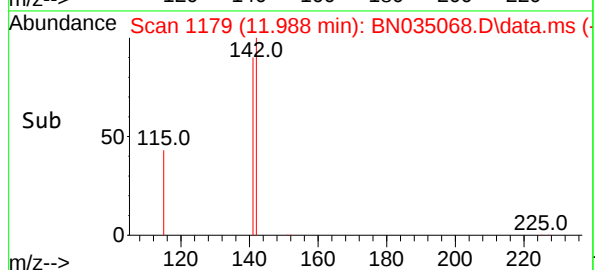
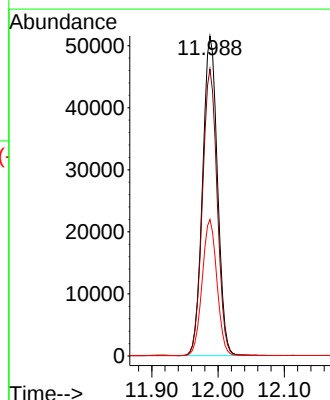
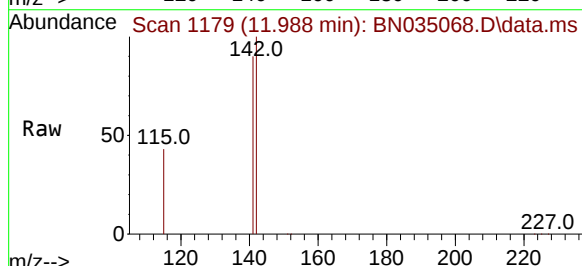
Tgt Ion:142 Resp: 80182

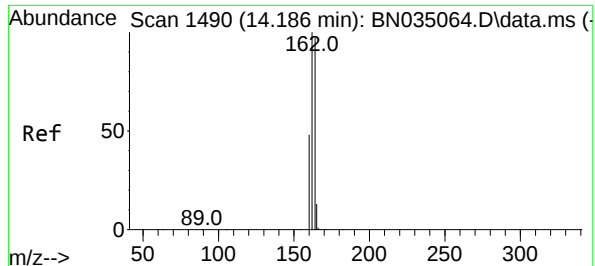
Ion Ratio Lower Upper

142 100

141 89.7 70.1 105.1

115 42.7 34.4 51.6

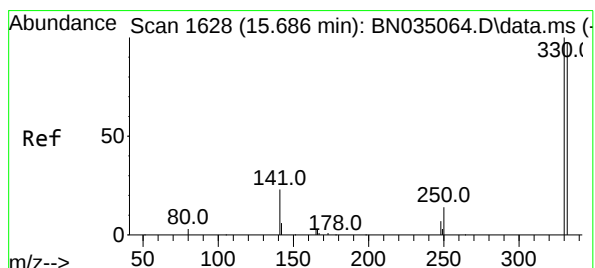
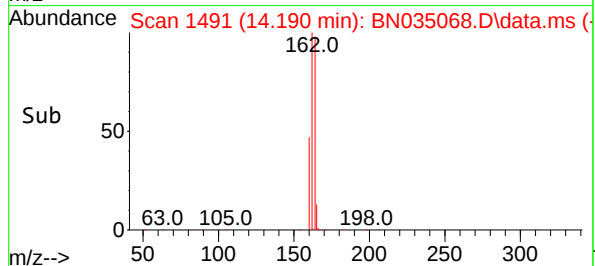
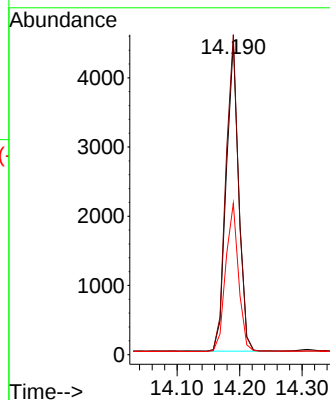
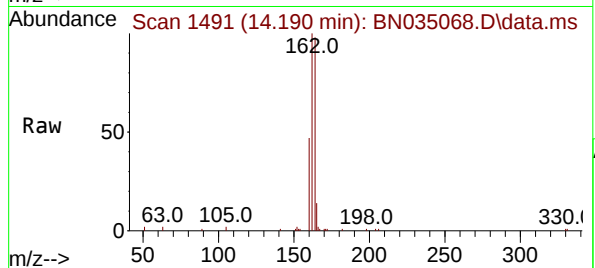




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.190 min Scan# 1491
Delta R.T. 0.004 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

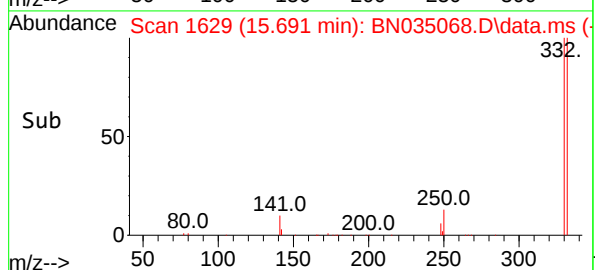
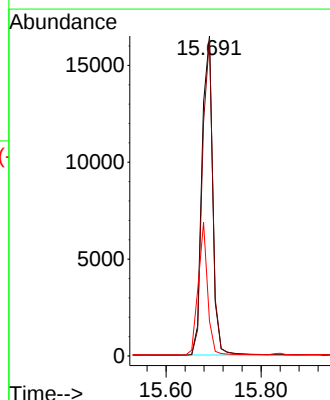
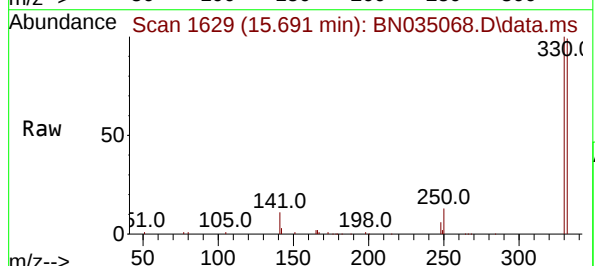
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

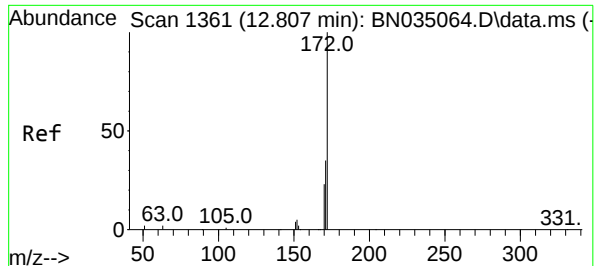
Tgt Ion:164 Resp: 6225
Ion Ratio Lower Upper
164 100
162 102.3 82.2 123.2
160 48.4 40.2 60.4



#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

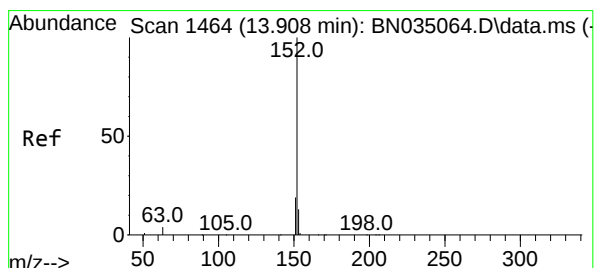
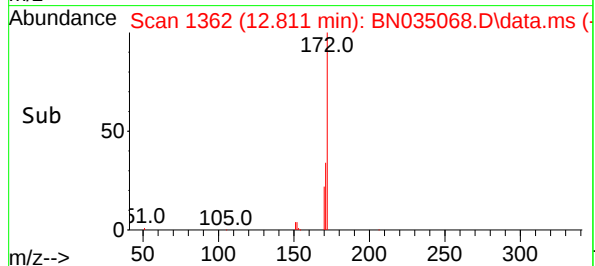
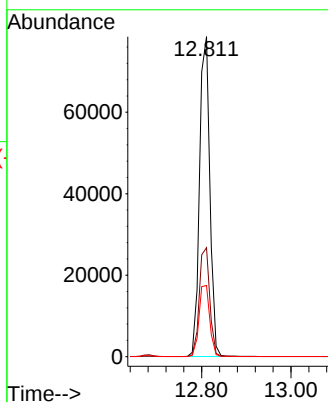
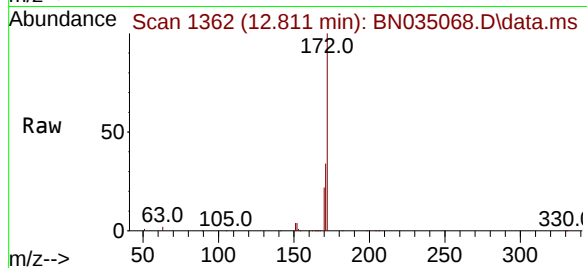
Tgt Ion:172 Resp: 125581

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

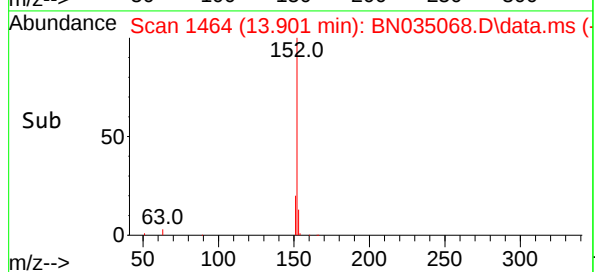
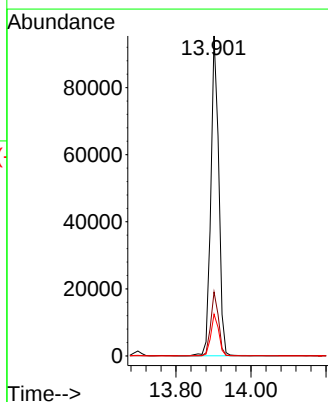
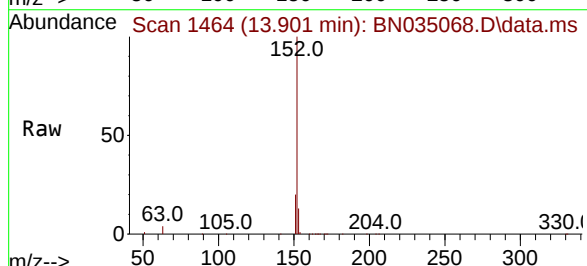
Tgt Ion:152 Resp: 139668

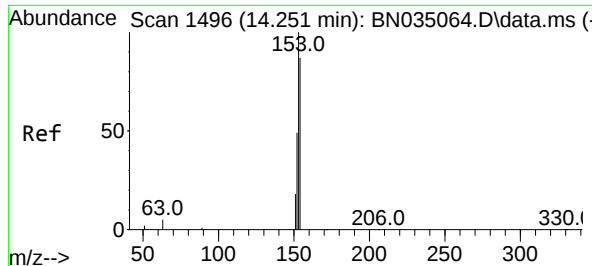
Ion Ratio Lower Upper

152 100

151 19.7 15.8 23.8

153 13.0 10.2 15.4

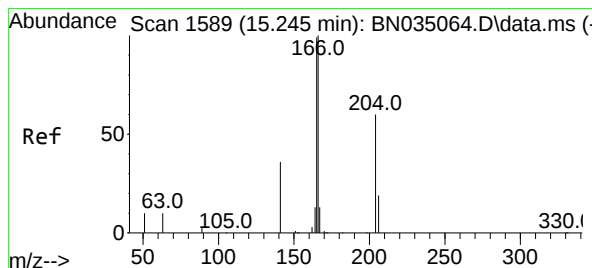
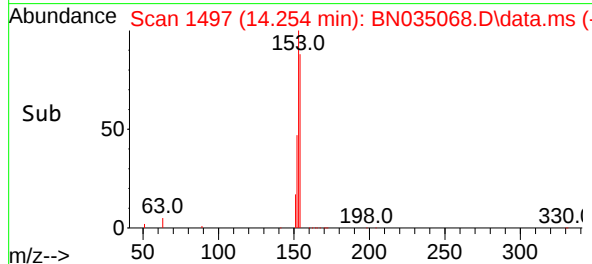
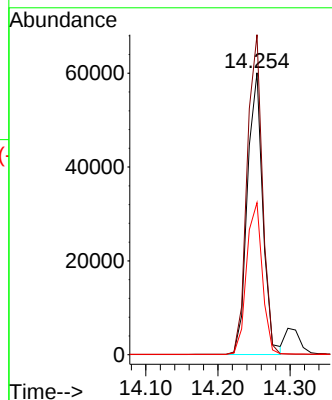
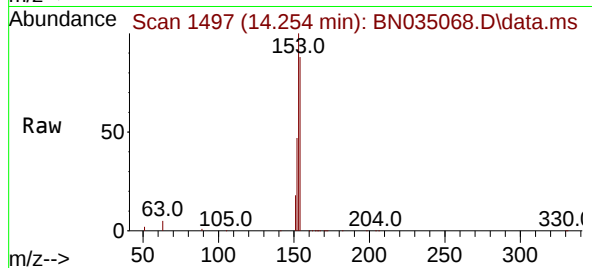




#17
Acenaphthene
Concen: 5.115 ng
RT: 14.254 min Scan# 1496
Delta R.T. 0.004 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

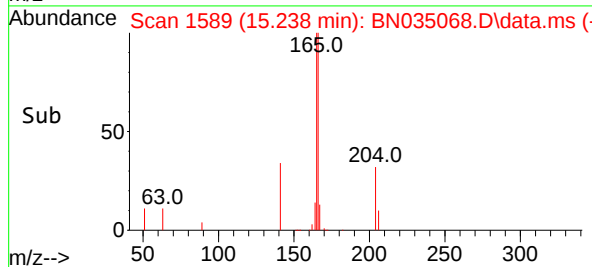
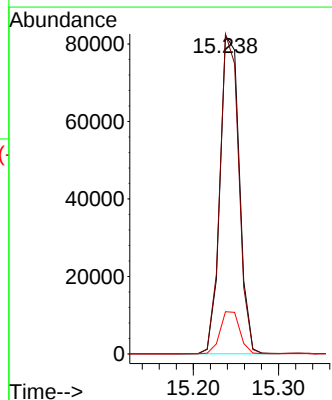
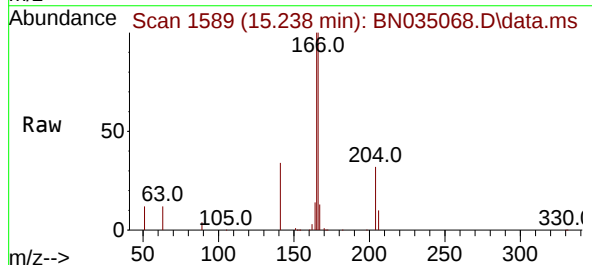
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

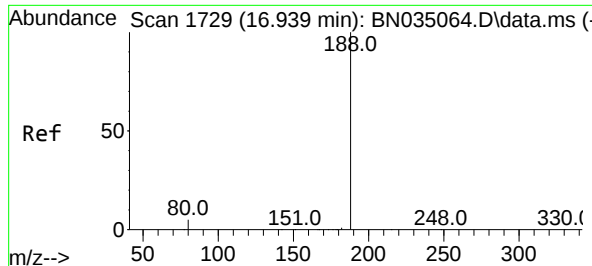
Tgt Ion:154 Resp: 89181
Ion Ratio Lower Upper
154 100
153 113.0 91.6 137.4
152 55.3 45.8 68.6



#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

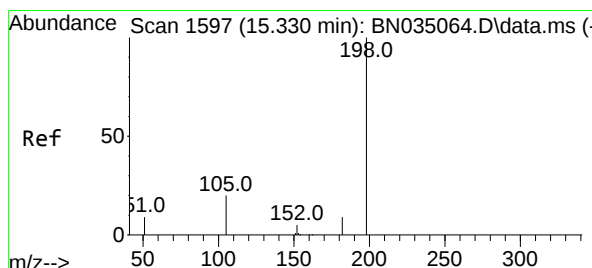
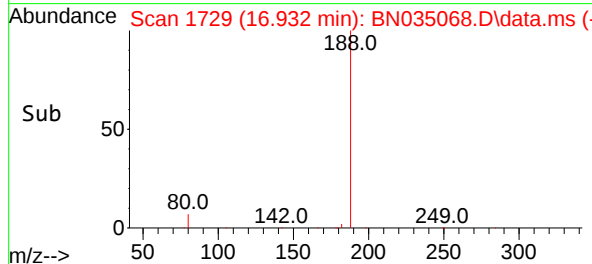
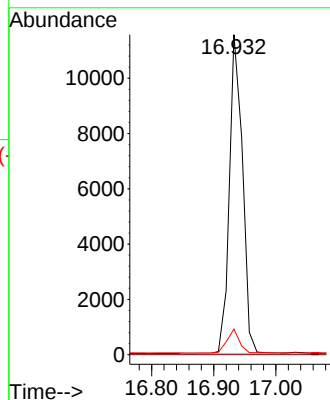
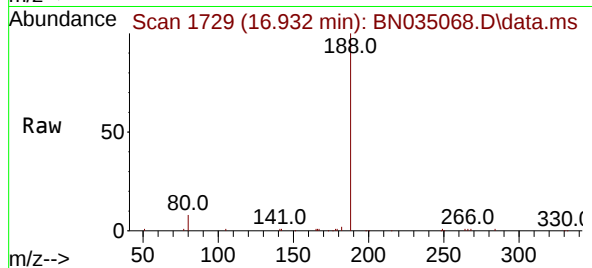
Tgt Ion:188 Resp: 16809

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

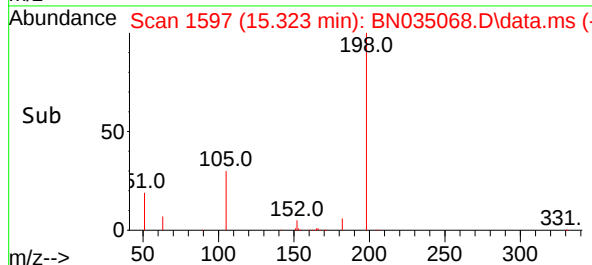
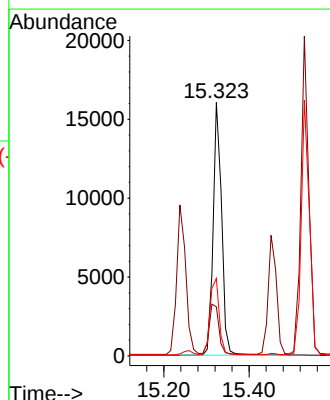
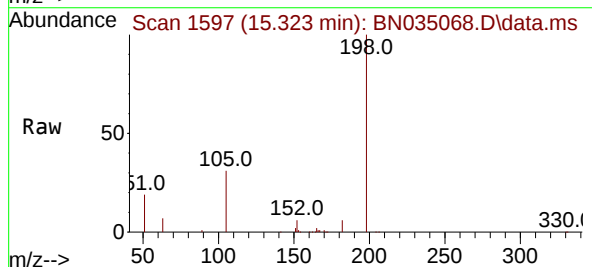
Tgt Ion:198 Resp: 22059

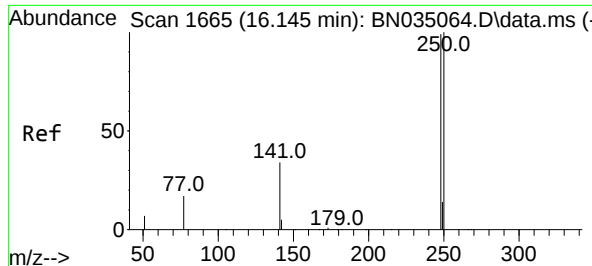
Ion Ratio Lower Upper

198 100

51 19.4 29.9 44.9#

105 30.6 23.7 35.5

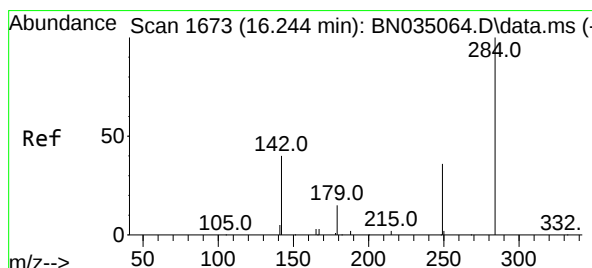
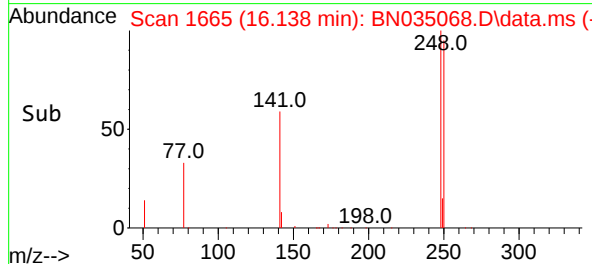
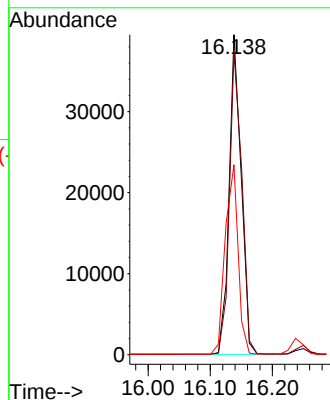
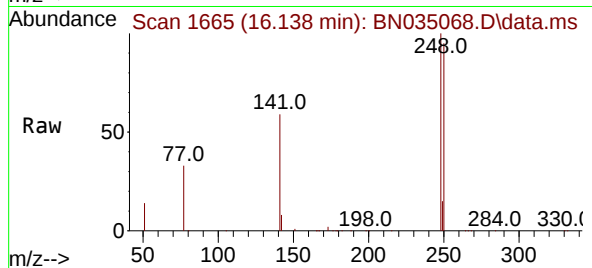




#21
4-Bromophenyl-phenylether
Concen: 4.935 ng
RT: 16.138 min Scan# 1665
Delta R.T. -0.007 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

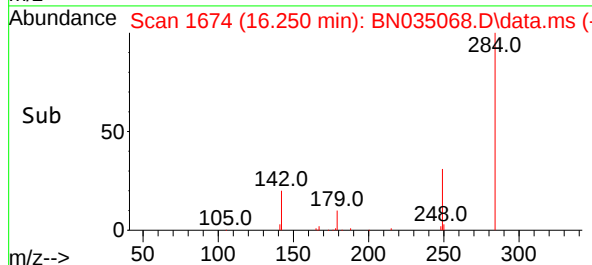
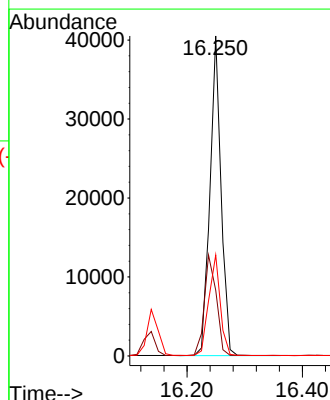
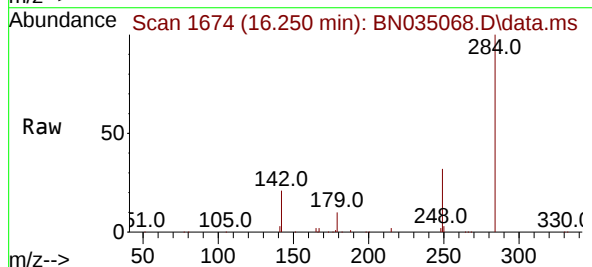
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

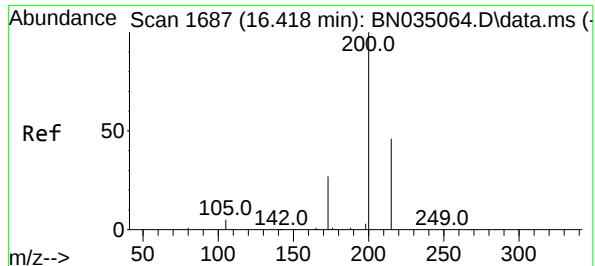
Tgt Ion	Ratio	Lower	Upper
248	100		
250	94.6	81.2	121.8
141	59.4	29.1	43.7



#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

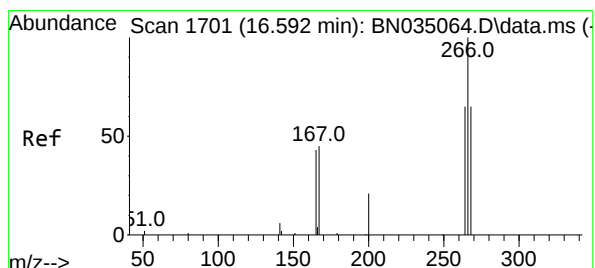
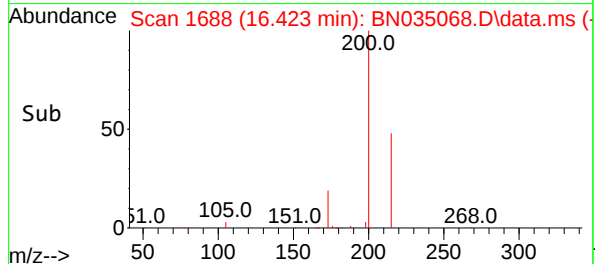
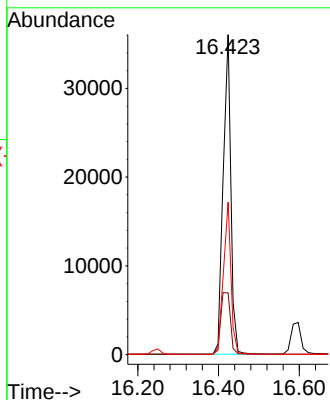
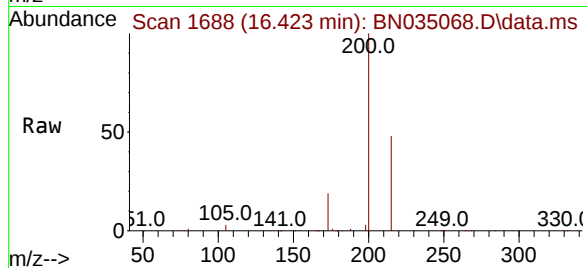




#23
Atrazine
Concen: 4.928 ng
RT: 16.423 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

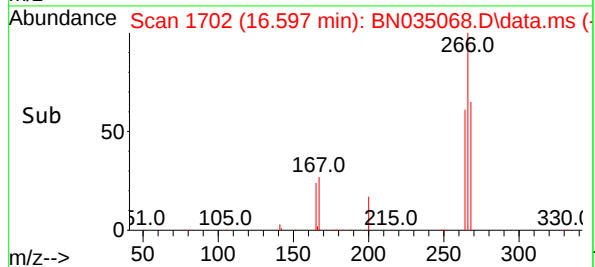
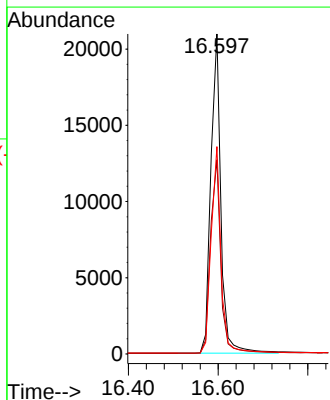
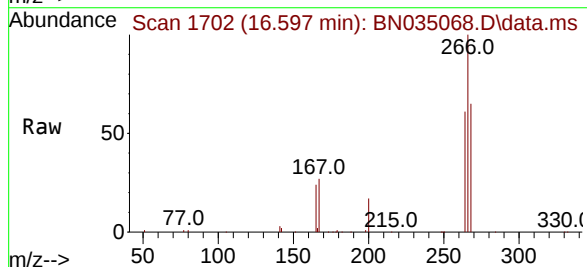
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

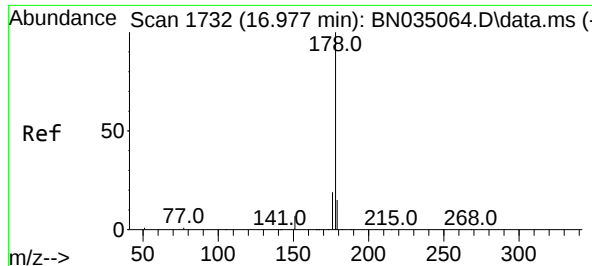
Tgt Ion:200 Resp: 47349
Ion Ratio Lower Upper
200 100
173 19.3 22.6 33.8#
215 47.7 37.8 56.6



#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

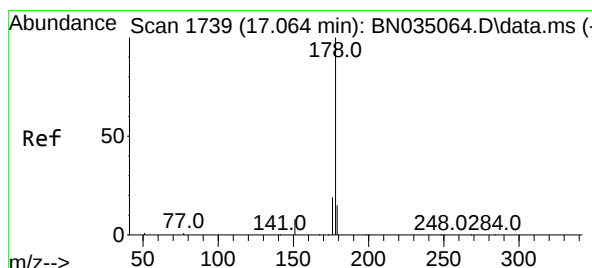
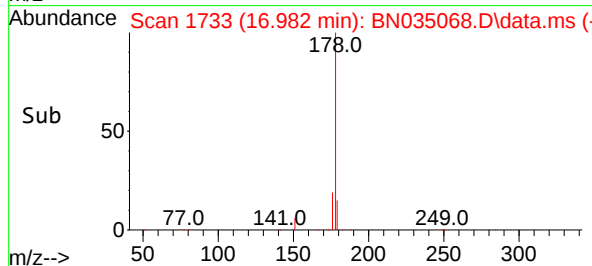
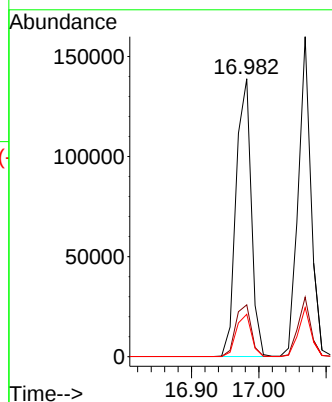
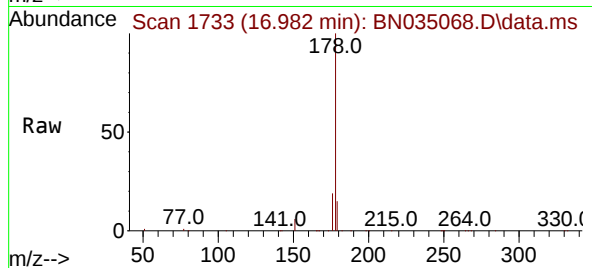




#25
Phenanthrene
Concen: 4.923 ng
RT: 16.982 min Scan# 11
Delta R.T. 0.005 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

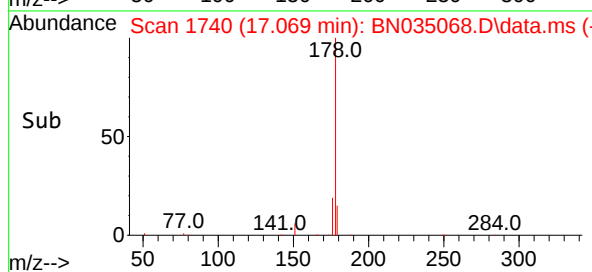
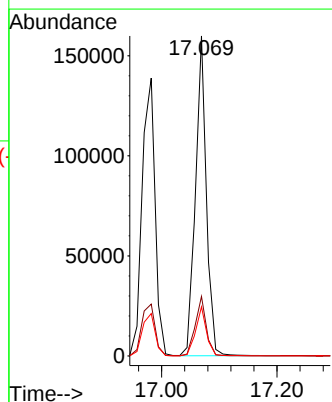
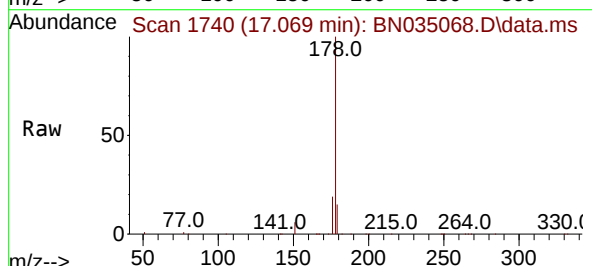
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

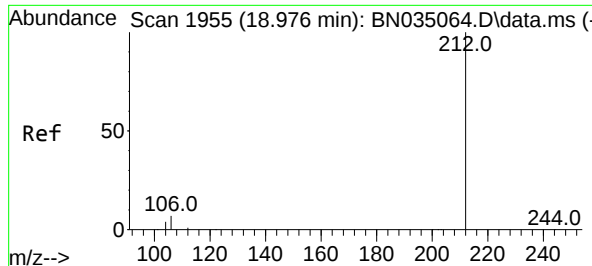
Tgt Ion:178 Resp: 217781
Ion Ratio Lower Upper
178 100
176 19.3 15.2 22.8
179 15.2 12.6 18.8



#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

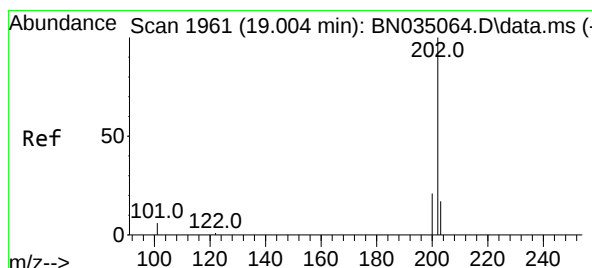
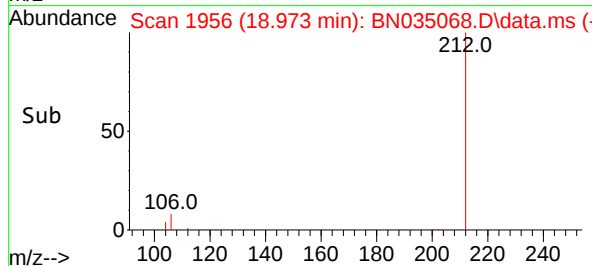
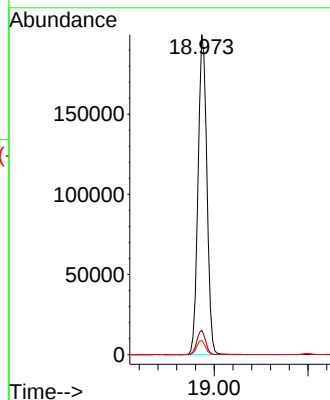
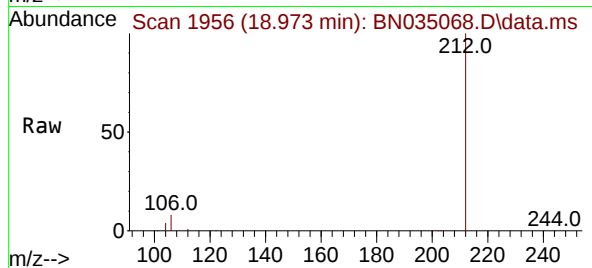
Tgt Ion:212 Resp: 260540

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

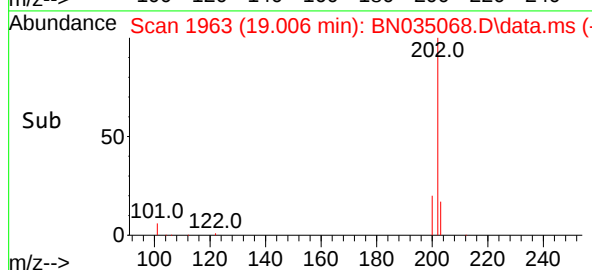
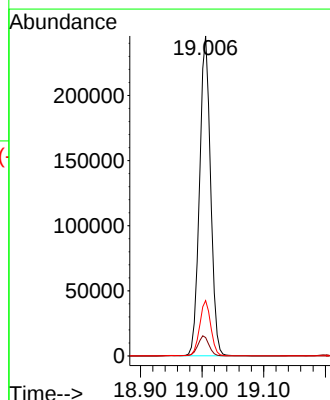
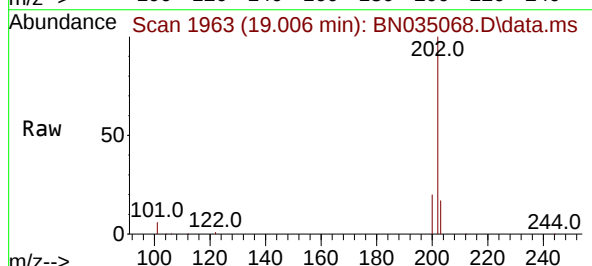
Tgt Ion:202 Resp: 305283

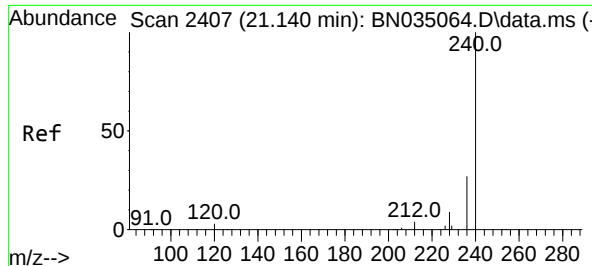
Ion Ratio Lower Upper

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

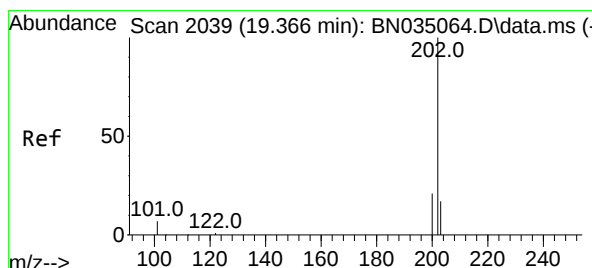
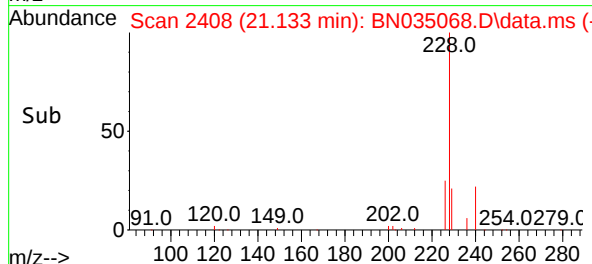
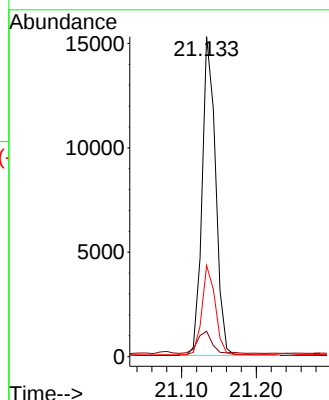
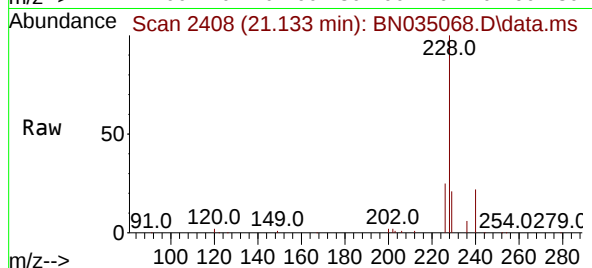
Tgt Ion:240 Resp: 19216

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

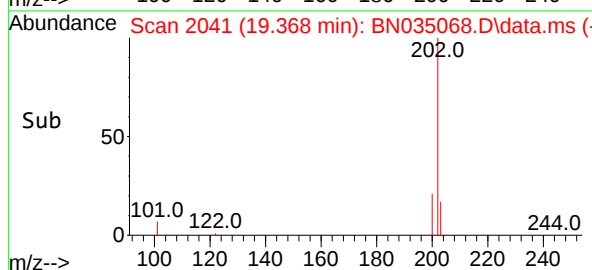
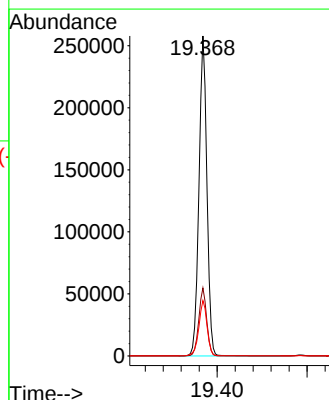
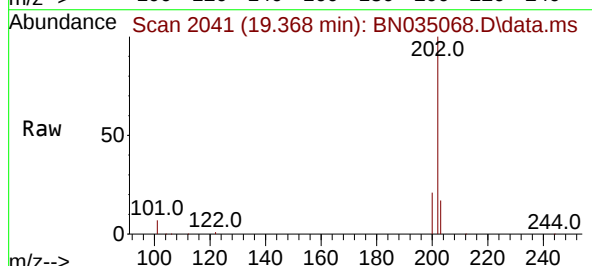
Tgt Ion:202 Resp: 316225

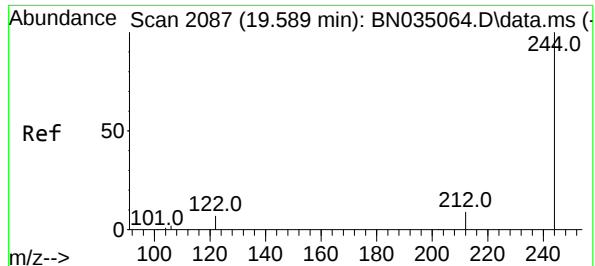
Ion Ratio Lower Upper

202 100

200 21.2 16.7 25.1

203 17.9 14.2 21.4

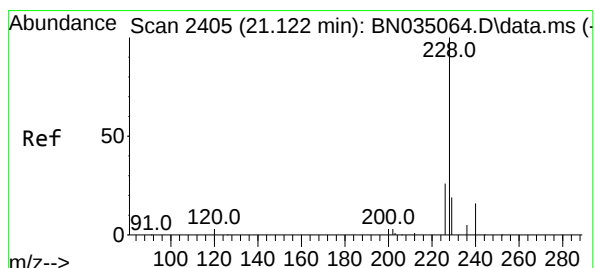
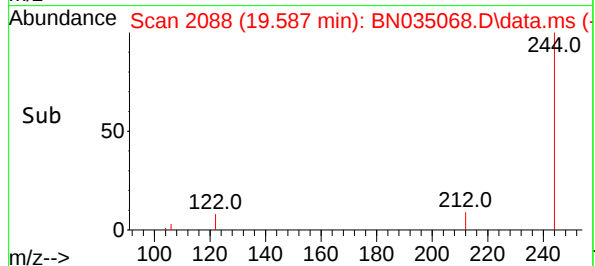
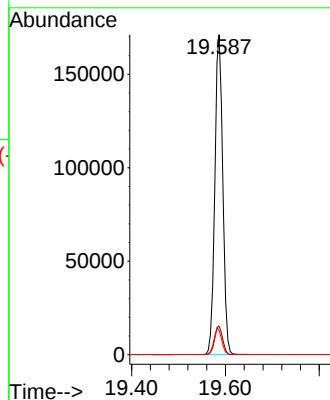
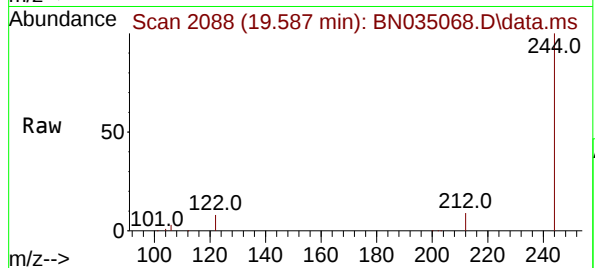




#31
Terphenyl-d14
Concen: 4.950 ng
RT: 19.587 min Scan# 2087
Delta R.T. -0.002 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

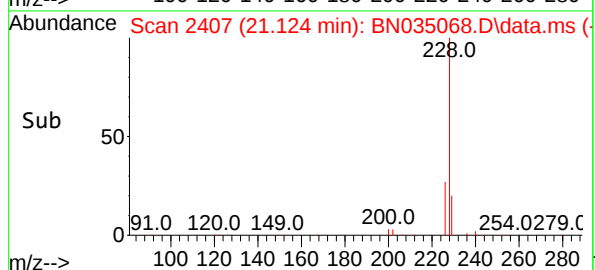
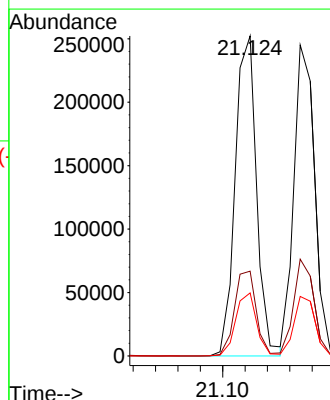
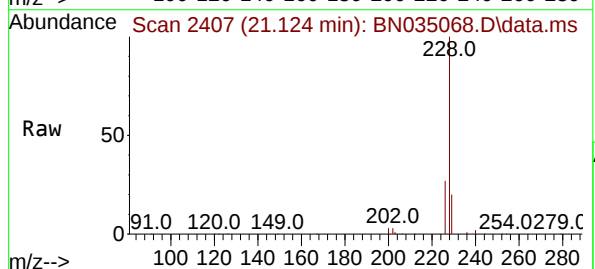
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

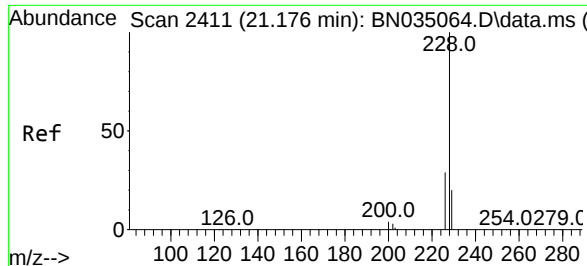
Tgt Ion:244 Resp: 199585
Ion Ratio Lower Upper
244 100
212 9.0 7.6 11.4
122 7.7 6.1 9.1



#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

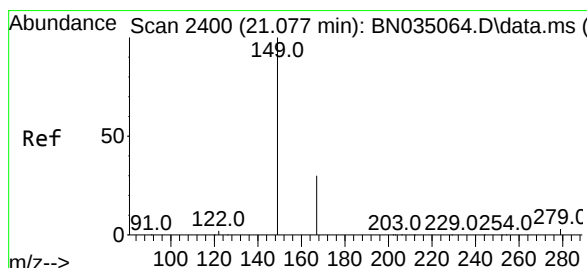
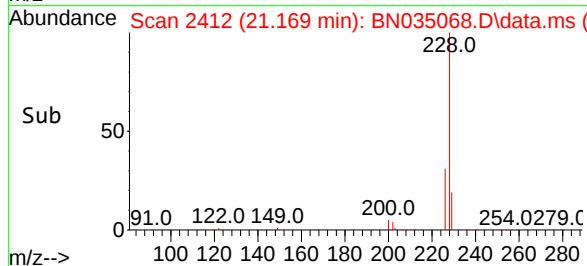
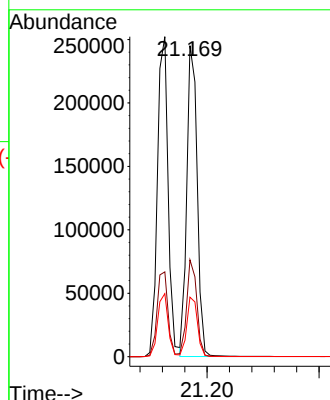
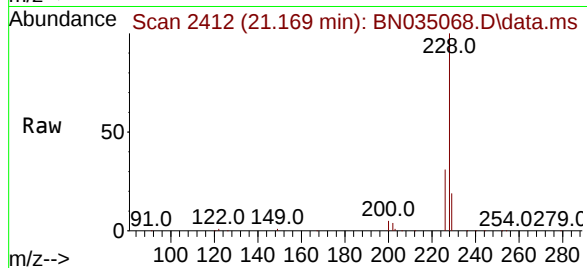
Tgt Ion:228 Resp: 317200

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

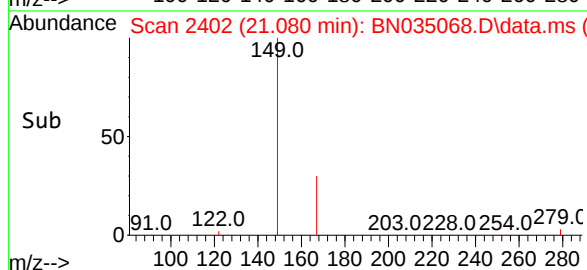
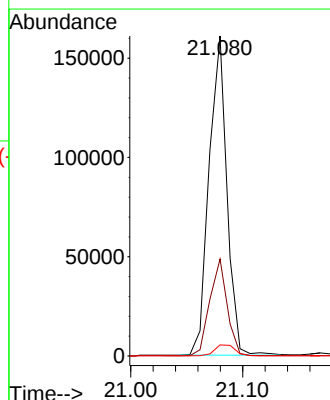
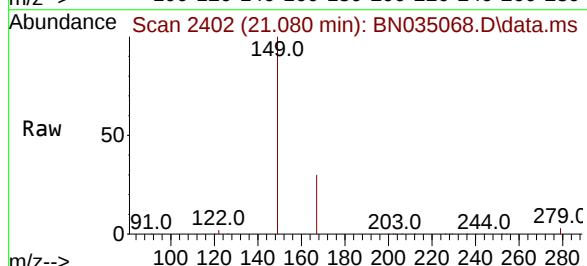
Tgt Ion:149 Resp: 178320

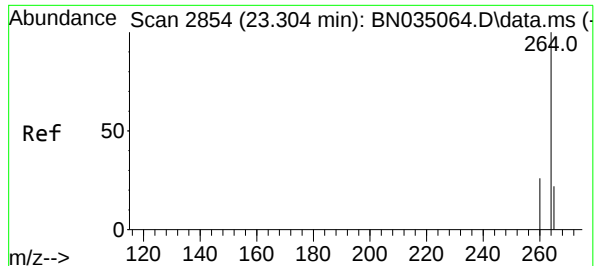
Ion Ratio Lower Upper

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

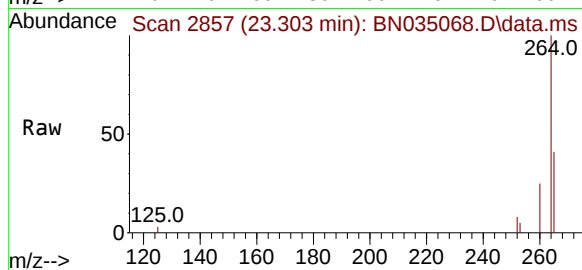
Acq: 13 Nov 2024 16:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0



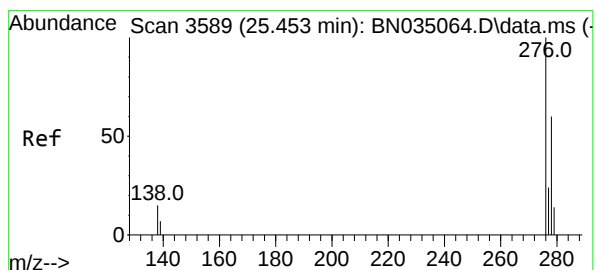
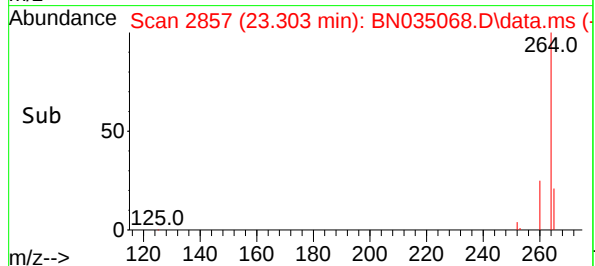
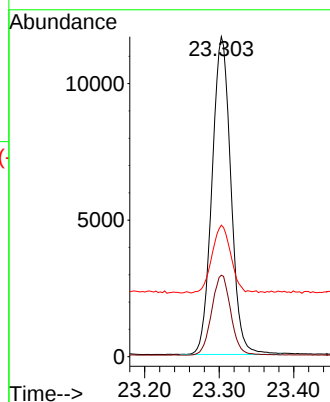
Tgt Ion:264 Resp: 20465

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

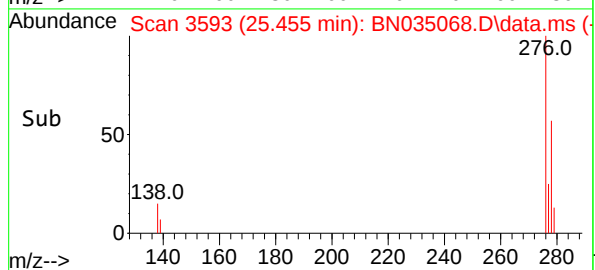
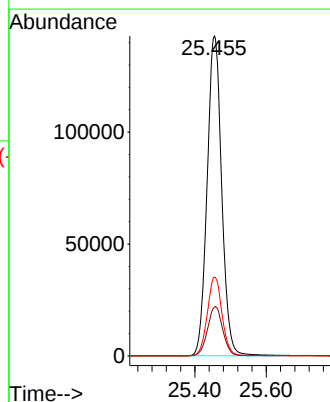
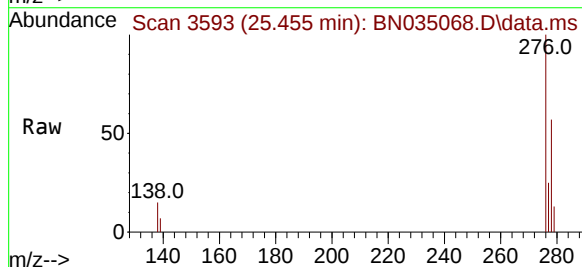
Tgt Ion:276 Resp: 405401

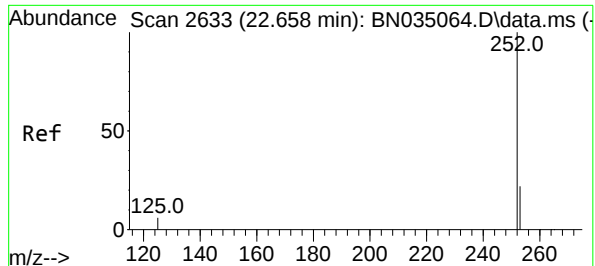
Ion Ratio Lower Upper

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

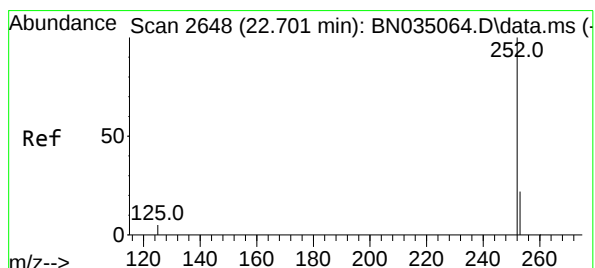
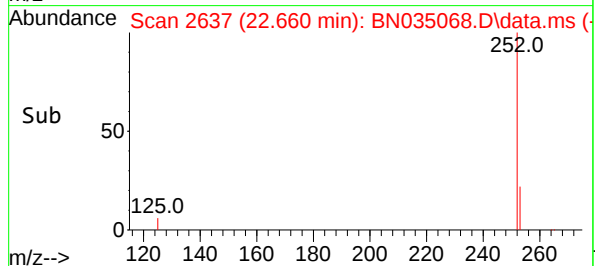
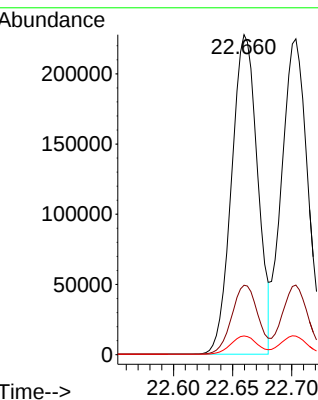
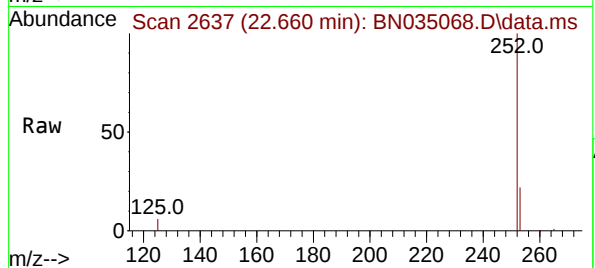
Tgt Ion:252 Resp: 347639

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

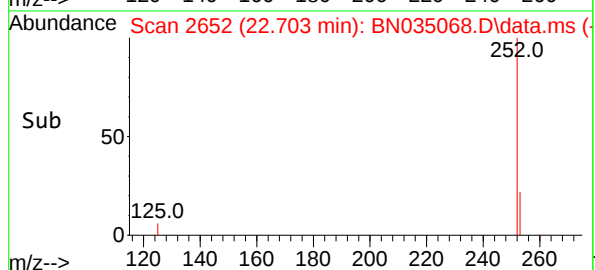
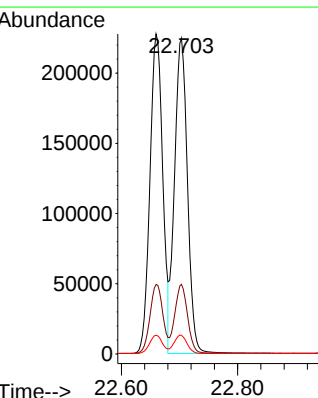
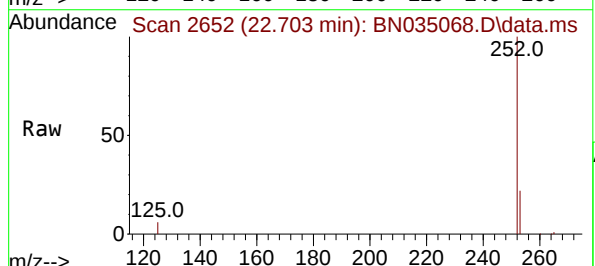
Tgt Ion:252 Resp: 347310

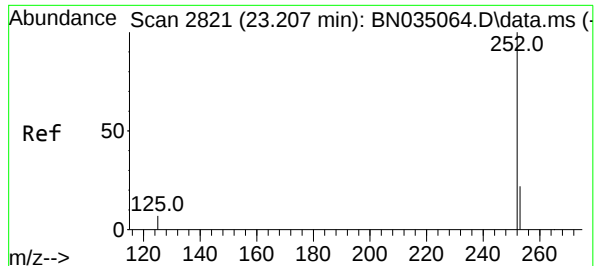
Ion Ratio Lower Upper

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# 2821

Delta R.T. 0.002 min

Lab File: BN035068.D

Acq: 13 Nov 2024 16:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

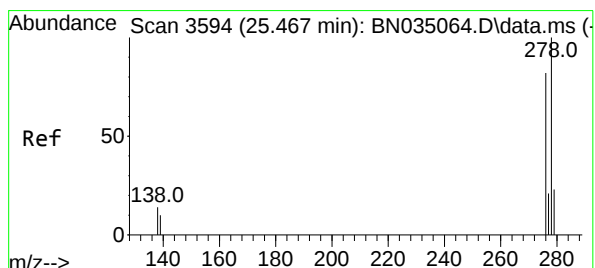
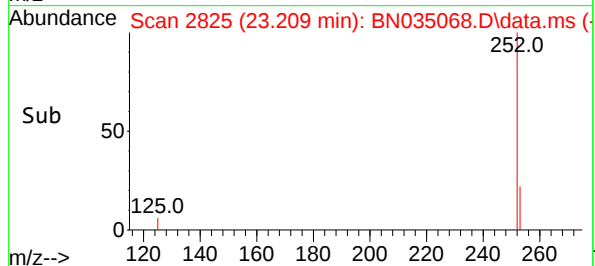
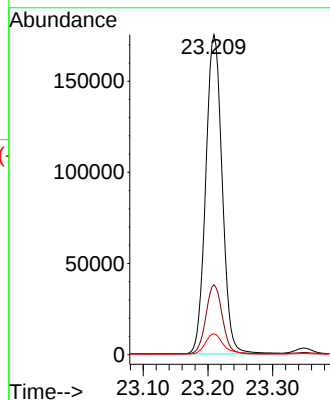
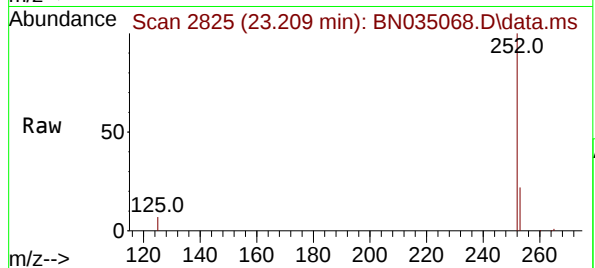
Tgt Ion:252 Resp: 308664

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

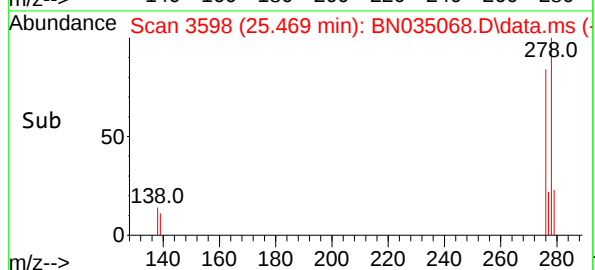
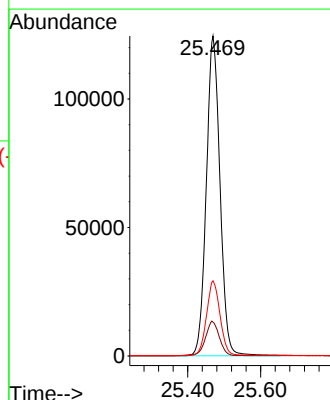
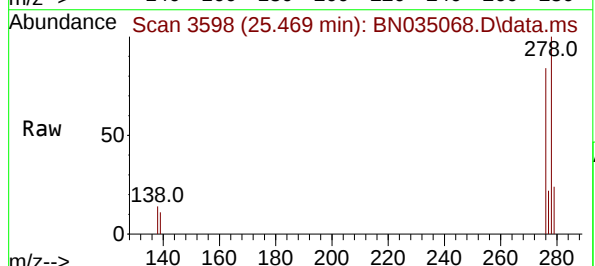
Tgt Ion:278 Resp: 323522

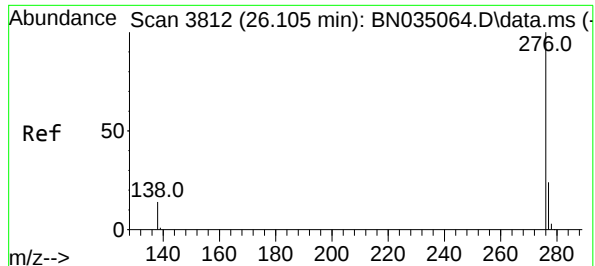
Ion Ratio Lower Upper

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

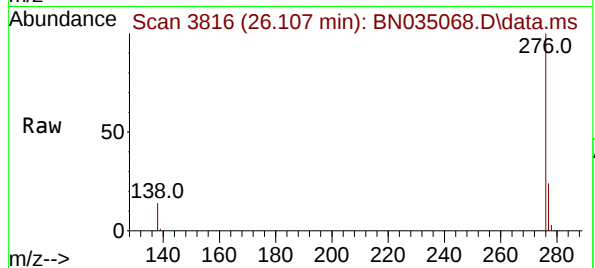
Acq: 13 Nov 2024 16:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0



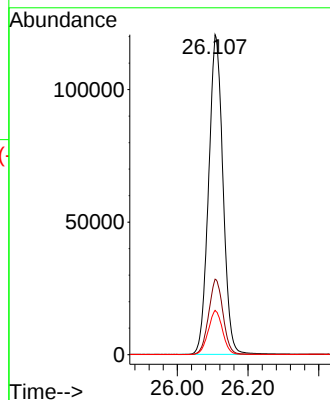
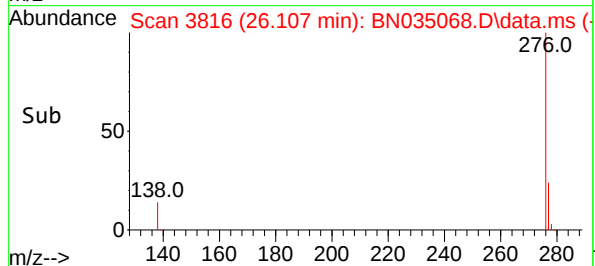
Tgt Ion:276 Resp: 339655

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

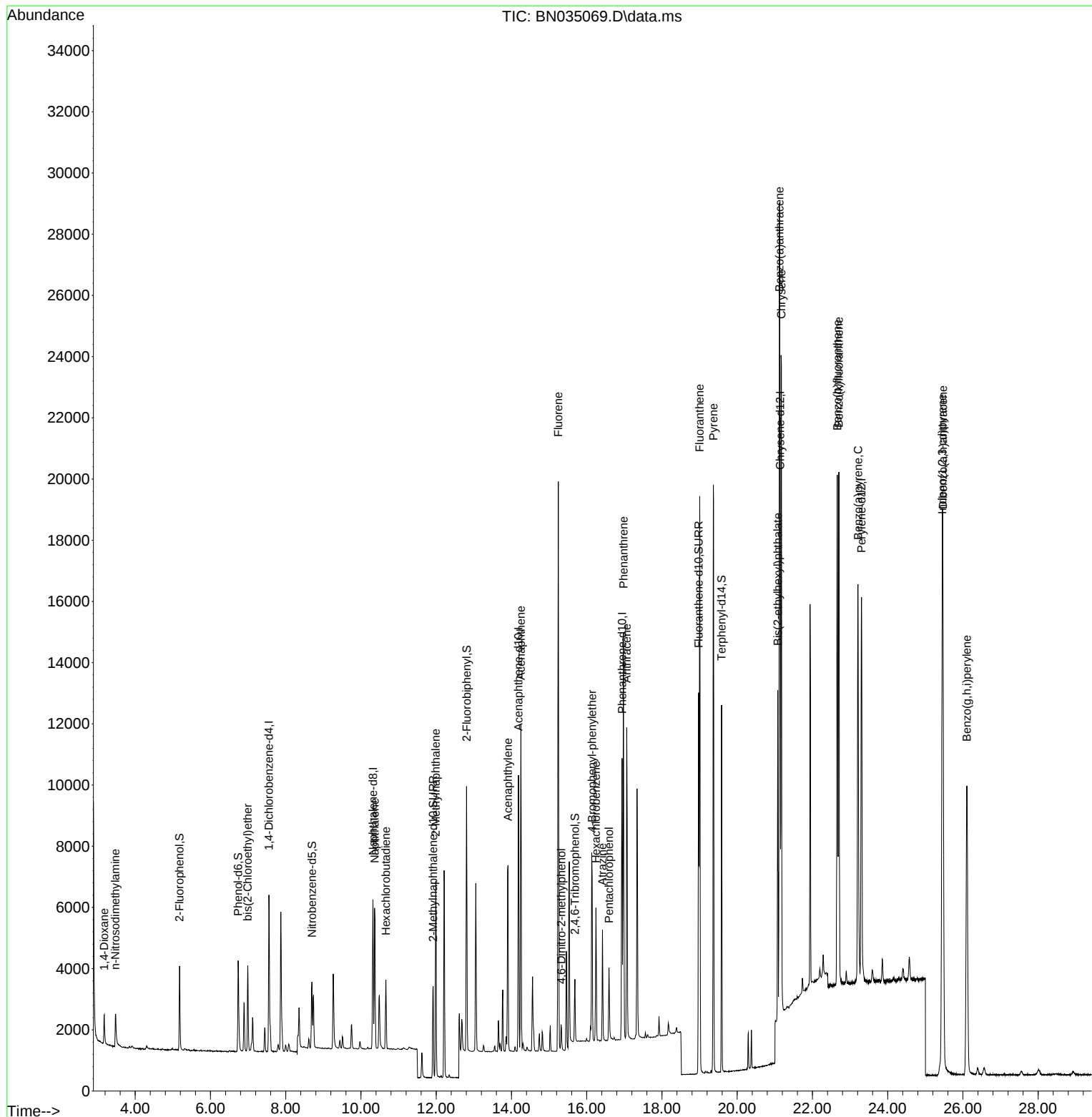
Manual Integrations

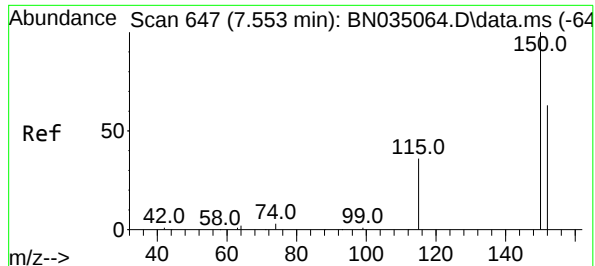
APPROVED

Reviewed By :Yogesh Patel 11/14/2024

Supervised By :mohammad ahmed 11/14/2024

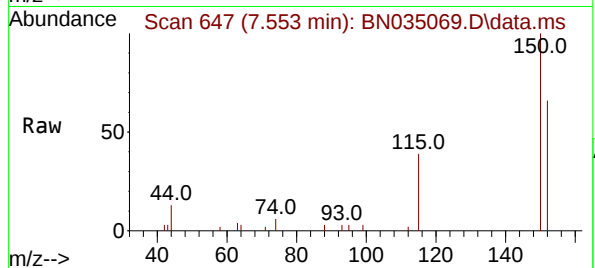
Quant Time: Nov 13 17:18:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 17:18:14 2024
Response via : Initial Calibration





#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

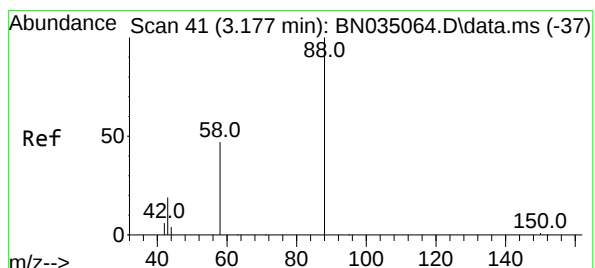
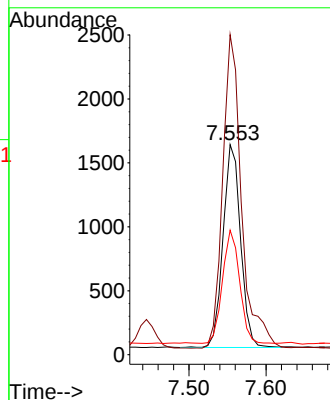
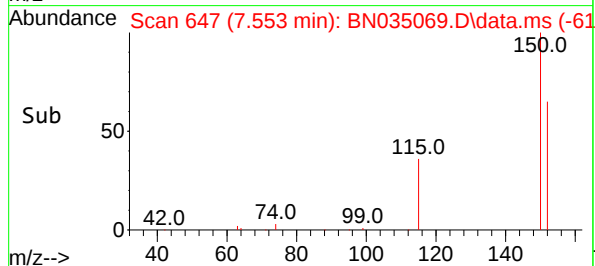
Instrument :
BNA_N
ClientSampleId :
ICVBN111324



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

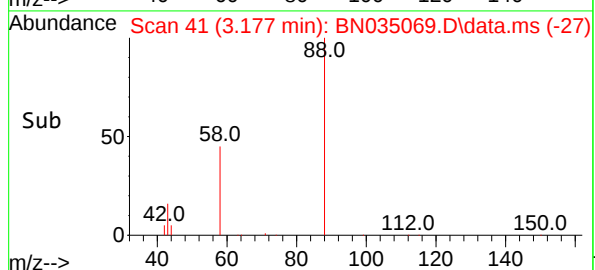
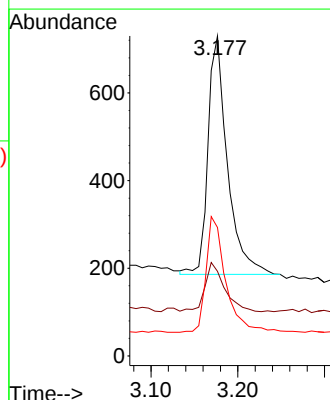
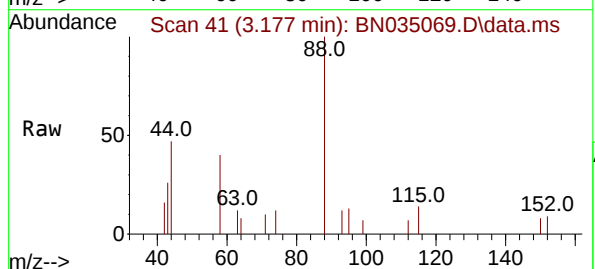
Manual Integrations
APPROVED

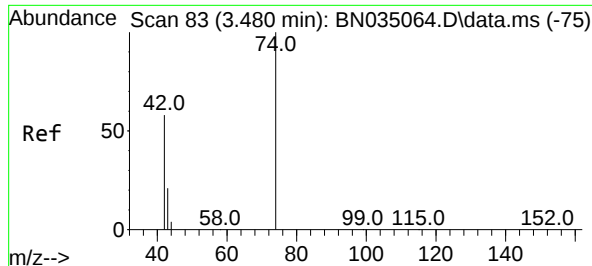
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#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

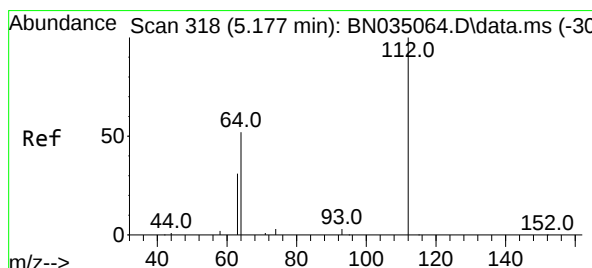
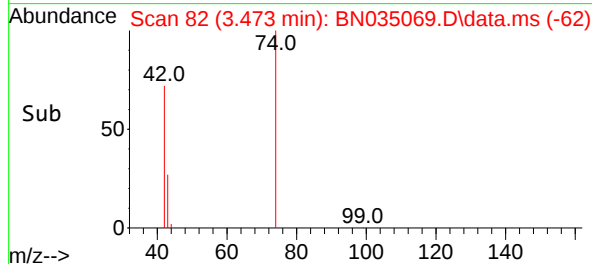
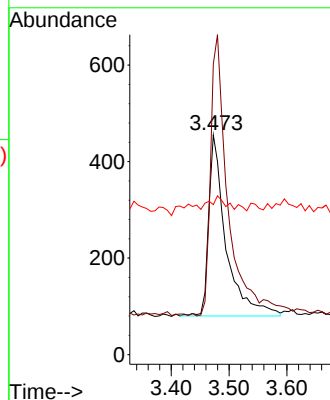
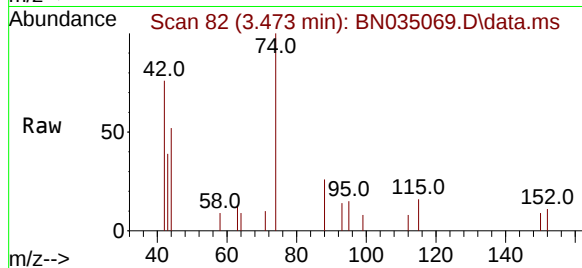
ClientSampleId :

ICVBN111324

Tgt Ion:	42	Ratio	100	Lower	Upper
42	100				
74	158.6		120.8	181.2	
44	8.7		2.9	4.3	

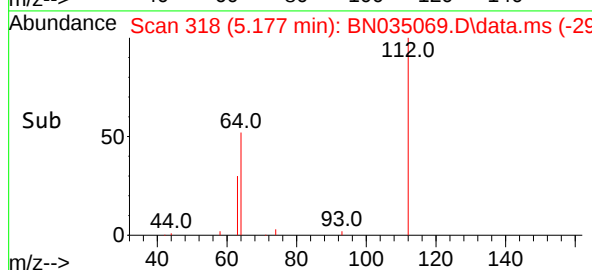
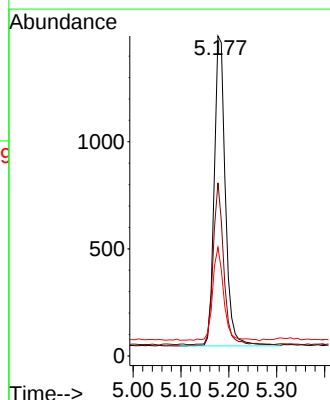
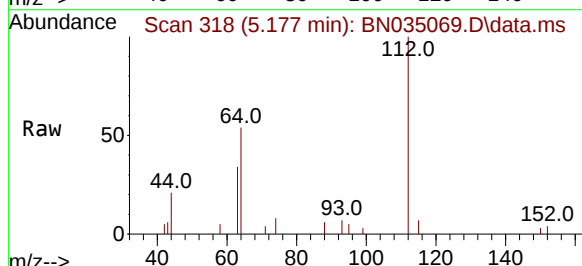
Manual Integrations
APPROVED

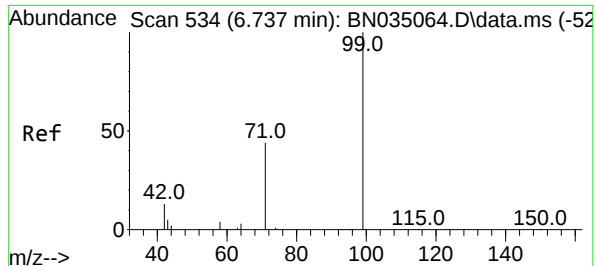
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#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	Ratio	100	Lower	Upper
112	100				
64	48.8		39.7	59.5	
63	30.1		23.0	34.4	





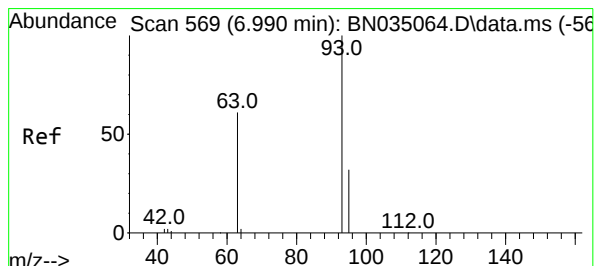
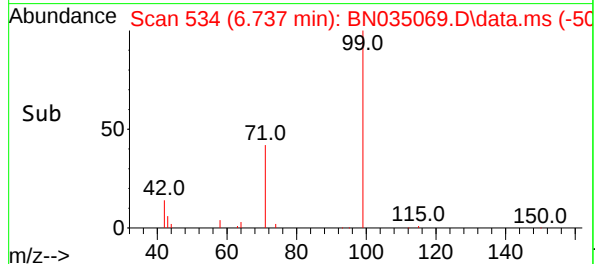
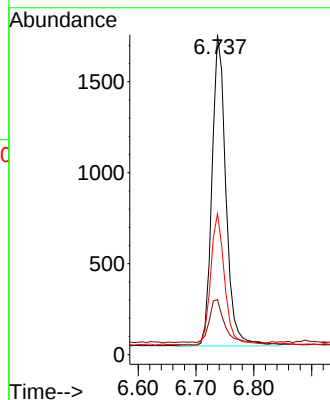
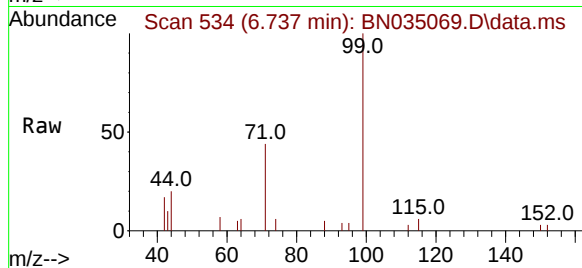
#5
Phenol-d6
Concen: 0.359 ng
RT: 6.737 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

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

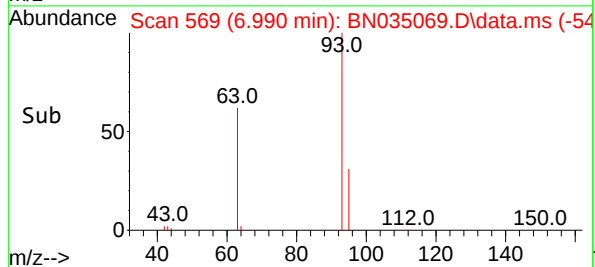
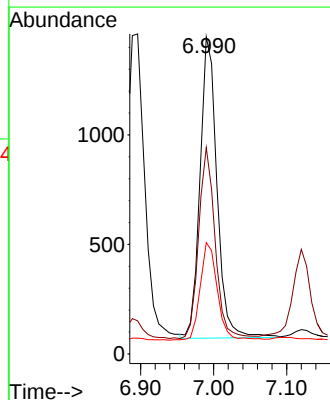
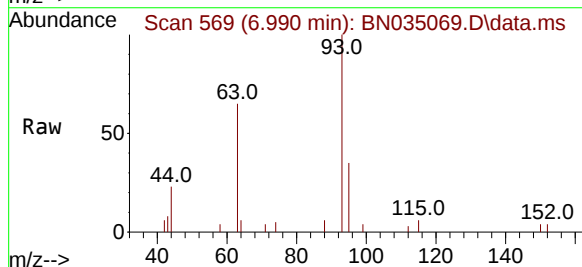
Manual Integrations
APPROVED

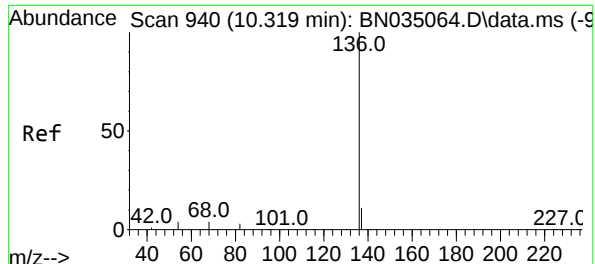
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#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





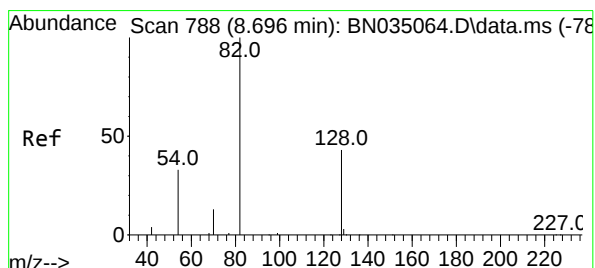
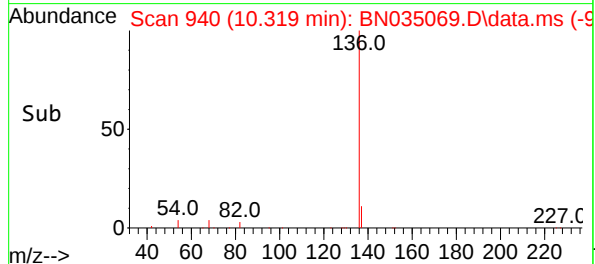
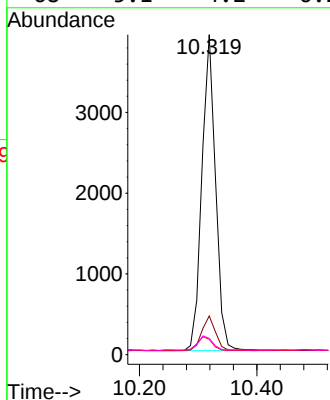
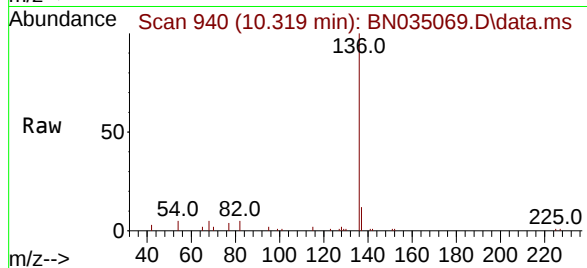
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.319 min Scan# 940
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

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

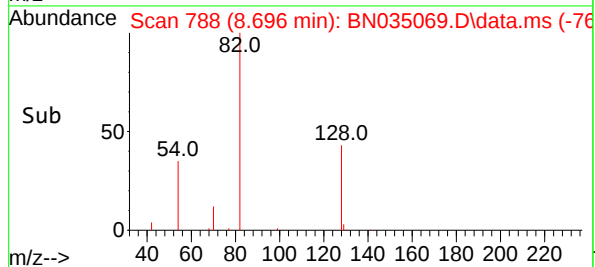
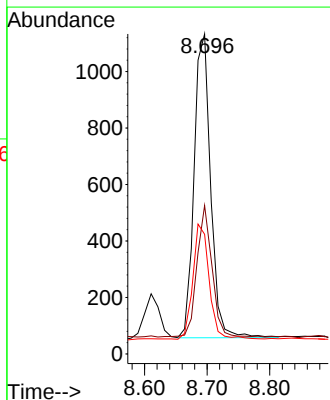
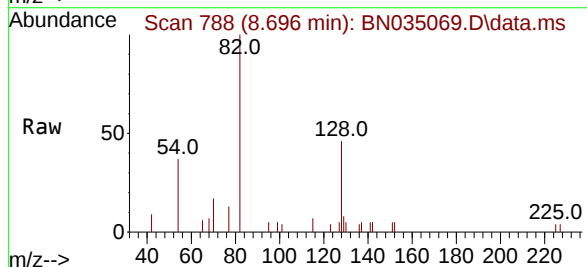
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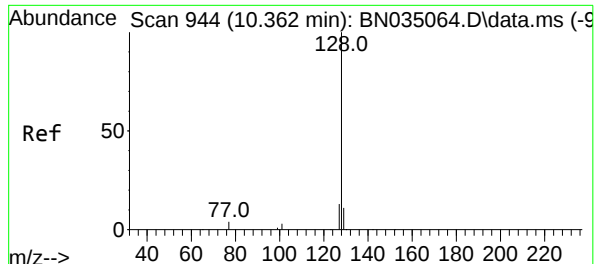
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#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





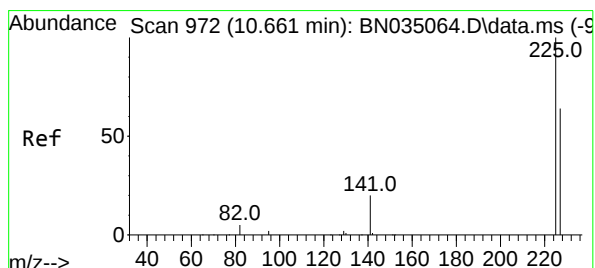
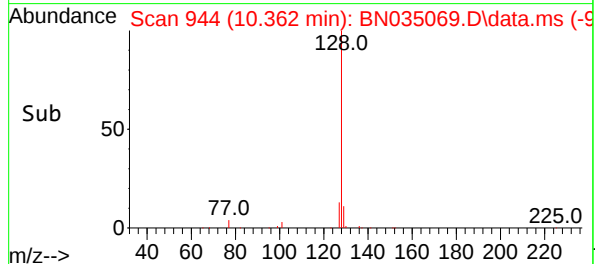
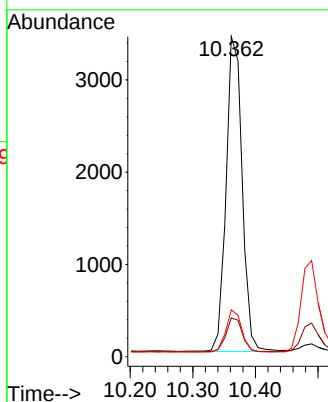
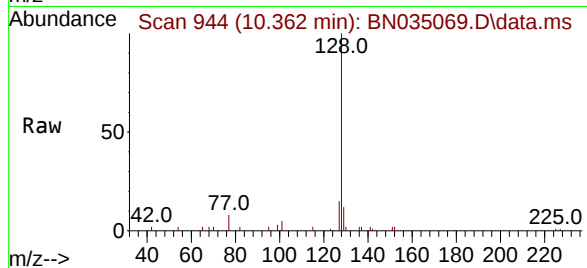
#9
Naphthalene
Concen: 0.366 ng
RT: 10.362 min Scan# 944
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

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

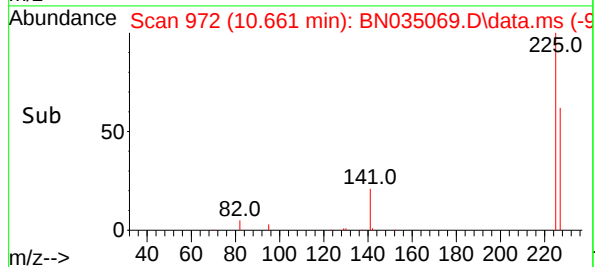
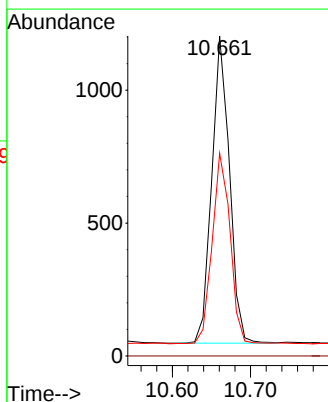
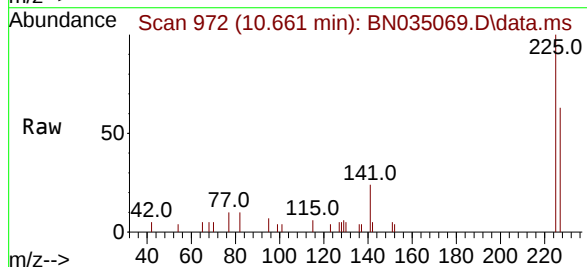
Manual Integrations
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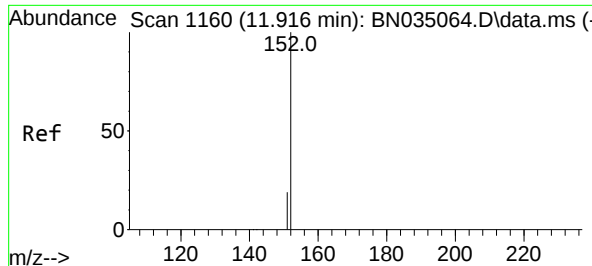
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#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

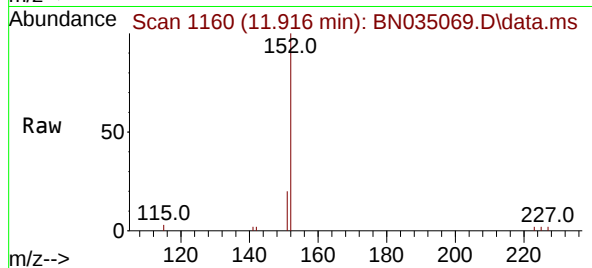
Tgt Ion:225 Resp: 1817
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.2 51.5 77.3





#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

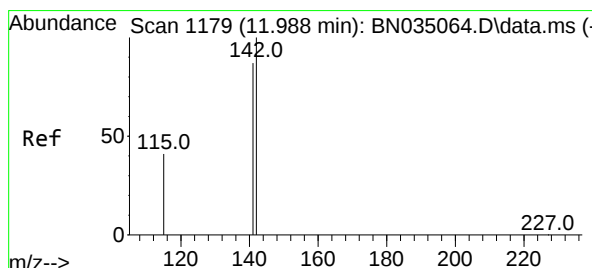
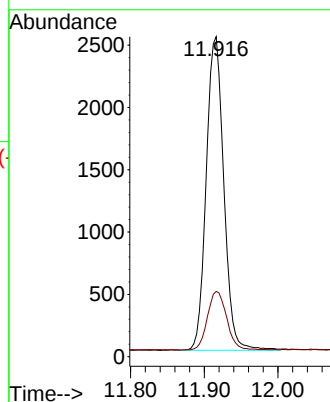
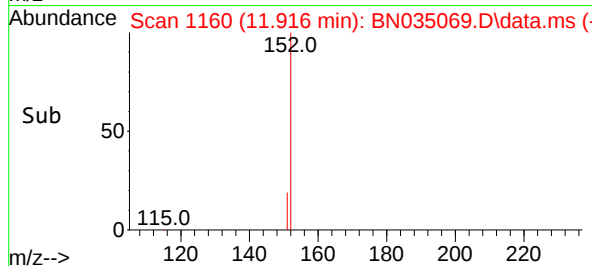
Instrument :
BNA_N
ClientSampleId :
ICVBN111324



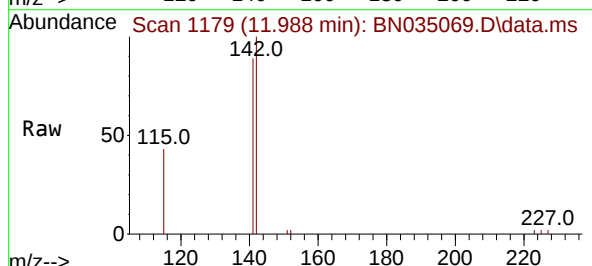
Tgt Ion:152 Resp: 4160
Ion Ratio Lower Upper
152 100
151 20.6 16.2 24.4

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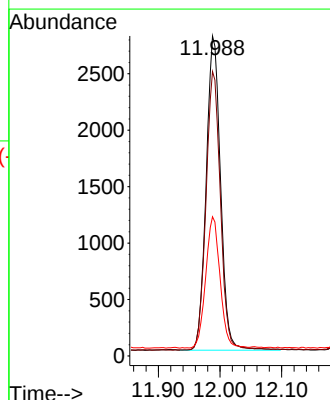
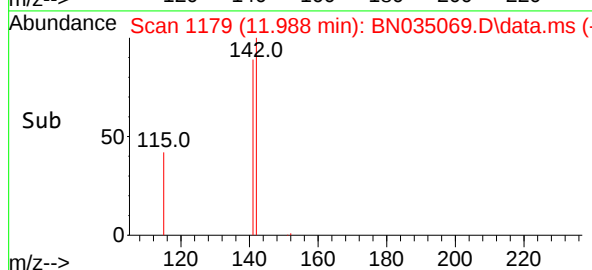
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

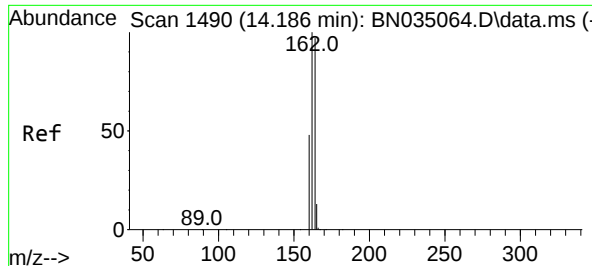


#12
2-Methylnaphthalene
Concen: 0.368 ng
RT: 11.988 min Scan# 1179
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51



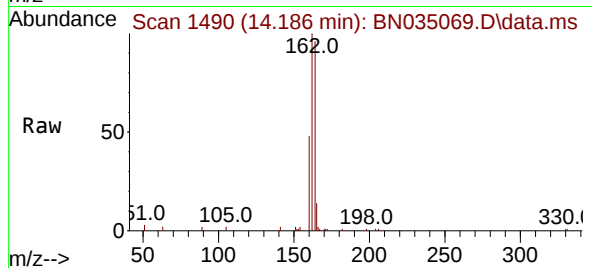
Tgt Ion:142 Resp: 4513
Ion Ratio Lower Upper
142 100
141 88.9 70.1 105.1
115 43.5 34.4 51.6





#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

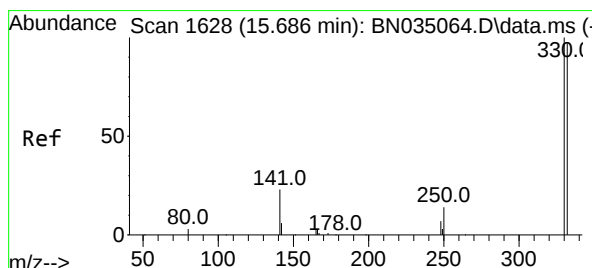
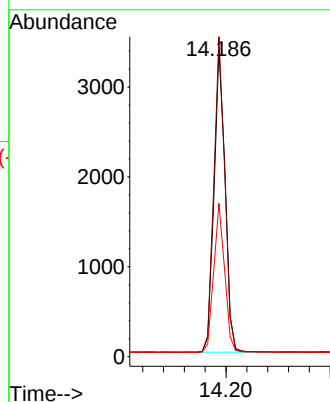
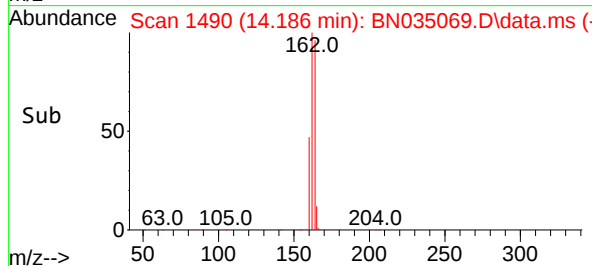
Instrument :
BNA_N
ClientSampleId :
ICVBN111324



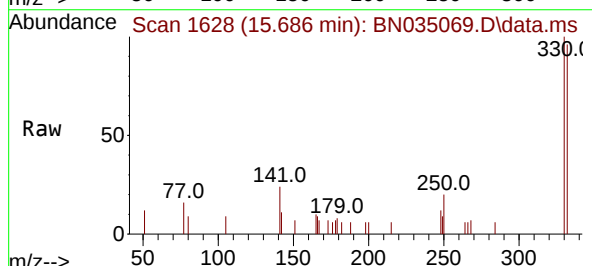
Tgt Ion:164 Resp: 496
Ion Ratio Lower Upper
164 100
162 104.1 82.2 123.2
160 49.8 40.2 60.4

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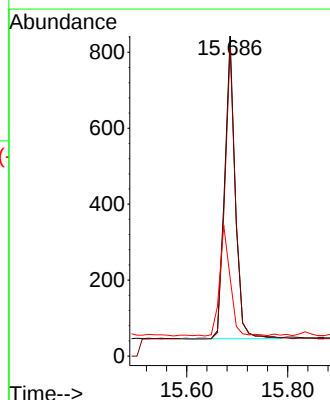
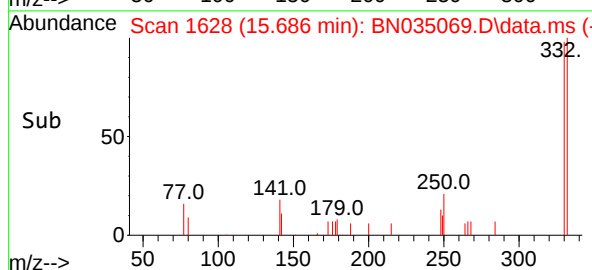
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

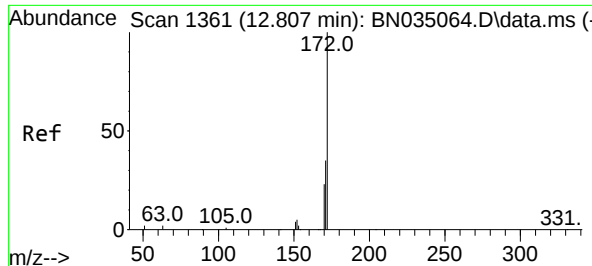


#14
2,4,6-Tribromophenol
Concen: 0.322 ng
RT: 15.686 min Scan# 1628
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51



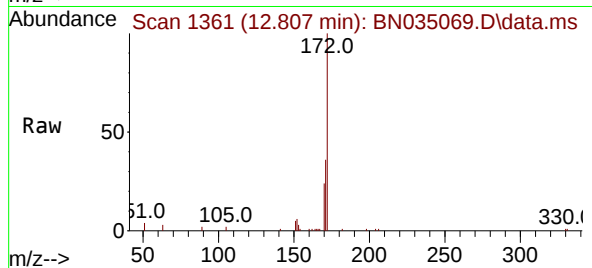
Tgt Ion:330 Resp: 1154
Ion Ratio Lower Upper
330 100
332 97.3 76.9 115.3
141 36.7 29.6 44.4





#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

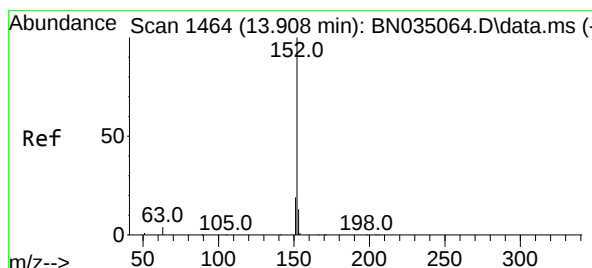
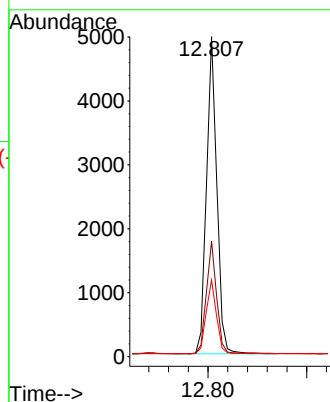
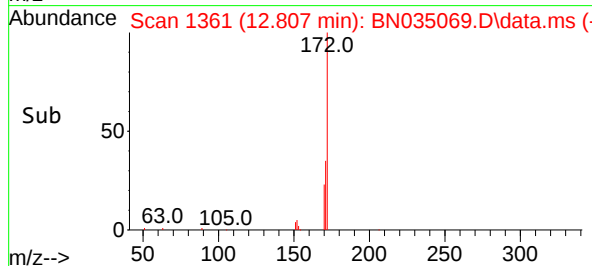
Instrument :
BNA_N
ClientSampleId :
ICVBN111324



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

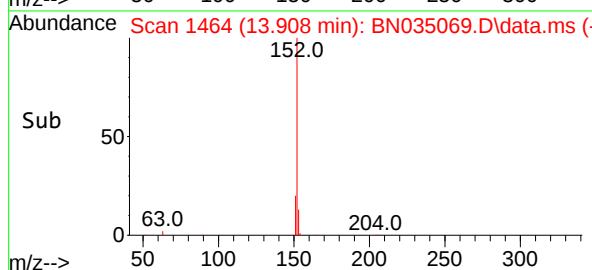
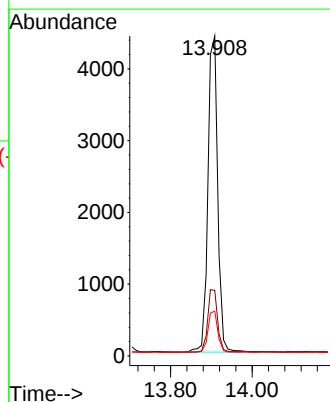
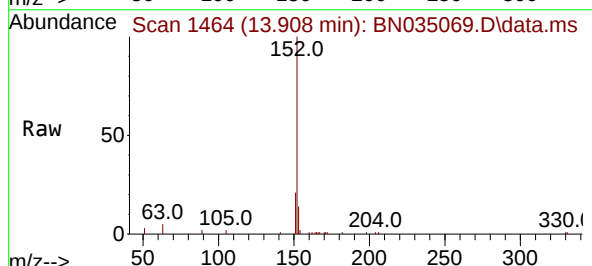
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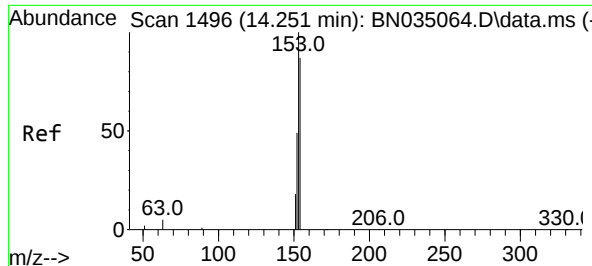
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#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

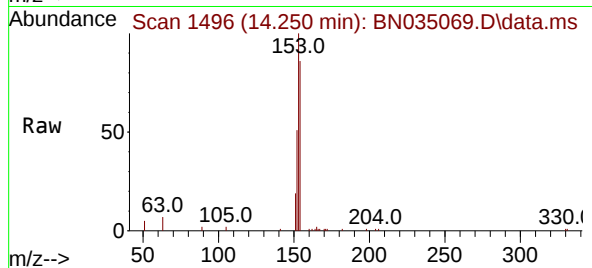
Tgt Ion:152 Resp: 7387
Ion Ratio Lower Upper
152 100
151 20.0 15.8 23.8
153 13.0 10.2 15.4





#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

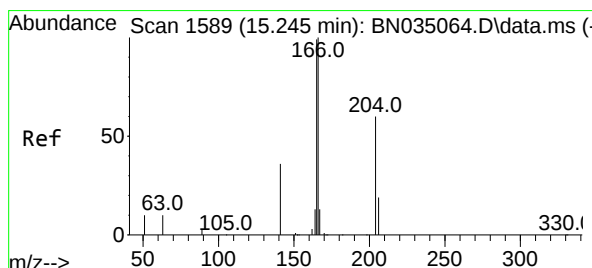
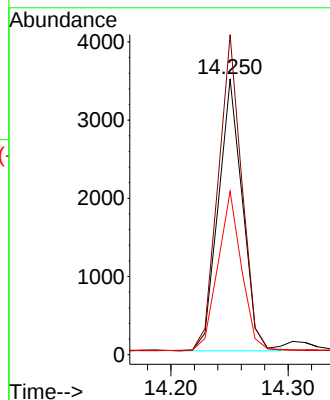
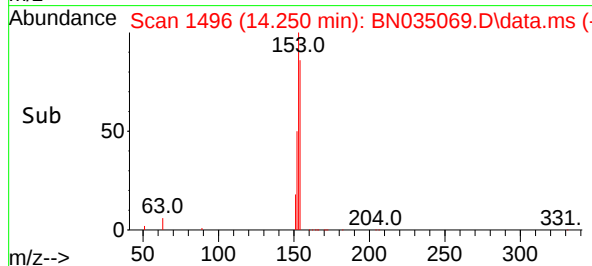
Instrument :
BNA_N
ClientSampleId :
ICVBN111324



Tgt Ion:154 Resp: 499
Ion Ratio Lower Upper
154 100
153 113.2 91.6 137.4
152 57.7 45.8 68.6

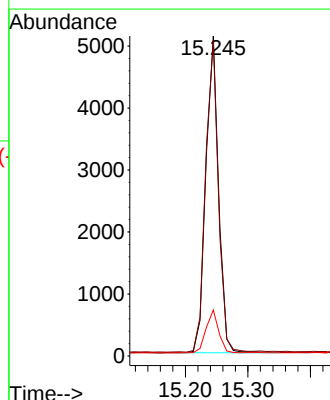
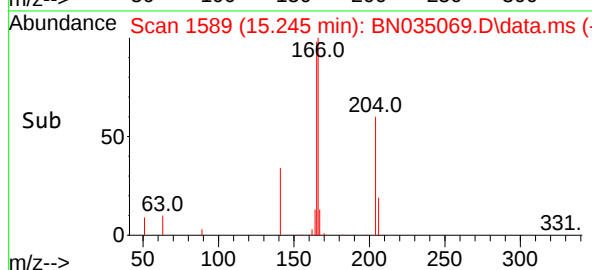
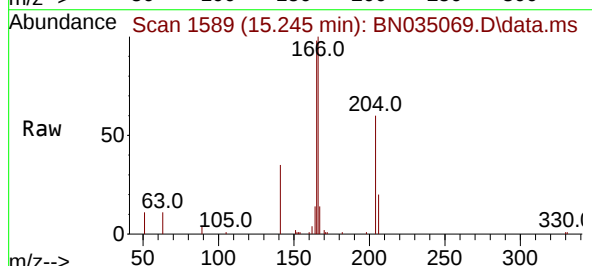
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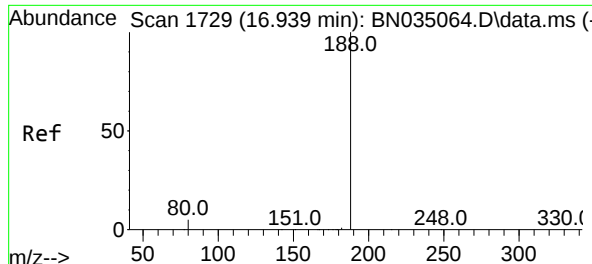
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#18
Fluorene
Concen: 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

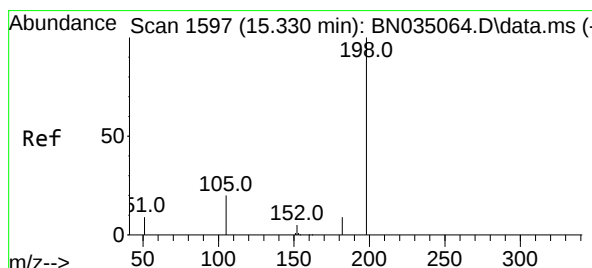
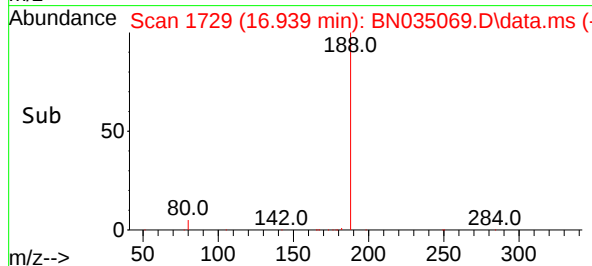
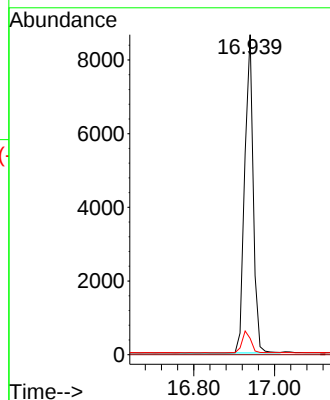
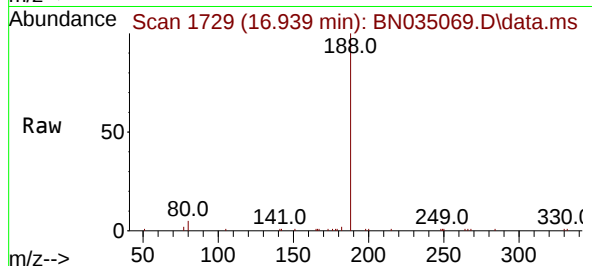
ClientSampleId :

ICVBN111324

Tgt Ion:188	Resp:	1268
Ion Ratio	Lower	Upper
188	100	
94	0.0	0.0
80	5.1	4.3

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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: 0.330 ng m

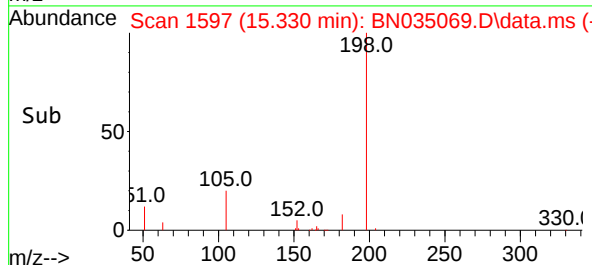
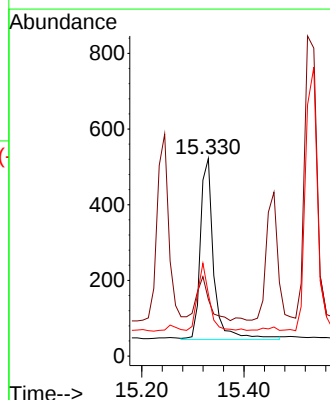
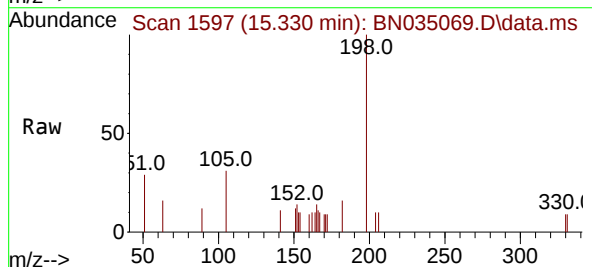
RT: 15.330 min Scan# 1597

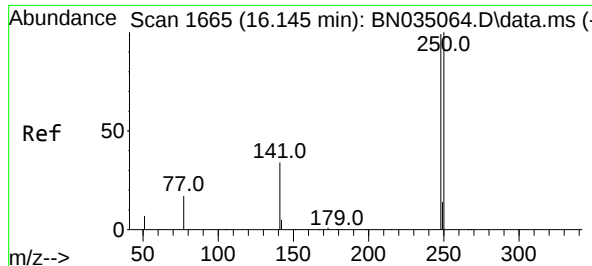
Delta R.T. 0.000 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

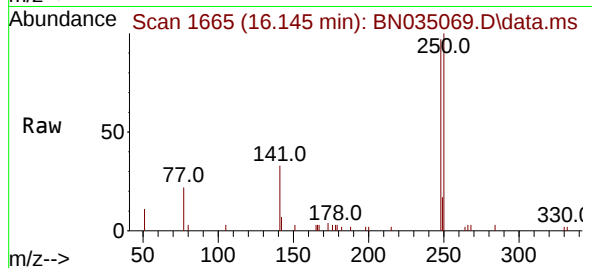
Tgt Ion:198	Resp:	870
Ion Ratio	Lower	Upper
198	100	
51	28.7	29.9
105	31.4	23.7





#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

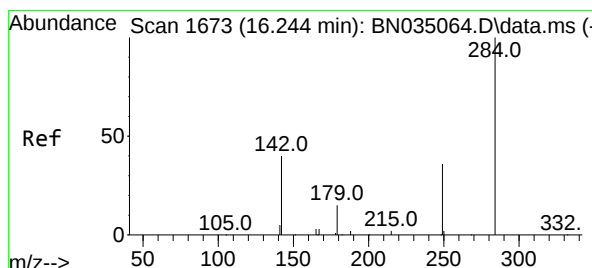
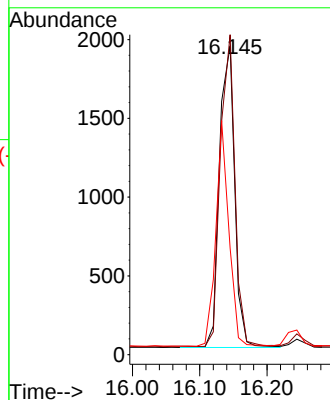
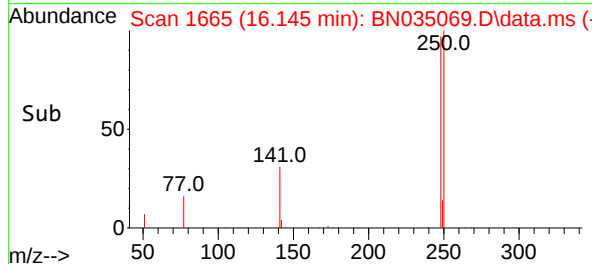
Instrument :
BNA_N
ClientSampleId :
ICVBN111324



Tgt Ion	Ratio	Lower	Upper
248	100		
250	103.6	81.2	121.8
141	34.5	29.1	43.7

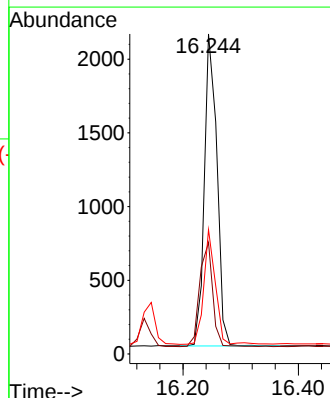
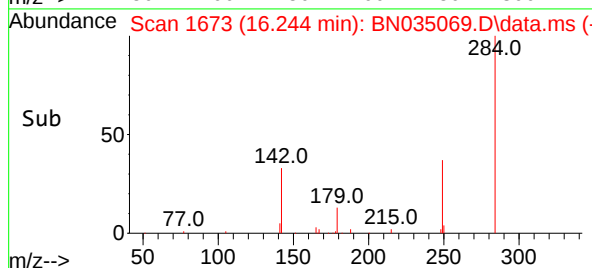
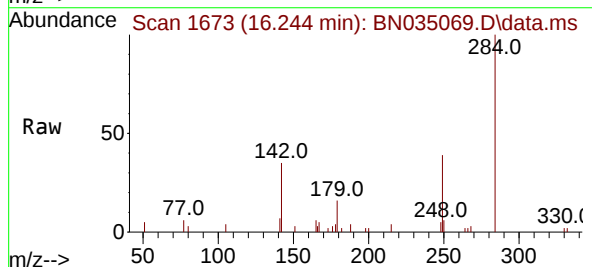
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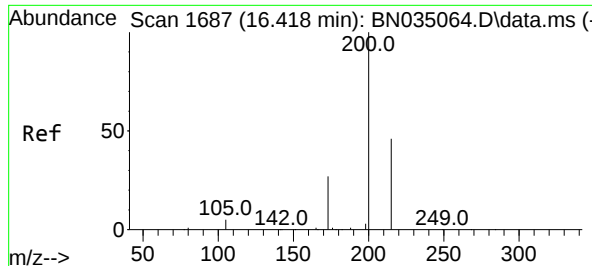
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#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





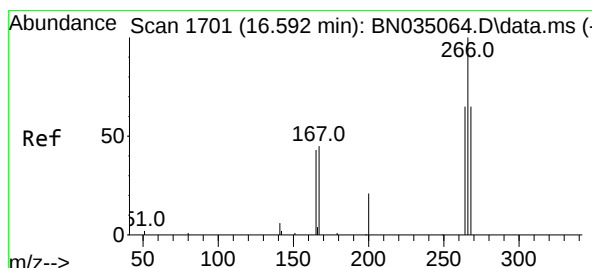
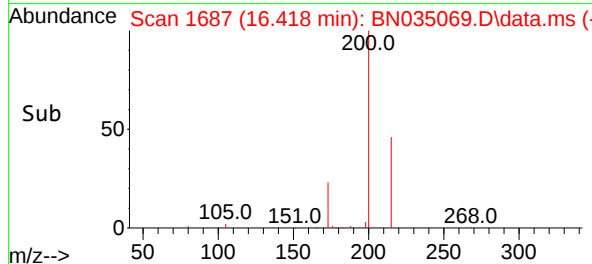
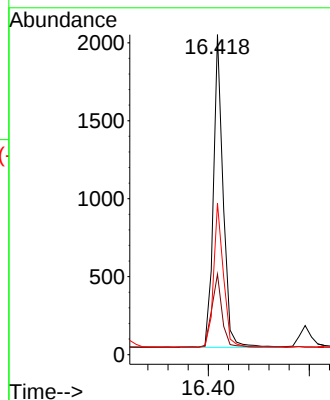
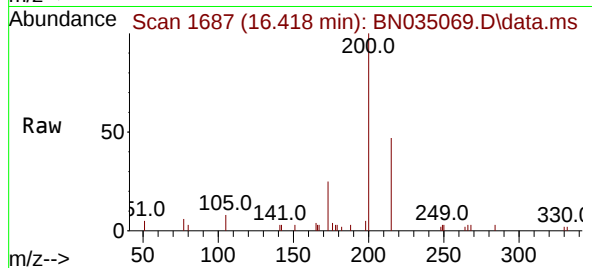
#23
Atrazine
Concen: 0.370 ng
RT: 16.418 min Scan# 1687
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

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

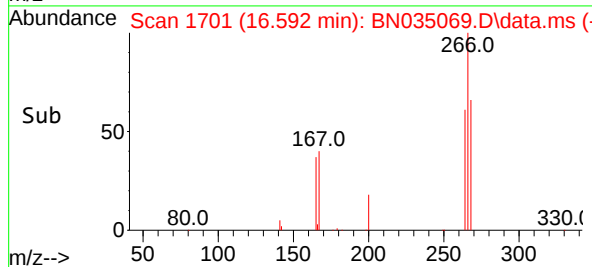
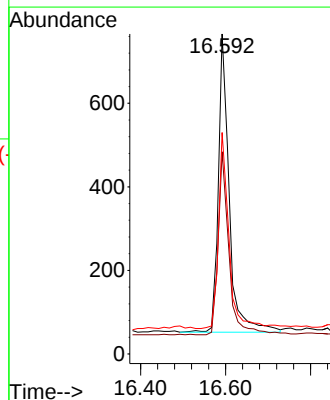
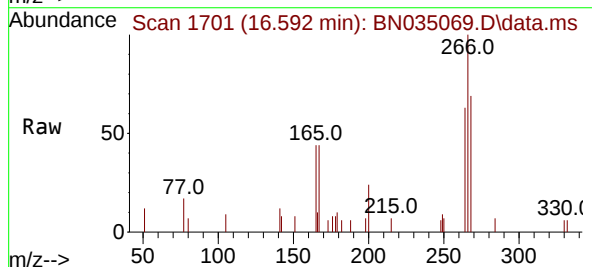
Manual Integrations
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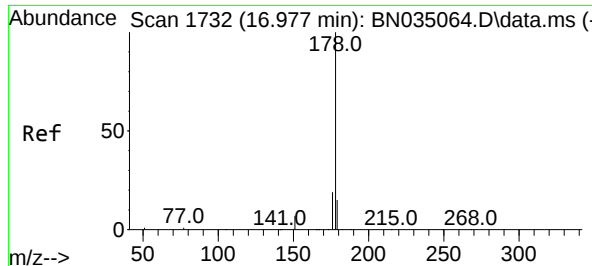
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#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





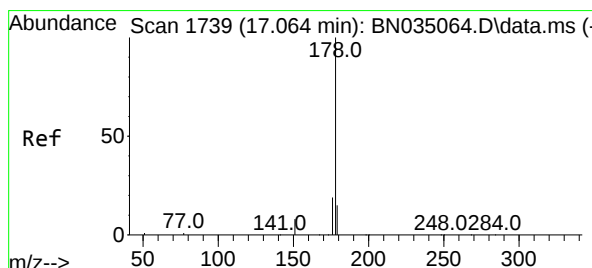
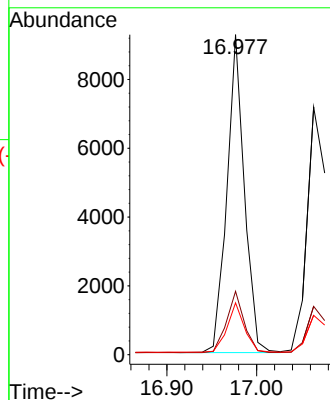
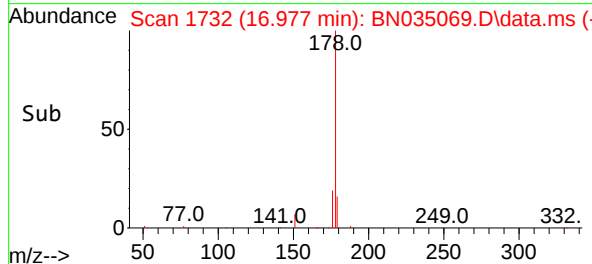
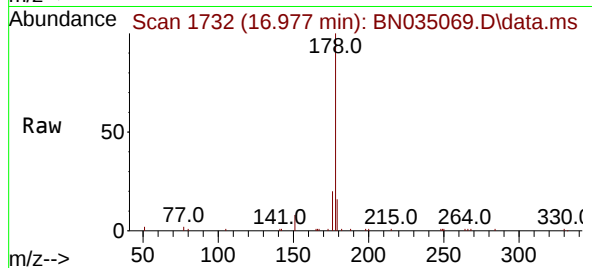
#25
Phenanthrene
Concen: 0.375 ng
RT: 16.977 min Scan# 1732
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

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

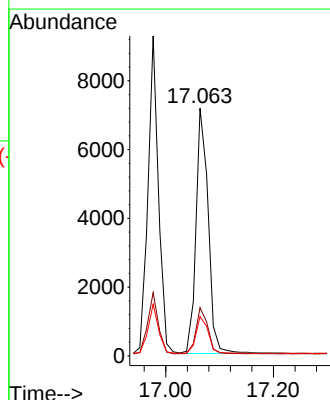
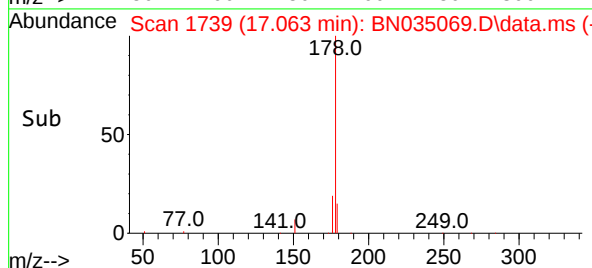
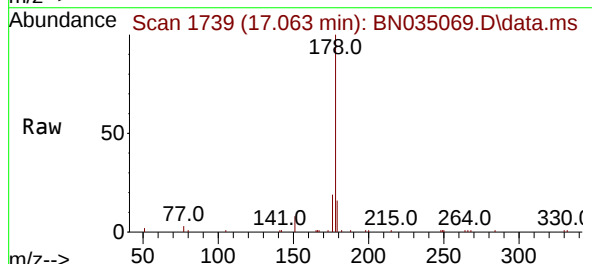
Manual Integrations
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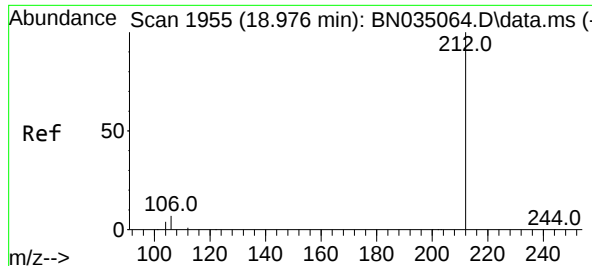
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#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 :

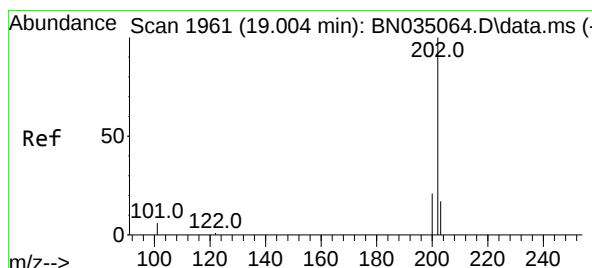
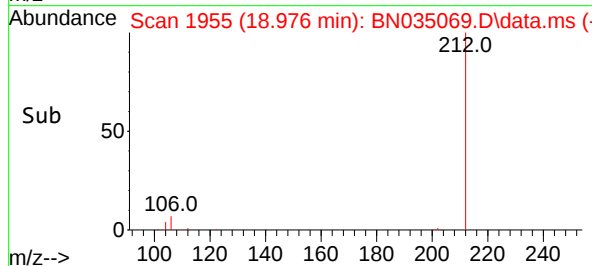
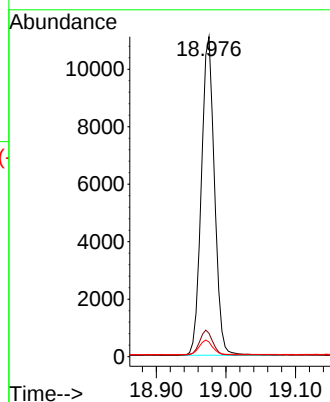
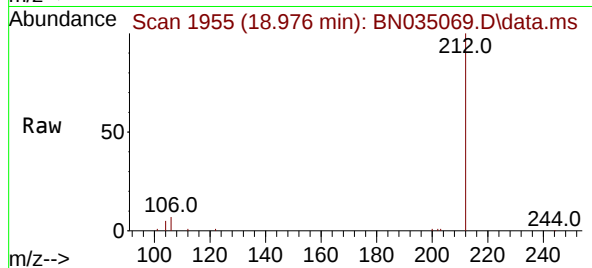
ICVBN111324

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

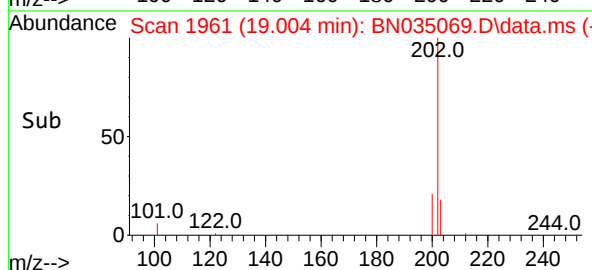
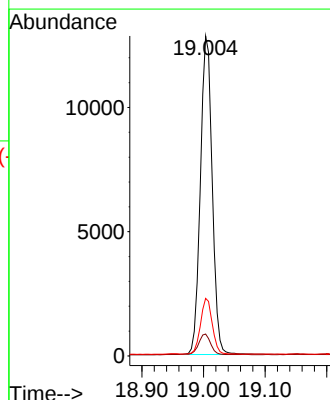
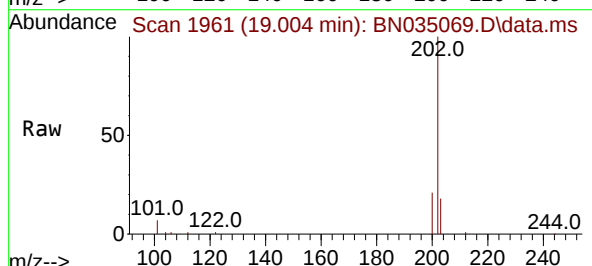
RT: 19.004 min Scan# 1961

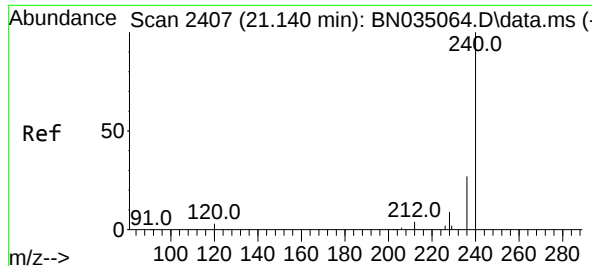
Delta R.T. -0.000 min

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

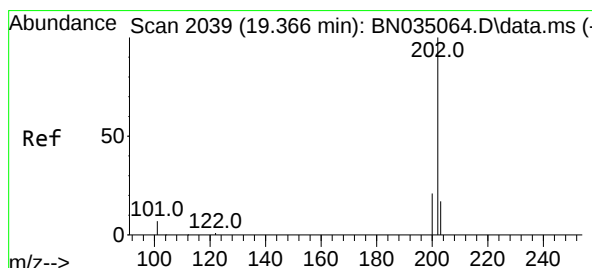
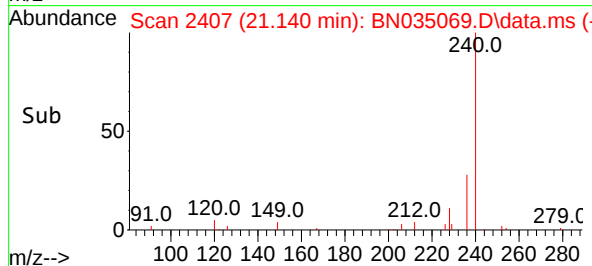
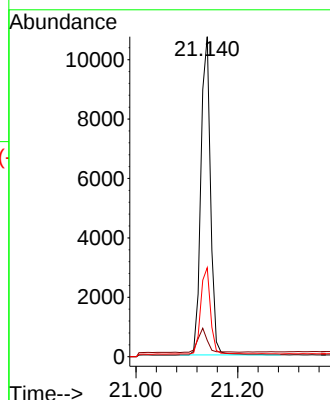
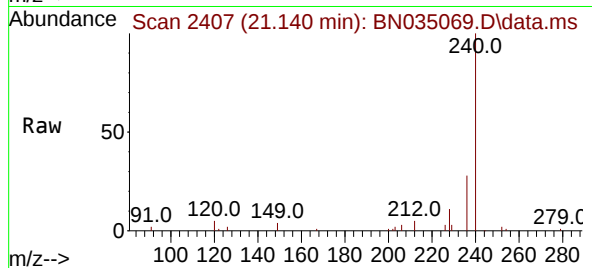
ClientSampleId :

ICVBN111324

Tgt Ion:240 Resp: 14058
Ion Ratio Lower Upper
240 100
120 5.1 3.8 5.6
236 27.8 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: 0.376 ng

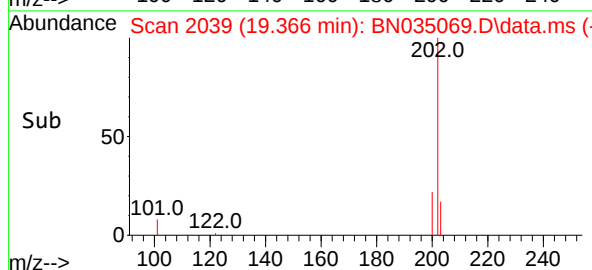
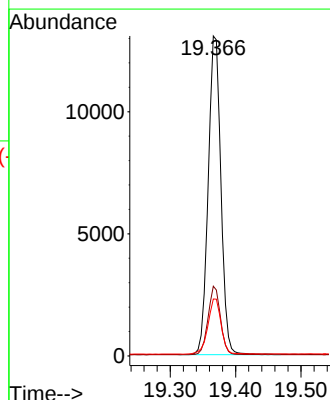
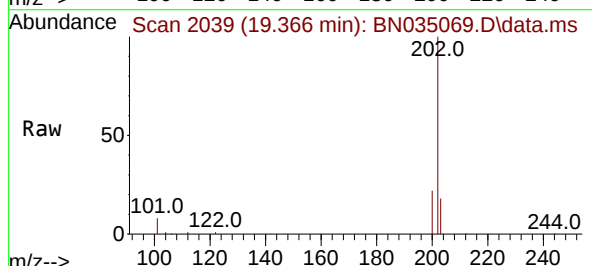
RT: 19.366 min Scan# 2039

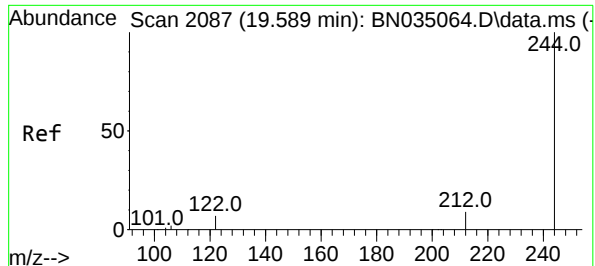
Delta R.T. -0.000 min

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

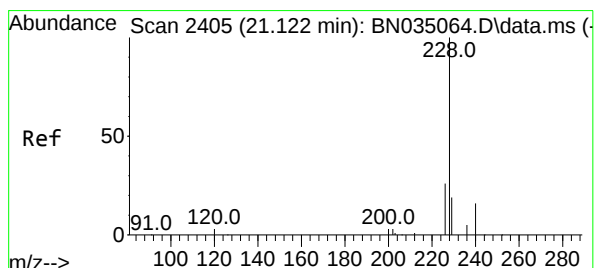
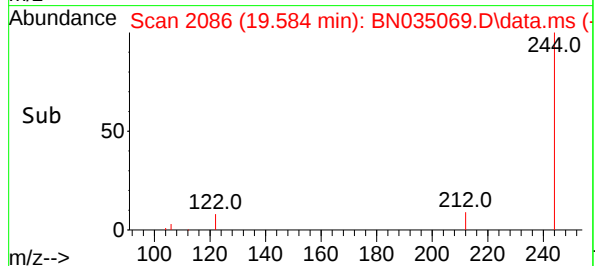
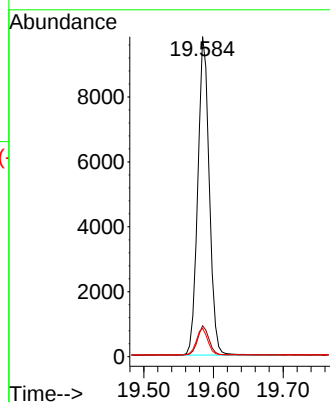
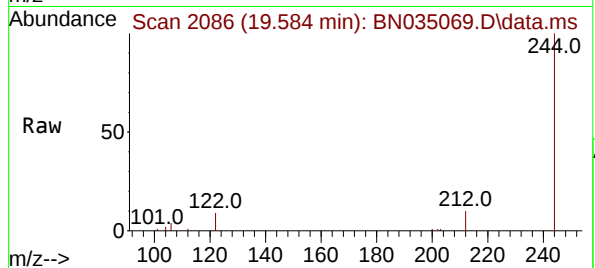
ClientSampleId :

ICVBN111324

Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.6	7.6	11.4
122	8.9	6.1	9.1

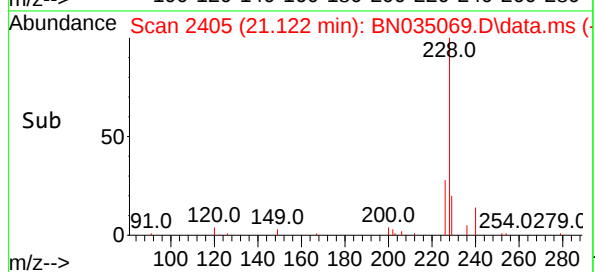
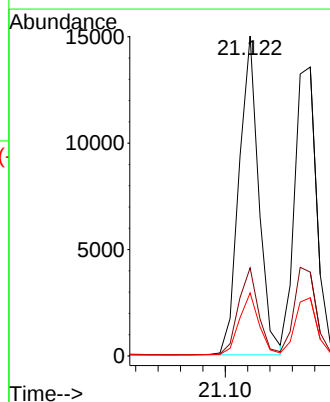
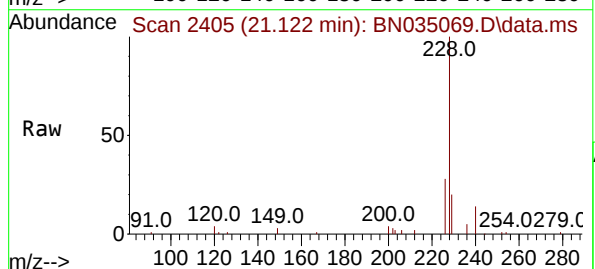
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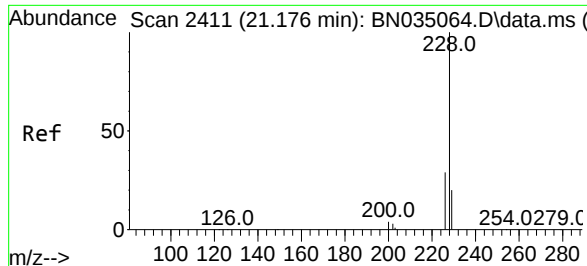
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#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	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 :

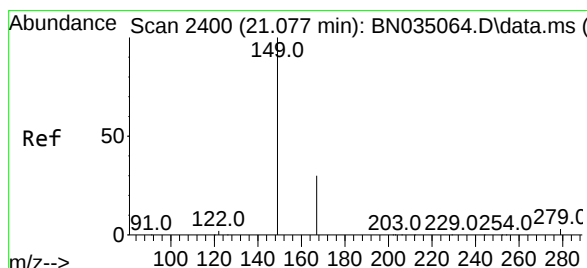
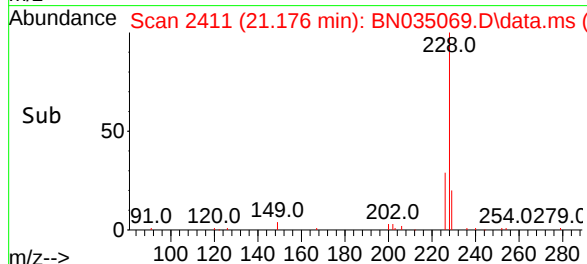
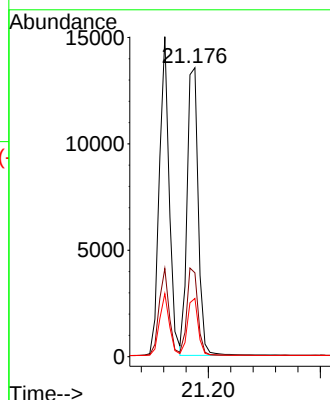
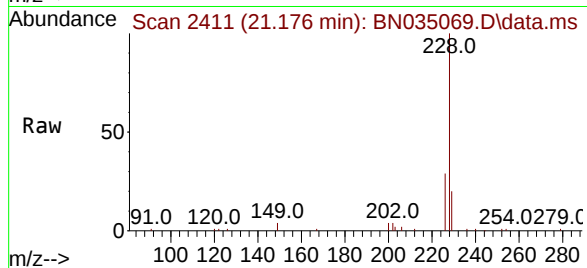
ICVBN111324

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

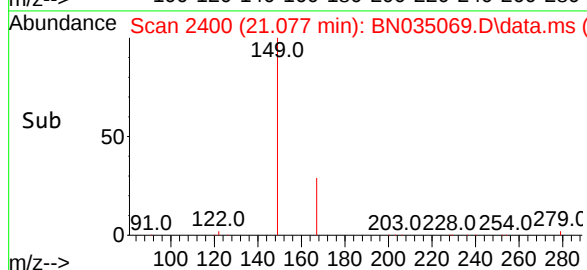
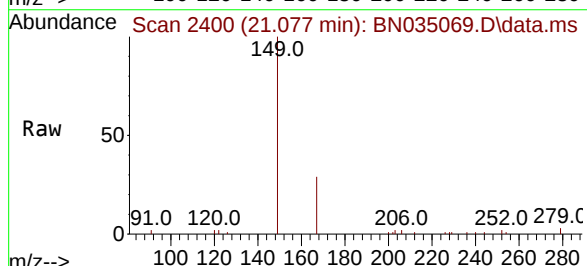
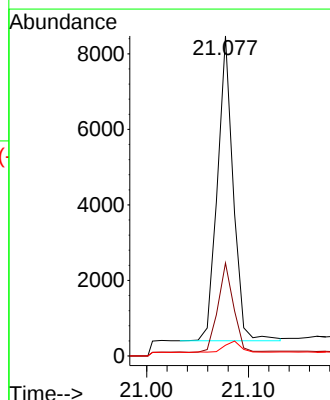
RT: 21.077 min Scan# 2400

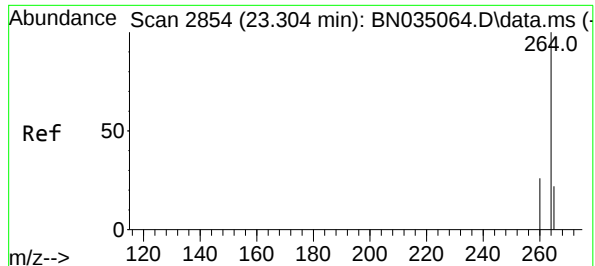
Delta R.T. -0.000 min

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





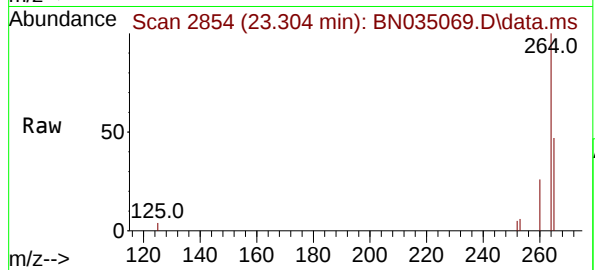
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.304 min Scan# 2854
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Instrument :

BNA_N

ClientSampleId :

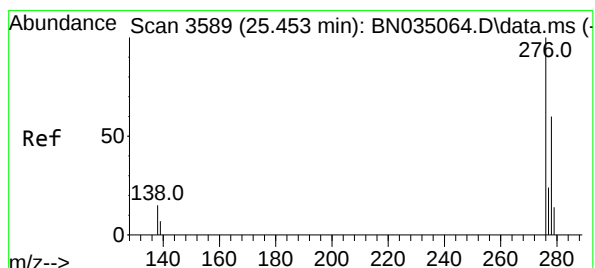
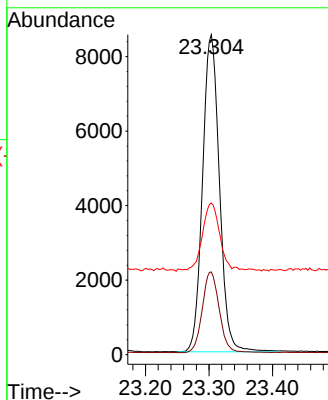
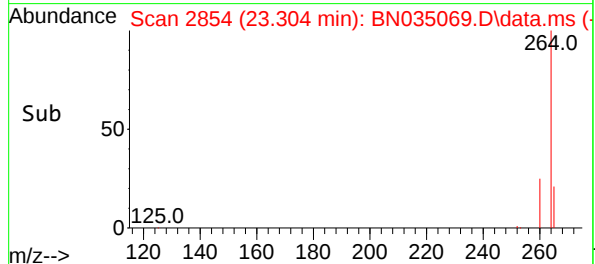
ICVBN111324



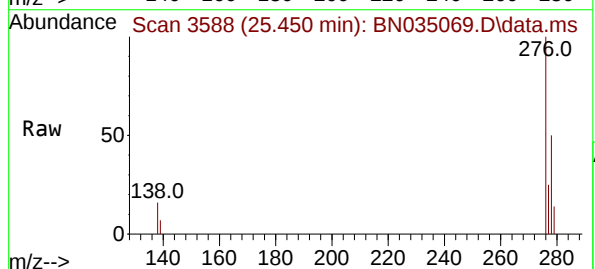
Tgt Ion:264 Resp: 15724
Ion Ratio Lower Upper
264 100
260 25.8 20.9 31.3
265 47.4 35.4 53.2

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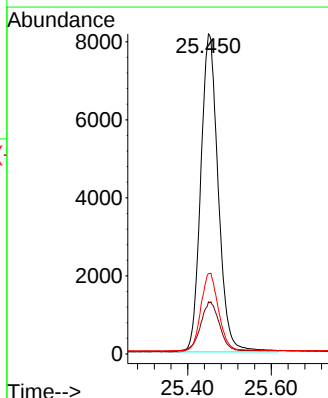
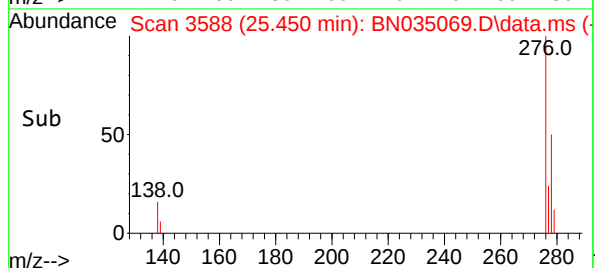
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

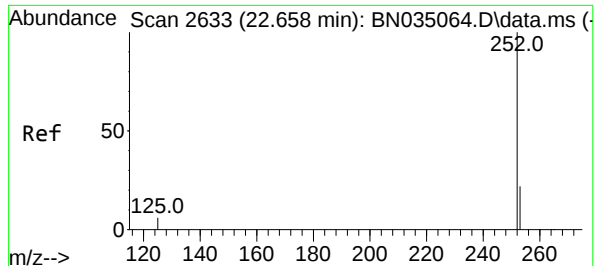


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.375 ng
RT: 25.450 min Scan# 3588
Delta R.T. -0.003 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51



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

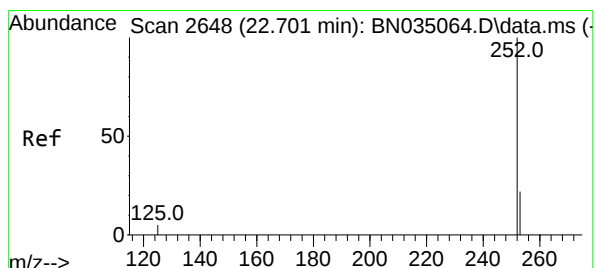
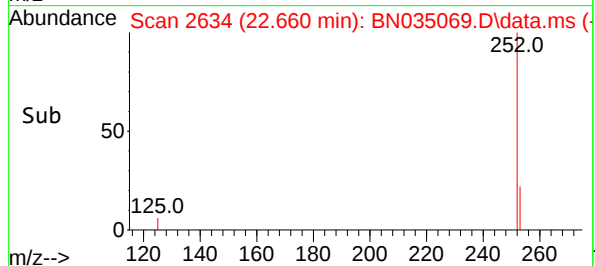
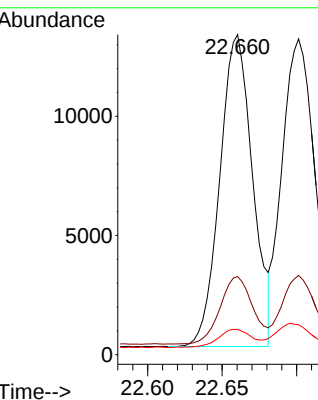
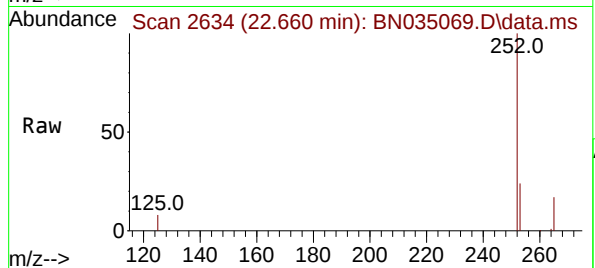
125 7.9 6.2 9.2

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

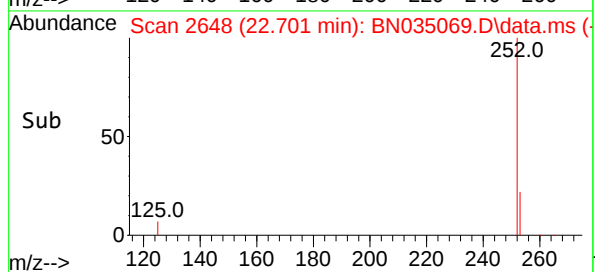
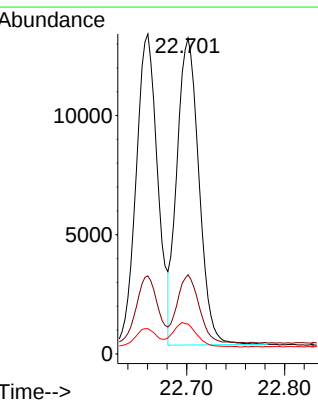
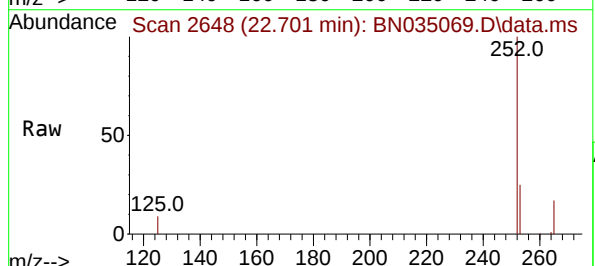
Tgt Ion:252 Resp: 20114

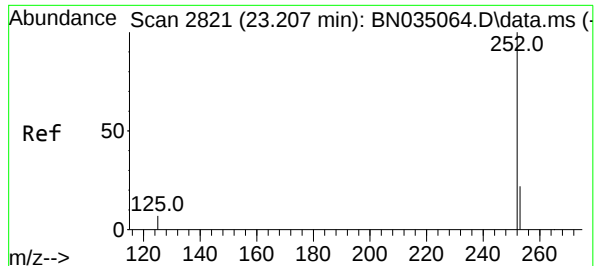
Ion Ratio Lower Upper

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

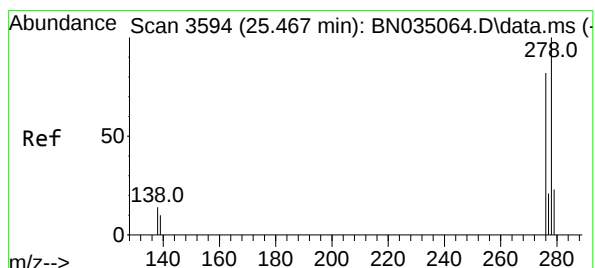
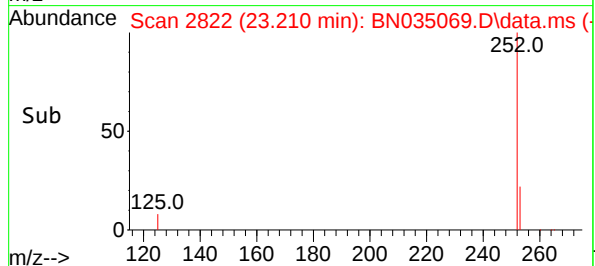
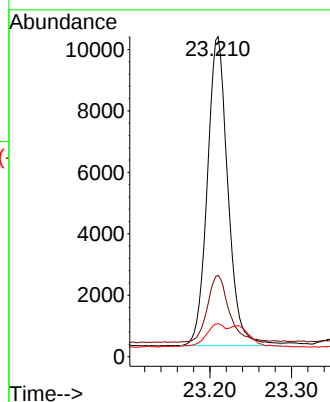
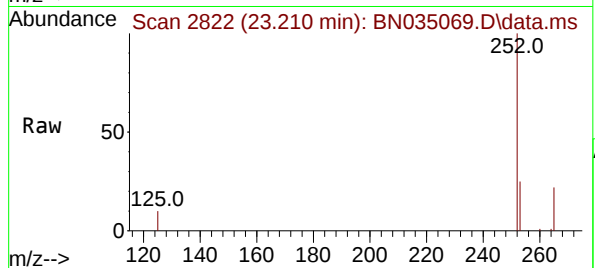
Instrument :

BNA_N

ClientSampleId :

ICVBN11324

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

#40

Dibenzo(a,h)anthracene

Concen: 0.373 ng

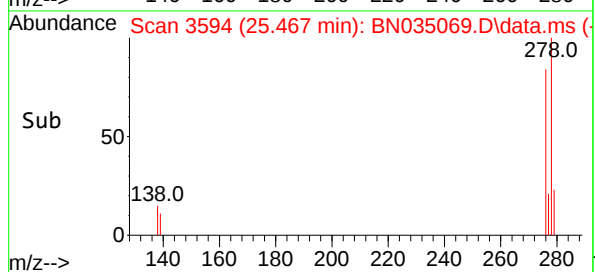
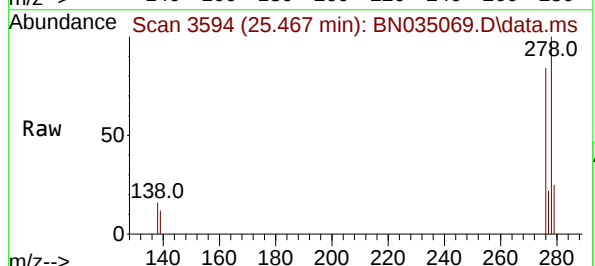
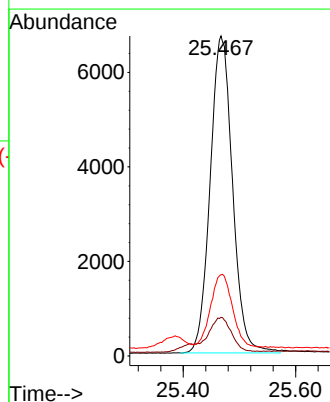
RT: 25.467 min Scan# 3594

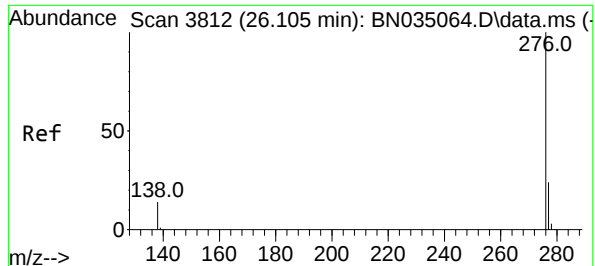
Delta R.T. -0.000 min

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

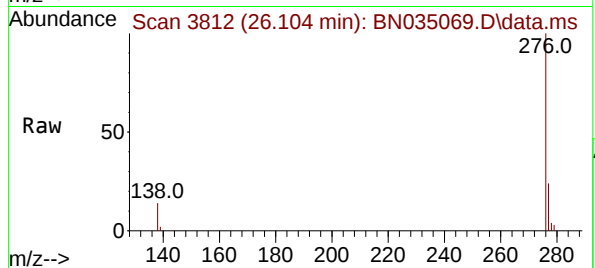
Acq: 13 Nov 2024 16:51

Instrument :

BNA_N

ClientSampleId :

ICVBN111324



Tgt Ion:276 Resp: 19649

Ion Ratio Lower Upper

276 100

277 24.2 19.9 29.9

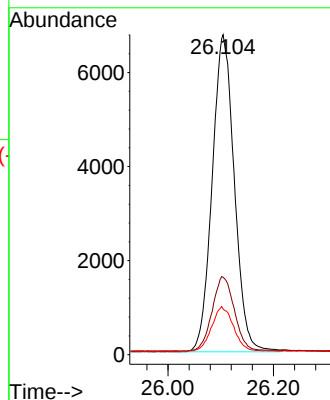
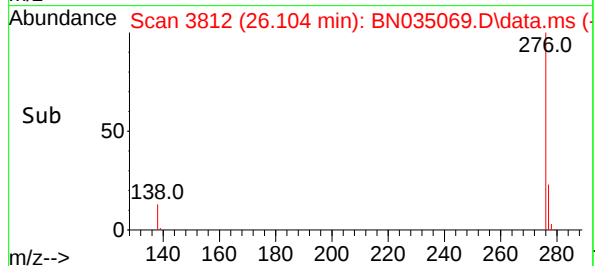
138 14.3 11.6 17.4

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



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG No.: P4495

Instrument ID: BNA_N Calibration Date/Time: 11/14/2024 10:12

Lab File ID: BN035082.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	0.656		-8.0	20.0
Fluoranthene-d10	1.225	1.132		-7.6	20.0
2-Fluorophenol	1.015	0.916		-9.8	20.0
Phenol-d6	1.273	1.184		-7.0	20.0
Nitrobenzene-d5	0.348	0.308		-11.5	20.0
Naphthalene	1.044	0.964		-7.7	20.0
2-Methylnaphthalene	0.770	0.709		-7.9	20.0
2-Fluorobiphenyl	1.624	1.452		-10.6	20.0
Acenaphthylene	1.709	1.480		-13.4	20.0
Acenaphthene	1.120	0.995		-11.2	20.0
Fluorene	1.648	1.459		-11.5	20.0
2,4,6-Tribromophenol	0.289	0.230		-20.4	20.0
Phenanthrene	1.053	1.000		-5.0	20.0
Anthracene	0.967	0.893		-7.7	20.0
Fluoranthene	1.448	1.348		-6.9	20.0
Pyrene	1.332	1.312		-1.5	20.0
Terphenyl-d14	0.839	0.812		-3.2	20.0
Benzo(a)anthracene	1.393	1.316		-5.5	20.0
Chrysene	1.380	1.342		-2.8	20.0
Benzo(b)fluoranthene	1.346	1.294		-3.9	20.0
Benzo(k)fluoranthene	1.347	1.354		0.5	20.0
Benzo(a)pyrene	1.184	1.122		-5.2	20.0
Indeno(1,2,3-cd)pyrene	1.596	1.484		-7.0	20.0
Dibenzo(a,h)anthracene	1.264	1.174		-7.1	20.0
Benzo(g,h,i)perylene	1.345	1.208		-10.2	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111424\
 Data File : BN035082.D
 Acq On : 14 Nov 2024 10:12
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Nov 14 11:23:30 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

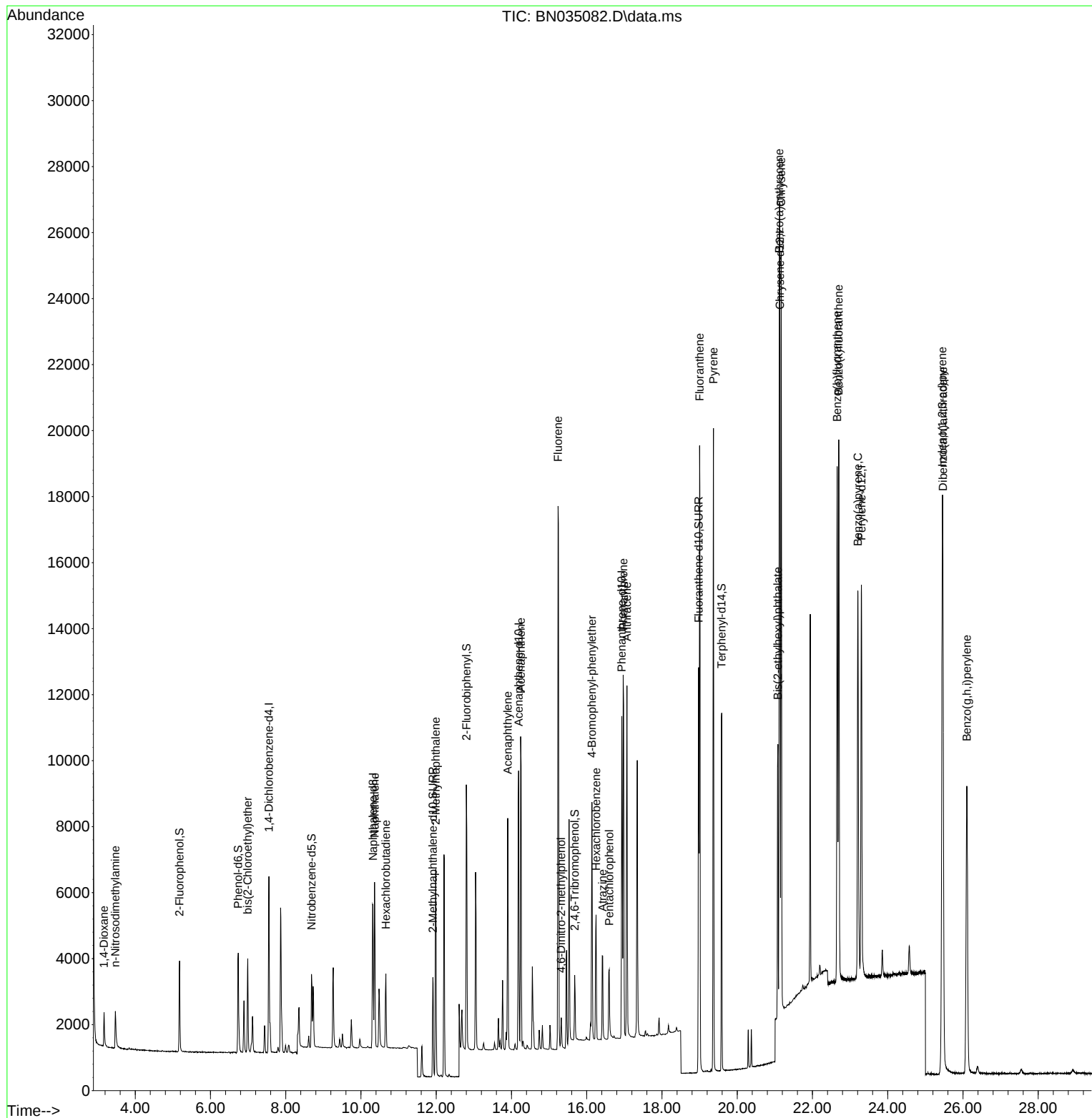
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.553	152	2551	0.400	ng	0.00
7) Naphthalene-d8	10.319	136	6362	0.400	ng	0.00
13) Acenaphthene-d10	14.190	164	5037	0.400	ng	0.00
19) Phenanthrene-d10	16.933	188	12802	0.400	ng	# 0.00
29) Chrysene-d12	21.134	240	13485	0.400	ng	# 0.00
35) Perylene-d12	23.300	264	14730	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	2337	0.361	ng	0.00
5) Phenol-d6	6.737	99	3021	0.372	ng	0.00
8) Nitrobenzene-d5	8.685	82	1962	0.354	ng	-0.01
11) 2-Methylnaphthalene-d10	11.912	152	4174	0.368	ng	0.00
14) 2,4,6-Tribromophenol	15.679	330	1156	0.318	ng	0.00
15) 2-Fluorobiphenyl	12.800	172	7315	0.358	ng	0.00
27) Fluoranthene-d10	18.973	212	14490	0.369	ng	0.00
31) Terphenyl-d14	19.587	244	10949	0.387	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.169	88	904	0.390	ng	95
3) n-Nitrosodimethylamine	3.473	42	764	0.354	ng	# 91
6) bis(2-Chloroethyl)ether	6.990	93	2254	0.370	ng	100
9) Naphthalene	10.362	128	6136	0.369	ng	100
10) Hexachlorobutadiene	10.661	225	1828	0.375	ng	# 98
12) 2-Methylnaphthalene	11.988	142	4509	0.368	ng	100
16) Acenaphthylene	13.901	152	7457	0.346	ng	99
17) Acenaphthene	14.244	154	5010	0.355	ng	99
18) Fluorene	15.238	166	7349	0.354	ng	100
20) 4,6-Dinitro-2-methylph...	15.323	198	901	0.338	ng	# 87
21) 4-Bromophenyl-phenylether	16.138	248	3068	0.376	ng	# 87
22) Hexachlorobenzene	16.250	284	3196	0.378	ng	99
23) Atrazine	16.424	200	2496	0.341	ng	# 94
24) Pentachlorophenol	16.597	266	1334	0.337	ng	99
25) Phenanthrene	16.970	178	12799	0.380	ng	100
26) Anthracene	17.069	178	11435	0.370	ng	99
28) Fluoranthene	19.001	202	17255	0.372	ng	100
30) Pyrene	19.368	202	17691	0.394	ng	100
32) Benzo(a)anthracene	21.116	228	17743	0.378	ng	99
33) Chrysene	21.169	228	18097	0.389	ng	98
34) Bis(2-ethylhexyl)phtha...	21.080	149	7841	0.318	ng	100
36) Indeno(1,2,3-cd)pyrene	25.452	276	21866	0.372	ng	99
37) Benzo(b)fluoranthene	22.657	252	19067	0.385	ng	100
38) Benzo(k)fluoranthene	22.698	252	19945	0.402	ng	99
39) Benzo(a)pyrene	23.206	252	16523	0.379	ng	100
40) Dibenzo(a,h)anthracene	25.466	278	17299	0.372	ng	98
41) Benzo(g,h,i)perylene	26.101	276	17799	0.359	ng	99

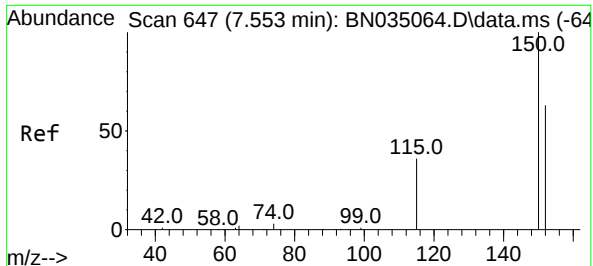
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111424\
 Data File : BN035082.D
 Acq On : 14 Nov 2024 10:12
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Nov 14 11:23:30 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

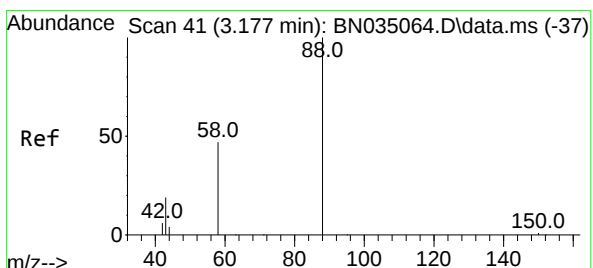
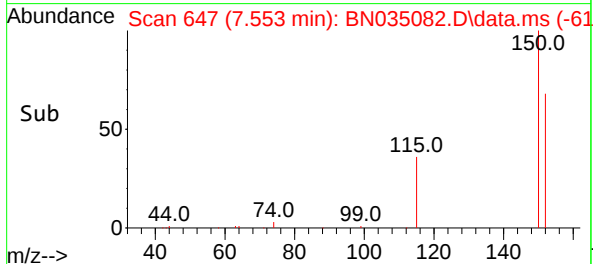
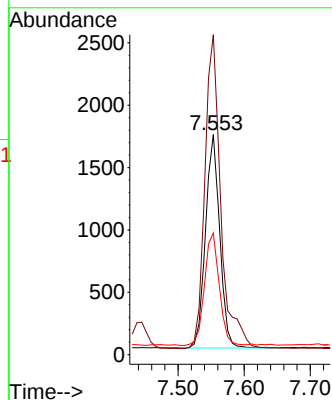
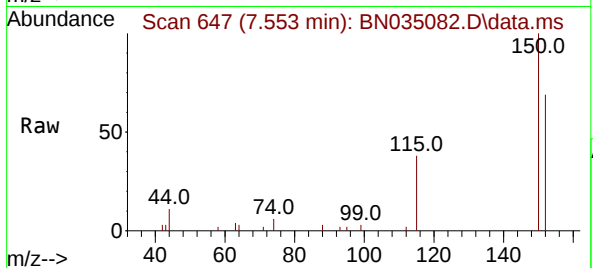




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.553 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

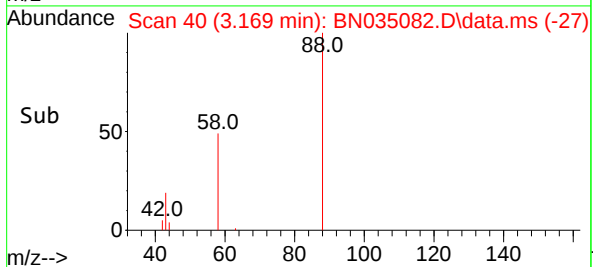
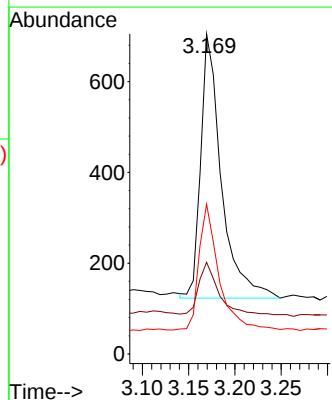
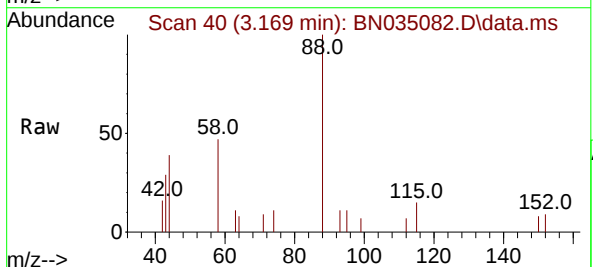
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

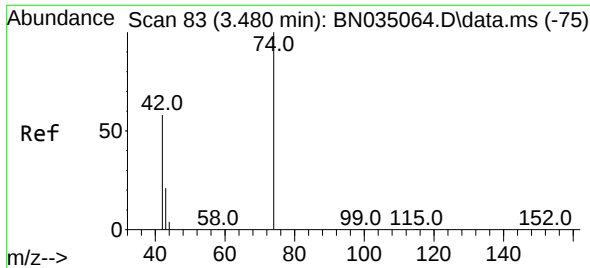
Tgt Ion:152 Resp: 2551
Ion Ratio Lower Upper
152 100
150 145.3 124.5 186.7
115 55.3 47.8 71.6



#2
1,4-Dioxane
Concen: 0.390 ng
RT: 3.169 min Scan# 40
Delta R.T. -0.007 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Tgt Ion: 88 Resp: 904
Ion Ratio Lower Upper
88 100
43 18.6 16.9 25.3
58 45.7 39.0 58.4

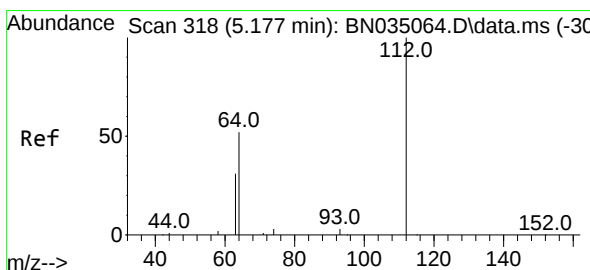
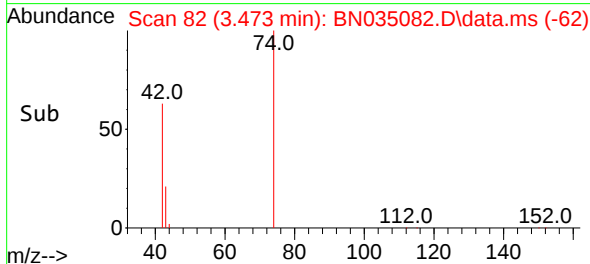
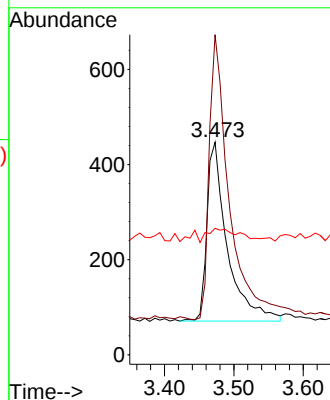
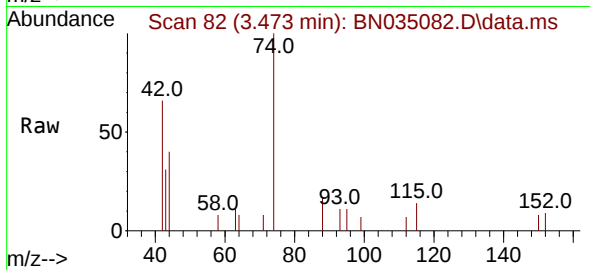




#3
n-Nitrosodimethylamine
Concen: 0.354 ng
RT: 3.473 min Scan# 81
Delta R.T. -0.007 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

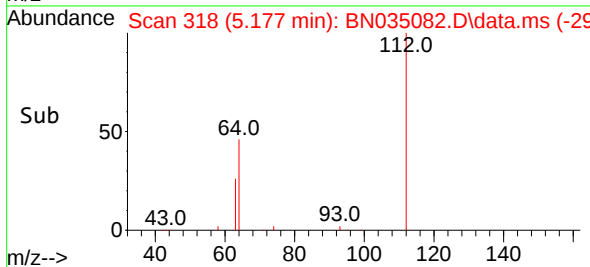
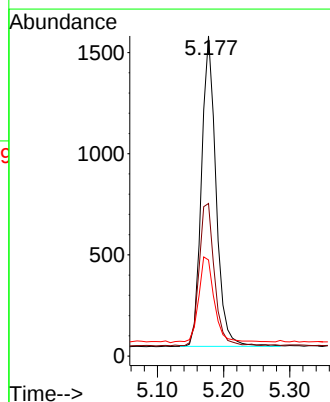
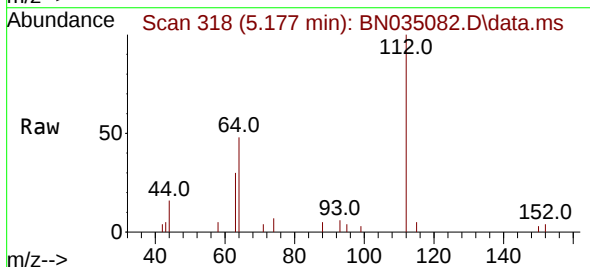
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

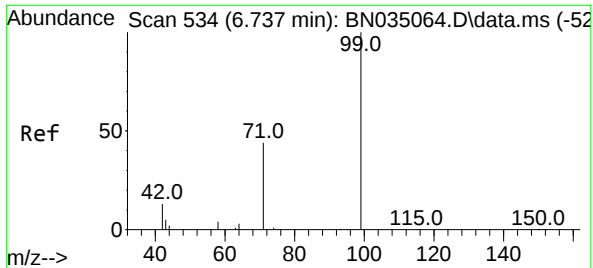
Tgt Ion: 42 Resp: 764
Ion Ratio Lower Upper
42 100
74 162.4 120.8 181.2
44 12.7 2.9 4.3#



#4
2-Fluorophenol
Concen: 0.361 ng
RT: 5.177 min Scan# 318
Delta R.T. -0.000 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Tgt Ion: 112 Resp: 2337
Ion Ratio Lower Upper
112 100
64 48.7 39.7 59.5
63 30.6 23.0 34.4

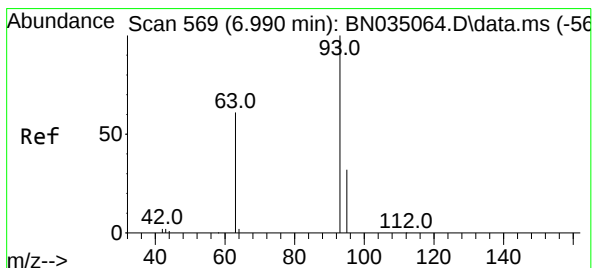
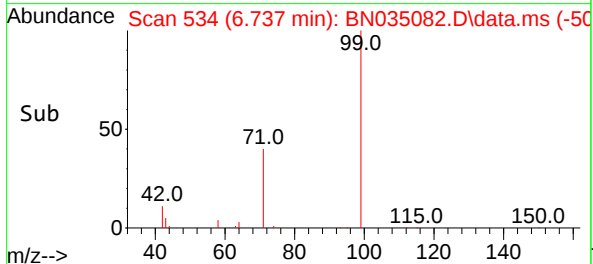
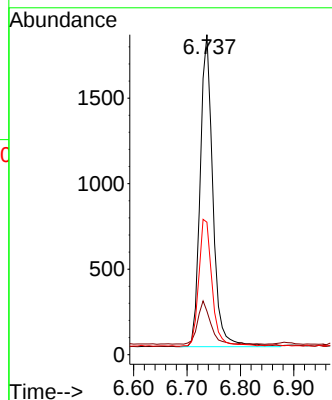
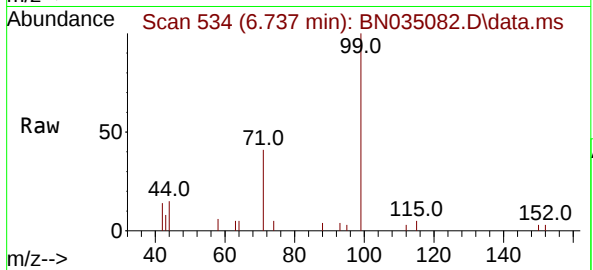




#5
Phenol-d6
Concen: 0.372 ng
RT: 6.737 min Scan# 511
Delta R.T. -0.000 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

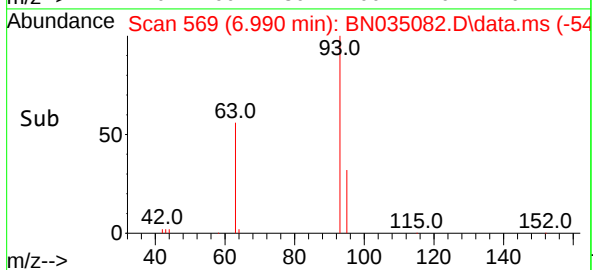
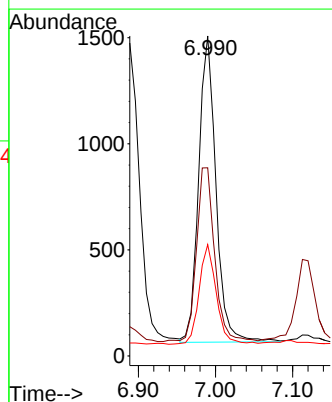
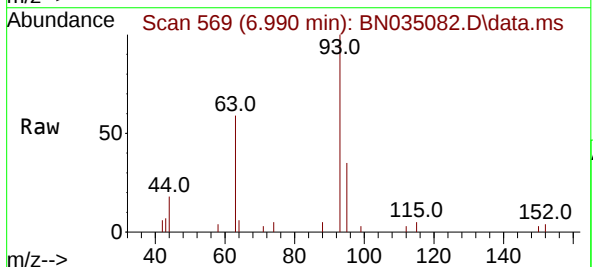
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

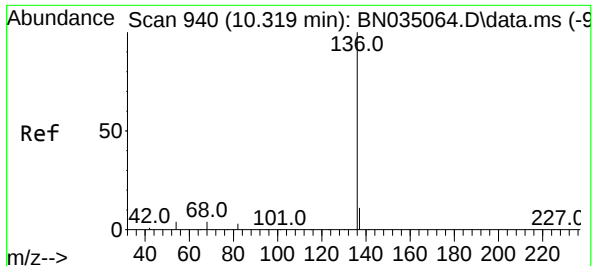
Tgt Ion: 99 Resp: 3021
Ion Ratio Lower Upper
99 100
42 13.5 11.4 17.0
71 42.6 34.6 51.8



#6
bis(2-Chloroethyl)ether
Concen: 0.370 ng
RT: 6.990 min Scan# 569
Delta R.T. -0.000 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Tgt Ion: 93 Resp: 2254
Ion Ratio Lower Upper
93 100
63 59.5 47.4 71.2
95 32.5 26.2 39.4

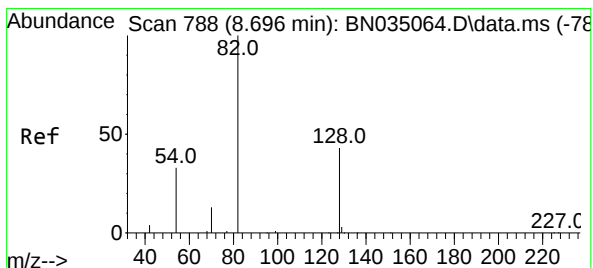
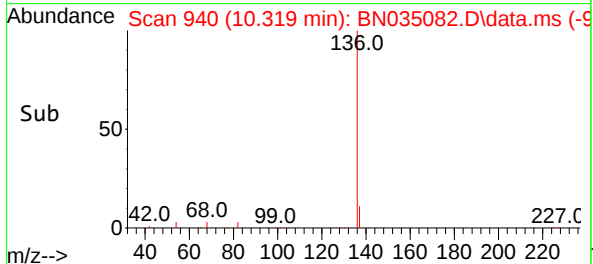
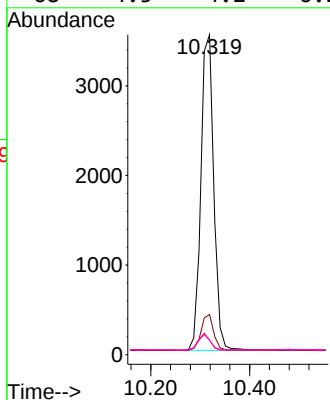
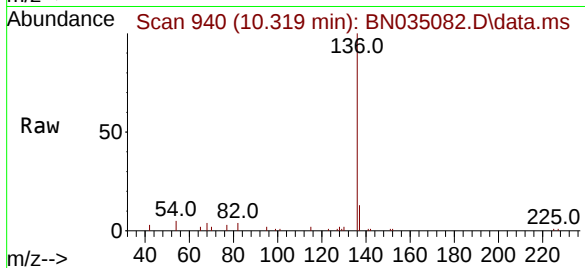




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.319 min Scan# 940
Delta R.T. -0.000 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

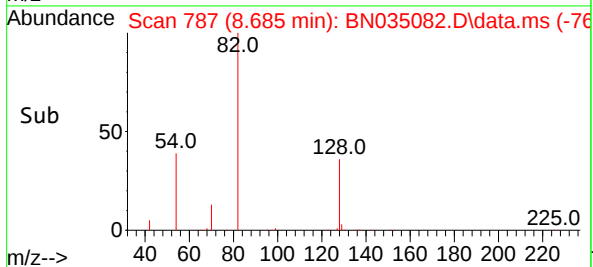
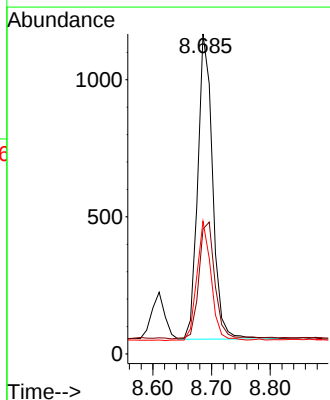
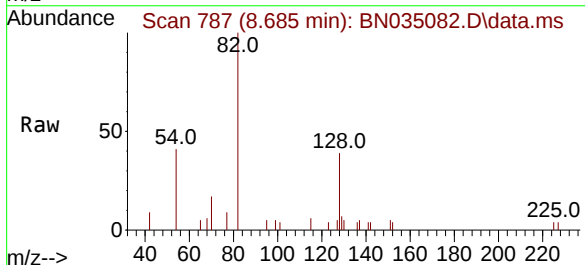
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

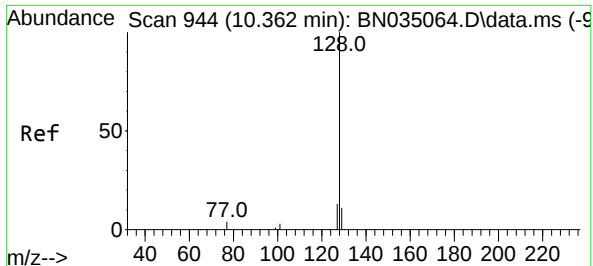
Tgt Ion:	136	Resp:	6362
Ion Ratio	Lower	Upper	
136	100		
137	12.5	9.8	14.8
54	4.6	4.0	6.0
68	4.5	4.2	6.2



#8
Nitrobenzene-d5
Concen: 0.354 ng
RT: 8.685 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Tgt Ion:	82	Resp:	1962
Ion Ratio	Lower	Upper	
82	100		
128	39.1	36.5	54.7
54	41.5	28.7	43.1

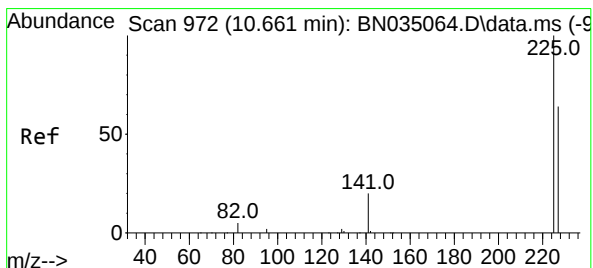
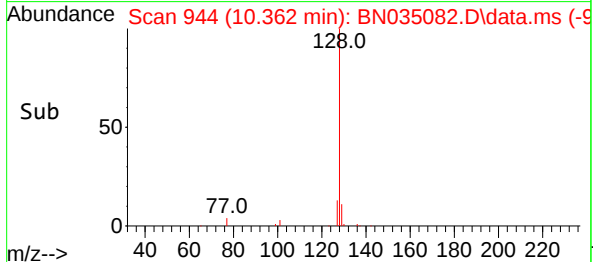
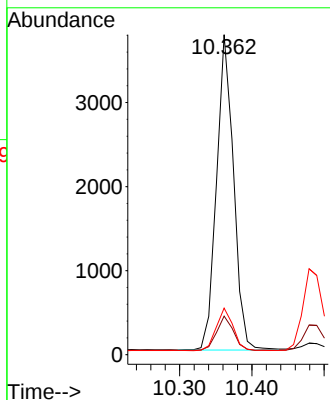
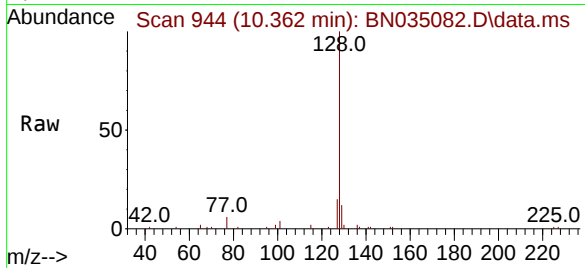




#9
Naphthalene
Concen: 0.369 ng
RT: 10.362 min Scan# 944
Delta R.T. -0.000 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

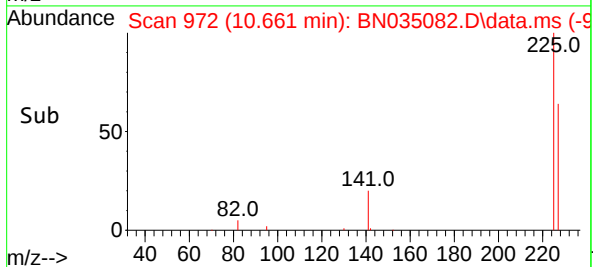
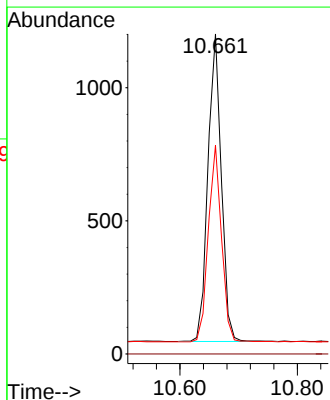
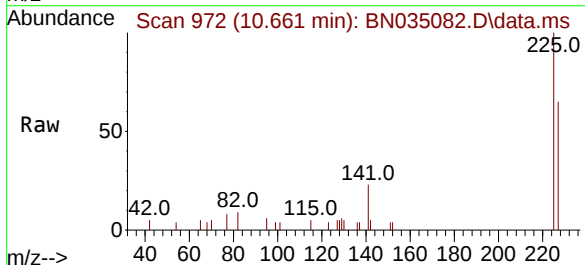
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

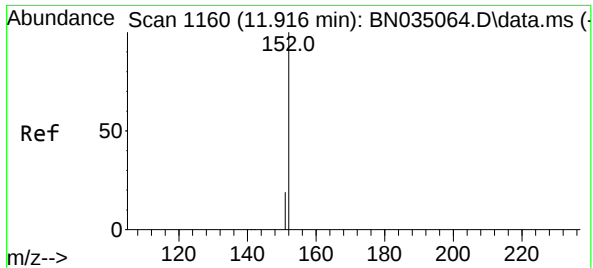
Tgt Ion:	128	Resp:	6136
Ion Ratio	Lower	Upper	
128	100		
129	12.1	9.6	14.4
127	14.6	11.6	17.4



#10
Hexachlorobutadiene
Concen: 0.375 ng
RT: 10.661 min Scan# 972
Delta R.T. -0.000 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Tgt Ion:	225	Resp:	1828
Ion Ratio	Lower	Upper	
225	100		
223	0.0	0.0	0.0
227	63.0	51.5	77.3

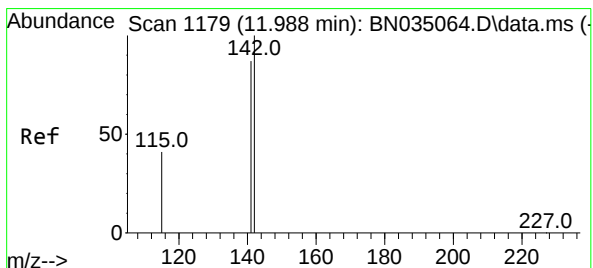
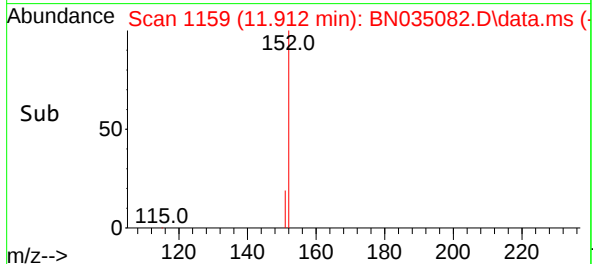
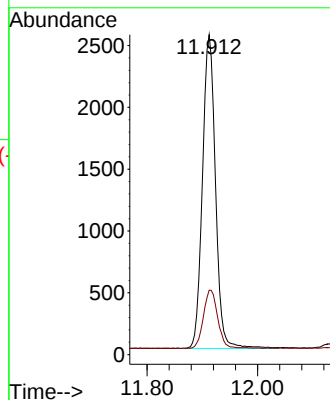
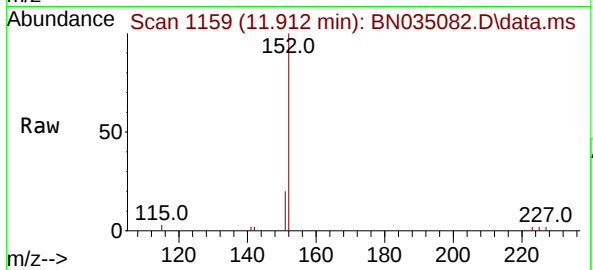




#11
2-Methylnaphthalene-d10
Concen: 0.368 ng
RT: 11.912 min Scan# 1159
Delta R.T. -0.004 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

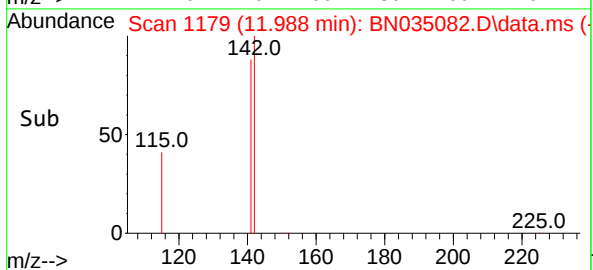
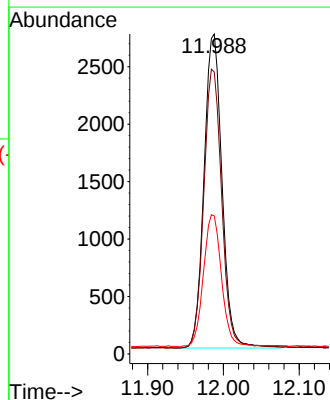
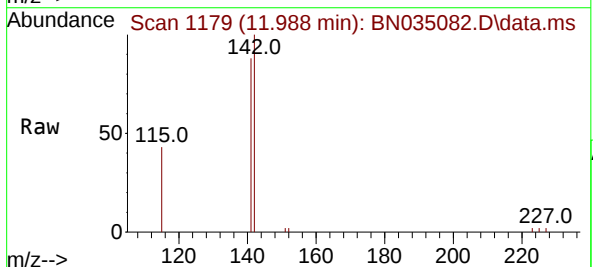
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

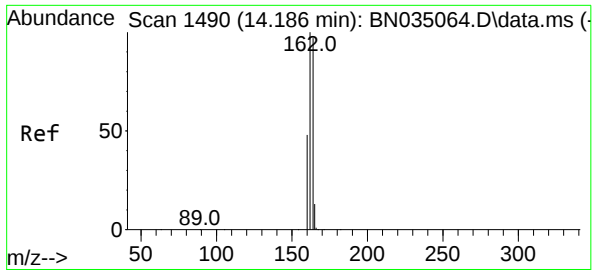
Tgt Ion:152 Resp: 4174
Ion Ratio Lower Upper
152 100
151 20.3 16.2 24.4



#12
2-Methylnaphthalene
Concen: 0.368 ng
RT: 11.988 min Scan# 1179
Delta R.T. -0.000 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Tgt Ion:142 Resp: 4509
Ion Ratio Lower Upper
142 100
141 88.1 70.1 105.1
115 43.2 34.4 51.6

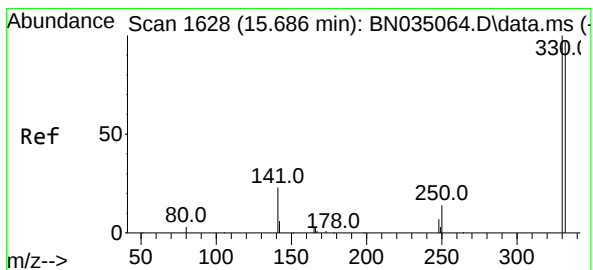
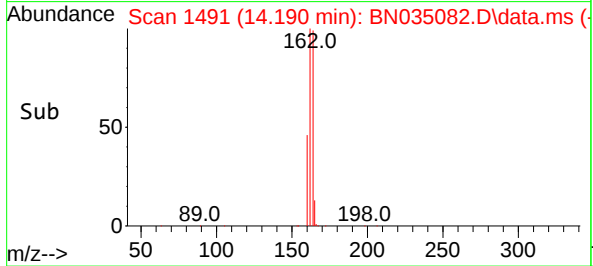
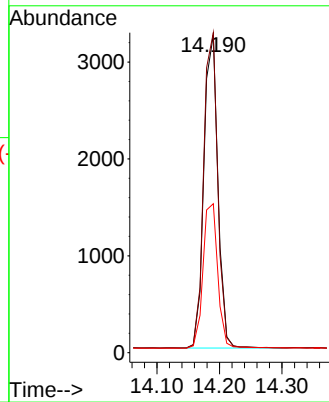
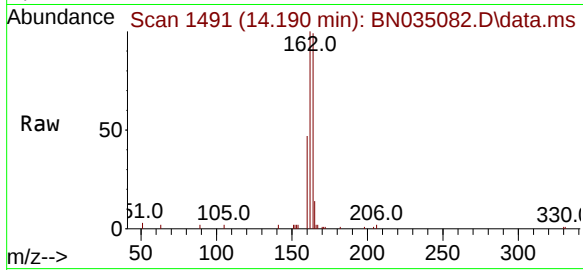




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.190 min Scan# 1491
Delta R.T. 0.004 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

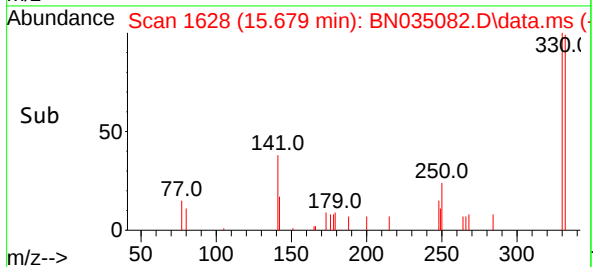
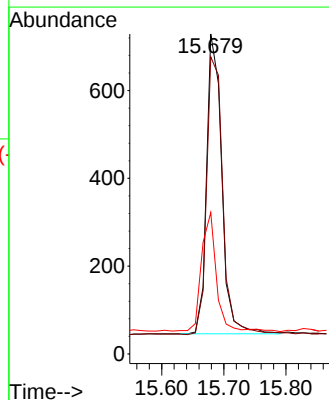
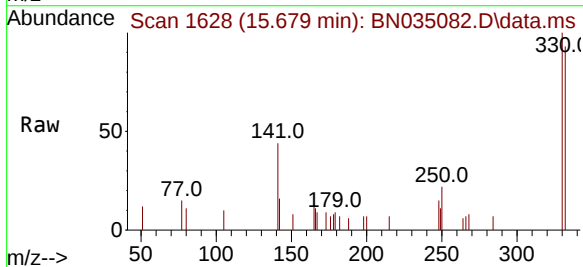
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

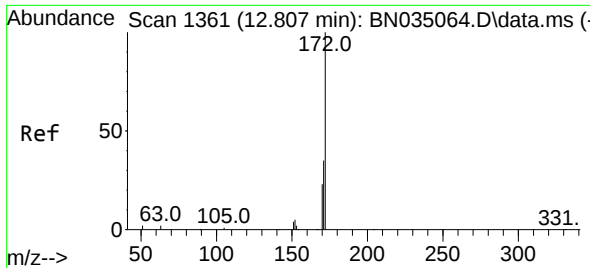
Tgt Ion:164 Resp: 5037
Ion Ratio Lower Upper
164 100
162 100.8 82.2 123.2
160 46.9 40.2 60.4



#14
2,4,6-Tribromophenol
Concen: 0.318 ng
RT: 15.679 min Scan# 1628
Delta R.T. -0.007 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Tgt Ion:330 Resp: 1156
Ion Ratio Lower Upper
330 100
332 100.0 76.9 115.3
141 39.4 29.6 44.4

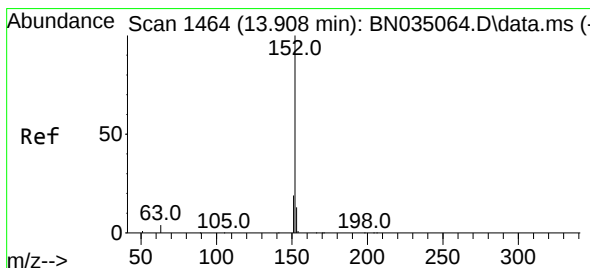
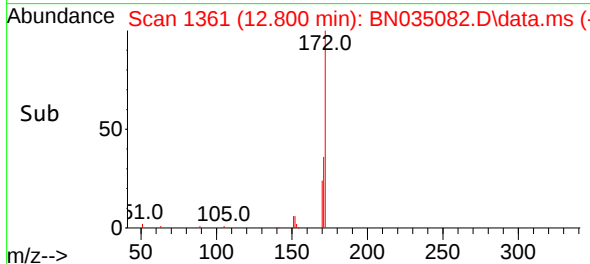
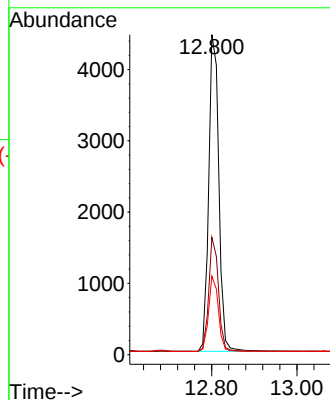
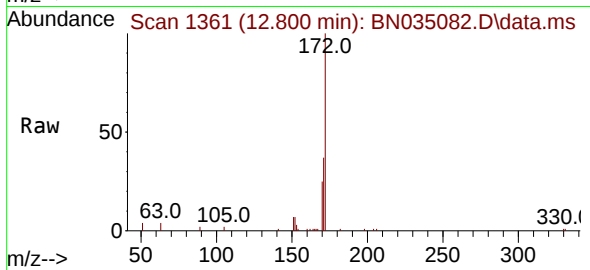




#15
2-Fluorobiphenyl
Concen: 0.358 ng
RT: 12.800 min Scan# 1361
Delta R.T. -0.007 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

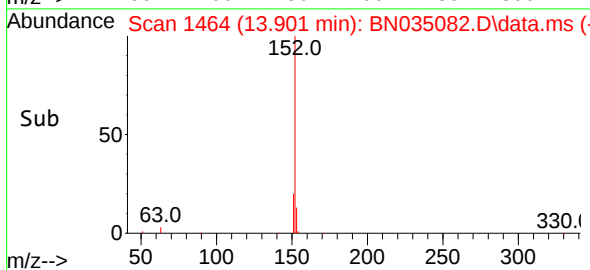
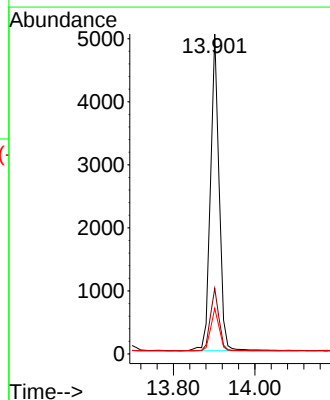
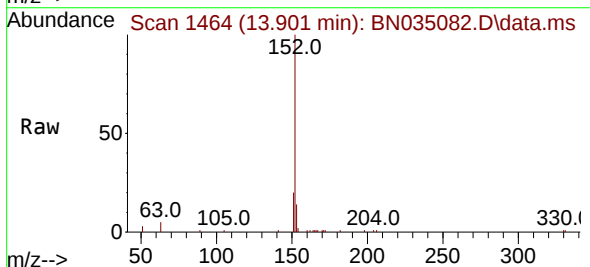
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

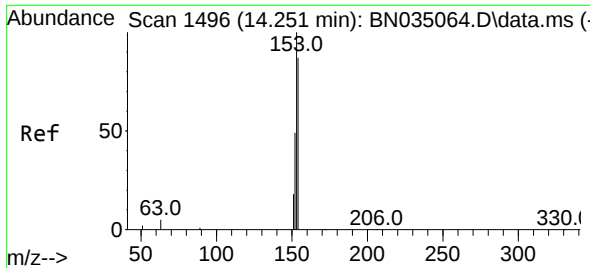
Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.6	28.2	42.4
170	24.5	19.0	28.6



#16
Acenaphthylene
Concen: 0.346 ng
RT: 13.901 min Scan# 1464
Delta R.T. -0.007 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.7	15.8	23.8
153	13.6	10.2	15.4

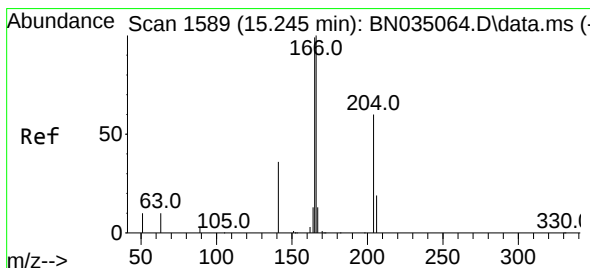
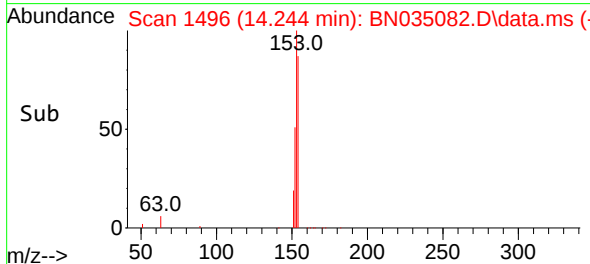
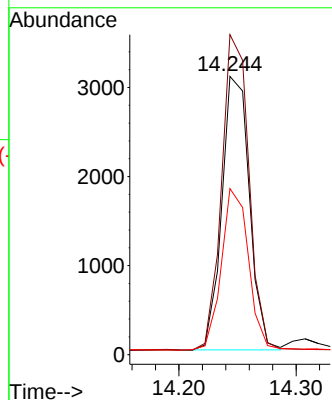
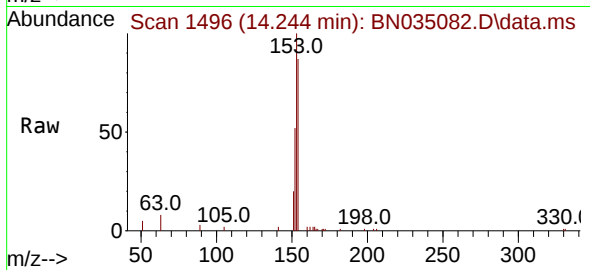




#17
Acenaphthene
Concen: 0.355 ng
RT: 14.244 min Scan# 1496
Delta R.T. -0.007 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

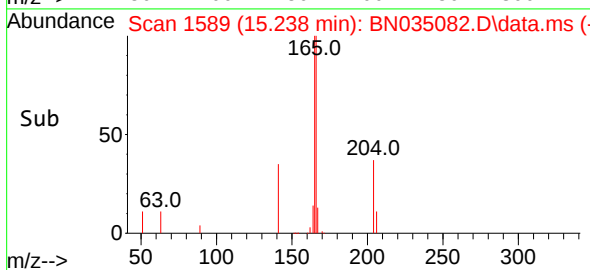
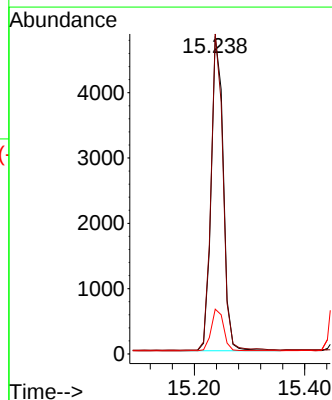
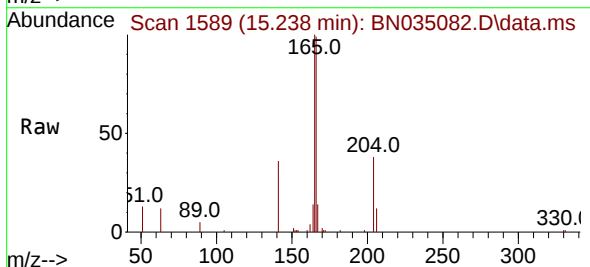
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

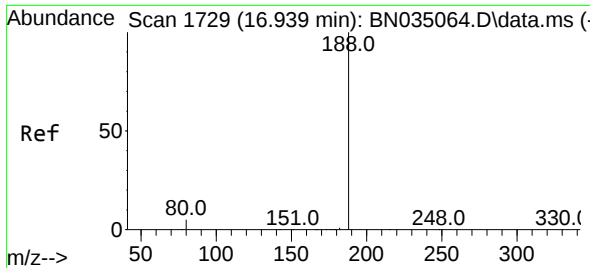
Tgt Ion:154 Resp: 5010
Ion Ratio Lower Upper
154 100
153 114.7 91.6 137.4
152 58.8 45.8 68.6



#18
Fluorene
Concen: 0.354 ng
RT: 15.238 min Scan# 1589
Delta R.T. -0.007 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Tgt Ion:166 Resp: 7349
Ion Ratio Lower Upper
166 100
165 98.7 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: BN035082.D

Acq: 14 Nov 2024 10:12

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

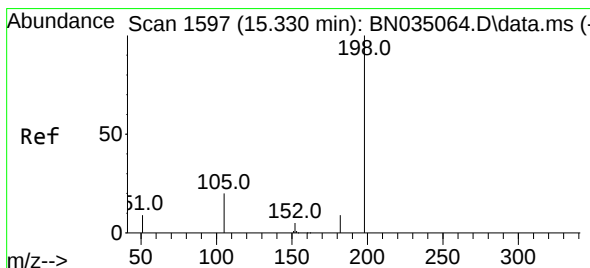
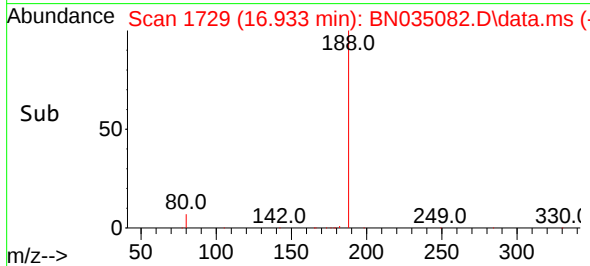
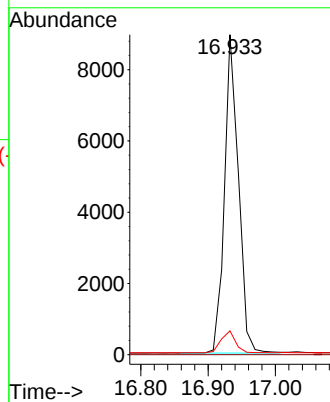
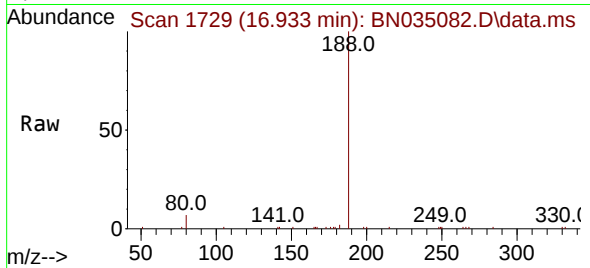
Tgt Ion:188 Resp: 12802

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 7.4 4.3 6.5#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.338 ng

RT: 15.323 min Scan# 1597

Delta R.T. -0.007 min

Lab File: BN035082.D

Acq: 14 Nov 2024 10:12

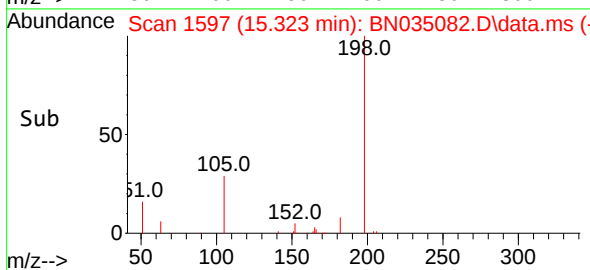
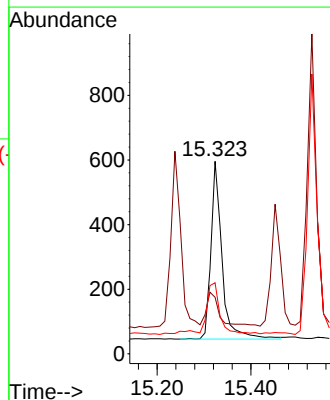
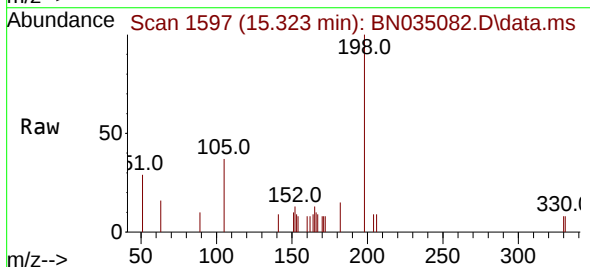
Tgt Ion:198 Resp: 901

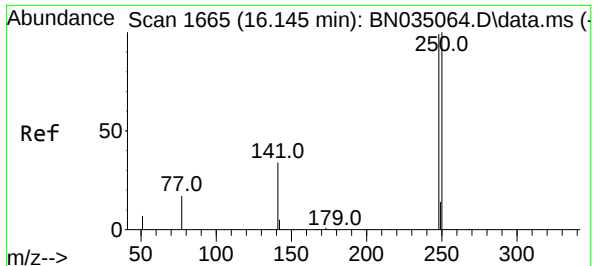
Ion Ratio Lower Upper

198 100

51 29.4 29.9 44.9#

105 36.9 23.7 35.5#

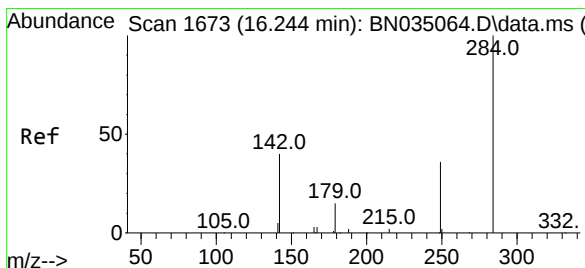
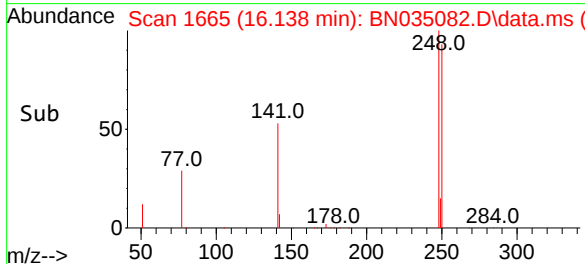
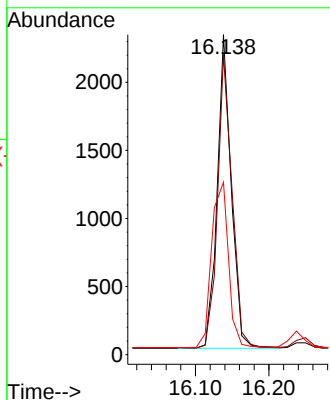
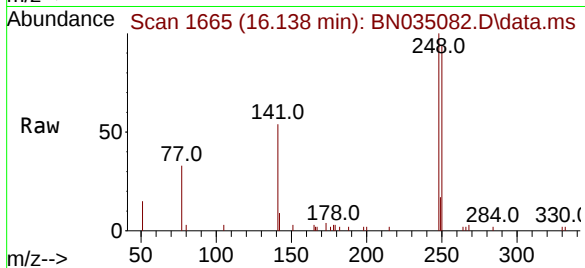




#21
4-Bromophenyl-phenylether
Concen: 0.376 ng
RT: 16.138 min Scan# 1665
Delta R.T. -0.007 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

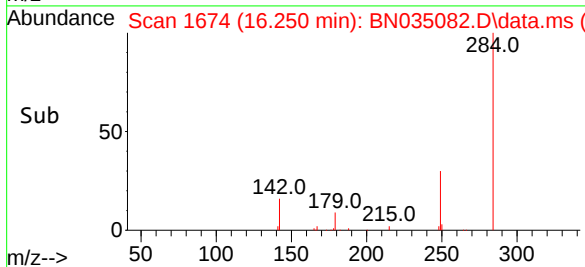
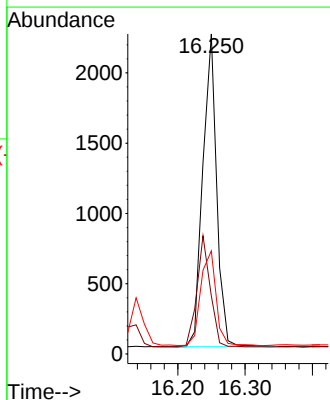
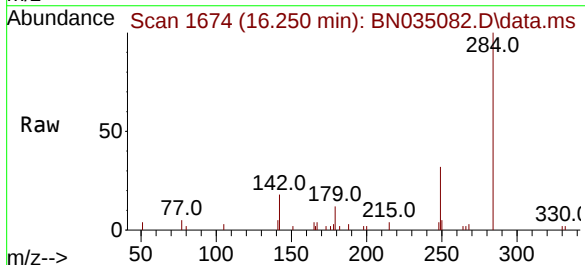
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

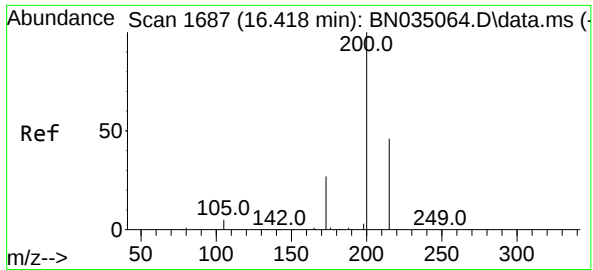
Tgt Ion	Ratio	Lower	Upper
248	100		
250	93.8	81.2	121.8
141	53.9	29.1	43.7



#22
Hexachlorobenzene
Concen: 0.378 ng
RT: 16.250 min Scan# 1674
Delta R.T. 0.005 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Tgt Ion	Ratio	Lower	Upper
284	100		
142	34.6	28.2	42.4
249	33.6	26.2	39.2

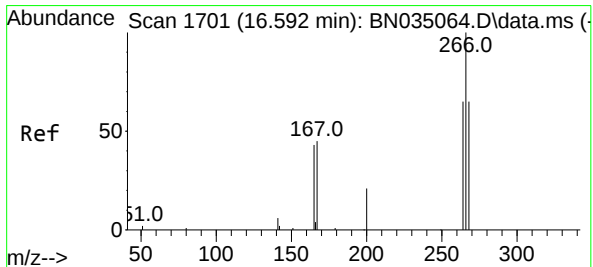
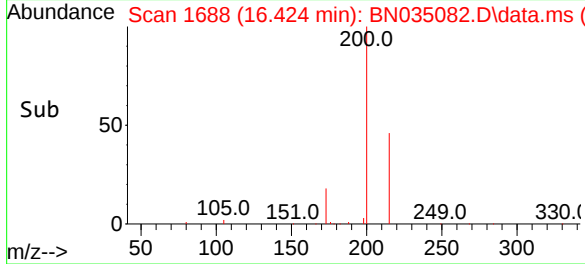
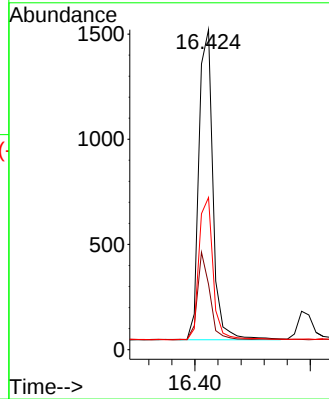
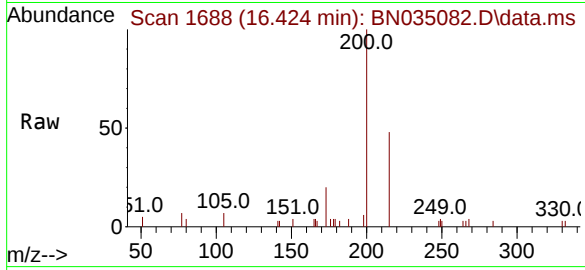




#23
Atrazine
Concen: 0.341 ng
RT: 16.424 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

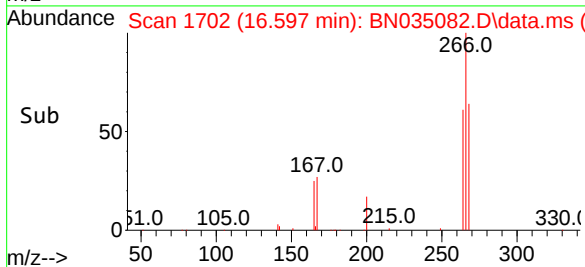
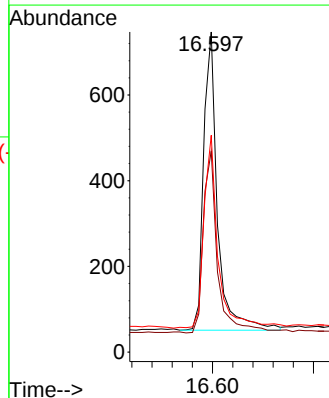
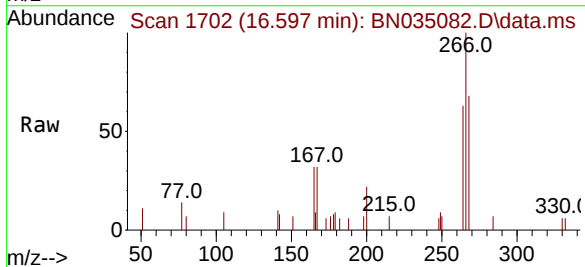
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

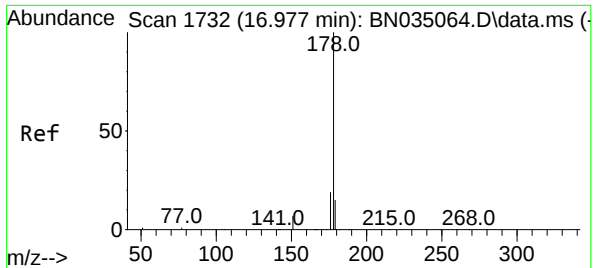
Tgt Ion:200 Resp: 2496
Ion Ratio Lower Upper
200 100
173 20.4 22.6 33.8#
215 47.5 37.8 56.6



#24
Pentachlorophenol
Concen: 0.337 ng
RT: 16.597 min Scan# 1702
Delta R.T. 0.005 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Tgt Ion:266 Resp: 1334
Ion Ratio Lower Upper
266 100
264 62.4 49.4 74.0
268 66.0 52.6 79.0

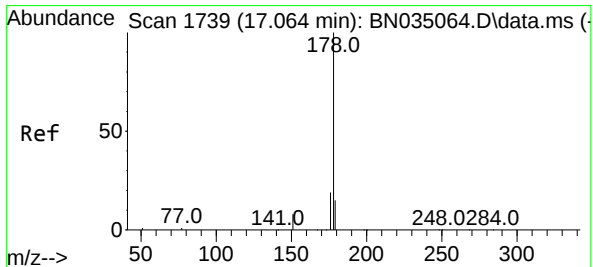
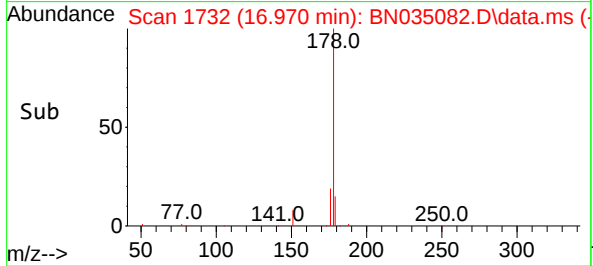
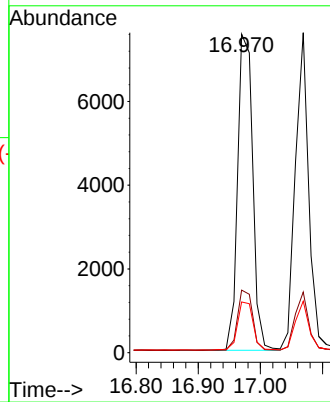
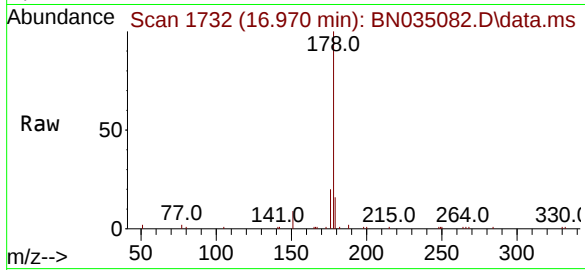




#25
Phenanthrene
Concen: 0.380 ng
RT: 16.970 min Scan# 1732
Delta R.T. -0.007 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

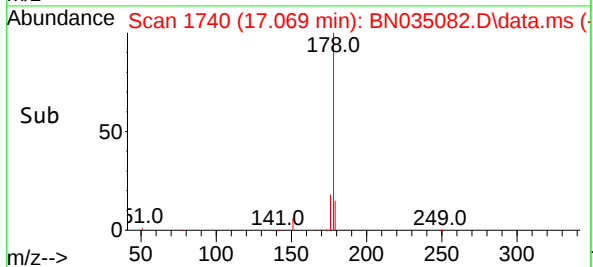
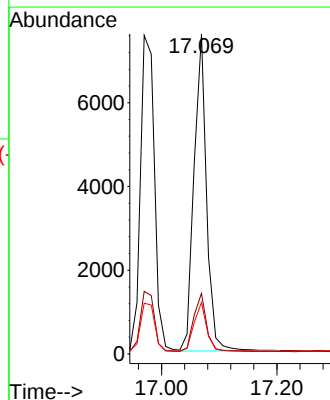
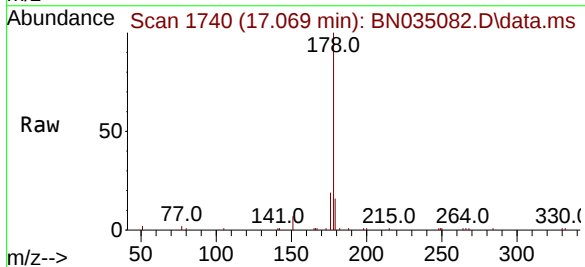
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

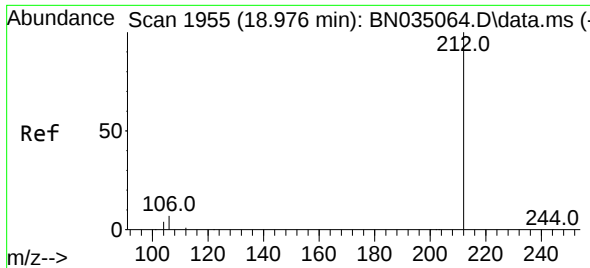
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.2	22.8
179	15.5	12.6	18.8



#26
Anthracene
Concen: 0.370 ng
RT: 17.069 min Scan# 1740
Delta R.T. 0.005 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.7	14.6	22.0
179	15.6	12.2	18.2

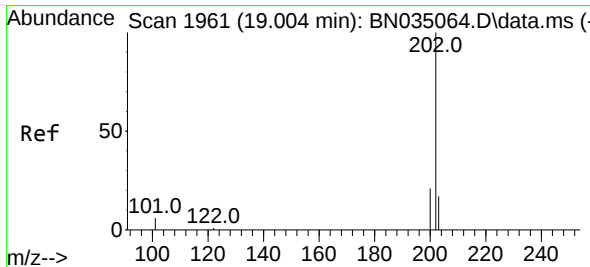
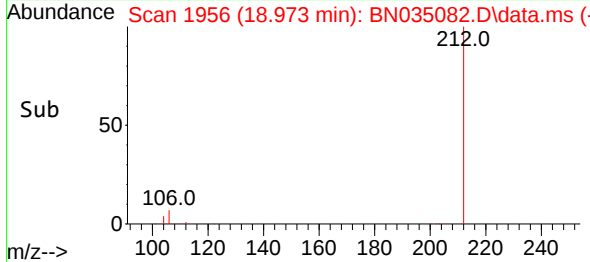
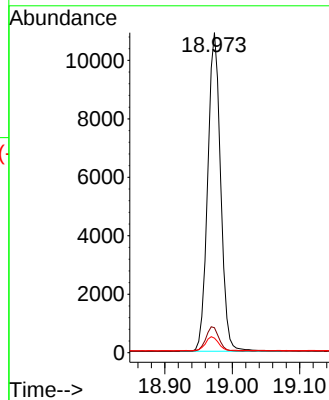
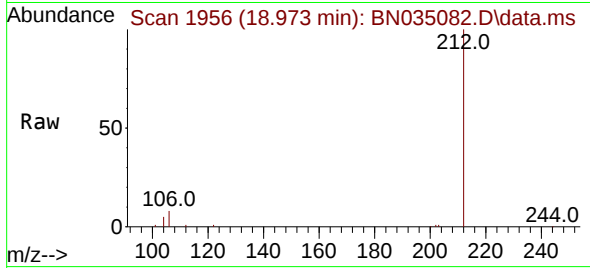




#27
Fluoranthene-d10
Concen: 0.369 ng
RT: 18.973 min Scan# 1955
Delta R.T. -0.002 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

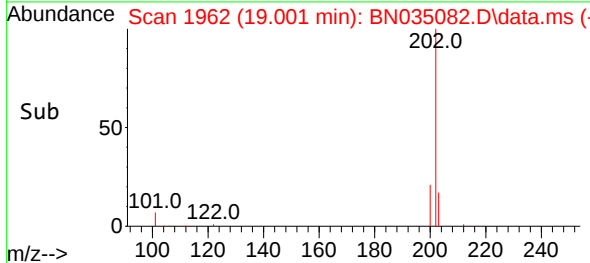
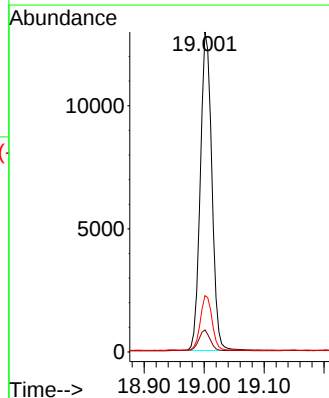
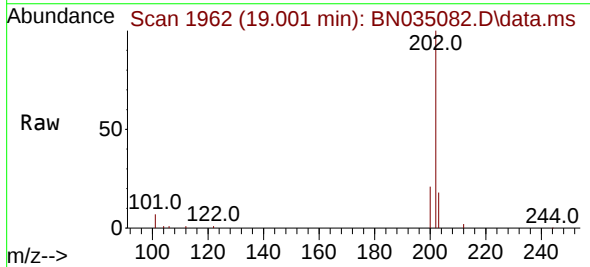
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

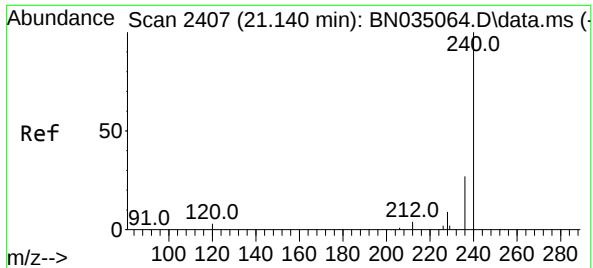
Tgt Ion	Ratio	Lower	Upper
212	100		
106	7.7	6.0	9.0
104	4.4	3.5	5.3



#28
Fluoranthene
Concen: 0.372 ng
RT: 19.001 min Scan# 1962
Delta R.T. -0.002 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Tgt Ion	Ratio	Lower	Upper
202	100		
101	6.5	5.2	7.8
203	17.2	13.8	20.8

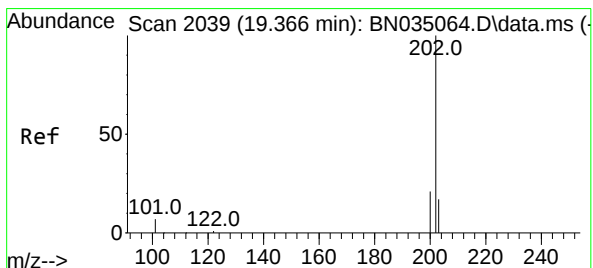
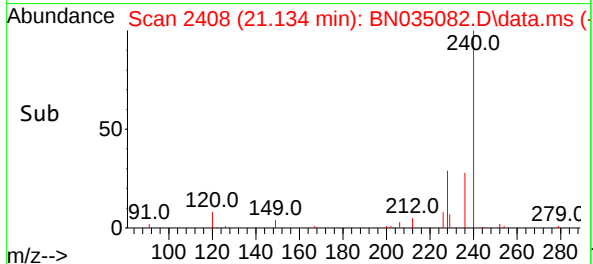
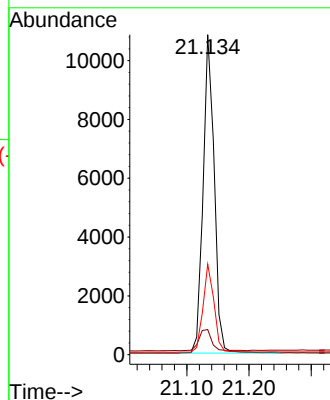
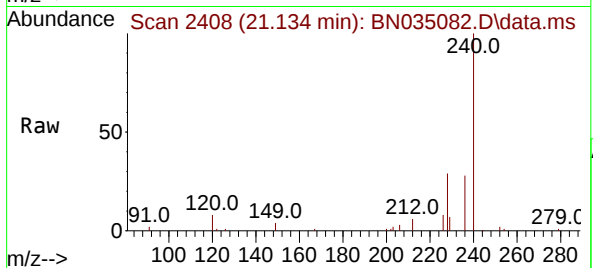




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.134 min Scan# 2408
Delta R.T. -0.007 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

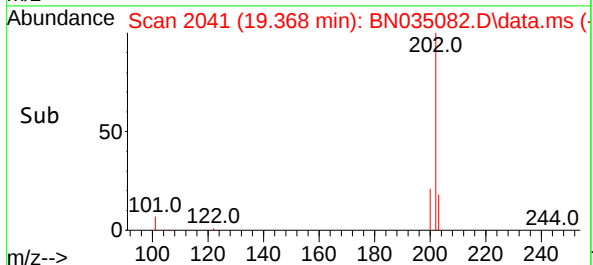
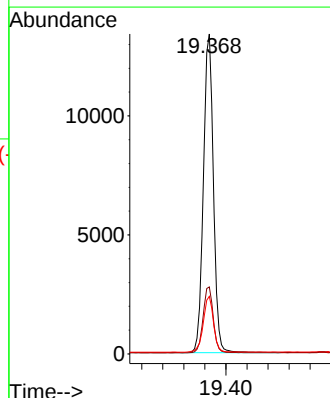
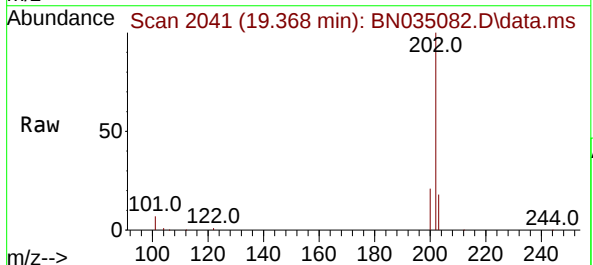
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

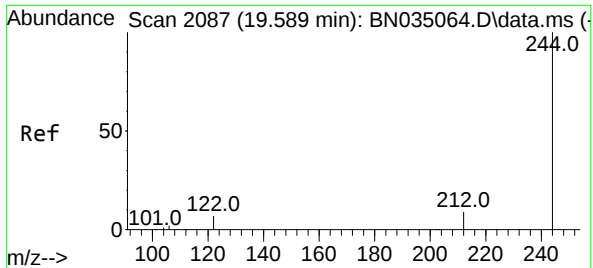
Tgt Ion:240 Resp: 13485
Ion Ratio Lower Upper
240 100
120 7.9 3.8 5.6#
236 28.3 22.2 33.2



#30
Pyrene
Concen: 0.394 ng
RT: 19.368 min Scan# 2041
Delta R.T. 0.002 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Tgt Ion:202 Resp: 17691
Ion Ratio Lower Upper
202 100
200 21.0 16.7 25.1
203 17.9 14.2 21.4

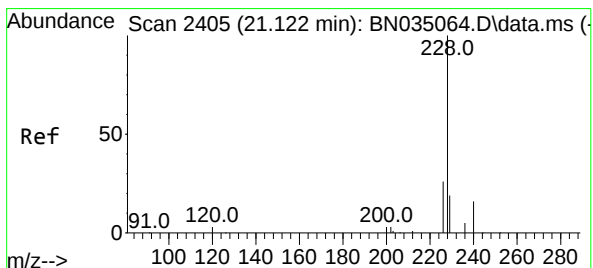
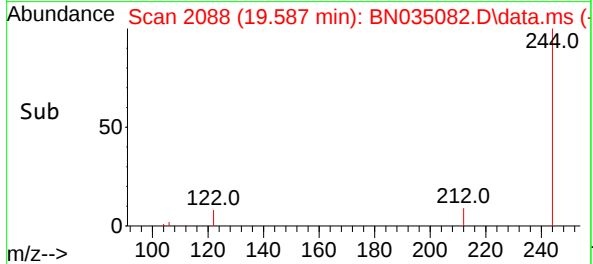
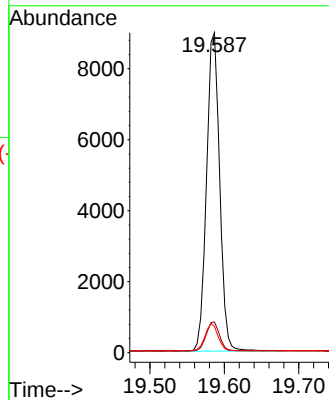
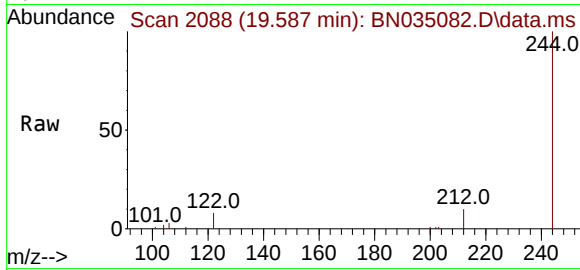




#31
Terphenyl-d14
Concen: 0.387 ng
RT: 19.587 min Scan# 2087
Delta R.T. -0.002 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

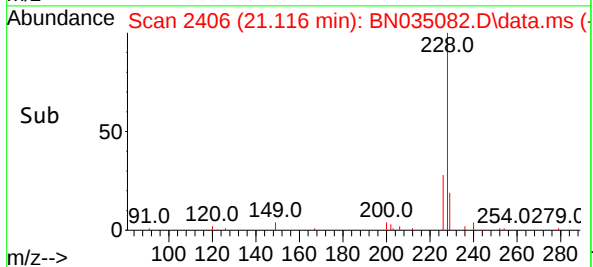
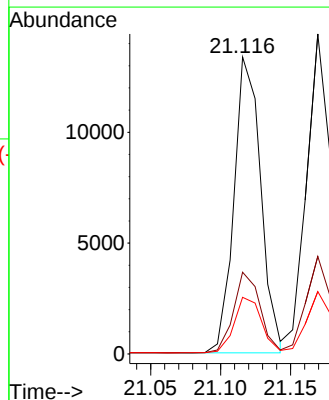
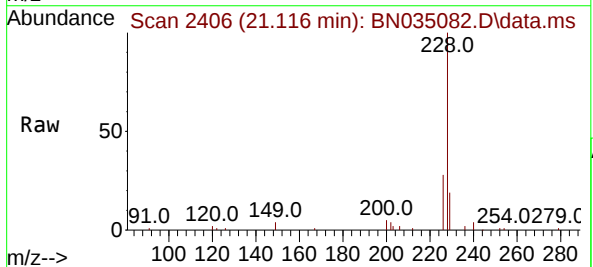
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

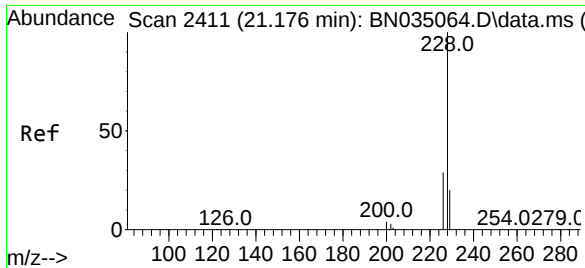
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.6	7.6	11.4
122	8.3	6.1	9.1



#32
Benzo(a)anthracene
Concen: 0.378 ng
RT: 21.116 min Scan# 2406
Delta R.T. -0.007 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.6	21.4	32.0
229	19.1	15.7	23.5





#33

Chrysene

Concen: 0.389 ng

RT: 21.169 min Scan# 2411

Delta R.T. -0.007 min

Lab File: BN035082.D

Acq: 14 Nov 2024 10:12

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

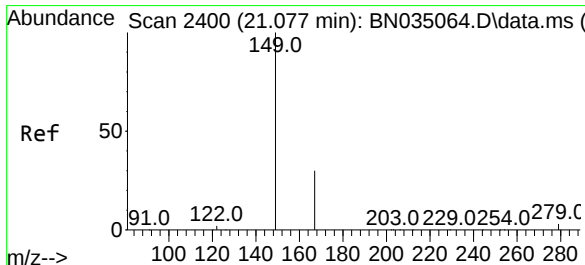
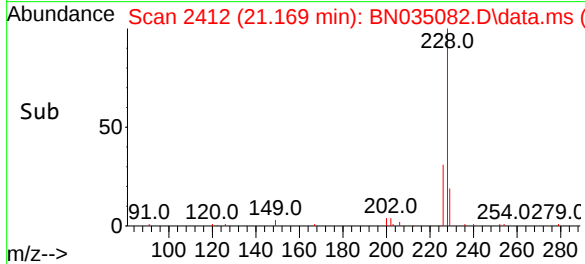
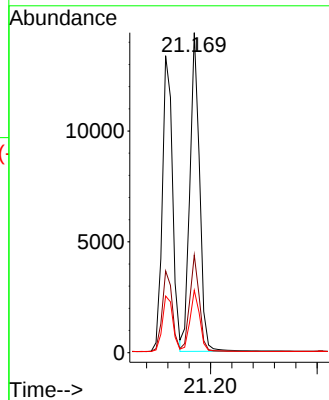
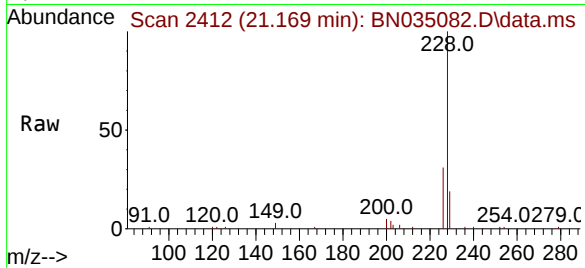
Tgt Ion:228 Resp: 18097

Ion Ratio Lower Upper

228 100

226 30.5 23.7 35.5

229 19.5 16.2 24.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.318 ng

RT: 21.080 min Scan# 2402

Delta R.T. 0.002 min

Lab File: BN035082.D

Acq: 14 Nov 2024 10:12

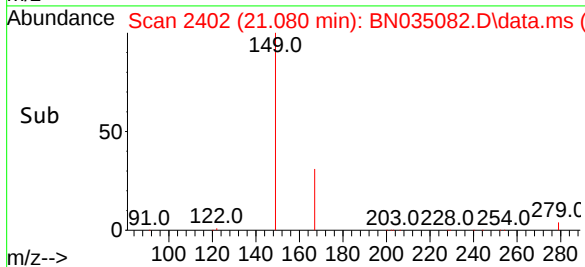
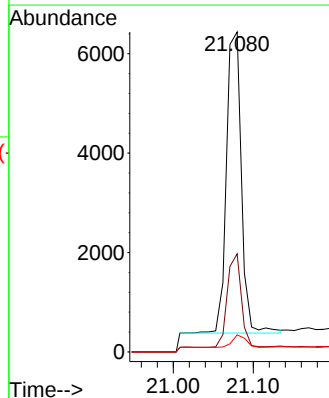
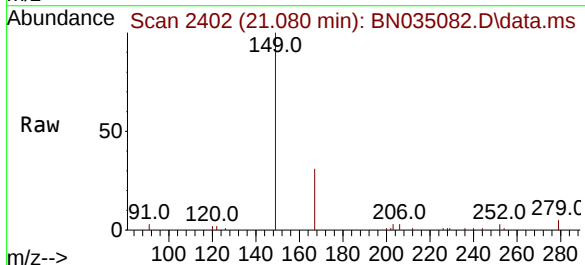
Tgt Ion:149 Resp: 7841

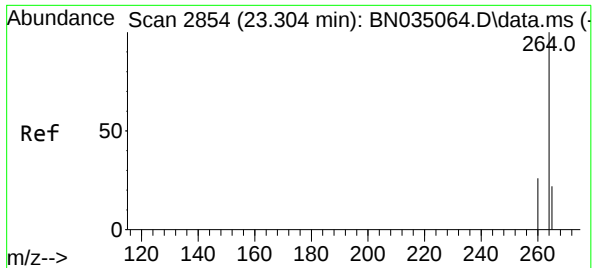
Ion Ratio Lower Upper

149 100

167 29.2 23.2 34.8

279 4.0 3.2 4.8

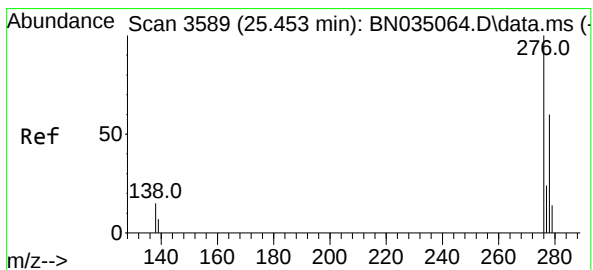
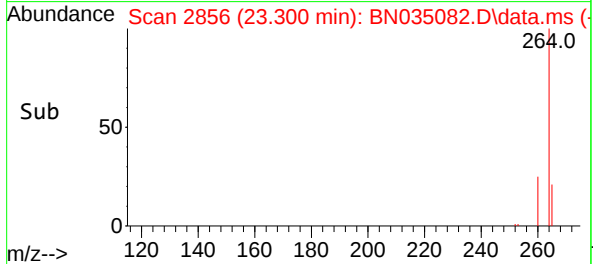
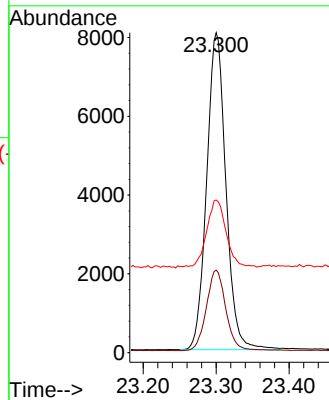
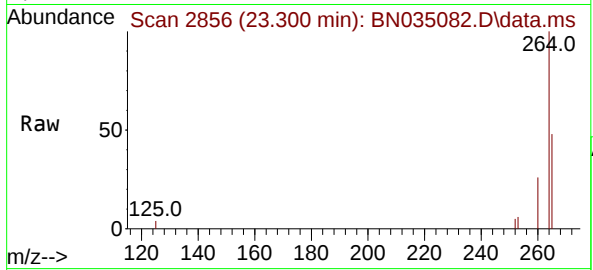




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.300 min Scan# 21
Delta R.T. -0.004 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

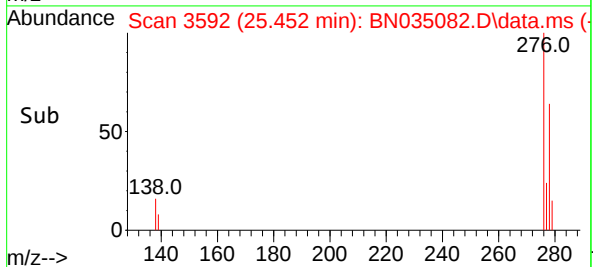
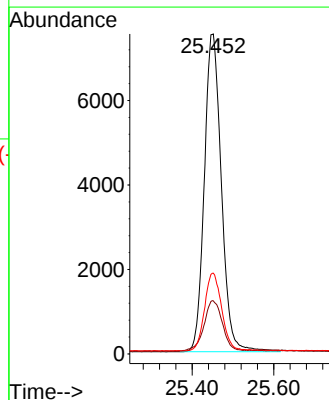
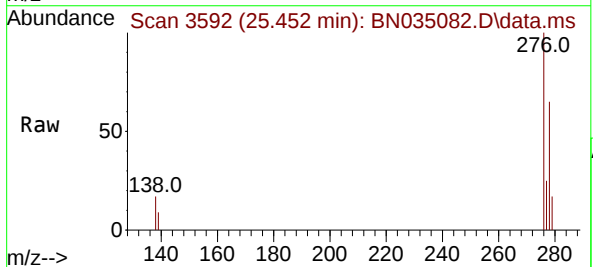
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

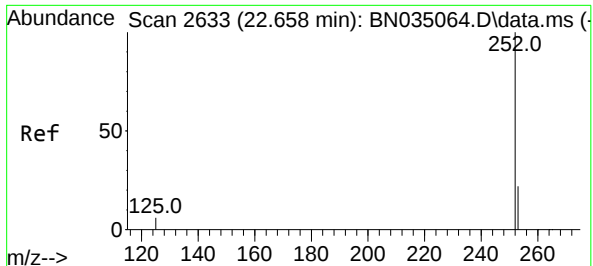
Tgt Ion:264 Resp: 14730
Ion Ratio Lower Upper
264 100
260 25.8 20.9 31.3
265 47.7 35.4 53.2



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.372 ng
RT: 25.452 min Scan# 3592
Delta R.T. -0.001 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Tgt Ion:276 Resp: 21866
Ion Ratio Lower Upper
276 100
138 17.1 13.0 19.4
277 24.6 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.385 ng

RT: 22.657 min Scan# 2636

Delta R.T. -0.001 min

Lab File: BN035082.D

Acq: 14 Nov 2024 10:12

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

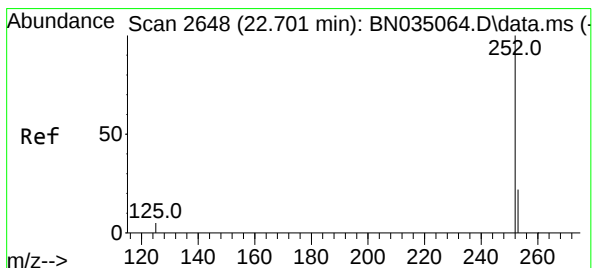
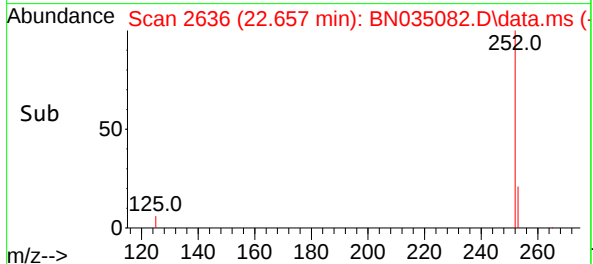
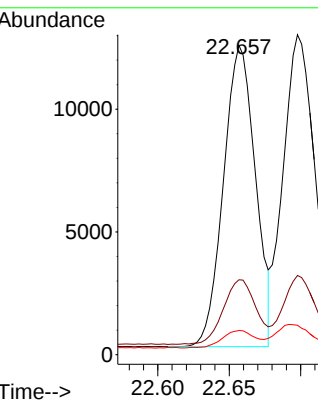
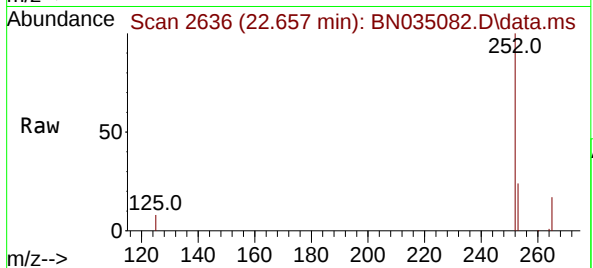
Tgt Ion:252 Resp: 19067

Ion Ratio Lower Upper

252 100

253 24.2 19.3 28.9

125 7.8 6.2 9.2



#38

Benzo(k)fluoranthene

Concen: 0.402 ng

RT: 22.698 min Scan# 2650

Delta R.T. -0.004 min

Lab File: BN035082.D

Acq: 14 Nov 2024 10:12

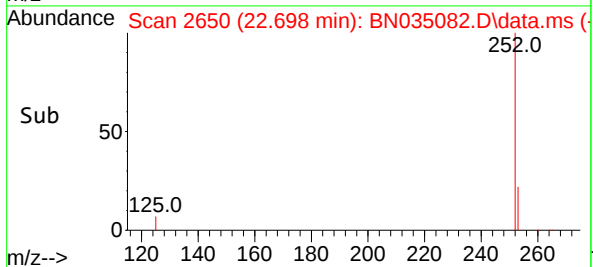
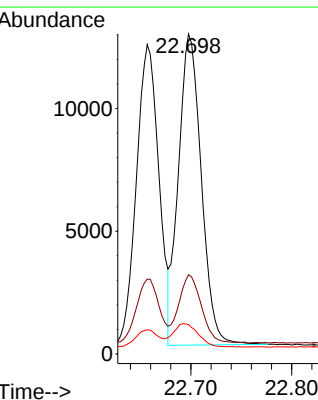
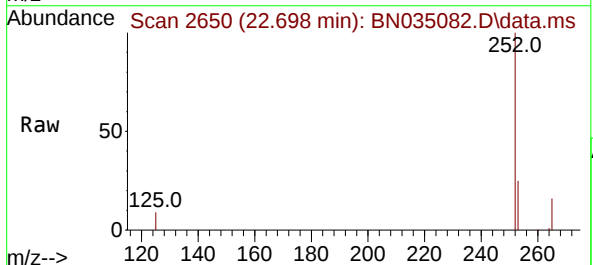
Tgt Ion:252 Resp: 19945

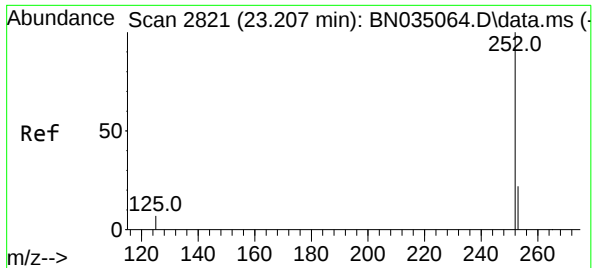
Ion Ratio Lower Upper

252 100

253 24.7 19.5 29.3

125 9.2 6.5 9.7

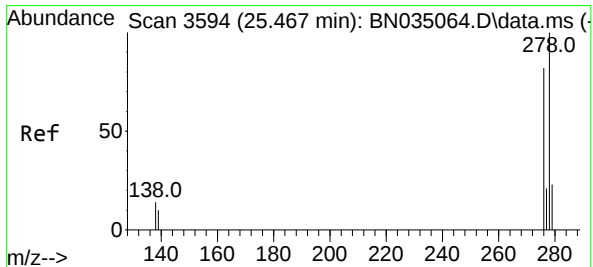
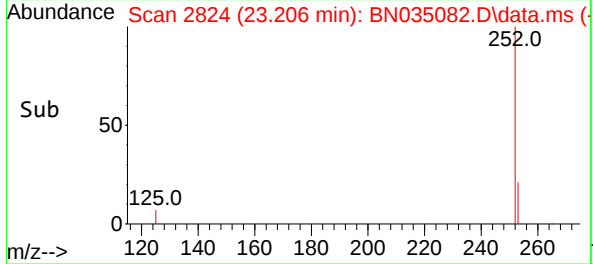
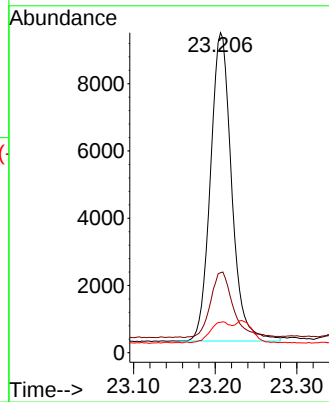
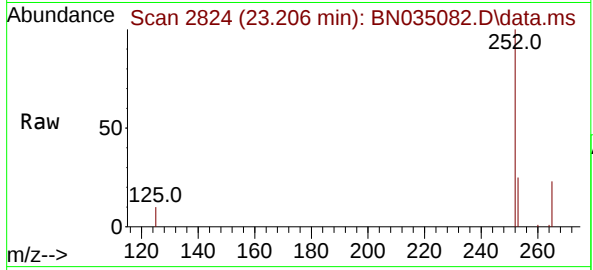




#39
Benzo(a)pyrene
Concen: 0.379 ng
RT: 23.206 min Scan# 21
Delta R.T. -0.001 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

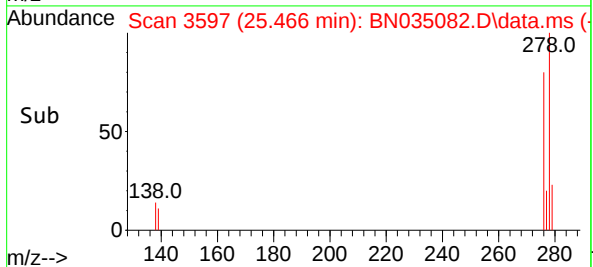
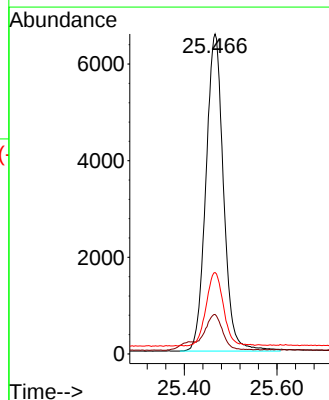
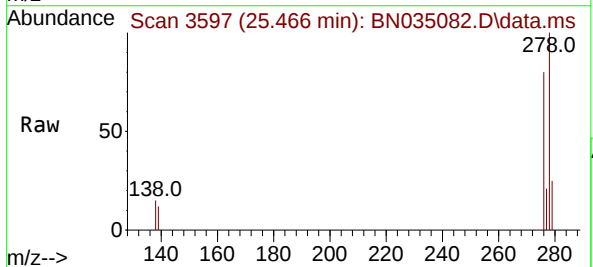
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

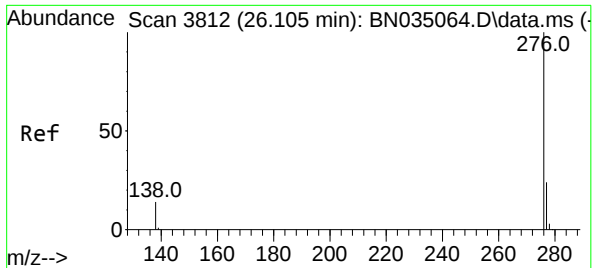
Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.0	20.1	30.1
125	9.5	7.5	11.3



#40
Dibenzo(a,h)anthracene
Concen: 0.372 ng
RT: 25.466 min Scan# 3597
Delta R.T. -0.001 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Tgt Ion	Ratio	Lower	Upper
278	100		
139	12.4	9.3	13.9
279	25.5	19.7	29.5





#41

Benzo(g,h,i)perylene

Concen: 0.359 ng

RT: 26.101 min Scan# 3814

Delta R.T. -0.004 min

Lab File: BN035082.D

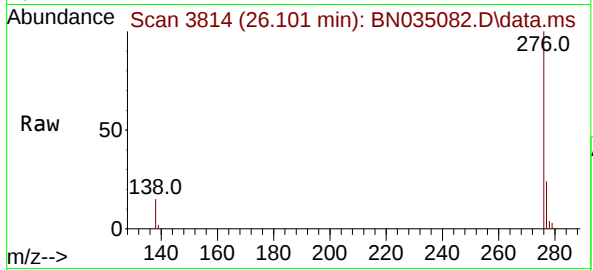
Acq: 14 Nov 2024 10:12

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



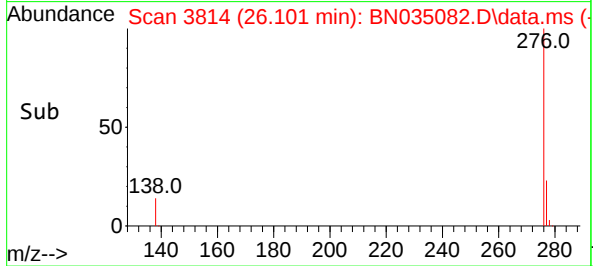
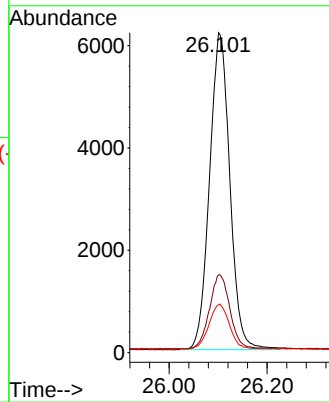
Tgt Ion:276 Resp: 17799

Ion Ratio Lower Upper

276 100

277 24.4 19.9 29.9

138 14.9 11.6 17.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111424\
Data File : BN035082.D
Acq On : 14 Nov 2024 10:12
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Nov 14 11:23:30 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	91	0.00
2	1,4-Dioxane	0.363	0.354	2.5	96	0.00
3	n-Nitrosodimethylamine	0.339	0.299	11.8	84	0.00
4 S	2-Fluorophenol	1.015	0.916	9.8	88	0.00
5 S	Phenol-d6	1.273	1.184	7.0	93	0.00
6	bis(2-Chloroethyl)ether	0.956	0.884	7.5	90	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	93	0.00
8 S	Nitrobenzene-d5	0.348	0.308	11.5	89	-0.01
9	Naphthalene	1.044	0.964	7.7	92	0.00
10	Hexachlorobutadiene	0.306	0.287	6.2	91	0.00
11 SURR	2-Methylnaphthalene-d10	0.713	0.656	8.0	92	0.00
12	2-Methylnaphthalene	0.770	0.709	7.9	92	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	93	0.00
14 S	2,4,6-Tribromophenol	0.289	0.230	20.4	89	0.00
15 S	2-Fluorobiphenyl	1.624	1.452	10.6	93	0.00
16	Acenaphthylene	1.709	1.480	13.4	93	0.00
17	Acenaphthene	1.120	0.995	11.2	93	0.00
18	Fluorene	1.648	1.459	11.5	93	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	95	0.00
20	4,6-Dinitro-2-methylphenol	0.083	0.070	15.7	92	0.00
21	4-Bromophenyl-phenylether	0.255	0.240	5.9	92	0.00
22	Hexachlorobenzene	0.264	0.250	5.3	94	0.00
23	Atrazine	0.229	0.195	14.8	85	0.00
24	Pentachlorophenol	0.124	0.104	16.1	95	0.00
25	Phenanthrene	1.053	1.000	5.0	94	0.00
26	Anthracene	0.967	0.893	7.7	92	0.00
27 SURR	Fluoranthene-d10	1.225	1.132	7.6	92	0.00
28	Fluoranthene	1.448	1.348	6.9	92	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	90	0.00
30	Pyrene	1.332	1.312	1.5	92	0.00
31 S	Terphenyl-d14	0.839	0.812	3.2	90	0.00
32	Benzo(a)anthracene	1.393	1.316	5.5	89	0.00
33	Chrysene	1.380	1.342	2.8	91	0.00
34	Bis(2-ethylhexyl)phthalate	0.731	0.581	20.5	81	0.00
35 I	Perylene-d12	1.000	1.000	0.0	86	0.00
36	Indeno(1,2,3-cd)pyrene	1.596	1.484	7.0	84	0.00
37	Benzo(b)fluoranthene	1.346	1.294	3.9	87	0.00
38	Benzo(k)fluoranthene	1.347	1.354	-0.5	91	0.00
39 C	Benzo(a)pyrene	1.184	1.122	5.2	86	0.00
40	Dibenzo(a,h)anthracene	1.264	1.174	7.1	84	0.00
41	Benzo(g,h,i)perylene	1.345	1.208	10.2	81	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111424\
Data File : BN035082.D
Acq On : 14 Nov 2024 10:12
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Nov 14 11:23:30 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	91	0.00
2	1,4-Dioxane	0.400	0.390	2.5	96	0.00
3	n-Nitrosodimethylamine	0.400	0.354	11.5	84	0.00
4 S	2-Fluorophenol	0.400	0.361	9.8	88	0.00
5 S	Phenol-d6	0.400	0.372	7.0	93	0.00
6	bis(2-Chloroethyl)ether	0.400	0.370	7.5	90	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	93	0.00
8 S	Nitrobenzene-d5	0.400	0.354	11.5	89	-0.01
9	Naphthalene	0.400	0.369	7.8	92	0.00
10	Hexachlorobutadiene	0.400	0.375	6.3	91	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.368	8.0	92	0.00
12	2-Methylnaphthalene	0.400	0.368	8.0	92	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	93	0.00
14 S	2,4,6-Tribromophenol	0.400	0.318	20.5	89	0.00
15 S	2-Fluorobiphenyl	0.400	0.358	10.5	93	0.00
16	Acenaphthylene	0.400	0.346	13.5	93	0.00
17	Acenaphthene	0.400	0.355	11.3	93	0.00
18	Fluorene	0.400	0.354	11.5	93	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	95	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.338	15.5	92	0.00
21	4-Bromophenyl-phenylether	0.400	0.376	6.0	92	0.00
22	Hexachlorobenzene	0.400	0.378	5.5	94	0.00
23	Atrazine	0.400	0.341	14.8	85	0.00
24	Pentachlorophenol	0.400	0.337	15.8	95	0.00
25	Phenanthrene	0.400	0.380	5.0	94	0.00
26	Anthracene	0.400	0.370	7.5	92	0.00
27 SURR	Fluoranthene-d10	0.400	0.369	7.8	92	0.00
28	Fluoranthene	0.400	0.372	7.0	92	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	90	0.00
30	Pyrene	0.400	0.394	1.5	92	0.00
31 S	Terphenyl-d14	0.400	0.387	3.3	90	0.00
32	Benzo(a)anthracene	0.400	0.378	5.5	89	0.00
33	Chrysene	0.400	0.389	2.8	91	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.318	20.5	81	0.00
35 I	Perylene-d12	0.400	0.400	0.0	86	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.372	7.0	84	0.00
37	Benzo(b)fluoranthene	0.400	0.385	3.8	87	0.00
38	Benzo(k)fluoranthene	0.400	0.402	-0.5	91	0.00
39 C	Benzo(a)pyrene	0.400	0.379	5.3	86	0.00
40	Dibenzo(a,h)anthracene	0.400	0.372	7.0	84	0.00
41	Benzo(g,h,i)perylene	0.400	0.359	10.3	81	0.00

(#) = Out of Range

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



QC SAMPLE DATA

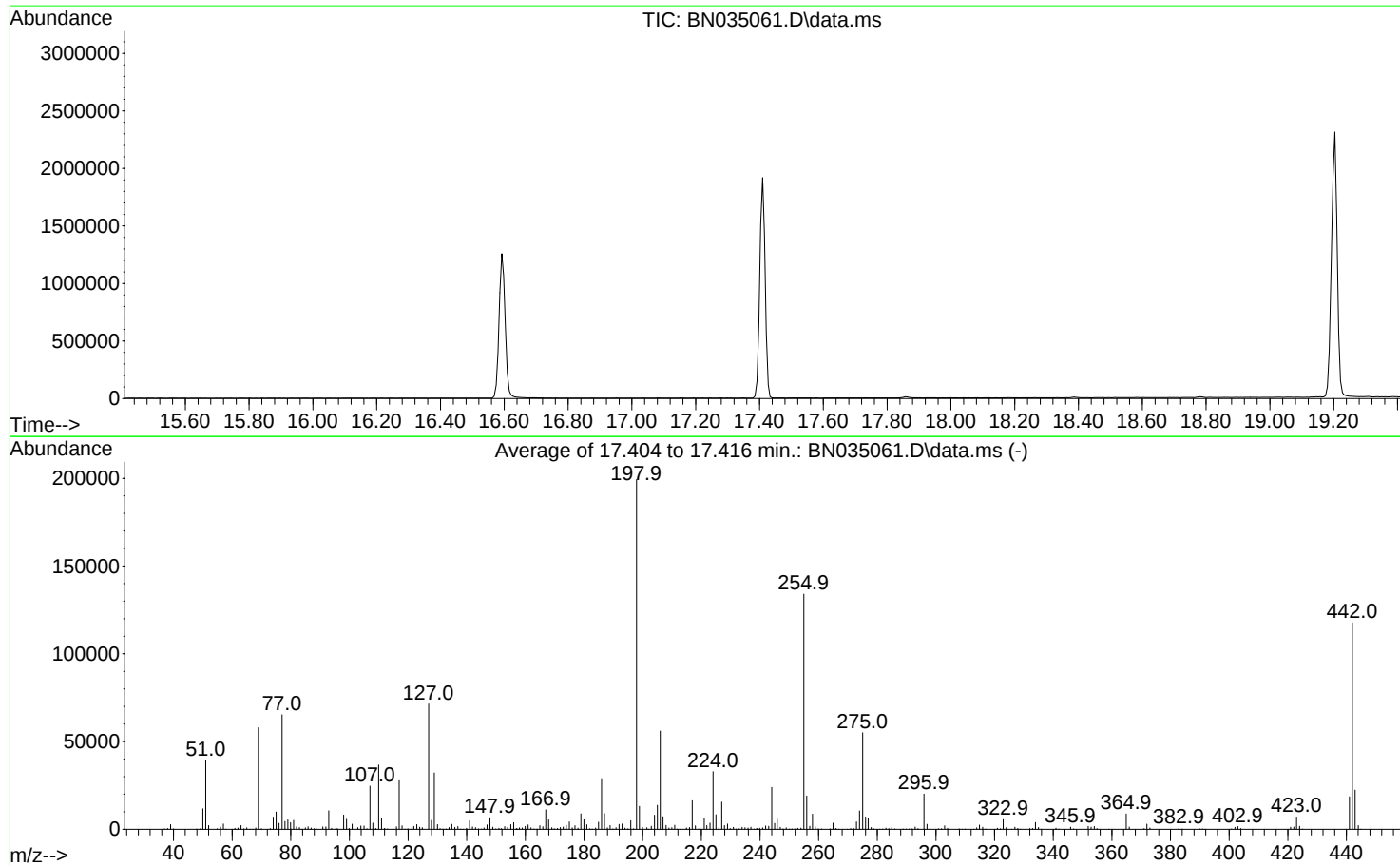
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- 2
- 3
- 4
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- 10
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- 12
- 13
- 14
- 15
- 16
- 17
- 18

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



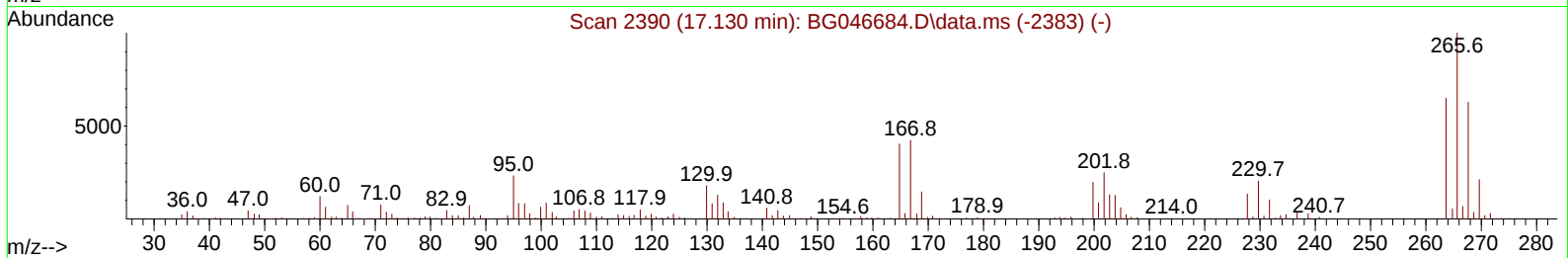
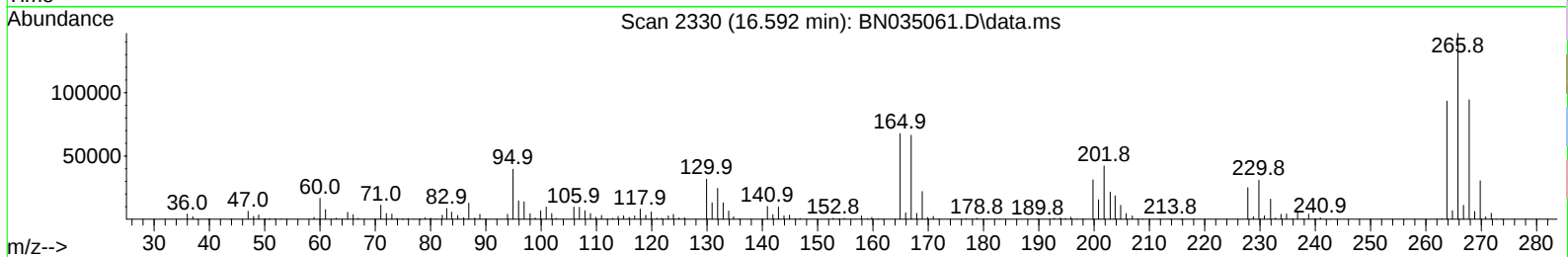
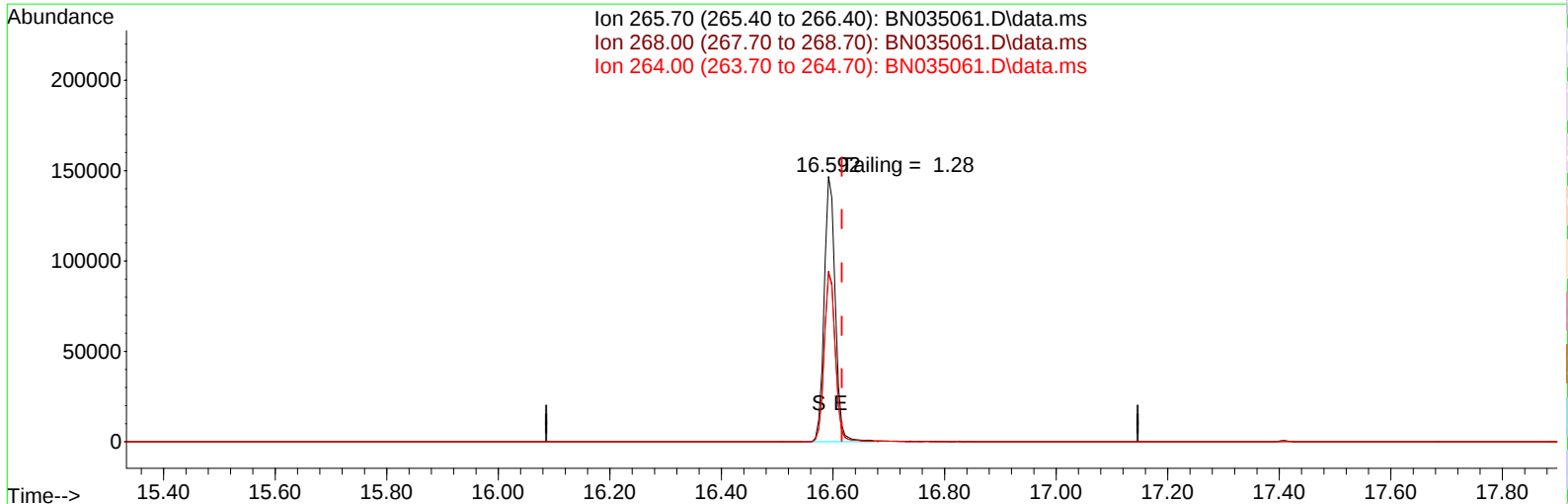
AutoFind: Scans 2468, 2469, 2470; Background Corrected with Scan 2461

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

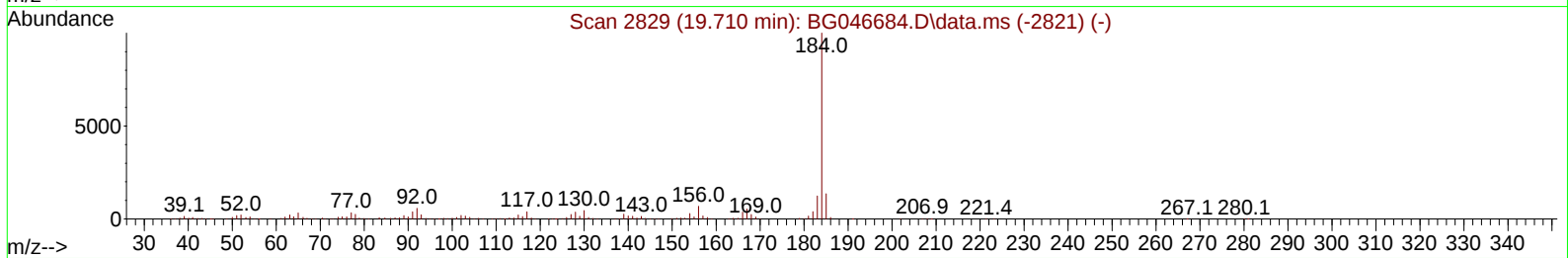
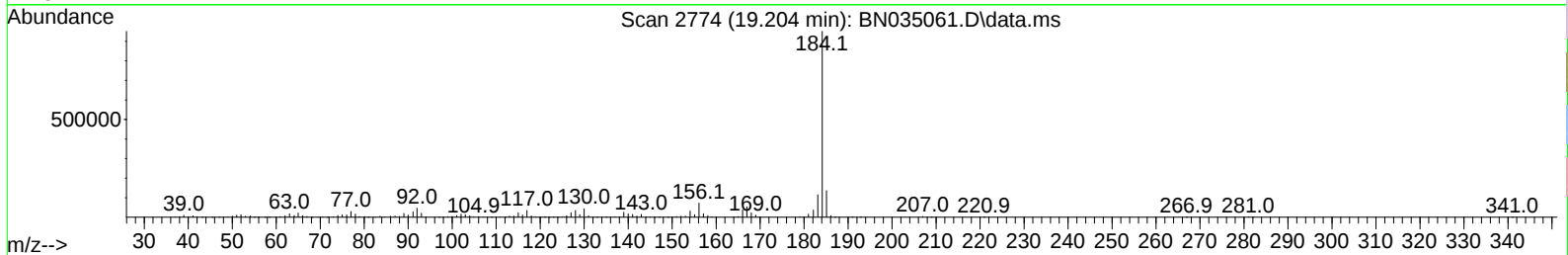
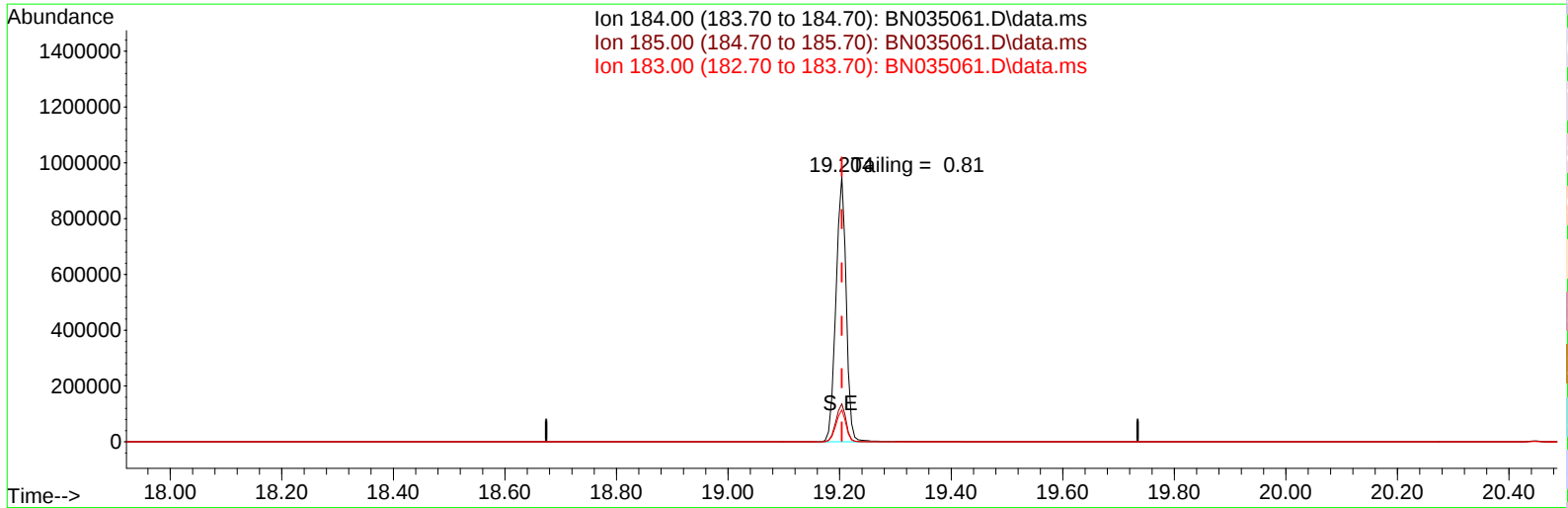
response 202879

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

DDT Breakdown

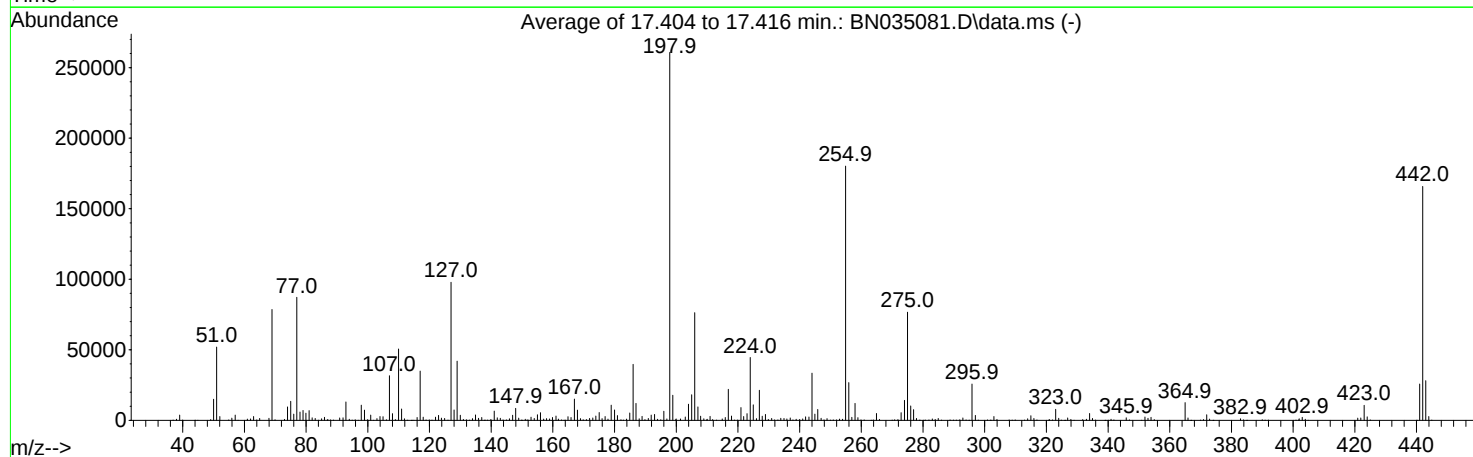
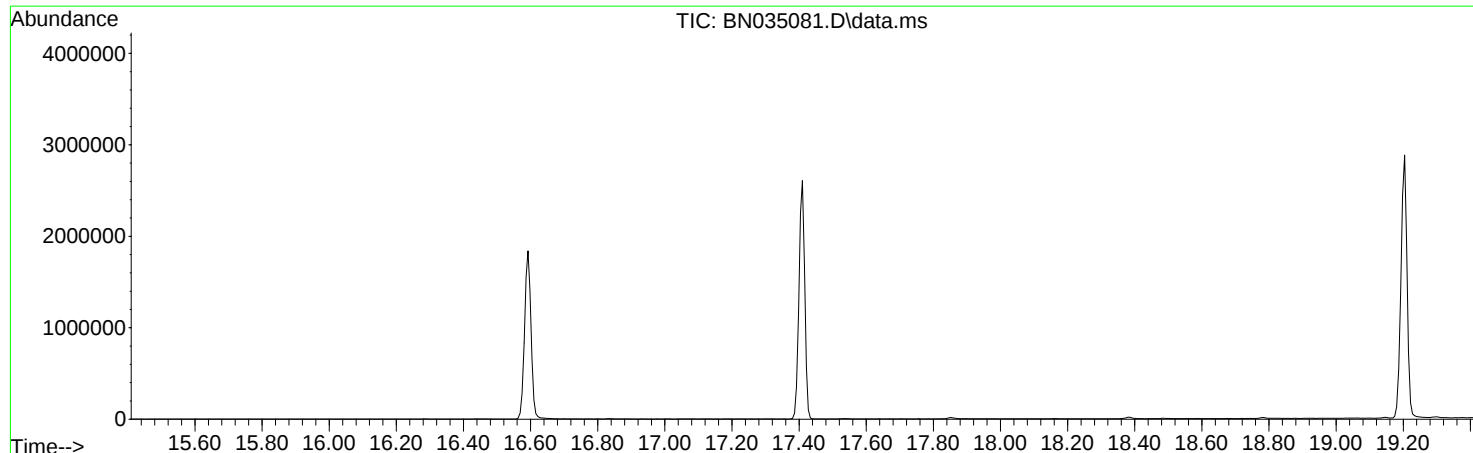
Date	Instrument Name	DFTPP Data File
11/13/2024	BNA_N	<u>BN035561.D</u>
Compound Name	Response	Retention Time
DDT	699321	20.445
DDD	6440	20.057
DDE	0	19.527
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
6440	705761	0.91

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111424\
Data File : BN035081.D
Acq On : 14 Nov 2024 08:53
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



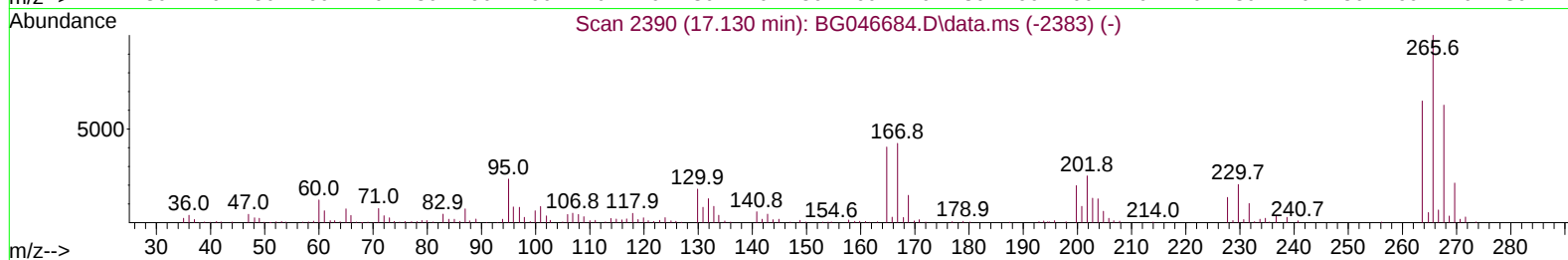
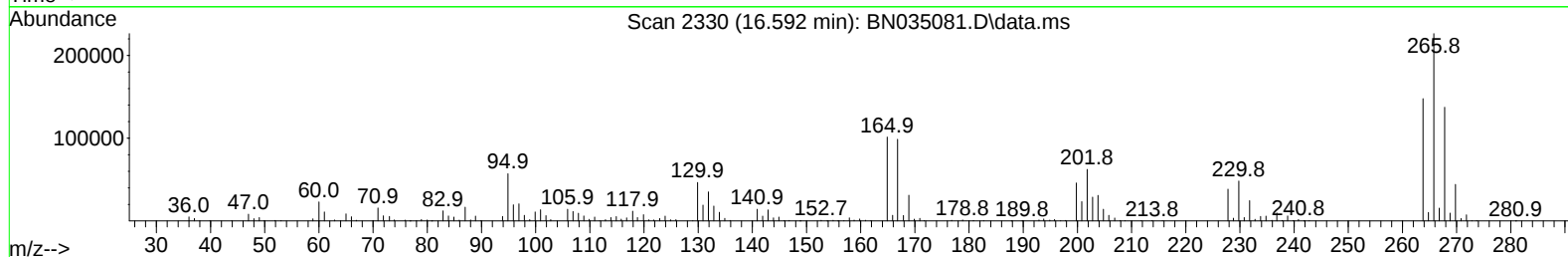
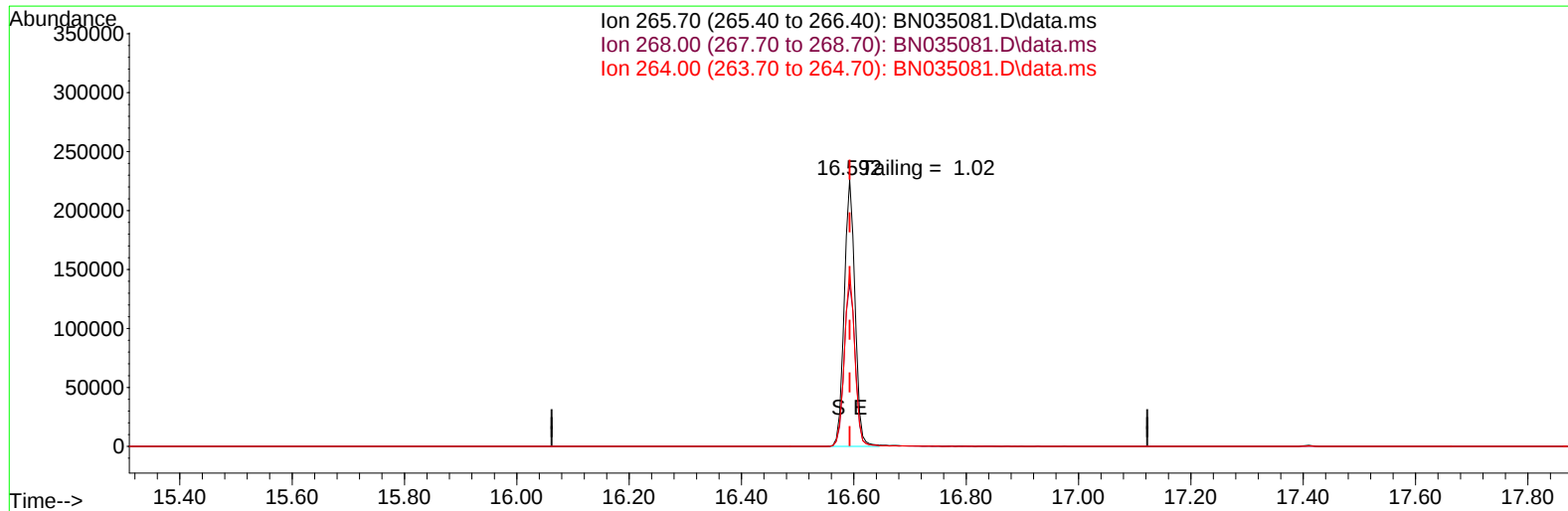
AutoFind: Scans 2468, 2469, 2470; Background Corrected with Scan 2461

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	19.9	51893	PASS
68	69	0.00	2	1.9	1465	PASS
69	198	0.00	100	30.1	78547	PASS
70	69	0.00	2	0.6	499	PASS
127	198	10	80	37.5	97883	PASS
197	198	0.00	2	0.4	1067	PASS
198	198	100	100	100.0	260736	PASS
199	198	5	9	6.8	17819	PASS
275	198	10	60	29.4	76672	PASS
365	198	1	100	4.8	12586	PASS
441	198	0.01	100	9.9	25771	PASS
442	442	50	100	100.0	165845	PASS
443	442	15	24	16.9	28101	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111424\
Data File : BN035081.D
Acq On : 14 Nov 2024 08:53
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Nov 15 01:14:50 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 15 01:14:43 2024
Response via : Initial Calibration



TIC: BN035081.D\data.ms

(70) Pentachlorophenol (C)

16.592min (0.000) 22635.68 ng

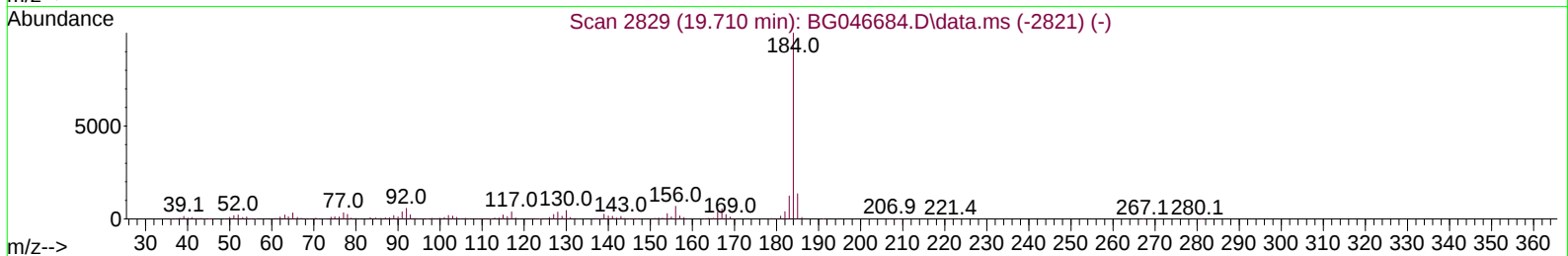
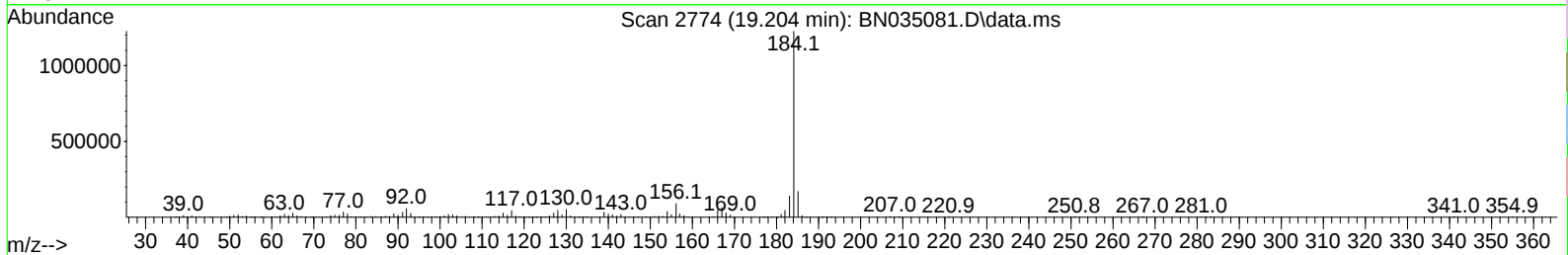
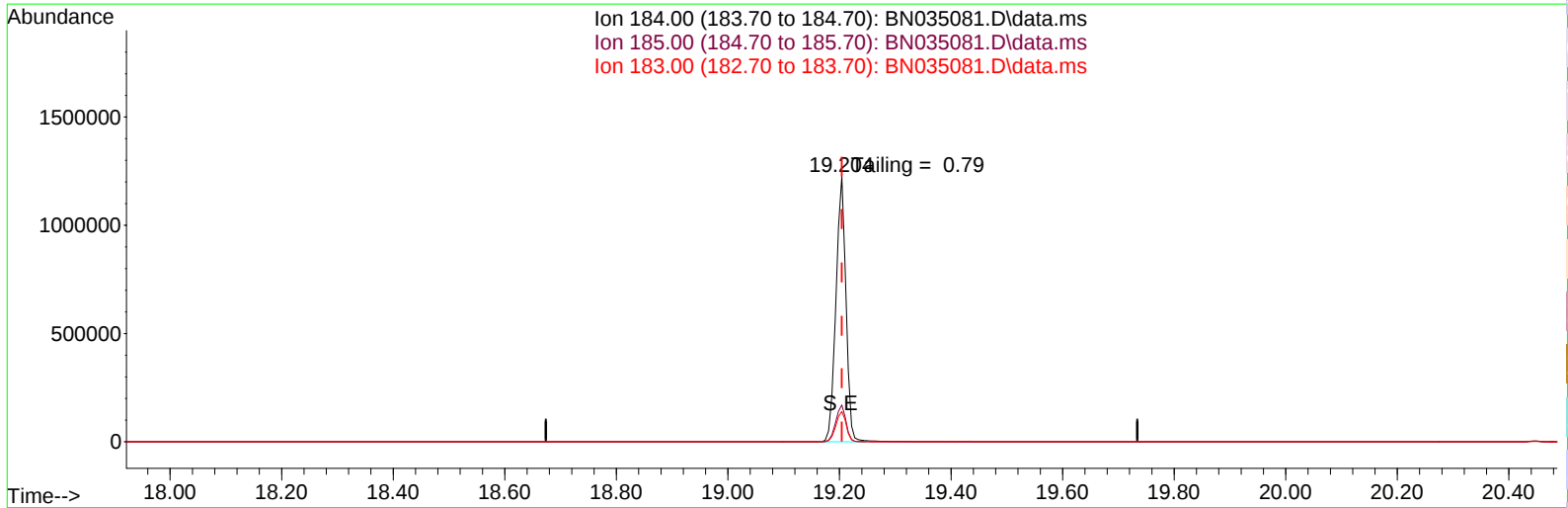
response 303230

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	60.69
264.00	61.60	65.30
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111424\
Data File : BN035081.D
Acq On : 14 Nov 2024 08:53
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Nov 15 01:14:50 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 15 01:14:43 2024
Response via : Initial Calibration



TIC: BN035081.D\data.ms

(77) Benzidine

19.204min (0.000) 0.00 ng

response 1534532

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.91
183.00	13.20	11.39
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
11/14/2024	BNA_N	<u>BN035081.D</u>
Compound Name	Response	Retention Time
DDT	954250	20.445
DDD	16295	20.004
DDE	363	19.458
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
16658	970908	1.72

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Soil PT	Date Received:	
Client Sample ID:	PB164402BL	SDG No.:	P4495
Lab Sample ID:	PB164402BL	Matrix:	SOIL
Analytical Method:	SW8270SIM	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	sw3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035083.D	1	10/25/24 09:50	11/14/24 10:48	PB164402

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
91-20-3	Naphthalene	0.69	U	0.69	3.30	ug/Kg
91-57-6	2-Methylnaphthalene	0.80	U	0.80	3.30	ug/Kg
208-96-8	Acenaphthylene	0.63	U	0.63	3.30	ug/Kg
83-32-9	Acenaphthene	0.55	U	0.55	3.30	ug/Kg
86-73-7	Fluorene	0.60	U	0.60	3.30	ug/Kg
85-01-8	Phenanthrene	0.63	U	0.63	3.30	ug/Kg
120-12-7	Anthracene	0.79	U	0.79	3.30	ug/Kg
206-44-0	Fluoranthene	0.67	U	0.67	3.30	ug/Kg
129-00-0	Pyrene	0.95	U	0.95	3.30	ug/Kg
56-55-3	Benzo(a)anthracene	0.76	U	0.76	3.30	ug/Kg
218-01-9	Chrysene	0.86	U	0.86	3.30	ug/Kg
205-99-2	Benzo(b)fluoranthene	1.20	U	1.20	3.30	ug/Kg
207-08-9	Benzo(k)fluoranthene	0.98	U	0.98	3.30	ug/Kg
50-32-8	Benzo(a)pyrene	1.70	U	1.70	3.30	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1.30	U	1.30	3.30	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1.20	U	1.20	3.30	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1.10	U	1.10	3.30	ug/Kg
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.35		17 - 161	88%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		23 - 138	93%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.37		33 - 121	93%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.36		32 - 121	90%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.42		21 - 130	104%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	2710		7.553		
1146-65-2	Naphthalene-d8	6300		10.319		
15067-26-2	Acenaphthene-d10	4580		14.19		
1517-22-2	Phenanthrene-d10	12200		16.932		
1719-03-5	Chrysene-d12	12500		21.133		

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	
Project:	NJ Soil PT		Date Received:	
Client Sample ID:	PB164402BL		SDG No.:	P4495
Lab Sample ID:	PB164402BL		Matrix:	SOIL
Analytical Method:	SW8270SIM		% Solid:	100
Sample Wt/Vol:	30.02	Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOCMS Group3
Extraction Type :		Decanted : N	Level :	LOW
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	sw3541			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035083.D	1	10/25/24 09:50	11/14/24 10:48	PB164402

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1520-96-3	Perylene-d12	14000	23.3			

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\BN111424\
Data File : BN035083.D
Acq On : 14 Nov 2024 10:48
Operator : RC/JU
Sample : PB164402BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB164402BL

Quant Time: Nov 14 11:23:57 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	2707	0.400	ng	0.00
7) Naphthalene-d8	10.319	136	6301	0.400	ng	0.00
13) Acenaphthene-d10	14.190	164	4578	0.400	ng	0.00
19) Phenanthrene-d10	16.932	188	12175	0.400	ng	# 0.00
29) Chrysene-d12	21.133	240	12501	0.400	ng	# 0.00
35) Perylene-d12	23.300	264	13990	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.184	112	2415	0.351	ng	0.00
5) Phenol-d6	6.737	99	2950	0.342	ng	0.00
8) Nitrobenzene-d5	8.696	82	2047	0.373	ng	0.00
11) 2-Methylnaphthalene-d10	11.912	152	3938	0.351	ng	0.00
14) 2,4,6-Tribromophenol	15.691	330	718	0.217	ng	0.00
15) 2-Fluorobiphenyl	12.811	172	6730	0.362	ng	0.00
27) Fluoranthene-d10	18.973	212	13930	0.373	ng	0.00
31) Terphenyl-d14	19.586	244	10975	0.418	ng	0.00

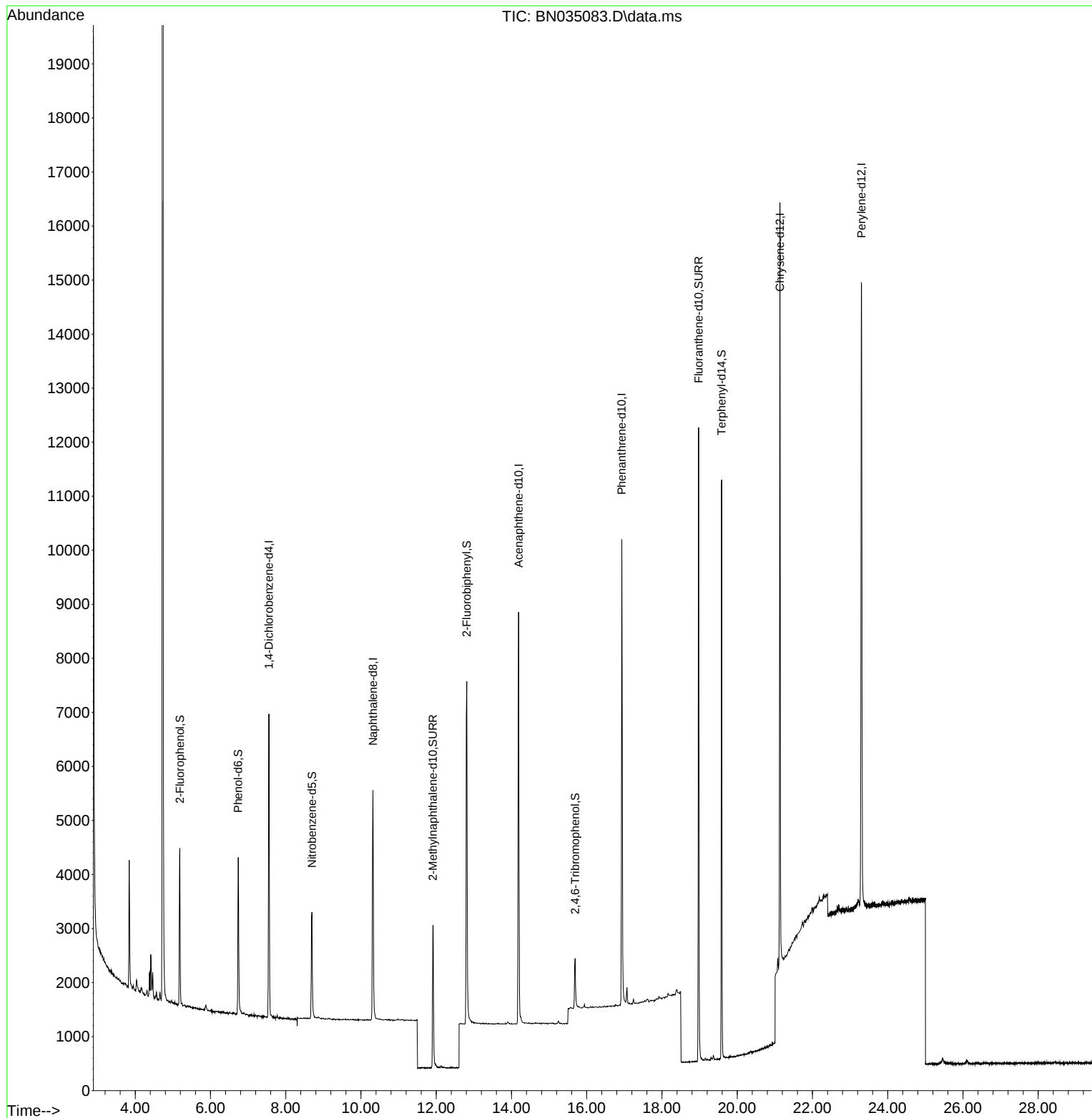
Target Compounds	Qvalue
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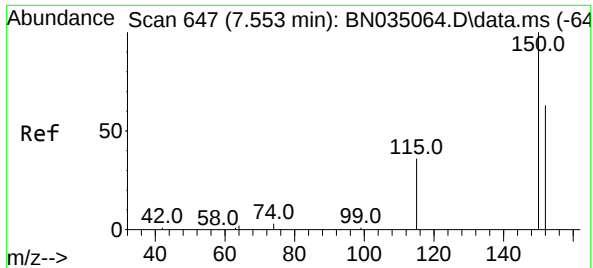
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Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111424\
Data File : BN035083.D
Acq On : 14 Nov 2024 10:48
Operator : RC/JU
Sample : PB164402BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB164402BL

Quant Time: Nov 14 11:23:57 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

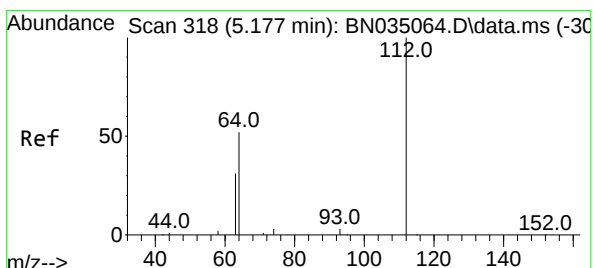
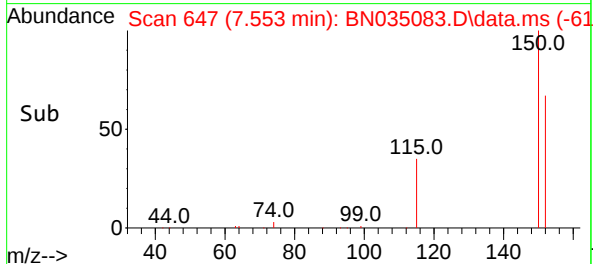
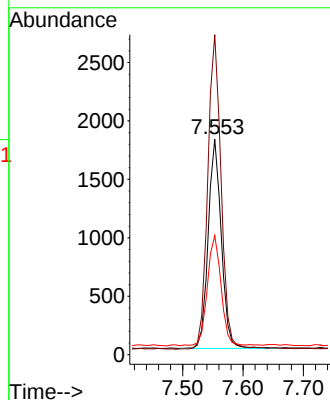
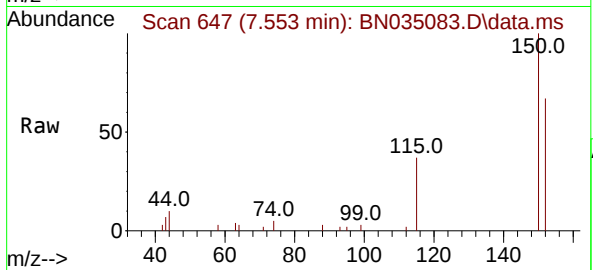




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.553 min Scan# 647
Delta R.T. 0.000 min
Lab File: BN035083.D
Acq: 14 Nov 2024 10:48

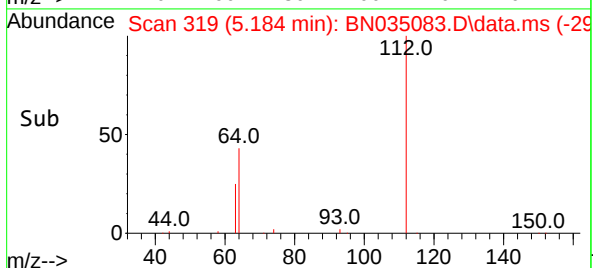
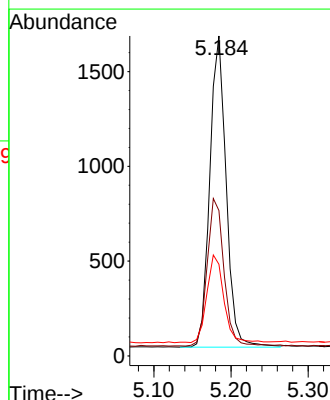
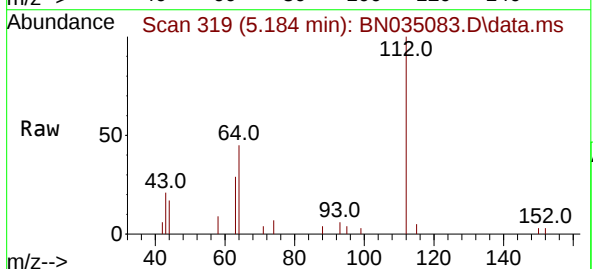
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BNA_N
ClientSampleId :
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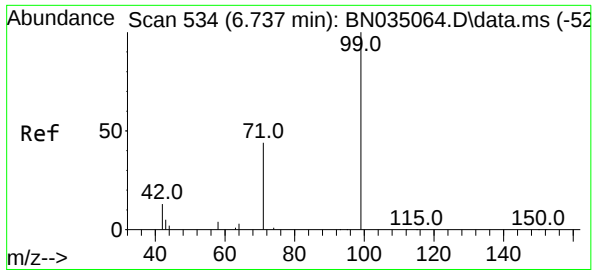
Tgt Ion:152 Resp: 2707
Ion Ratio Lower Upper
152 100
150 148.5 124.5 186.7
115 55.3 47.8 71.6



#4
2-Fluorophenol
Concen: 0.351 ng
RT: 5.184 min Scan# 319
Delta R.T. 0.007 min
Lab File: BN035083.D
Acq: 14 Nov 2024 10:48

Tgt Ion:112 Resp: 2415
Ion Ratio Lower Upper
112 100
64 48.8 39.7 59.5
63 28.7 23.0 34.4

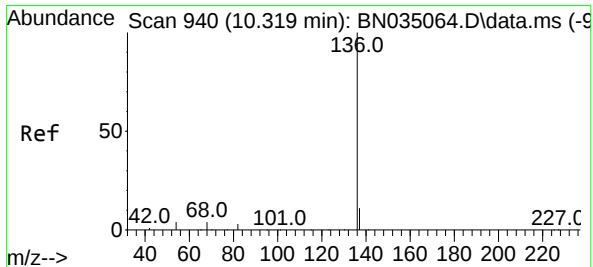
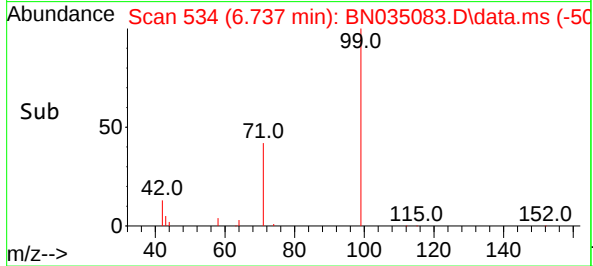
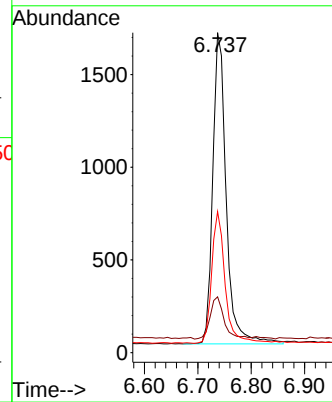
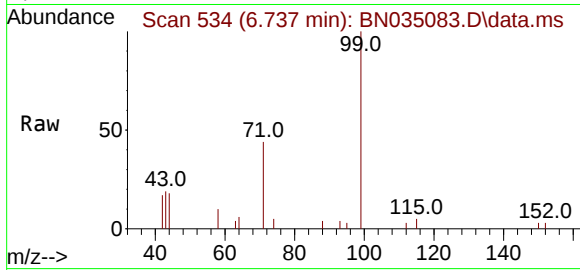




#5
Phenol-d6
Concen: 0.342 ng
RT: 6.737 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN035083.D
Acq: 14 Nov 2024 10:48

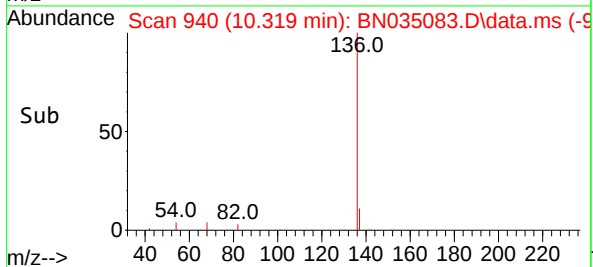
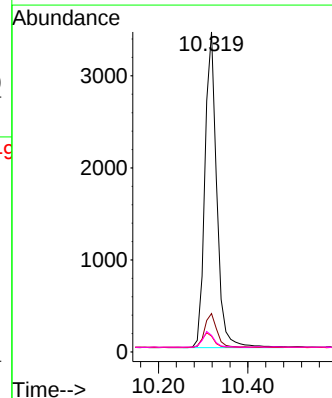
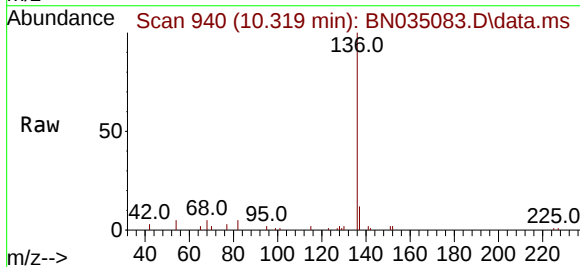
Instrument :
BNA_N
ClientSampleId :
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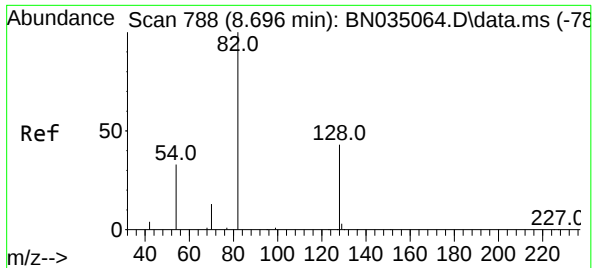
Tgt Ion:	99	Resp:	2950
Ion	Ratio	Lower	Upper
99	100		
42	14.2	11.4	17.0
71	42.2	34.6	51.8



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.319 min Scan# 940
Delta R.T. -0.000 min
Lab File: BN035083.D
Acq: 14 Nov 2024 10:48

Tgt Ion:	136	Resp:	6301
Ion	Ratio	Lower	Upper
136	100		
137	12.0	9.8	14.8
54	5.0	4.0	6.0
68	5.2	4.2	6.2

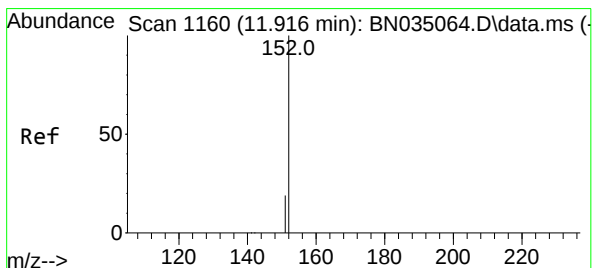
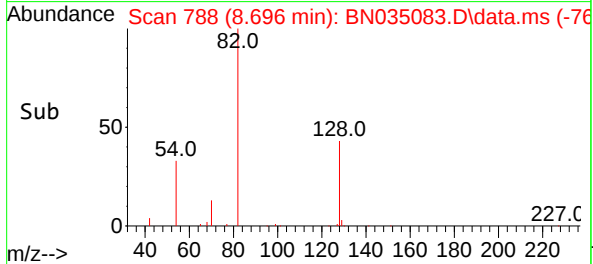
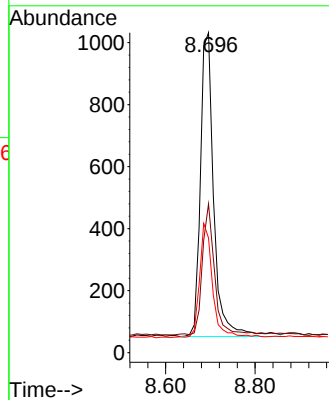
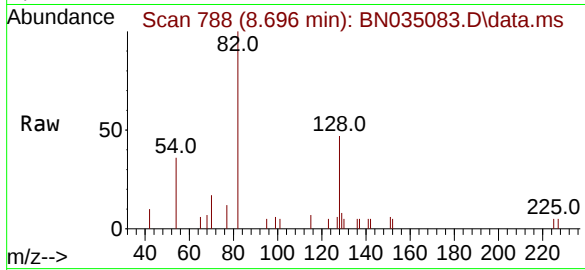




#8
Nitrobenzene-d5
Concen: 0.373 ng
RT: 8.696 min Scan# 71
Delta R.T. -0.000 min
Lab File: BN035083.D
Acq: 14 Nov 2024 10:48

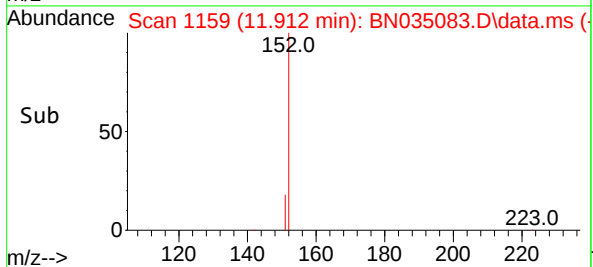
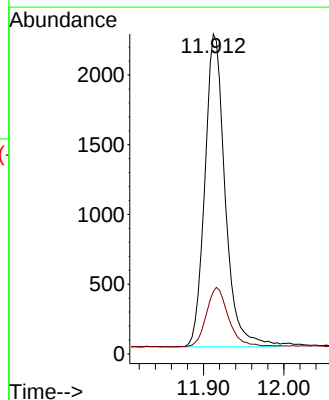
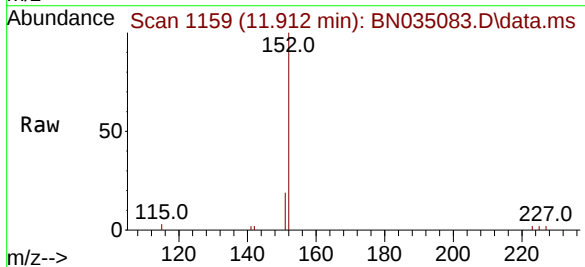
Instrument :
BNA_N
ClientSampleId :
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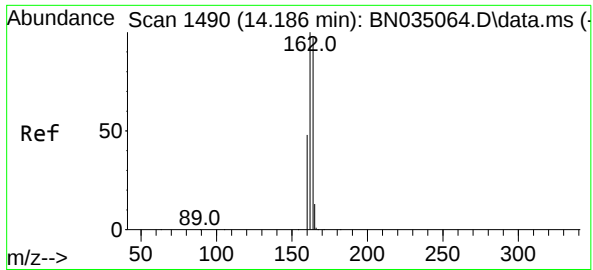
Tgt Ion:	82	Resp:	2047
Ion	Ratio	Lower	Upper
82	100		
128	46.5	36.5	54.7
54	35.9	28.7	43.1



#11
2-Methylnaphthalene-d10
Concen: 0.351 ng
RT: 11.912 min Scan# 1159
Delta R.T. -0.004 min
Lab File: BN035083.D
Acq: 14 Nov 2024 10:48

Tgt Ion:	152	Resp:	3938
Ion	Ratio	Lower	Upper
152	100		
151	21.2	16.2	24.4

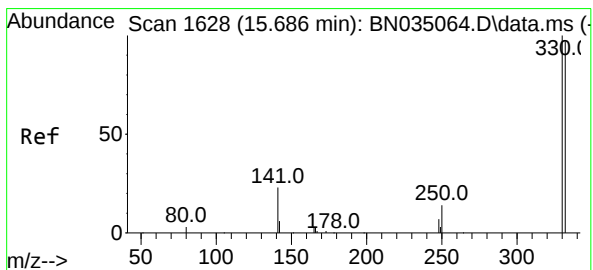
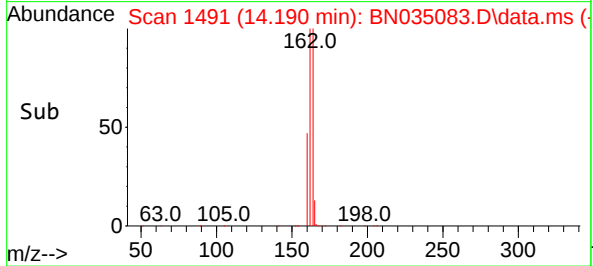
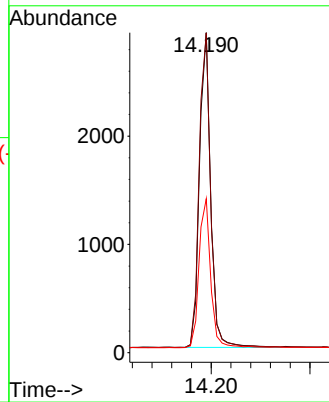
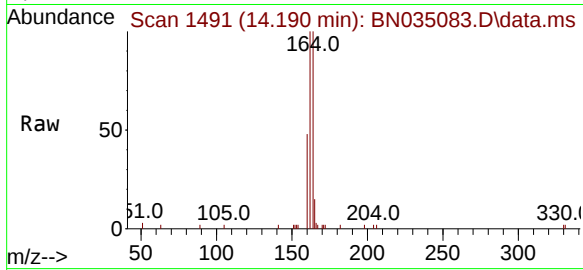




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.190 min Scan# 1491
Delta R.T. 0.004 min
Lab File: BN035083.D
Acq: 14 Nov 2024 10:48

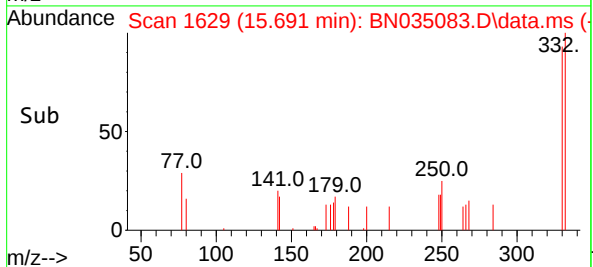
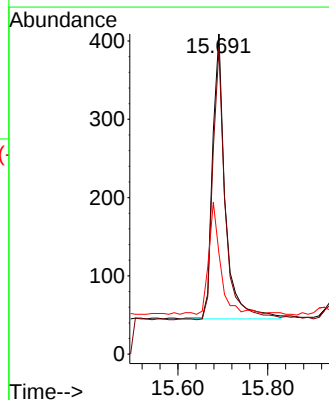
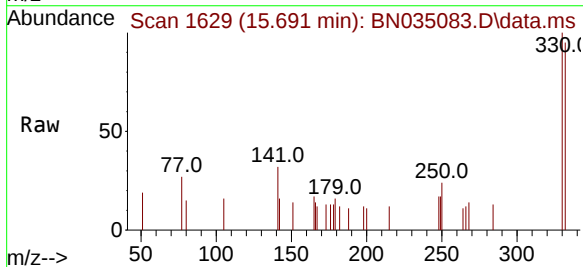
Instrument :
BNA_N
ClientSampleId :
PB164402BL

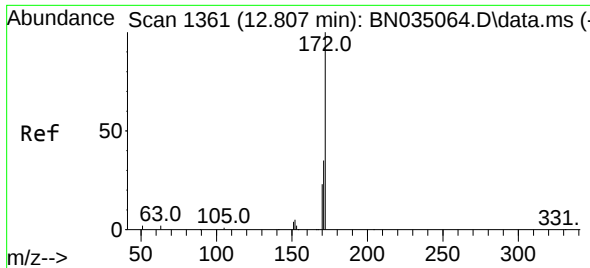
Tgt Ion:164 Resp: 4578
Ion Ratio Lower Upper
164 100
162 99.9 82.2 123.2
160 48.1 40.2 60.4



#14
2,4,6-Tribromophenol
Concen: 0.217 ng
RT: 15.691 min Scan# 1629
Delta R.T. 0.005 min
Lab File: BN035083.D
Acq: 14 Nov 2024 10:48

Tgt Ion:330 Resp: 718
Ion Ratio Lower Upper
330 100
332 93.9 76.9 115.3
141 36.8 29.6 44.4

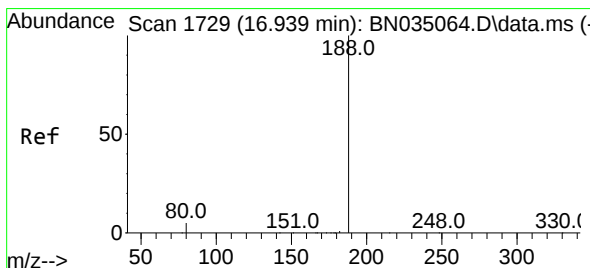
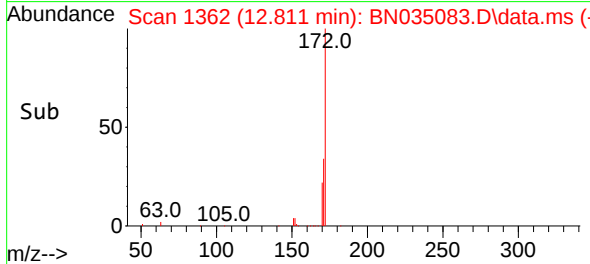
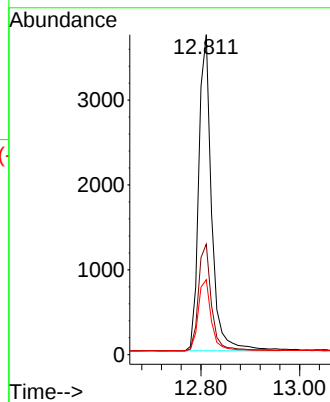
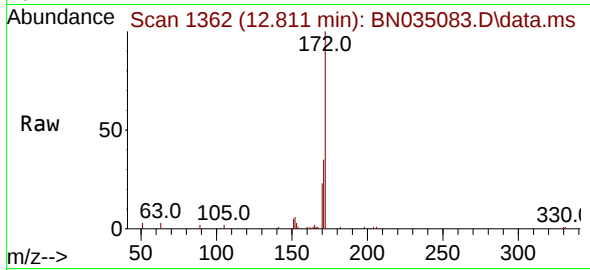




#15
2-Fluorobiphenyl
Concen: 0.362 ng
RT: 12.811 min Scan# 1362
Delta R.T. 0.004 min
Lab File: BN035083.D
Acq: 14 Nov 2024 10:48

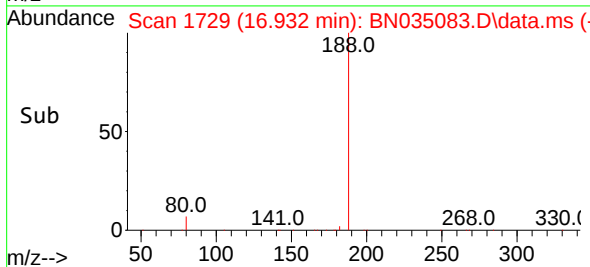
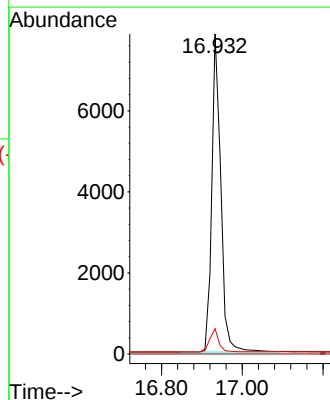
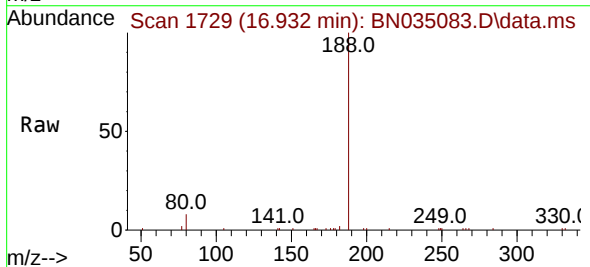
Instrument :
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ClientSampleId :
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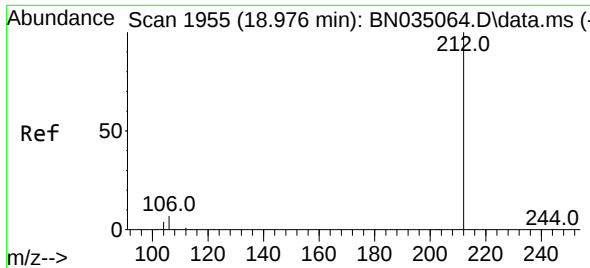
Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.6	28.2	42.4
170	23.4	19.0	28.6



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.932 min Scan# 1729
Delta R.T. -0.007 min
Lab File: BN035083.D
Acq: 14 Nov 2024 10:48

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.9	4.3	6.5

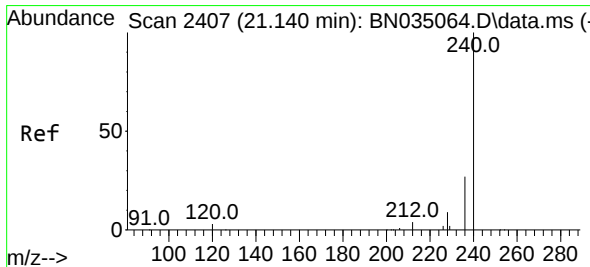
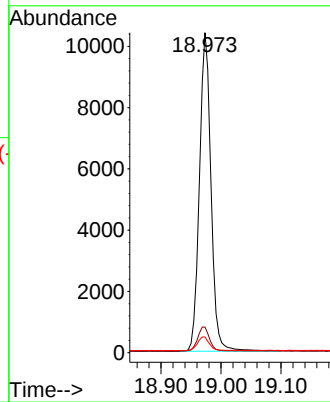
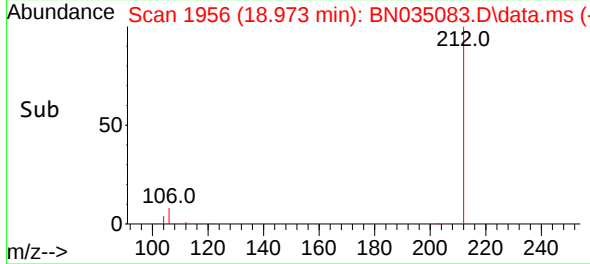
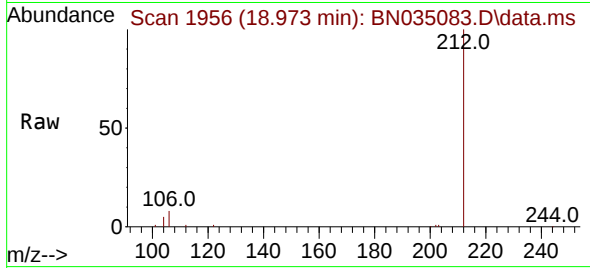




#27
Fluoranthene-d10
Concen: 0.373 ng
RT: 18.973 min Scan# 1956
Delta R.T. -0.002 min
Lab File: BN035083.D
Acq: 14 Nov 2024 10:48

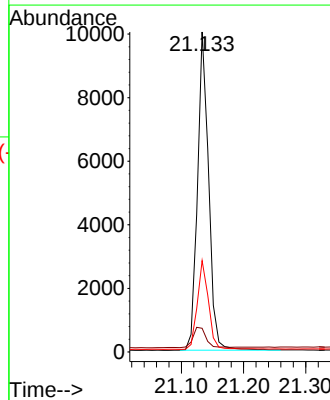
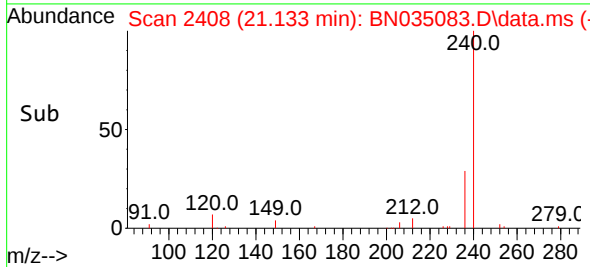
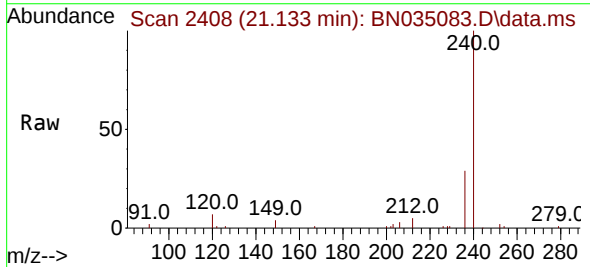
Instrument :
BNA_N
ClientSampleId :
PB164402BL

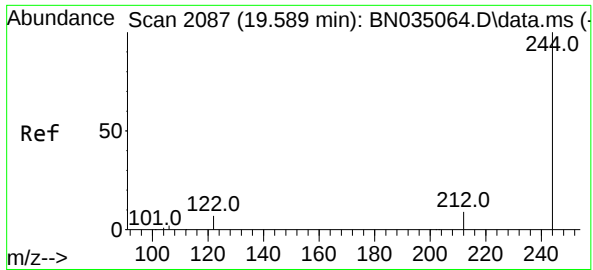
Tgt Ion:	212	Resp:	13930
Ion Ratio	Lower	Upper	
212	100		
106	7.7	6.0	9.0
104	4.4	3.5	5.3



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.133 min Scan# 2408
Delta R.T. -0.007 min
Lab File: BN035083.D
Acq: 14 Nov 2024 10:48

Tgt Ion:	240	Resp:	12501
Ion Ratio	Lower	Upper	
240	100		
120	7.4	3.8	5.6
236	28.5	22.2	33.2

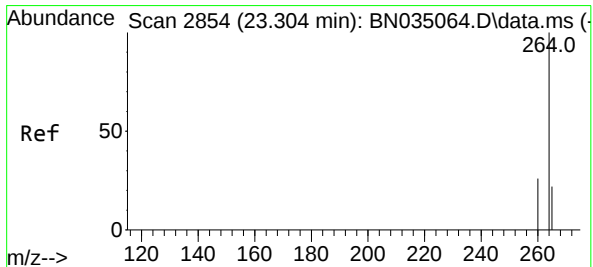
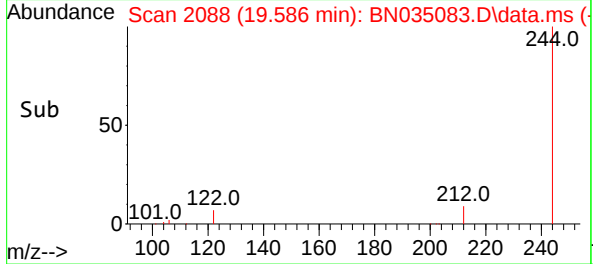
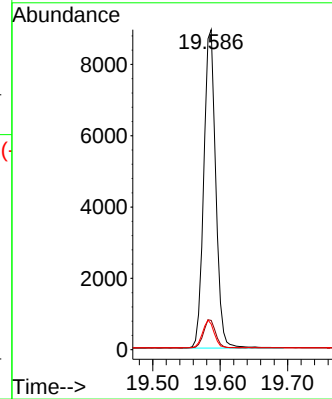
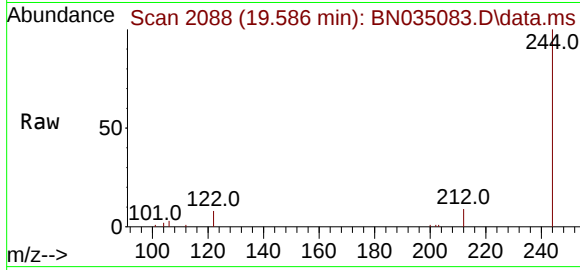




#31
Terphenyl-d14
Concen: 0.418 ng
RT: 19.586 min Scan# 2087
Delta R.T. -0.002 min
Lab File: BN035083.D
Acq: 14 Nov 2024 10:48

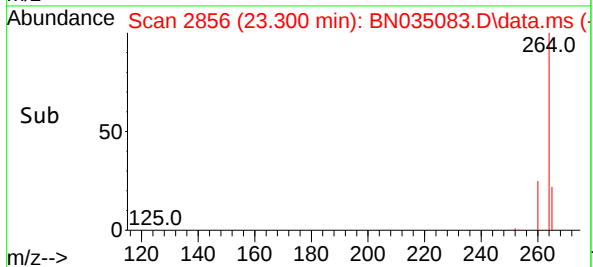
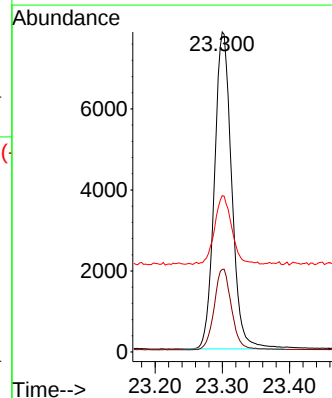
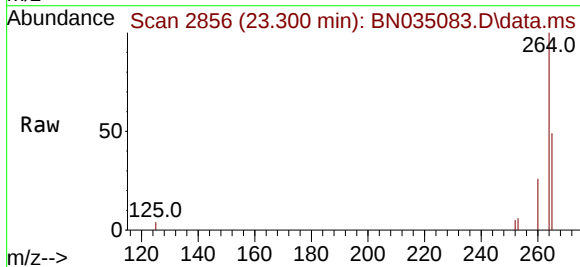
Instrument :
BNA_N
ClientSampleId :
PB164402BL

Tgt Ion:244 Resp: 10975
Ion Ratio Lower Upper
244 100
212 9.1 7.6 11.4
122 8.0 6.1 9.1



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.300 min Scan# 2856
Delta R.T. -0.004 min
Lab File: BN035083.D
Acq: 14 Nov 2024 10:48

Tgt Ion:264 Resp: 13990
Ion Ratio Lower Upper
264 100
260 25.8 20.9 31.3
265 48.9 35.4 53.2



Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Soil PT	Date Received:	
Client Sample ID:	PB164402BS	SDG No.:	P4495
Lab Sample ID:	PB164402BS	Matrix:	SOIL
Analytical Method:	SW8270SIM	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	sw3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035094.D	1	10/25/24 09:50	11/14/24 18:59	PB164402

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
91-20-3	Naphthalene	12.0		0.69	3.30	ug/Kg
91-57-6	2-Methylnaphthalene	12.0		0.80	3.30	ug/Kg
208-96-8	Acenaphthylene	12.1		0.63	3.30	ug/Kg
83-32-9	Acenaphthene	11.6		0.55	3.30	ug/Kg
86-73-7	Fluorene	11.2		0.60	3.30	ug/Kg
85-01-8	Phenanthrene	12.3		0.63	3.30	ug/Kg
120-12-7	Anthracene	12.5		0.79	3.30	ug/Kg
206-44-0	Fluoranthene	10.7		0.67	3.30	ug/Kg
129-00-0	Pyrene	13.6		0.95	3.30	ug/Kg
56-55-3	Benzo(a)anthracene	12.0		0.76	3.30	ug/Kg
218-01-9	Chrysene	12.6		0.86	3.30	ug/Kg
205-99-2	Benzo(b)fluoranthene	13.0		1.20	3.30	ug/Kg
207-08-9	Benzo(k)fluoranthene	12.8		0.98	3.30	ug/Kg
50-32-8	Benzo(a)pyrene	13.0		1.70	3.30	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	11.2		1.30	3.30	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	11.2		1.20	3.30	ug/Kg
191-24-2	Benzo(g,h,i)perylene	10.0		1.10	3.30	ug/Kg
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.46		17 - 161	114%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.32		23 - 138	81%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.35		33 - 121	86%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.36		32 - 121	89%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.42		21 - 130	105%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	2570		7.553		
1146-65-2	Naphthalene-d8	6460		10.319		
15067-26-2	Acenaphthene-d10	4850		14.19		
1517-22-2	Phenanthrene-d10	11500		16.932		
1719-03-5	Chrysene-d12	9990		21.133		

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	
Project:	NJ Soil PT		Date Received:	
Client Sample ID:	PB164402BS		SDG No.:	P4495
Lab Sample ID:	PB164402BS		Matrix:	SOIL
Analytical Method:	SW8270SIM		% Solid:	100
Sample Wt/Vol:	30.03	Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOCMS Group3
Extraction Type :		Decanted : N	Level :	LOW
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	sw3541			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035094.D	1	10/25/24 09:50	11/14/24 18:59	PB164402

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1520-96-3	Perylene-d12	9580	23.303			

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\BN111424\
 Data File : BN035094.D
 Acq On : 14 Nov 2024 18:59
 Operator : RC/JU
 Sample : PB164402BS
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB164402BS

Quant Time: Nov 15 01:07:51 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

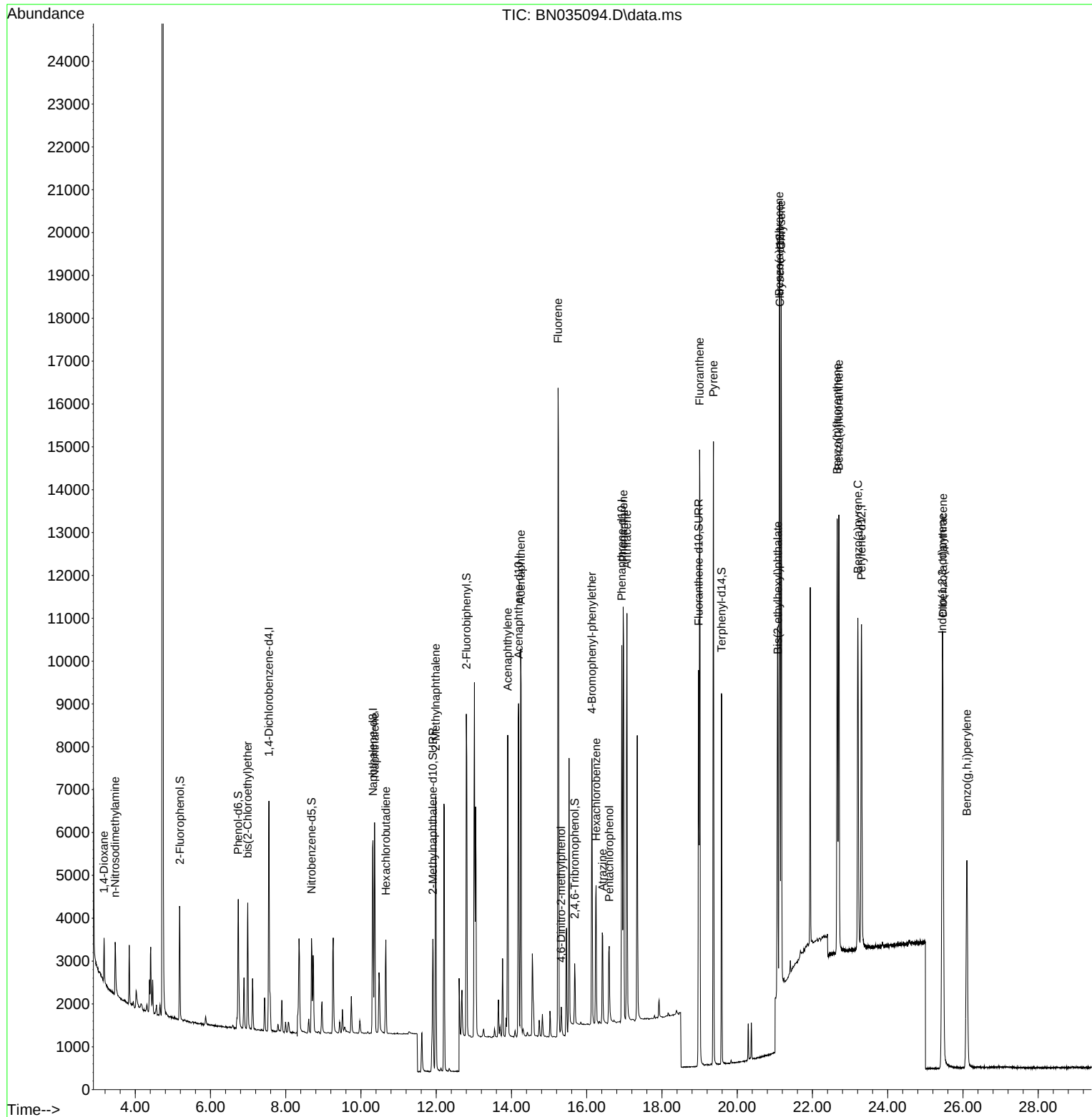
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.553	152	2568	0.400	ng	0.00
7) Naphthalene-d8	10.319	136	6459	0.400	ng	0.00
13) Acenaphthene-d10	14.190	164	4848	0.400	ng	0.00
19) Phenanthrene-d10	16.932	188	11535	0.400	ng	# 0.00
29) Chrysene-d12	21.133	240	9992	0.400	ng	# 0.00
35) Perylene-d12	23.303	264	9578	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.184	112	2217	0.340	ng	0.00
5) Phenol-d6	6.737	99	2828	0.346	ng	0.00
8) Nitrobenzene-d5	8.685	82	1938	0.345	ng	-0.01
11) 2-Methylnaphthalene-d10	11.912	152	5263	0.457	ng	0.00
14) 2,4,6-Tribromophenol	15.679	330	847	0.242	ng	0.00
15) 2-Fluorobiphenyl	12.800	172	6986	0.355	ng	0.00
27) Fluoranthene-d10	18.973	212	11385	0.322	ng	0.00
31) Terphenyl-d14	19.586	244	8824	0.421	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.169	88	699	0.300	ng	# 80
3) n-Nitrosodimethylamine	3.465	42	797	0.367	ng	# 96
6) bis(2-Chloroethyl)ether	6.990	93	2242	0.365	ng	98
9) Naphthalene	10.361	128	6050	0.359	ng	99
10) Hexachlorobutadiene	10.660	225	1756	0.355	ng	# 100
12) 2-Methylnaphthalene	11.988	142	4477	0.360	ng	99
16) Acenaphthylene	13.901	152	7516	0.363	ng	99
17) Acenaphthene	14.243	154	4745	0.349	ng	100
18) Fluorene	15.238	166	6723	0.337	ng	98
20) 4,6-Dinitro-2-methylph...	15.323	198	659	0.274	ng	# 87
21) 4-Bromophenyl-phenylether	16.138	248	2703	0.368	ng	# 86
22) Hexachlorobenzene	16.250	284	2802	0.367	ng	99
23) Atrazine	16.423	200	2076	0.315	ng	# 91
24) Pentachlorophenol	16.597	266	1142	0.320	ng	98
25) Phenanthrene	16.970	178	11178	0.368	ng	99
26) Anthracene	17.069	178	10479	0.376	ng	100
28) Fluoranthene	19.001	202	13343	0.320	ng	100
30) Pyrene	19.368	202	13626	0.409	ng	100
32) Benzo(a)anthracene	21.115	228	12572	0.361	ng	98
33) Chrysene	21.169	228	12991	0.377	ng	98
34) Bis(2-ethylhexyl)phtha...	21.080	149	5566	0.305	ng	100
36) Indeno(1,2,3-cd)pyrene	25.449	276	12815	0.335	ng	100
37) Benzo(b)fluoranthene	22.657	252	12608	0.391	ng	96
38) Benzo(k)fluoranthene	22.700	252	12410	0.385	ng	98
39) Benzo(a)pyrene	23.206	252	11017	0.389	ng	96
40) Dibenzo(a,h)anthracene	25.466	278	10170	0.336	ng	96
41) Benzo(g,h,i)perylene	26.104	276	9675	0.300	ng	98

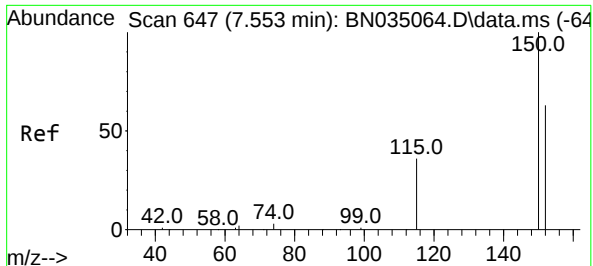
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN035094.D
Acq On : 14 Nov 2024 18:59
Operator : RC/JU
Sample : PB164402BS
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB164402BS

Quant Time: Nov 15 01:07:51 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

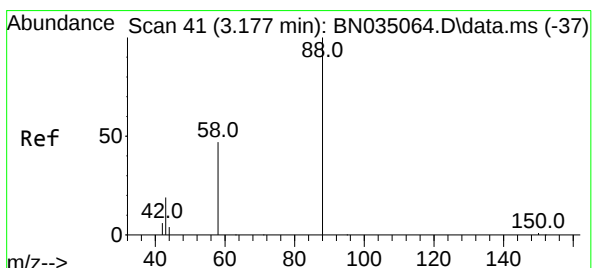
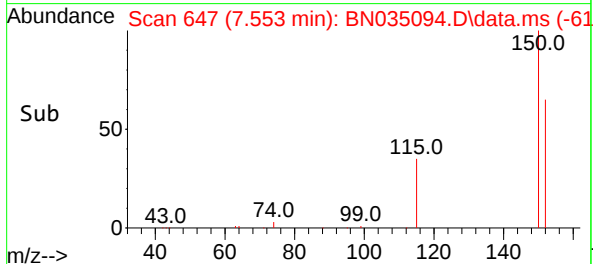
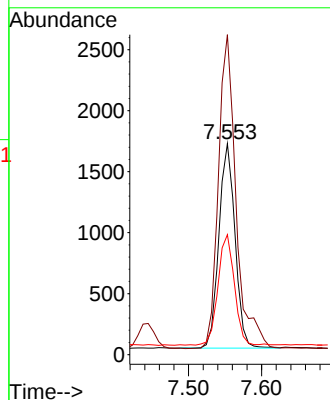
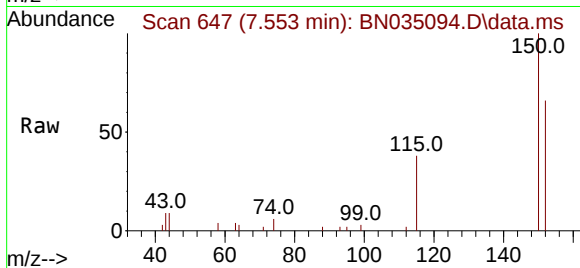




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.553 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59

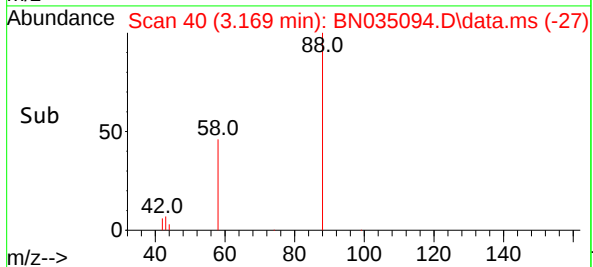
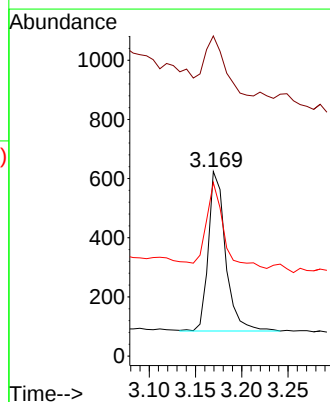
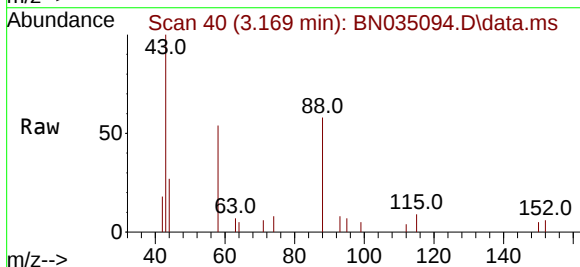
Instrument :
BNA_N
ClientSampleId :
PB164402BS

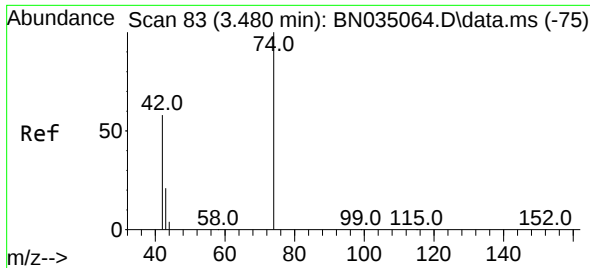
Tgt Ion:152 Resp: 2568
Ion Ratio Lower Upper
152 100
150 151.6 124.5 186.7
115 56.9 47.8 71.6



#2
1,4-Dioxane
Concen: 0.300 ng
RT: 3.169 min Scan# 40
Delta R.T. -0.007 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59

Tgt Ion: 88 Resp: 699
Ion Ratio Lower Upper
88 100
43 44.6 16.9 25.3#
58 53.6 39.0 58.4

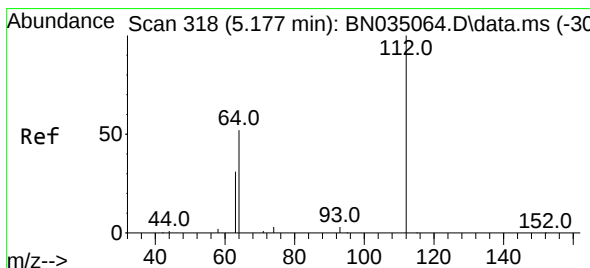
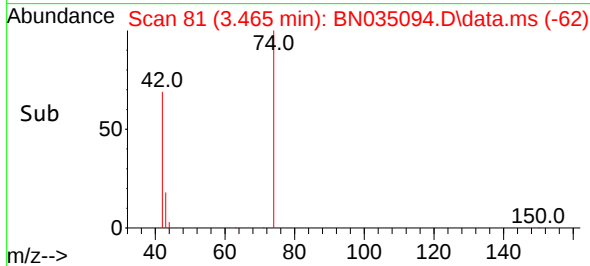
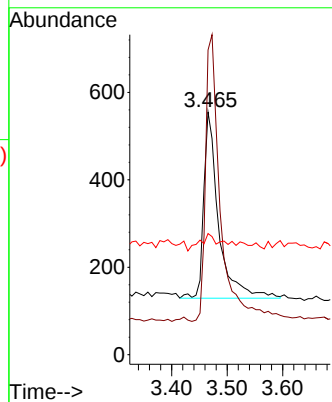
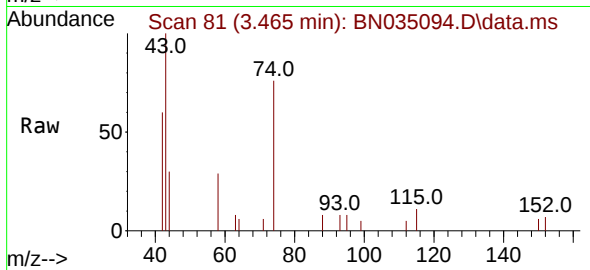




#3
n-Nitrosodimethylamine
Concen: 0.367 ng
RT: 3.465 min Scan# 81
Delta R.T. -0.015 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59

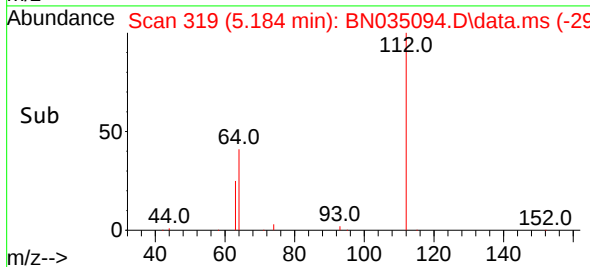
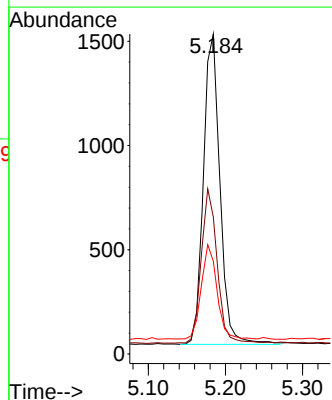
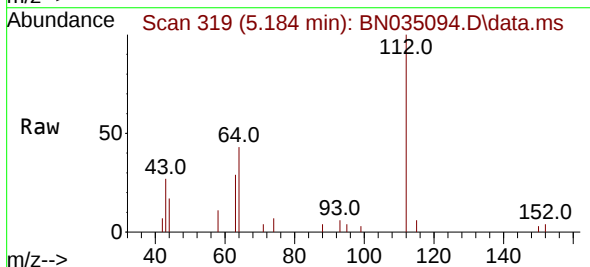
Instrument :
BNA_N
ClientSampleId :
PB164402BS

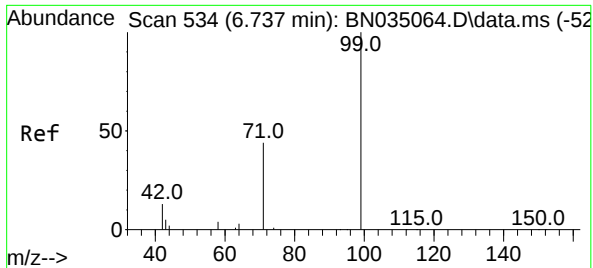
Tgt Ion: 42 Resp: 797
Ion Ratio Lower Upper
42 100
74 156.1 120.8 181.2
44 9.8 2.9 4.3#



#4
2-Fluorophenol
Concen: 0.340 ng
RT: 5.184 min Scan# 319
Delta R.T. 0.007 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59

Tgt Ion: 112 Resp: 2217
Ion Ratio Lower Upper
112 100
64 47.5 39.7 59.5
63 28.6 23.0 34.4

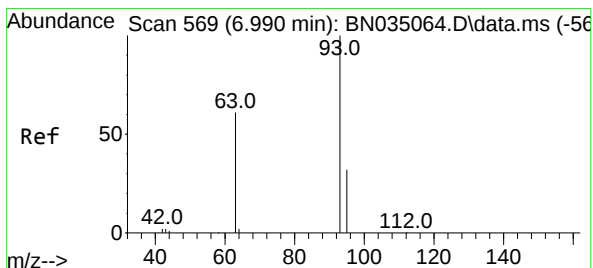
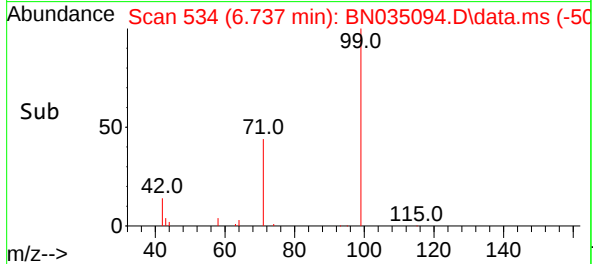
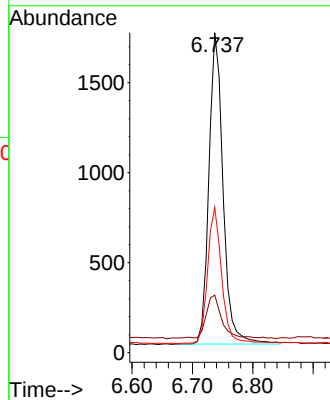
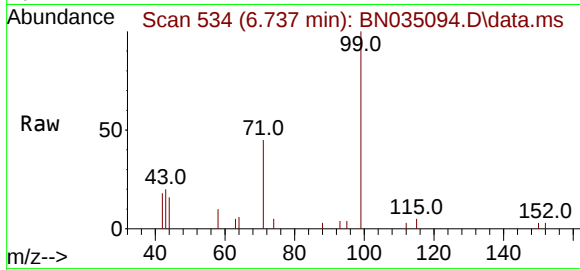




#5
Phenol-d6
Concen: 0.346 ng
RT: 6.737 min Scan# 511
Delta R.T. -0.000 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59

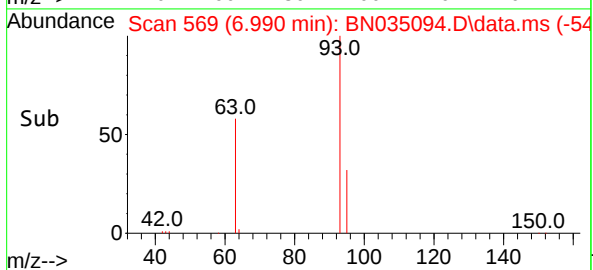
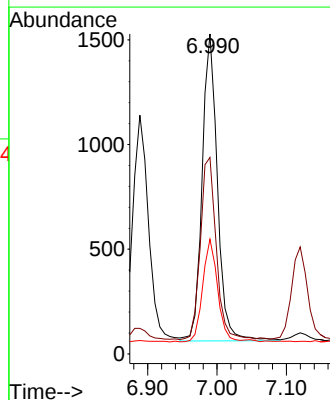
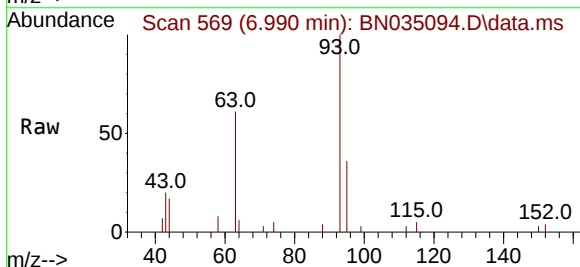
Instrument :
BNA_N
ClientSampleId :
PB164402BS

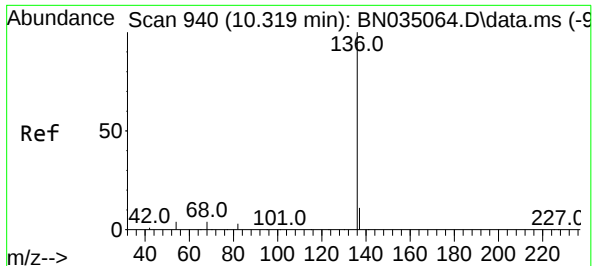
Tgt Ion: 99 Resp: 2828
Ion Ratio Lower Upper
99 100
42 16.3 11.4 17.0
71 43.7 34.6 51.8



#6
bis(2-Chloroethyl)ether
Concen: 0.365 ng
RT: 6.990 min Scan# 569
Delta R.T. -0.000 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59

Tgt Ion: 93 Resp: 2242
Ion Ratio Lower Upper
93 100
63 61.4 47.4 71.2
95 33.3 26.2 39.4

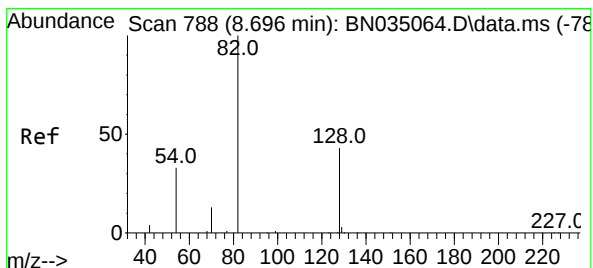
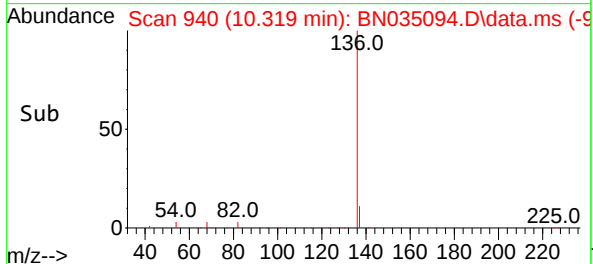
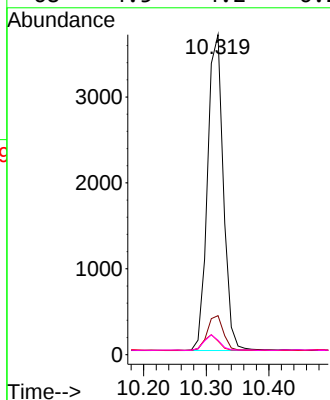
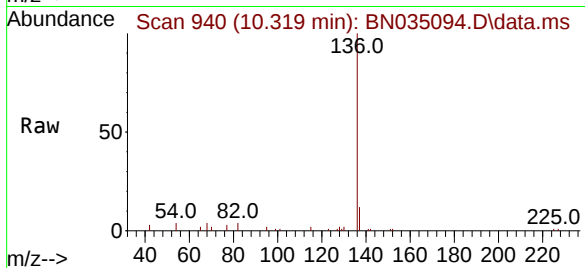




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.319 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59

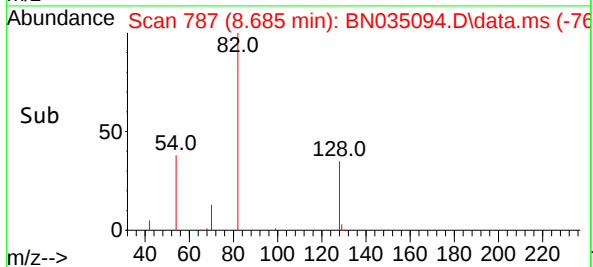
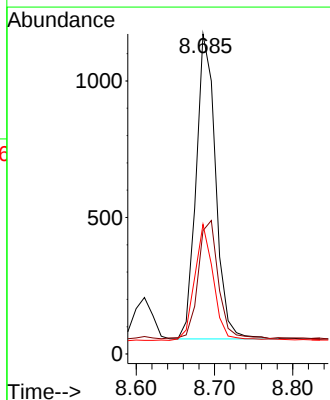
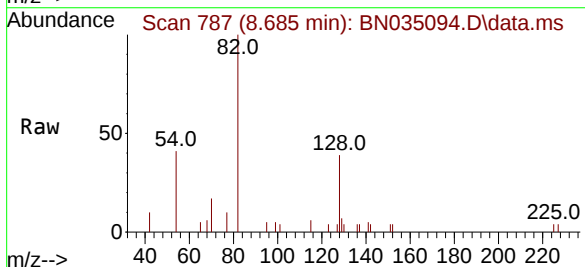
Instrument :
BNA_N
ClientSampleId :
PB164402BS

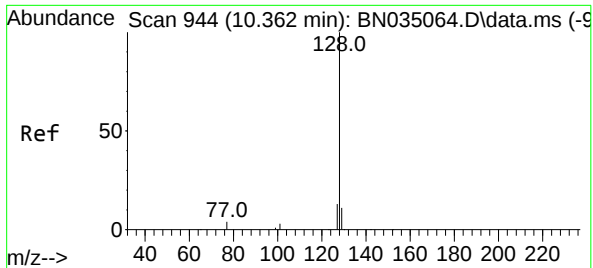
Tgt Ion:	136	Resp:	6459
Ion	Ratio	Lower	Upper
136	100		
137	12.2	9.8	14.8
54	4.3	4.0	6.0
68	4.5	4.2	6.2



#8
Nitrobenzene-d5
Concen: 0.345 ng
RT: 8.685 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59

Tgt Ion:	82	Resp:	1938
Ion	Ratio	Lower	Upper
82	100		
128	38.6	36.5	54.7
54	40.5	28.7	43.1

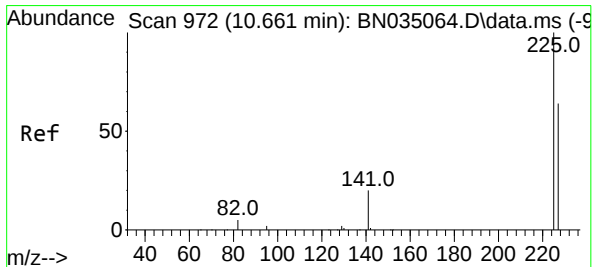
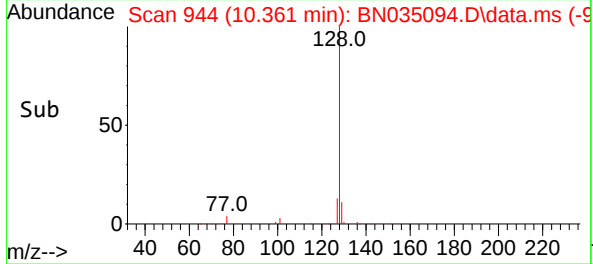
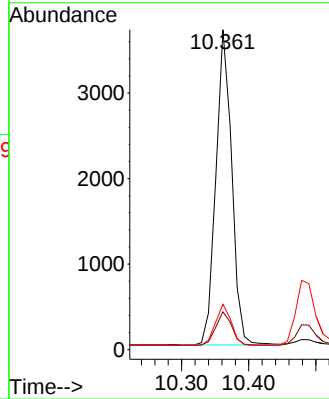
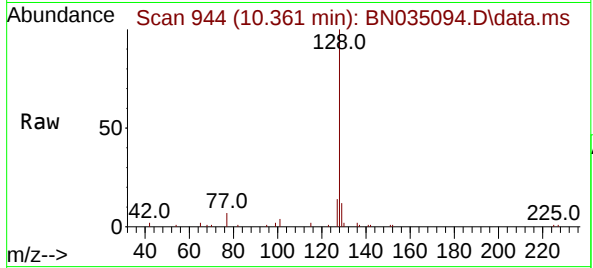




#9
Naphthalene
Concen: 0.359 ng
RT: 10.361 min Scan# 944
Delta R.T. -0.000 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59

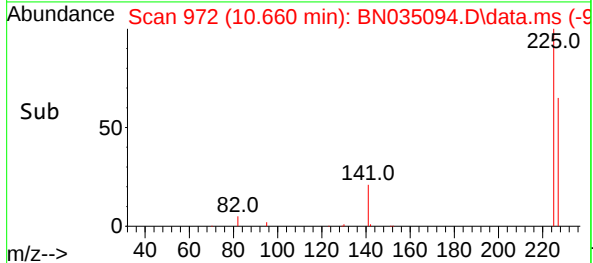
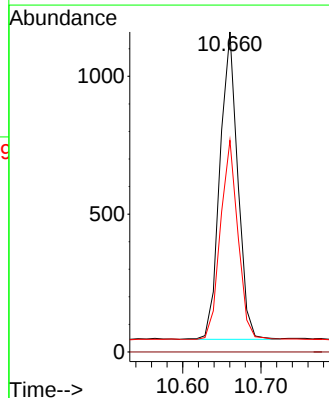
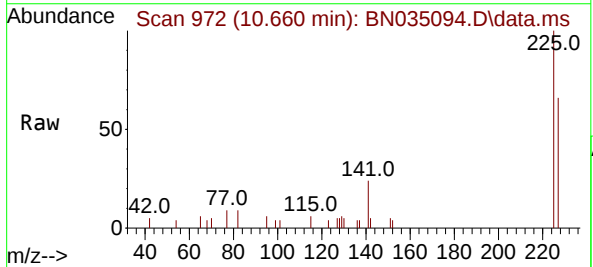
Instrument :
BNA_N
ClientSampleId :
PB164402BS

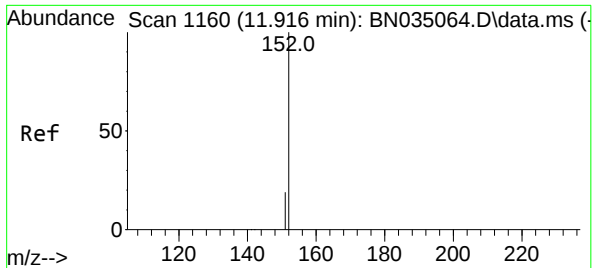
Tgt Ion:	128	Resp:	6050
Ion	Ratio	Lower	Upper
128	100		
129	11.9	9.6	14.4
127	14.2	11.6	17.4



#10
Hexachlorobutadiene
Concen: 0.355 ng
RT: 10.660 min Scan# 972
Delta R.T. -0.000 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59

Tgt Ion:	225	Resp:	1756
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.3	51.5	77.3

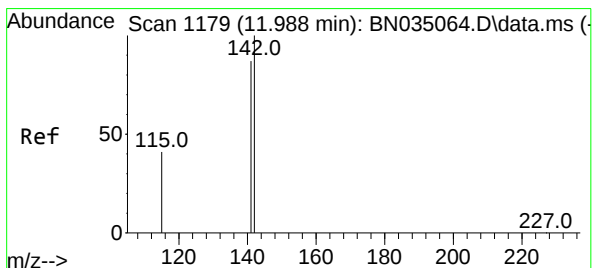
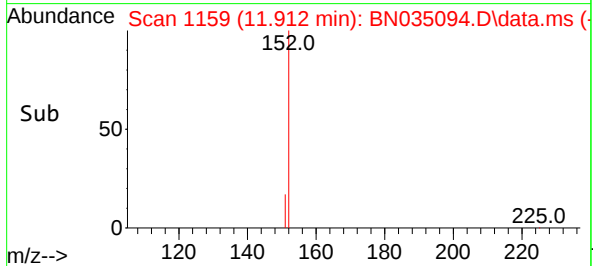
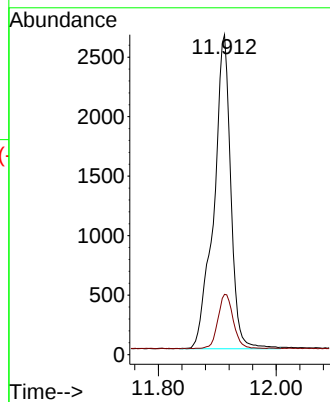
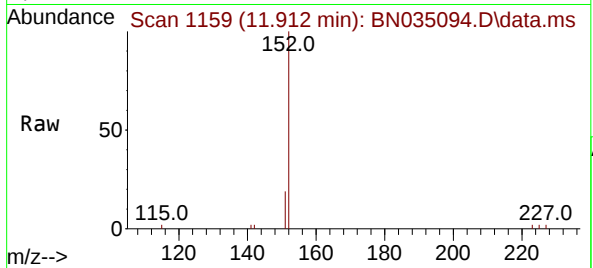




#11
2-Methylnaphthalene-d10
Concen: 0.457 ng
RT: 11.912 min Scan# 1159
Delta R.T. -0.004 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59

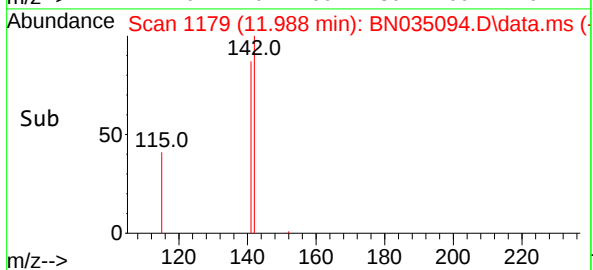
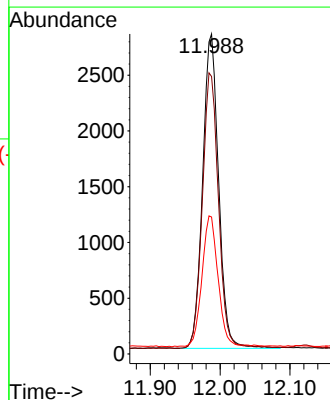
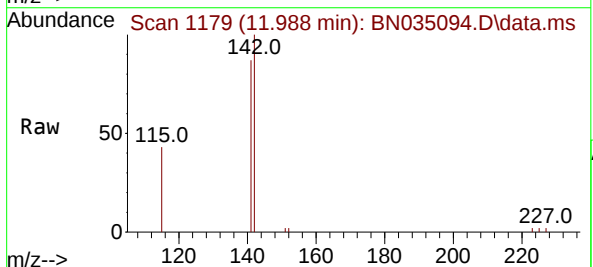
Instrument :
BNA_N
ClientSampleId :
PB164402BS

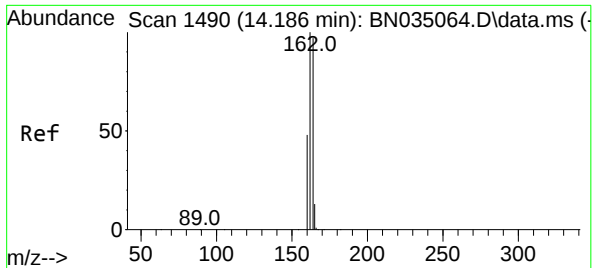
Tgt Ion:152 Resp: 5263
Ion Ratio Lower Upper
152 100
151 16.0 16.2 24.4#



#12
2-Methylnaphthalene
Concen: 0.360 ng
RT: 11.988 min Scan# 1179
Delta R.T. -0.000 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59

Tgt Ion:142 Resp: 4477
Ion Ratio Lower Upper
142 100
141 86.7 70.1 105.1
115 42.8 34.4 51.6

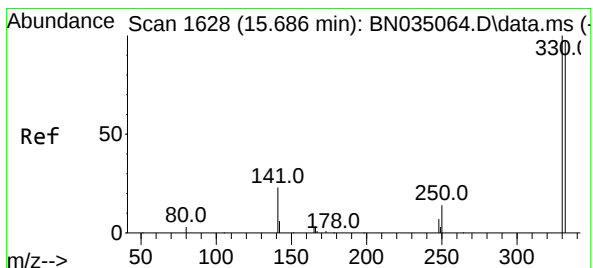
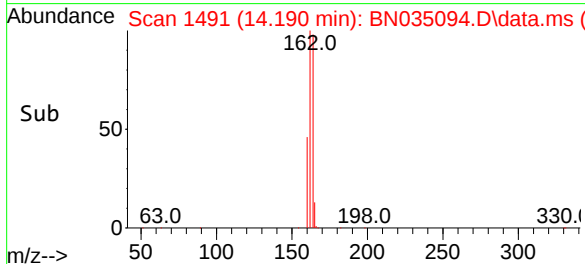
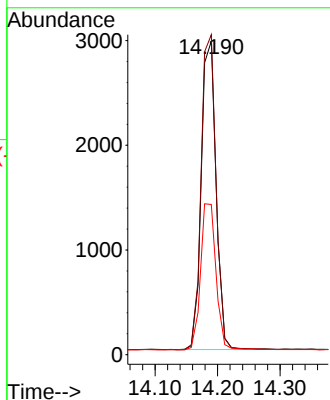
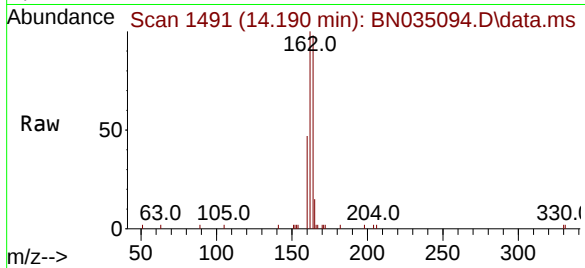




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.190 min Scan# 1491
Delta R.T. 0.004 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59

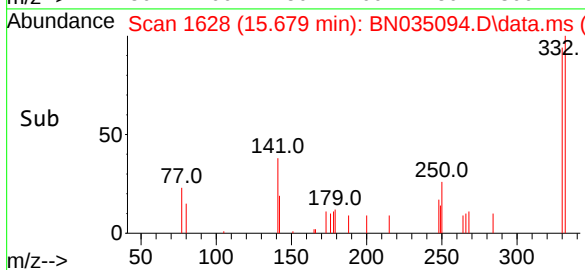
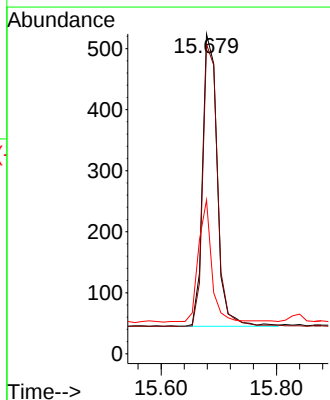
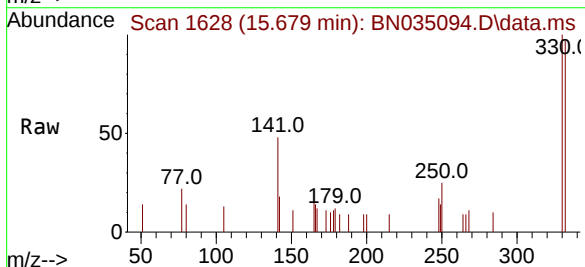
Instrument :
BNA_N
ClientSampleId :
PB164402BS

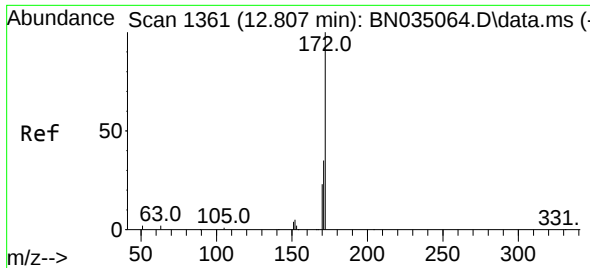
Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.1	82.2	123.2
160	47.9	40.2	60.4



#14
2,4,6-Tribromophenol
Concen: 0.242 ng
RT: 15.679 min Scan# 1628
Delta R.T. -0.007 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59

Tgt Ion	Ratio	Lower	Upper
330	100		
332	97.0	76.9	115.3
141	37.8	29.6	44.4

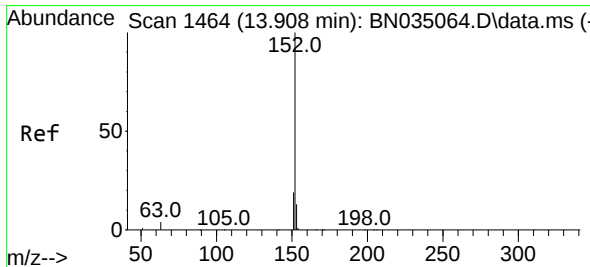
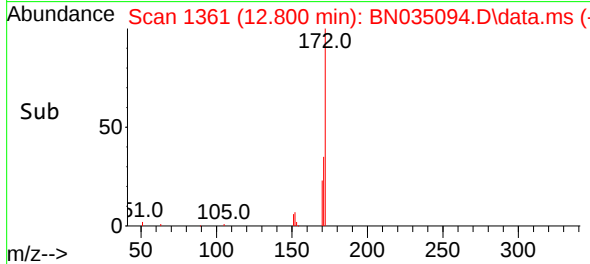
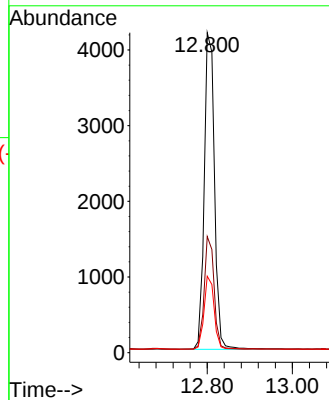
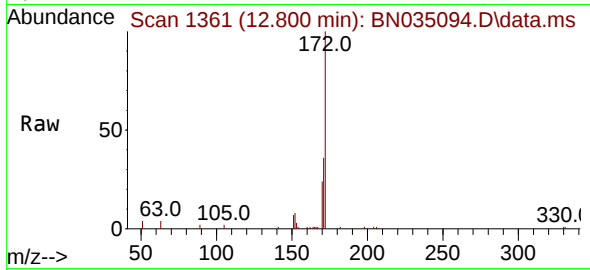




#15
2-Fluorobiphenyl
Concen: 0.355 ng
RT: 12.800 min Scan# 1361
Delta R.T. -0.007 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59

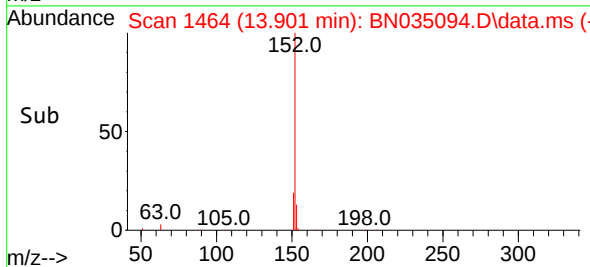
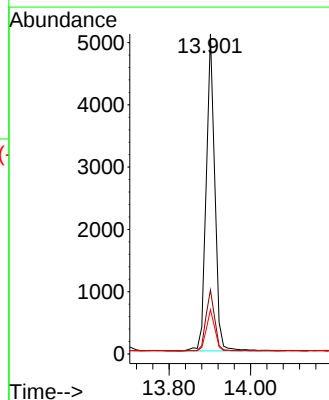
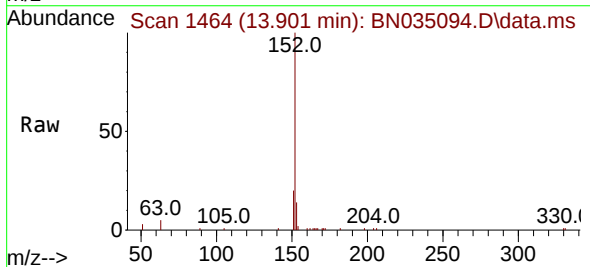
Instrument :
BNA_N
ClientSampleId :
PB164402BS

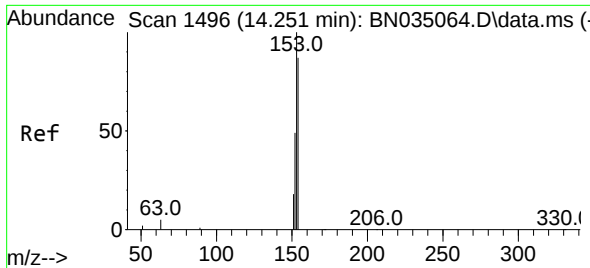
Tgt Ion:	172	Resp:	6986
Ion Ratio	Lower	Upper	
172	100		
171	36.3	28.2	42.4
170	23.9	19.0	28.6



#16
Acenaphthylene
Concen: 0.363 ng
RT: 13.901 min Scan# 1464
Delta R.T. -0.007 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59

Tgt Ion:	152	Resp:	7516
Ion Ratio	Lower	Upper	
152	100		
151	19.5	15.8	23.8
153	13.1	10.2	15.4

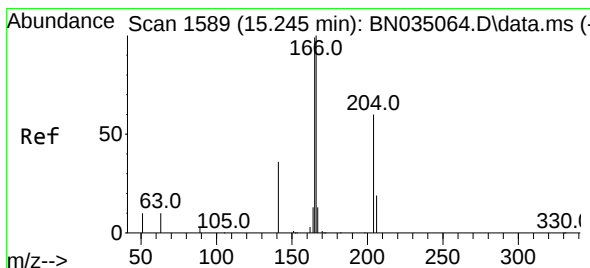
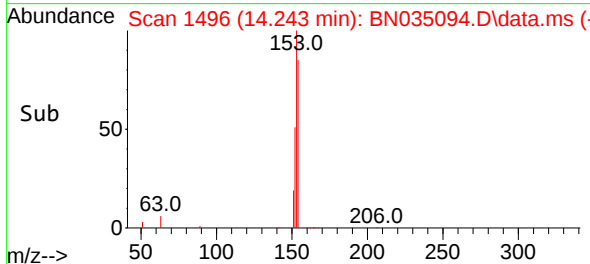
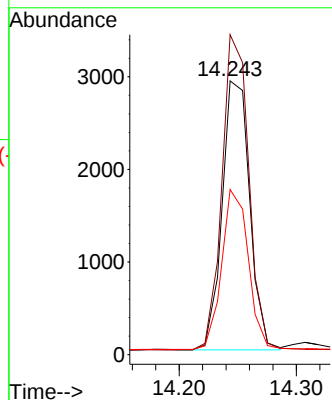
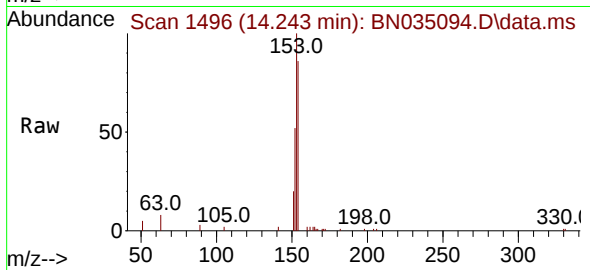




#17
Acenaphthene
Concen: 0.349 ng
RT: 14.243 min Scan# 1496
Delta R.T. -0.007 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59

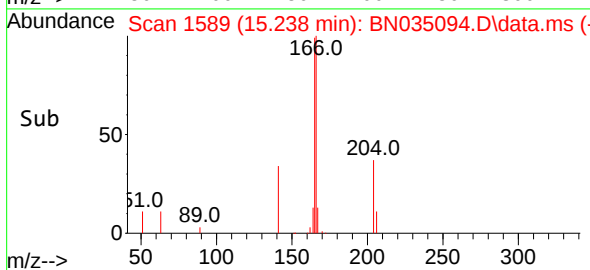
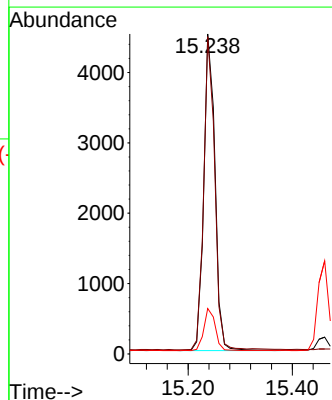
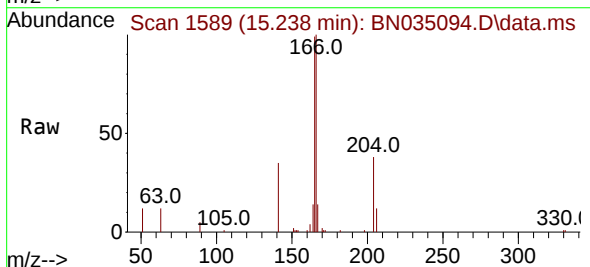
Instrument :
BNA_N
ClientSampleId :
PB164402BS

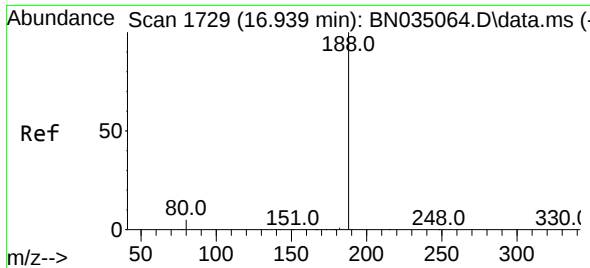
Tgt Ion:154 Resp: 4745
Ion Ratio Lower Upper
154 100
153 114.6 91.6 137.4
152 58.0 45.8 68.6



#18
Fluorene
Concen: 0.337 ng
RT: 15.238 min Scan# 1589
Delta R.T. -0.007 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59

Tgt Ion:166 Resp: 6723
Ion Ratio Lower Upper
166 100
165 97.0 79.1 118.7
167 13.6 10.6 16.0

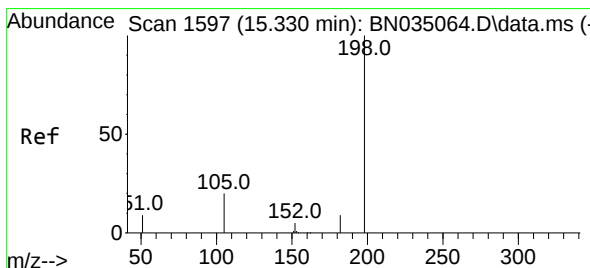
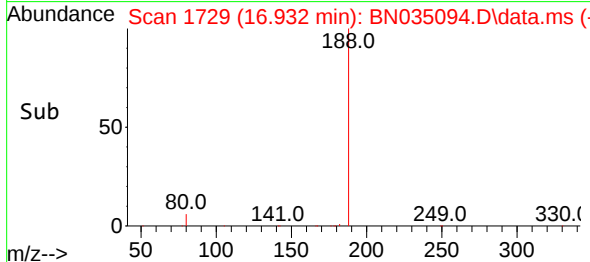
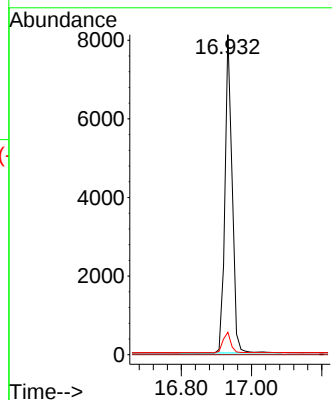
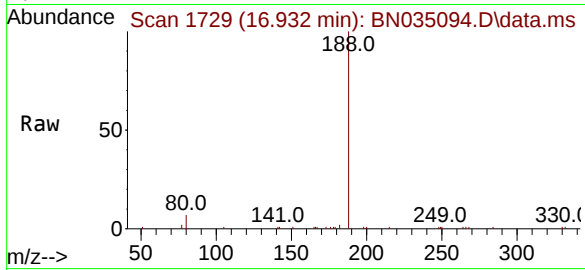




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.932 min Scan# 11
Delta R.T. -0.007 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59

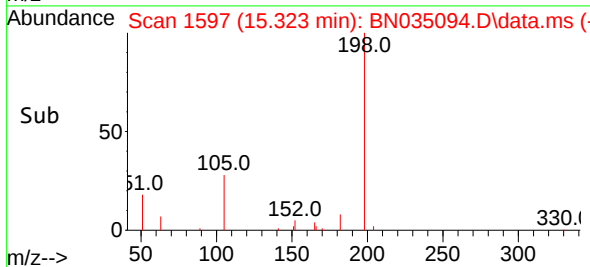
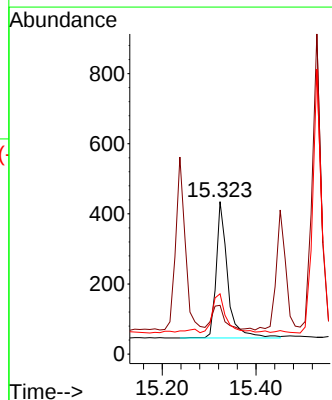
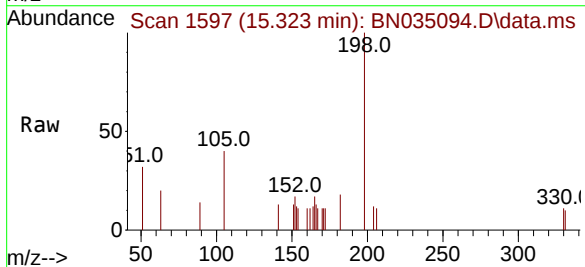
Instrument :
BNA_N
ClientSampleId :
PB164402BS

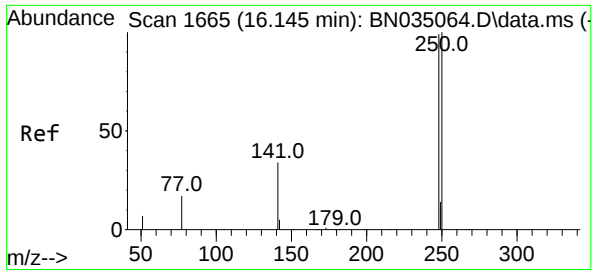
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.0	4.3	6.5#



#20
4,6-Dinitro-2-methylphenol
Concen: 0.274 ng
RT: 15.323 min Scan# 1597
Delta R.T. -0.007 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59

Tgt Ion	Ratio	Lower	Upper
198	100		
51	32.0	29.9	44.9
105	39.5	23.7	35.5#

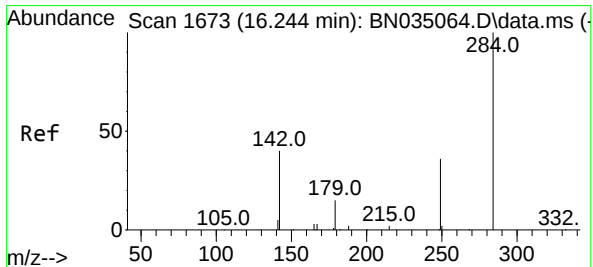
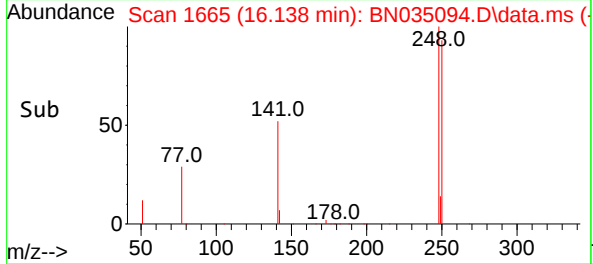
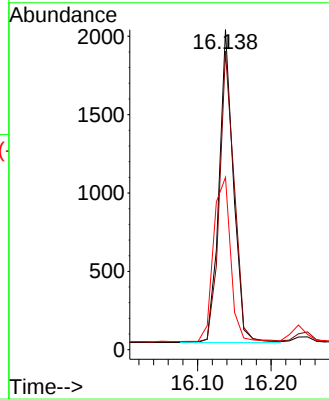
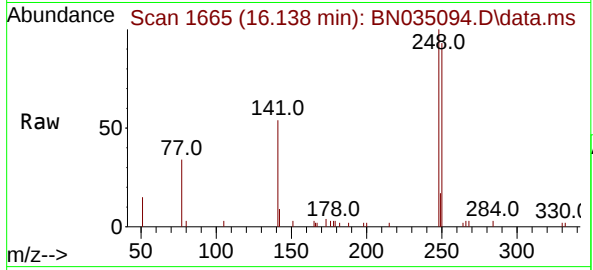




#21
4-Bromophenyl-phenylether
Concen: 0.368 ng
RT: 16.138 min Scan# 1665
Delta R.T. -0.007 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59

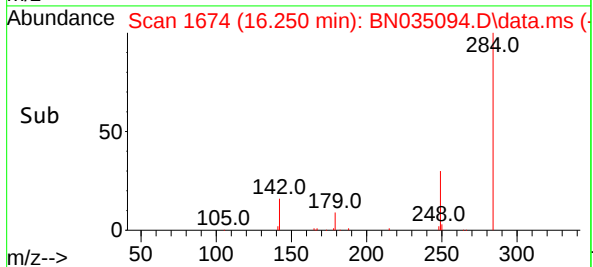
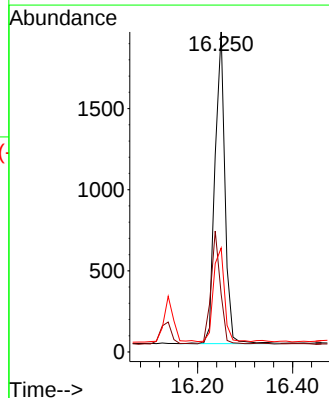
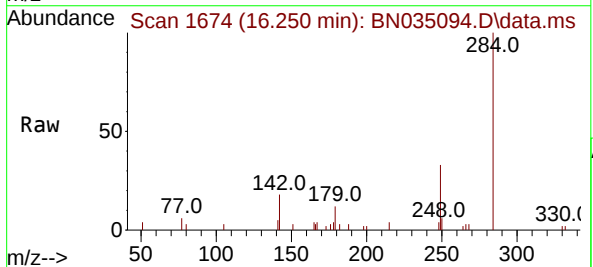
Instrument :
BNA_N
ClientSampleId :
PB164402BS

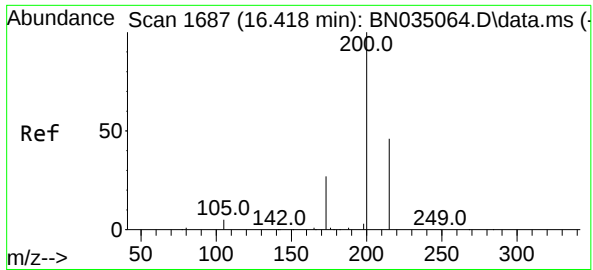
Tgt Ion	Ratio	Lower	Upper
248	100		
250	93.2	81.2	121.8
141	53.9	29.1	43.7



#22
Hexachlorobenzene
Concen: 0.367 ng
RT: 16.250 min Scan# 1674
Delta R.T. 0.005 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59

Tgt Ion	Ratio	Lower	Upper
284	100		
142	34.3	28.2	42.4
249	33.1	26.2	39.2

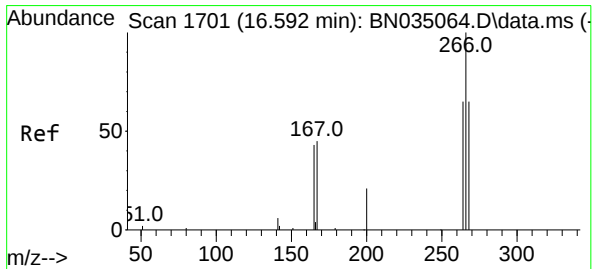
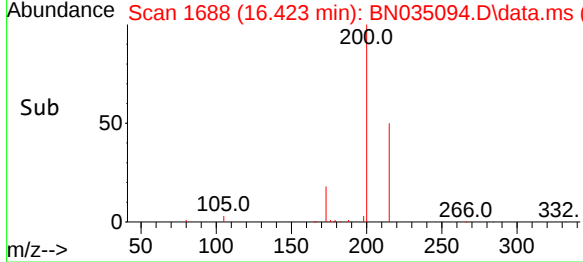
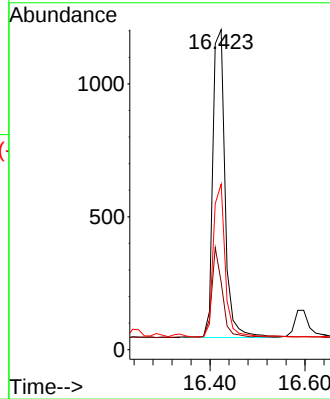
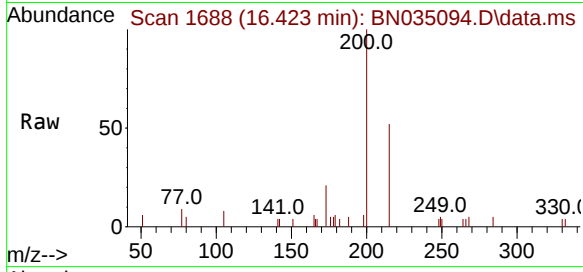




#23
Atrazine
Concen: 0.315 ng
RT: 16.423 min Scan# 1687
Delta R.T. 0.005 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59

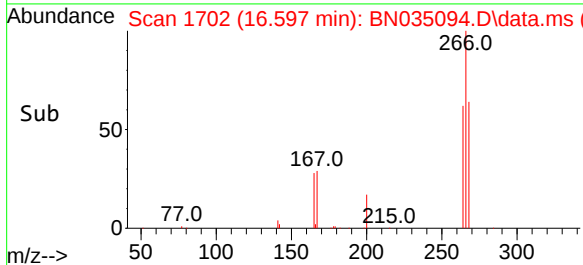
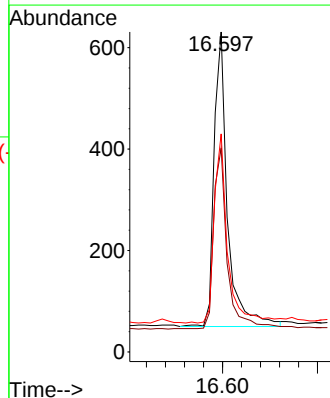
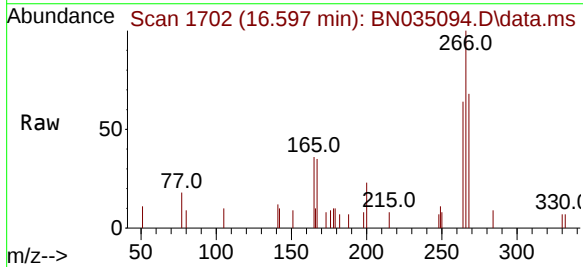
Instrument :
BNA_N
ClientSampleId :
PB164402BS

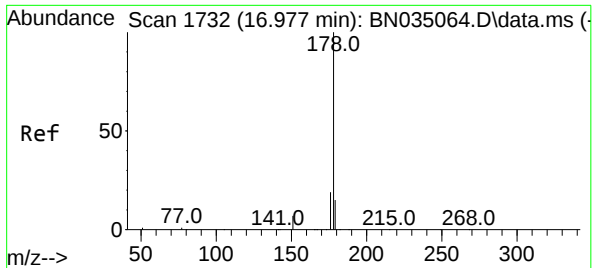
Tgt Ion:200 Resp: 2076
Ion Ratio Lower Upper
200 100
173 21.1 22.6 33.8#
215 51.7 37.8 56.6



#24
Pentachlorophenol
Concen: 0.320 ng
RT: 16.597 min Scan# 1702
Delta R.T. 0.005 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59

Tgt Ion:266 Resp: 1142
Ion Ratio Lower Upper
266 100
264 61.5 49.4 74.0
268 63.2 52.6 79.0

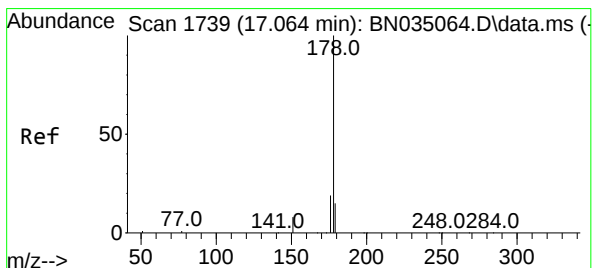
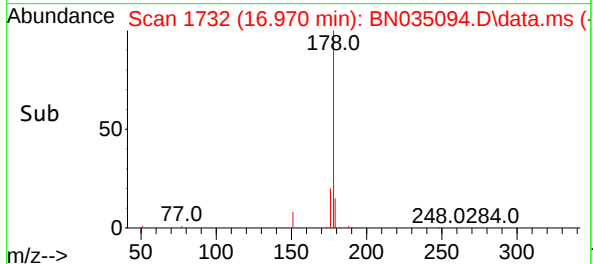
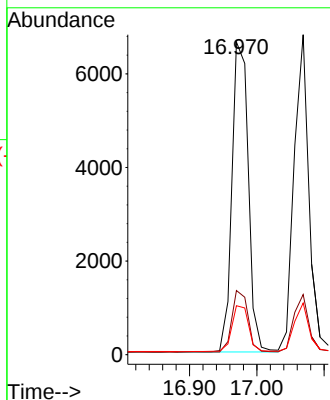
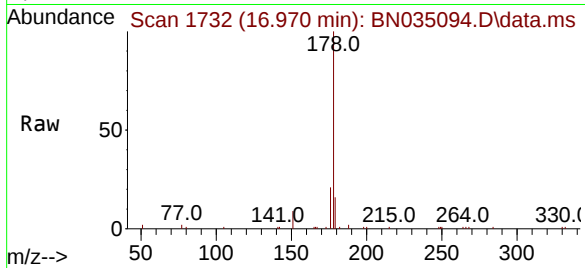




#25
Phenanthrene
Concen: 0.368 ng
RT: 16.970 min Scan# 1740
Delta R.T. -0.007 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59

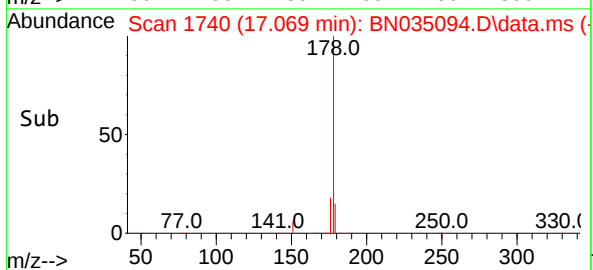
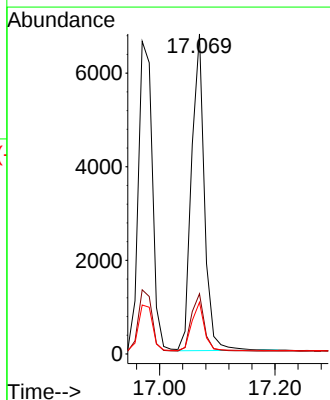
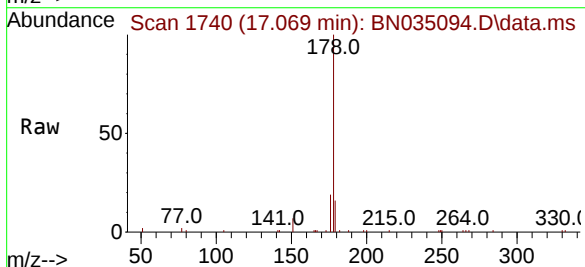
Instrument :
BNA_N
ClientSampleId :
PB164402BS

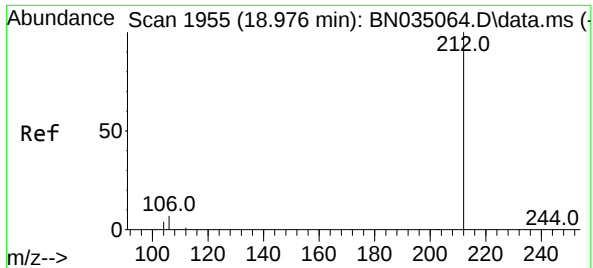
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.2	22.8
179	15.2	12.6	18.8



#26
Anthracene
Concen: 0.376 ng
RT: 17.069 min Scan# 1740
Delta R.T. 0.005 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.3	14.6	22.0
179	14.8	12.2	18.2

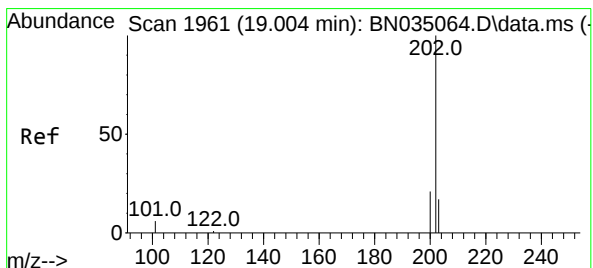
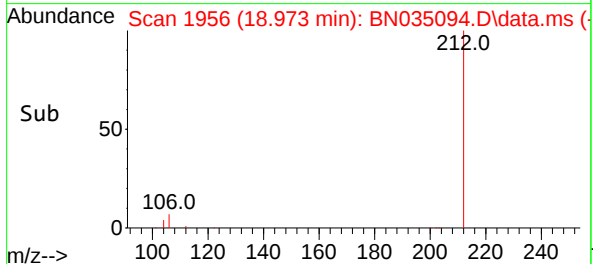
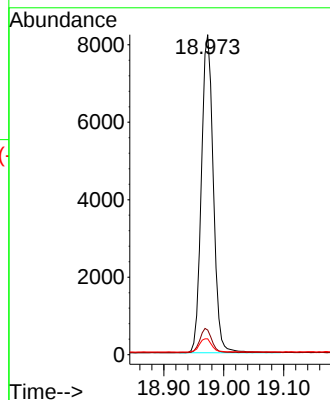
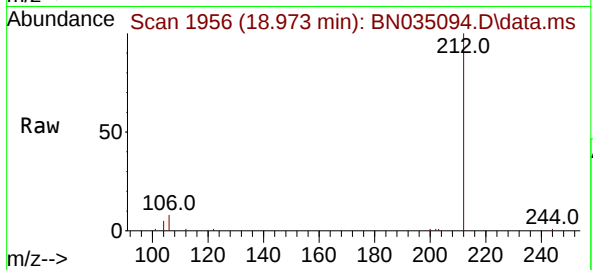




#27
Fluoranthene-d10
Concen: 0.322 ng
RT: 18.973 min Scan# 1955
Delta R.T. -0.002 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59

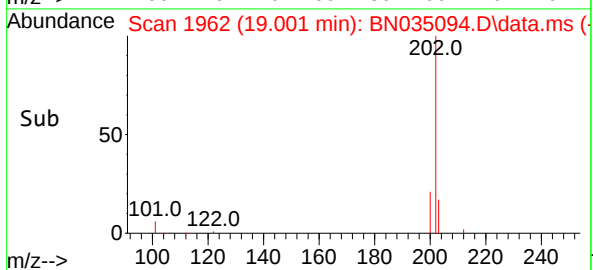
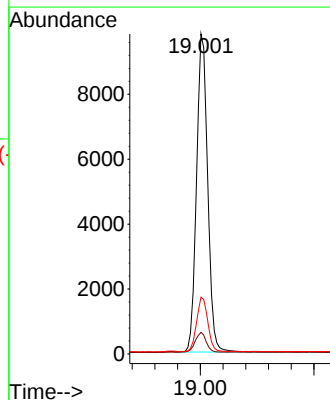
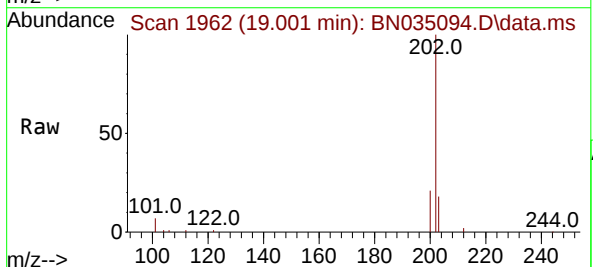
Instrument :
BNA_N
ClientSampleId :
PB164402BS

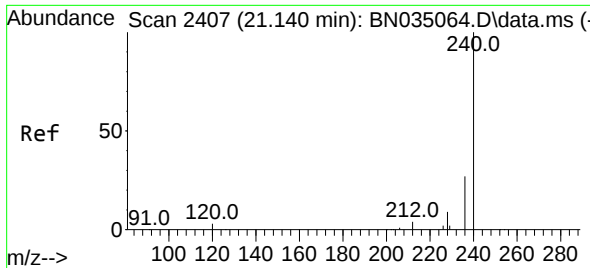
Tgt Ion	Ratio	Lower	Upper
212	100		
106	7.5	6.0	9.0
104	4.3	3.5	5.3



#28
Fluoranthene
Concen: 0.320 ng
RT: 19.001 min Scan# 1962
Delta R.T. -0.002 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59

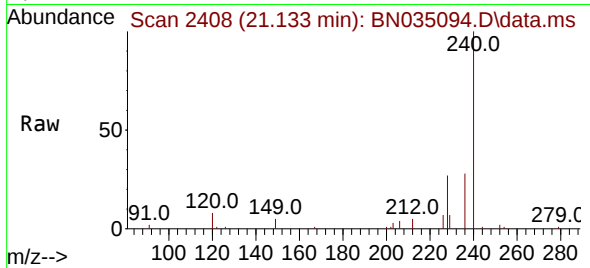
Tgt Ion	Ratio	Lower	Upper
202	100		
101	6.4	5.2	7.8
203	17.1	13.8	20.8



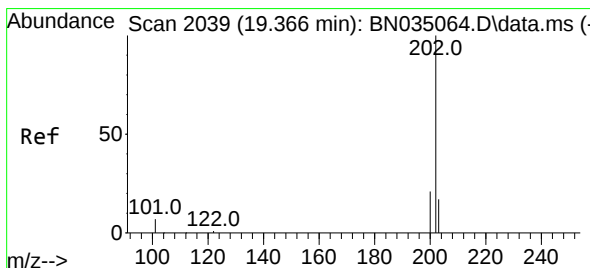
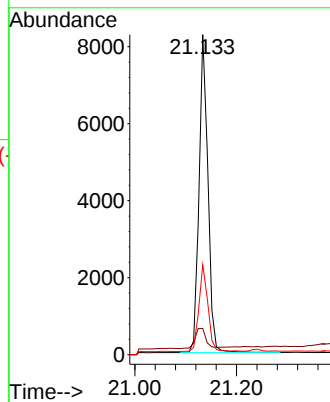
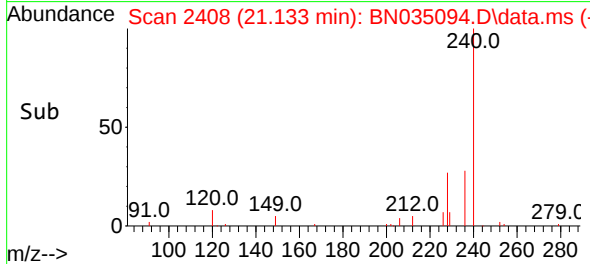


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.133 min Scan# 2408
Delta R.T. -0.007 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59

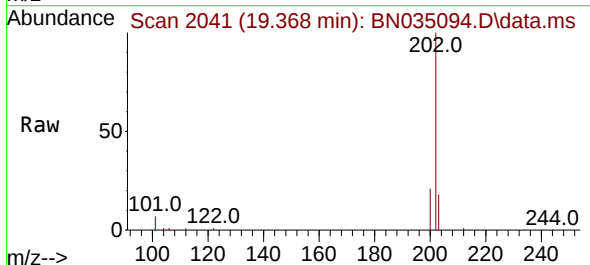
Instrument :
BNA_N
ClientSampleId :
PB164402BS



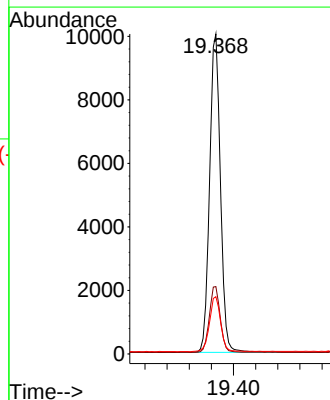
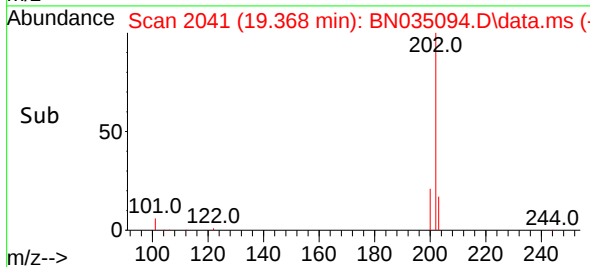
Tgt Ion:240 Resp: 9992
Ion Ratio Lower Upper
240 100
120 8.2 3.8 5.6#
236 28.1 22.2 33.2

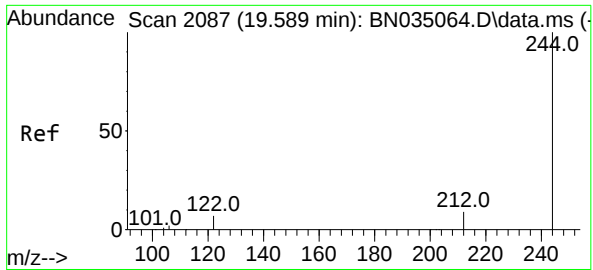


#30
Pyrene
Concen: 0.409 ng
RT: 19.368 min Scan# 2041
Delta R.T. 0.002 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59



Tgt Ion:202 Resp: 13626
Ion Ratio Lower Upper
202 100
200 20.9 16.7 25.1
203 17.9 14.2 21.4

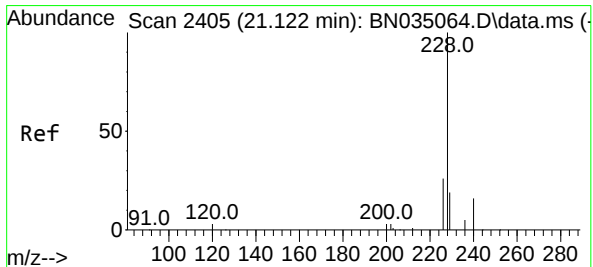
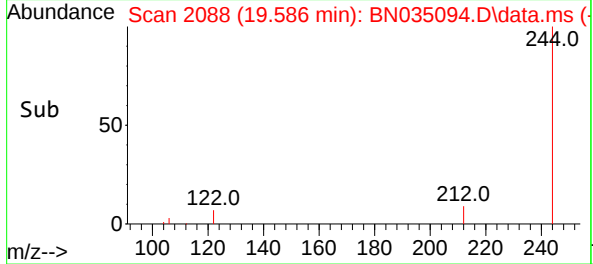
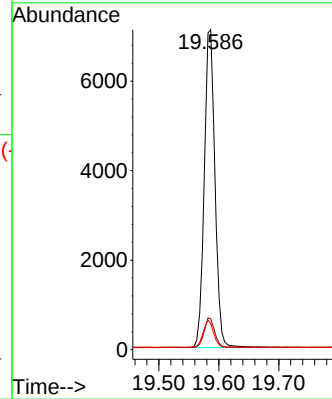
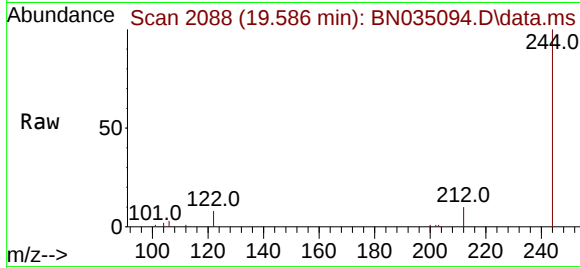




#31
Terphenyl-d14
Concen: 0.421 ng
RT: 19.586 min Scan# 2087
Delta R.T. -0.002 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59

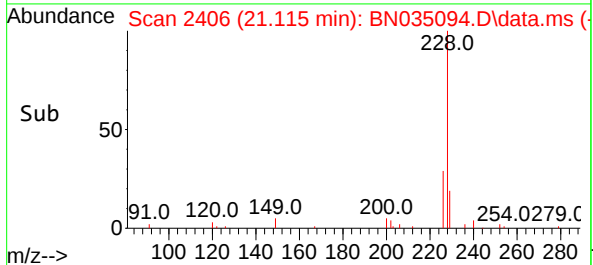
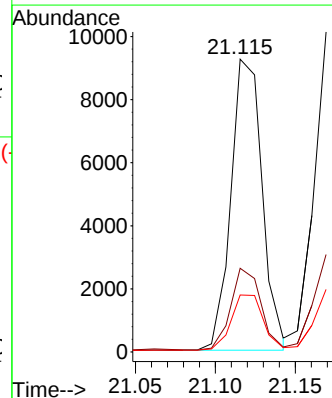
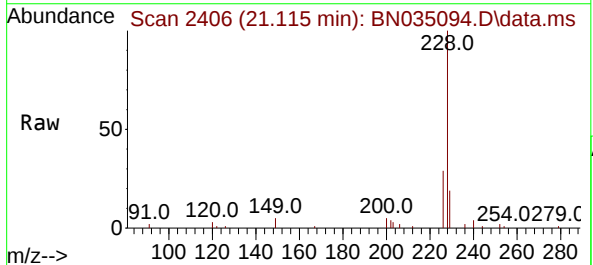
Instrument :
BNA_N
ClientSampleId :
PB164402BS

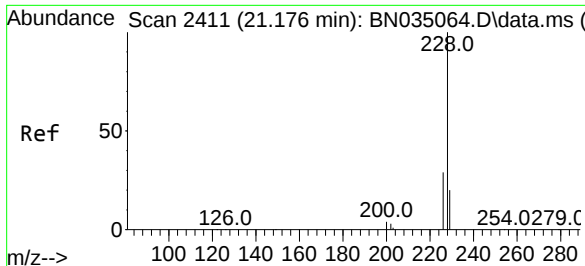
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.7	7.6	11.4
122	8.3	6.1	9.1



#32
Benzo(a)anthracene
Concen: 0.361 ng
RT: 21.115 min Scan# 2406
Delta R.T. -0.007 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.6	21.4	32.0
229	19.4	15.7	23.5





#33

Chrysene

Concen: 0.377 ng

RT: 21.169 min Scan# 2411

Delta R.T. -0.007 min

Lab File: BN035094.D

Acq: 14 Nov 2024 18:59

Instrument :

BNA_N

ClientSampleId :

PB164402BS

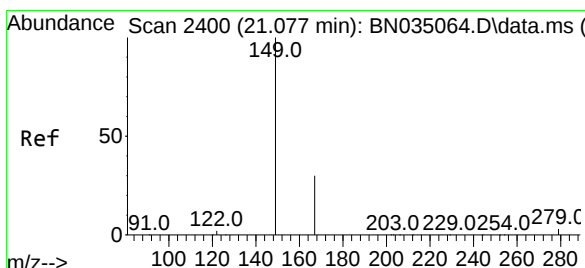
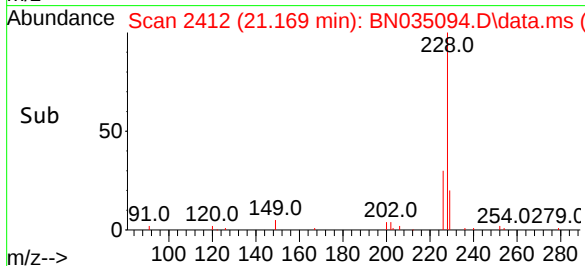
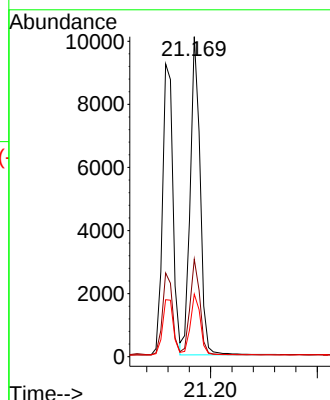
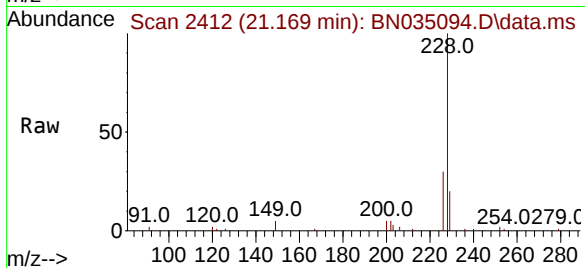
Tgt Ion:228 Resp: 12991

Ion Ratio Lower Upper

228 100

226 30.5 23.7 35.5

229 19.6 16.2 24.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.305 ng

RT: 21.080 min Scan# 2402

Delta R.T. 0.002 min

Lab File: BN035094.D

Acq: 14 Nov 2024 18:59

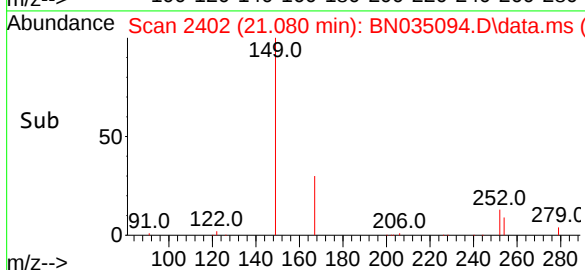
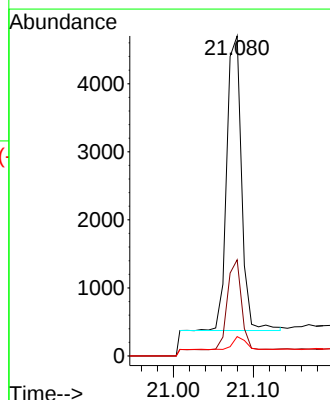
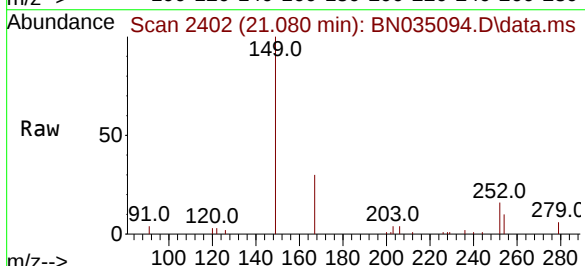
Tgt Ion:149 Resp: 5566

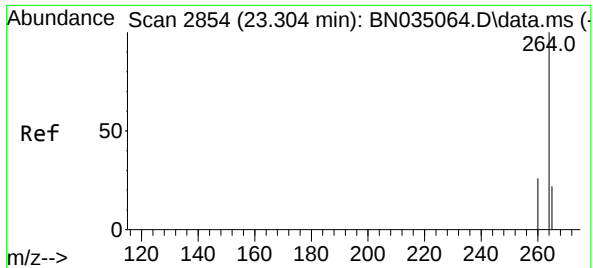
Ion Ratio Lower Upper

149 100

167 28.9 23.2 34.8

279 3.6 3.2 4.8

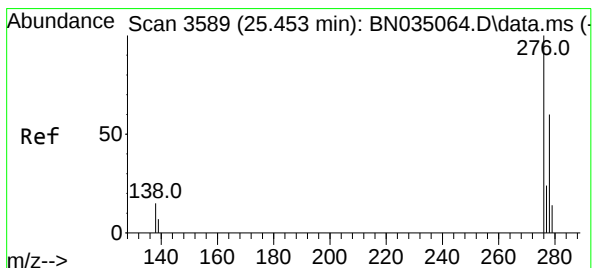
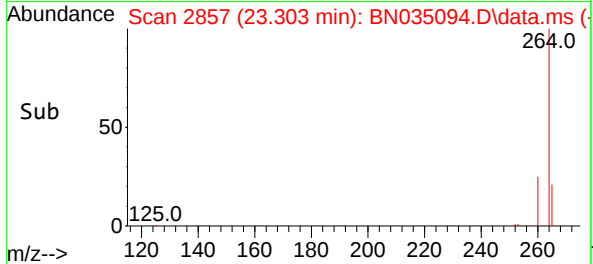
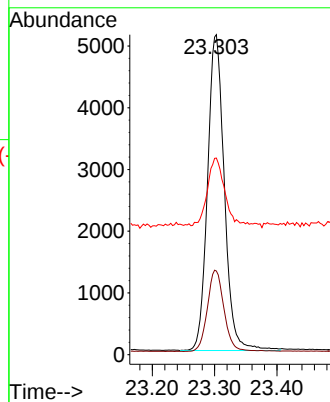
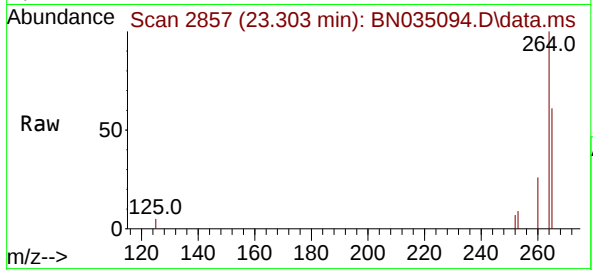




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.303 min Scan# 21
Delta R.T. -0.001 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59

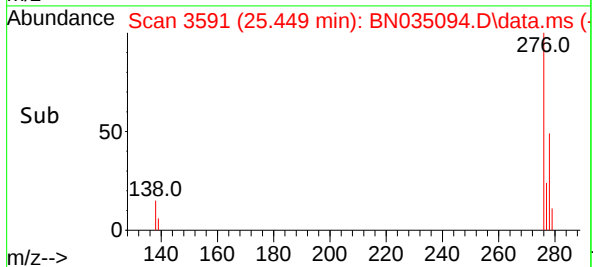
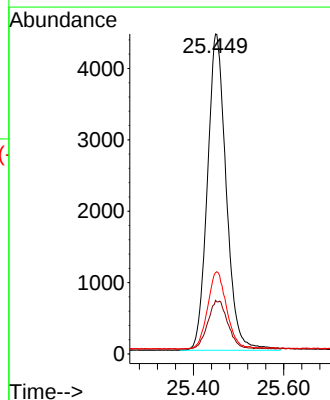
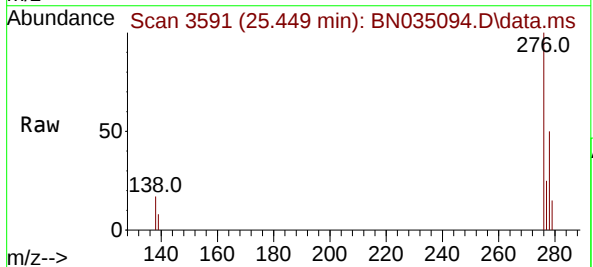
Instrument :
BNA_N
ClientSampleId :
PB164402BS

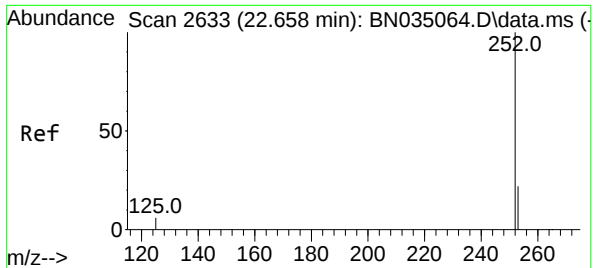
Tgt Ion:264 Resp: 9578
Ion Ratio Lower Upper
264 100
260 26.1 20.9 31.3
265 61.4 35.4 53.2#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.335 ng
RT: 25.449 min Scan# 3591
Delta R.T. -0.004 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59

Tgt Ion:276 Resp: 12815
Ion Ratio Lower Upper
276 100
138 16.5 13.0 19.4
277 24.6 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.391 ng

RT: 22.657 min Scan# 2636

Delta R.T. -0.001 min

Lab File: BN035094.D

Acq: 14 Nov 2024 18:59

Instrument :

BNA_N

ClientSampleId :

PB164402BS

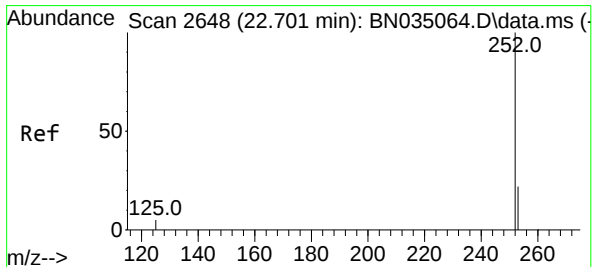
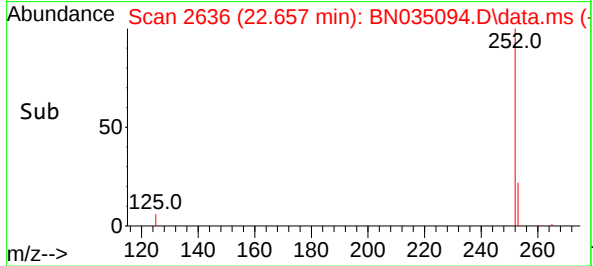
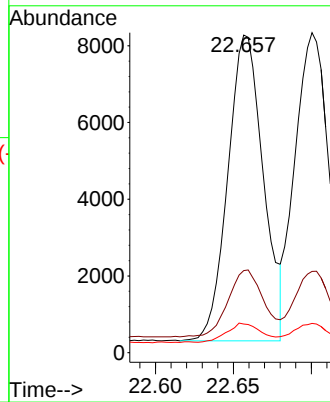
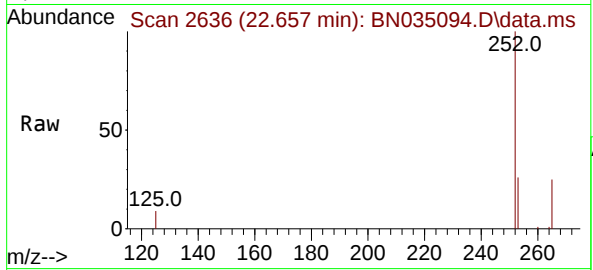
Tgt Ion:252 Resp: 12608

Ion Ratio Lower Upper

252 100

253 25.9 19.3 28.9

125 9.0 6.2 9.2



#38

Benzo(k)fluoranthene

Concen: 0.385 ng

RT: 22.700 min Scan# 2651

Delta R.T. -0.001 min

Lab File: BN035094.D

Acq: 14 Nov 2024 18:59

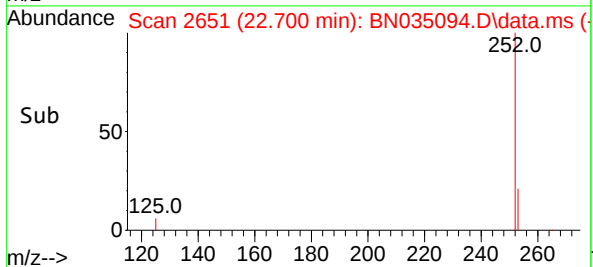
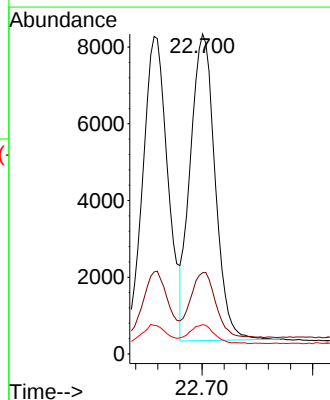
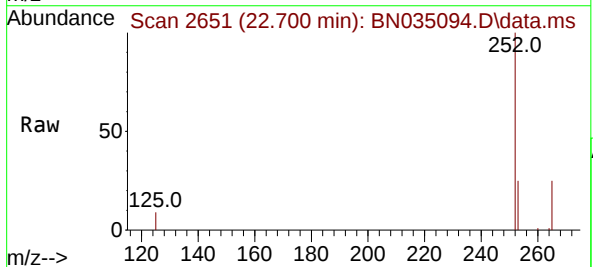
Tgt Ion:252 Resp: 12410

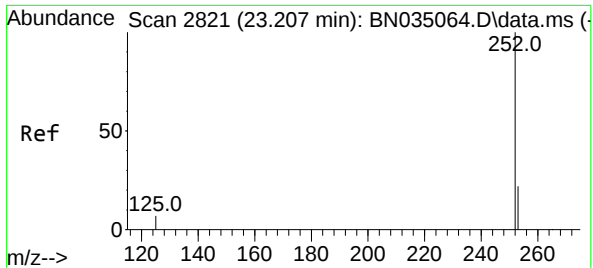
Ion Ratio Lower Upper

252 100

253 25.4 19.5 29.3

125 9.2 6.5 9.7





#39

Benzo(a)pyrene

Concen: 0.389 ng

RT: 23.206 min Scan# 21

Delta R.T. -0.001 min

Lab File: BN035094.D

Acq: 14 Nov 2024 18:59

Instrument :

BNA_N

ClientSampleId :

PB164402BS

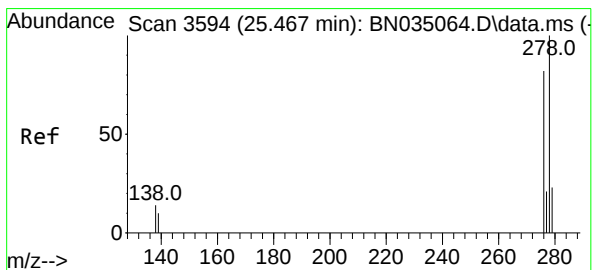
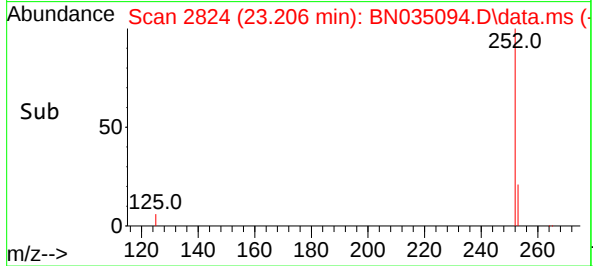
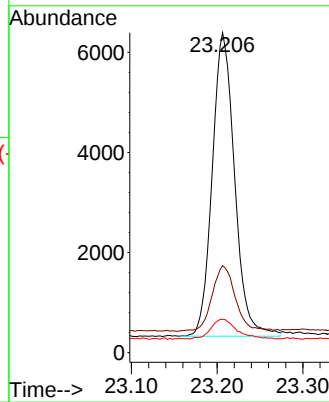
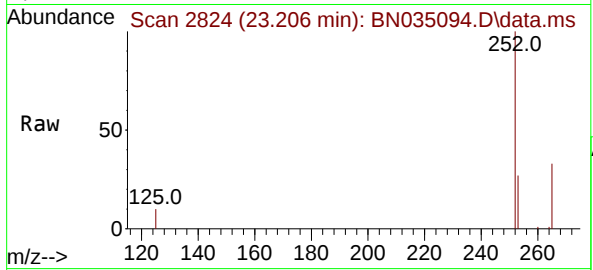
Tgt Ion:252 Resp: 11017

Ion Ratio Lower Upper

252 100

253 27.2 20.1 30.1

125 10.4 7.5 11.3



#40

Dibenzo(a,h)anthracene

Concen: 0.336 ng

RT: 25.466 min Scan# 3597

Delta R.T. -0.001 min

Lab File: BN035094.D

Acq: 14 Nov 2024 18:59

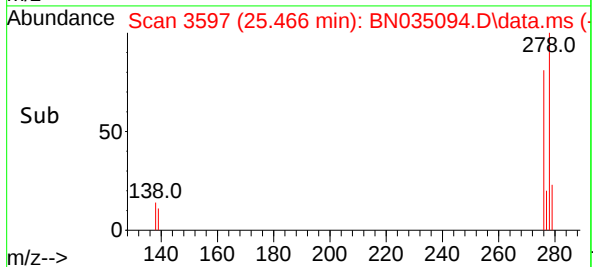
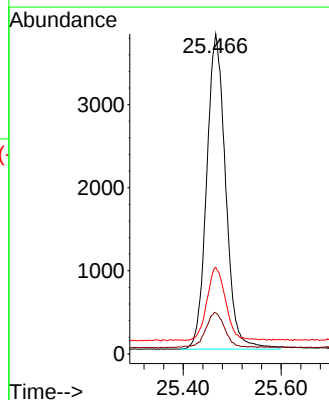
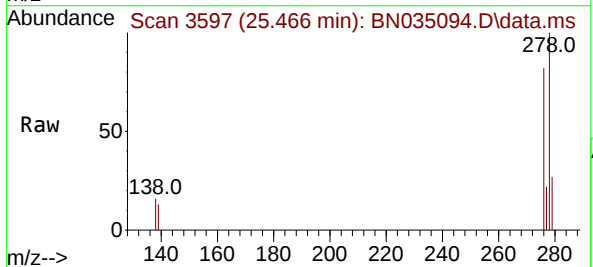
Tgt Ion:278 Resp: 10170

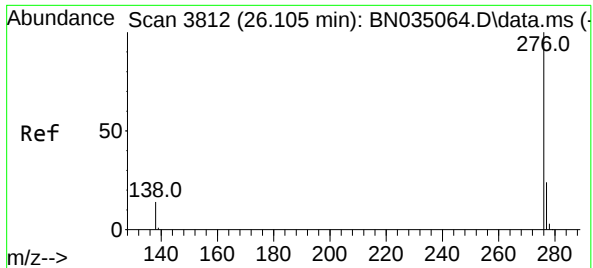
Ion Ratio Lower Upper

278 100

139 12.8 9.3 13.9

279 27.1 19.7 29.5





#41

Benzo(g,h,i)perylene

Concen: 0.300 ng

RT: 26.104 min Scan# 3815

Delta R.T. -0.001 min

Lab File: BN035094.D

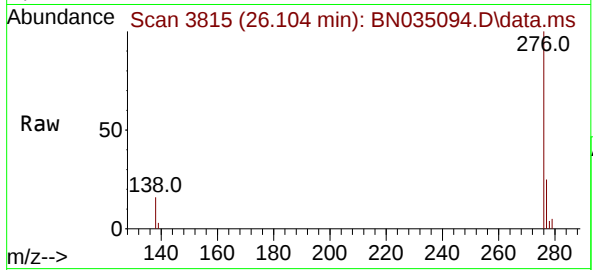
Acq: 14 Nov 2024 18:59

Instrument :

BNA_N

ClientSampleId :

PB164402BS



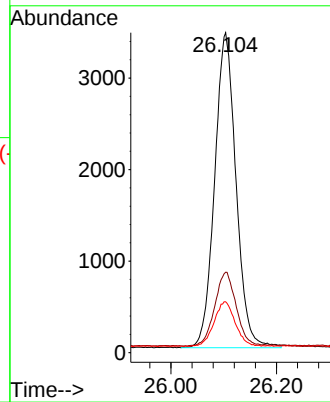
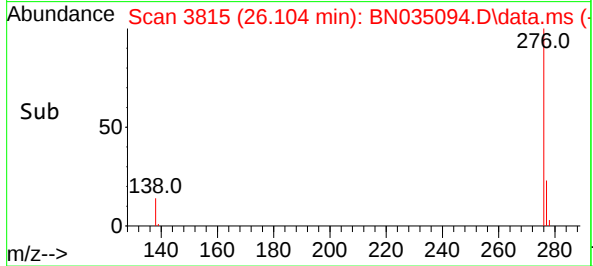
Tgt Ion:276 Resp: 9675

Ion Ratio Lower Upper

276 100

277 25.1 19.9 29.9

138 15.9 11.6 17.4



Manual Integration Report

Sequence:	BN111324	Instrument	BNA_n
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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:	BN111424	Instrument	BNA_n
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
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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 # BN111424

Review By	yogesh	Review On	11/15/2024 5:16:11 AM
Supervise By	mohammad	Supervise On	11/15/2024 5:49:46 AM
SubDirectory	BN111424	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	BN035081.D	14 Nov 2024 08:53	RC/JU	Ok
2	SSTDCCC0.4	BN035082.D	14 Nov 2024 10:12	RC/JU	Ok
3	PB164402BL	BN035083.D	14 Nov 2024 10:48	RC/JU	Ok
4	P4495-11	BN035084.D	14 Nov 2024 11:24	RC/JU	Dilution
5	P4495-11DL	BN035085.D	14 Nov 2024 12:31	RC/JU	Ok
6	P4495-13	BN035086.D	14 Nov 2024 13:22	RC/JU	Dilution
7	P4495-13DL	BN035087.D	14 Nov 2024 14:10	RC/JU	Ok
8	P3845-21	BN035088.D	14 Nov 2024 14:59	RC/JU	Dilution
9	P3845-21DL	BN035089.D	14 Nov 2024 15:58	RC/JU	Ok,M
10	P4774-02RE	BN035090.D	14 Nov 2024 16:35	RC/JU	Confirms
11	P4773-04	BN035091.D	14 Nov 2024 17:11	RC/JU	Ok
12	P4773-03	BN035092.D	14 Nov 2024 17:47	RC/JU	Ok
13	P4773-01DL	BN035093.D	14 Nov 2024 18:23	RC/JU	Ok
14	PB164402BS	BN035094.D	14 Nov 2024 18:59	RC/JU	Ok
15	SSTDCCC0.4	BN035095.D	14 Nov 2024 19:35	RC/JU	Ok

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 # BN111424

Review By	yogesh	Review On	11/15/2024 5:16:11 AM
Supervise By	mohammad	Supervise On	11/15/2024 5:49:46 AM
SubDirectory	BN111424	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	BN035081.D	14 Nov 2024 08:53		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN035082.D	14 Nov 2024 10:12		RC/JU	Ok
3	PB164402BL	PB164402BL	BN035083.D	14 Nov 2024 10:48		RC/JU	Ok
4	P4495-11	PT-BNA-SOIL	BN035084.D	14 Nov 2024 11:24	PT Sample, Need 50X Dilution	RC/JU	Dilution
5	P4495-11DL	PT-BNA-SOILDL	BN035085.D	14 Nov 2024 12:31		RC/JU	Ok
6	P4495-13	PT-PAH-SOIL	BN035086.D	14 Nov 2024 13:22	PT Sample, Need 5X Dilution	RC/JU	Dilution
7	P4495-13DL	PT-PAH-SOILDL	BN035087.D	14 Nov 2024 14:10		RC/JU	Ok
8	P3845-21	RR-PAH-WP	BN035088.D	14 Nov 2024 14:59	PT Sample Analyzed for confirmation, Need 10X Dilution	RC/JU	Dilution
9	P3845-21DL	RR-PAH-WPDL	BN035089.D	14 Nov 2024 15:58	PT Sample Analyzed for confirmation	RC/JU	Ok,M
10	P4774-02RE	VPB190-HYD-2024110	BN035090.D	14 Nov 2024 16:35	Surrogate Fail	RC/JU	Confirms
11	P4773-04	RW7-SP303-20241107	BN035091.D	14 Nov 2024 17:11		RC/JU	Ok
12	P4773-03	RW7-SP302-20241107	BN035092.D	14 Nov 2024 17:47		RC/JU	Ok
13	P4773-01DL	RW7-SP100-20241107	BN035093.D	14 Nov 2024 18:23		RC/JU	Ok
14	PB164402BS	PB164402BS	BN035094.D	14 Nov 2024 18:59		RC/JU	Ok
15	SSTDCCC0.4	SSTDCCC0.4EC	BN035095.D	14 Nov 2024 19:35		RC/JU	Ok

M : Manual Integration

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/25/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 10/23/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:20
Out Date: 10/24/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB133085

Lab ID	Client SampleID	Dish #	Dish Wt (g) (A)	Sample Wt (g)	Dish + Sample Wt (g) (B)	Dish+Dry Sample Wt (g) (C)	% Solid	Comments
P4488-09	HCC-1	1	1.00	1.00	2.00	2.00	100.0	oil sample
P4488-10	HCC-2	2	1.00	1.00	2.00	2.00	100.0	oil sample
P4495-01	PT-AN-SOIL	3	1.00	1.00	2.00	2.00	100.0	
P4495-02	PT-CORR-SOIL	4	1.00	1.00	2.00	2.00	100.0	
P4495-03	PT-CN-SOIL	5	1.00	1.00	2.00	2.00	100.0	
P4495-04	PT-CN-SOIL	6	1.00	1.00	2.00	2.00	100.0	
P4495-05	PT-FP-SOIL	7	1.00	1.00	2.00	2.00	100.0	
P4495-06	PT-CR6-SOIL	8	1.00	1.00	2.00	2.00	100.0	
P4495-07	PT-NUT-SOIL	9	1.00	1.00	2.00	2.00	100.0	
P4495-08	PT-NUT-SOIL	10	1.00	1.00	2.00	2.00	100.0	
P4495-09	PT-OGP-SOIL	11	1.00	1.00	2.00	2.00	100.0	
P4495-10	PT-MET-SOIL	12	1.00	1.00	2.00	2.00	100.0	
P4495-11	PT-BNA-SOIL	13	1.00	1.00	2.00	2.00	100.0	
P4495-12	PT-TRIAZINE-SOIL	14	1.00	1.00	2.00	2.00	100.0	
P4495-13	PT-PAH-SOIL	15	1.00	1.00	2.00	2.00	100.0	
P4495-14	PT-DIES-SOIL	16	1.00	1.00	2.00	2.00	100.0	
P4495-15	PT-GAS-SOIL	17	1.00	1.00	2.00	2.00	100.0	
P4495-16	PT-NJEPH-SOIL	18	1.00	1.00	2.00	2.00	100.0	
P4495-17	PT-HERB-SOIL	19	1.00	1.00	2.00	2.00	100.0	
P4495-18	PT-PCB-SOIL	20	1.00	1.00	2.00	2.00	100.0	
P4495-19	PT-PCBO-SOIL	21	1.00	1.00	2.00	2.00	100.0	
P4495-20	PT-PEST-SOIL	22	1.00	1.00	2.00	2.00	100.0	
P4495-21	PT-CHLR-SOIL	23	1.00	1.00	2.00	2.00	100.0	
P4495-22	PT-TXP-SOIL	24	1.00	1.00	2.00	2.00	100.0	
P4495-23	PT-VOA-SOIL	25	1.00	1.00	2.00	2.00	100.0	
P4495-24	PT-SOL-SOIL	26	0.92	8.80	9.72	7.58	75.7	
P4495-25	PT-NO2-SOIL	27	1.00	1.00	2.00	2.00	100.0	
P4508-01	TP-3	28	1.14	8.38	9.52	8.64	89.5	

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/25/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 10/23/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:20
Out Date: 10/24/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB133085

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
P4508-02	TP-3-EPH	29	1.15	8.81	9.96	9.22	91.6	
P4508-03	TP-3-VOC	30	1.15	8.66	9.81	8.88	89.3	
P4508-05	BP-F23	31	1.15	8.82	9.97	9.22	91.5	
P4508-06	BP-F23-EPH	32	1.14	8.83	9.97	9.29	92.3	
P4508-07	BP-F23-VOC	33	1.15	8.40	9.55	8.61	88.8	
P4508-09	BP-F22	34	1.18	8.78	9.96	9.15	90.8	
P4508-10	BP-F22-EPH	35	1.15	8.70	9.85	8.98	90.0	
P4508-11	BP-F22-VOC	36	1.16	8.60	9.76	8.68	87.4	
P4509-02	AU-06-10232024	37	1.12	8.82	9.94	9.44	94.3	
P4510-01	FDH119M-1-1	38	1.00	1.00	2.00	2.00	100.0	oilc
P4510-02	FDH119M-1-2	39	1.00	1.00	2.00	2.00	100.0	oilc
P4510-03	BC271327-1-1	40	1.00	1.00	2.00	2.00	100.0	oilc
P4510-04	BC271327-1-2	41	1.00	1.00	2.00	2.00	100.0	oilc
P4510-05	BC271327-2-1	42	1.00	1.00	2.00	2.00	100.0	oilc
P4510-06	BC271327-2-2	43	1.00	1.00	2.00	2.00	100.0	oilc
P4510-07	FDA886K-1-1	44	1.00	1.00	2.00	2.00	100.0	oilc
P4510-08	FDA886K-1-2	45	1.00	1.00	2.00	2.00	100.0	oilc
P4510-09	FDA886K-2-1	46	1.00	1.00	2.00	2.00	100.0	oilc
P4510-10	FDA886K-2-2	47	1.00	1.00	2.00	2.00	100.0	oilc
P4510-11	HID111K-1-1	48	1.00	1.00	2.00	2.00	100.0	oilc
P4510-12	HID111K-1-2	49	1.00	1.00	2.00	2.00	100.0	oilc
P4510-13	HID111K-2-1	50	1.00	1.00	2.00	2.00	100.0	oilc
P4510-14	HID111K-2-2	51	1.00	1.00	2.00	2.00	100.0	oilc
P4510-15	HID111K-3-1	52	1.00	1.00	2.00	2.00	100.0	oilc
P4510-16	HID111K-3-2	53	1.00	1.00	2.00	2.00	100.0	oilc
P4510-17	FDA563W-1-1	54	1.00	1.00	2.00	2.00	100.0	oilc
P4510-18	FDA563W-1-2	55	1.00	1.00	2.00	2.00	100.0	oilc
P4510-19	FDA563W-2-1	56	1.00	1.00	2.00	2.00	100.0	oilc

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/25/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 10/23/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:20
Out Date: 10/24/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB133085

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
P4510-20	FDA563W-2-2	57	1.00	1.00	2.00	2.00	100.0	oilc
P4510-21	JEC128C-1-1	58	1.00	1.00	2.00	2.00	100.0	oilc
P4510-22	JEC128C-1-2	59	1.00	1.00	2.00	2.00	100.0	oilc
P4510-23	JEC128C-2-1	60	1.00	1.00	2.00	2.00	100.0	oilc
P4510-24	JEC128C-2-2	61	1.00	1.00	2.00	2.00	100.0	oilc
P4511-02	267	62	1.00	1.00	2.00	2.00	100.0	debris
P4512-03	VNJ-212	63	1.15	8.81	9.96	9.66	96.6	
P4512-04	VNJ-212-E2	64	1.16	8.48	9.64	9.39	97.1	
P4513-01	D3683	65	1.00	1.00	2.00	2.00	100.0	oil sample
P4513-02	D3694	66	1.00	1.00	2.00	2.00	100.0	debris
P4513-03	D3695	67	1.00	1.00	2.00	2.00	100.0	debris
P4514-01	BC274653-1-1	68	1.00	1.00	2.00	2.00	100.0	oilc
P4514-02	BC274653-1-2	69	1.00	1.00	2.00	2.00	100.0	oilc
P4514-03	BC274767-1-1	70	1.00	1.00	2.00	2.00	100.0	oilc
P4514-04	BC274767-1-2	71	1.00	1.00	2.00	2.00	100.0	oilc
P4514-05	BC274767-2-1	72	1.00	1.00	2.00	2.00	100.0	oilc
P4514-06	BC274767-2-2	73	1.00	1.00	2.00	2.00	100.0	oilc
P4515-01	CHVB0783	74	1.15	8.83	9.98	5.28	46.8	
P4516-01	72-11986	75	1.12	8.67	9.79	8.93	90.1	
P4517-01	NASSAU-ST-CO	76	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
P4517-03	S.JEFFERSON-CO-1	77	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
P4517-05	S.JEFFERSON-CO-2	78	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
P4517-07	FOREST-ST-CO	79	1.00	1.00	2.00	2.00	100.0	CONCRETE sample

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

WorkList Name : %1-102324

WorkList ID : 184679

Department : Wet-Chemistry

Date : 10-23-2024 08:16:39

133085

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4488-09	HCC-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/22/2024	Chemtech -SO
P4488-10	HCC-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/22/2024	Chemtech -SO
P4495-01	PT-AN-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-02	PT-CORR-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-03	PT-CN-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-04	PT-CN-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-05	PT-FP-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-06	PT-CR6-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-07	PT-NUT-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-08	PT-NUT-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-09	PT-OGH-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-10	PT-MET-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-11	PT-BNA-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-12	PT-TRIAZINE-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-13	PT-PAH-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-14	PT-DIES-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-15	PT-GAS-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-16	PT-NJEPH-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-17	PT-HERB-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-18	PT-PCB-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-19	PT-PCBO-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO

Date/Time 10/23/24 16:00

Raw Sample Received by: JH WCI

Raw Sample Relinquished by: JH WCI

Date/Time 10/23/24

Raw Sample Received by: JH WCI

Raw Sample Relinquished by: JH WCI

17:30

WORKLIST(Hardcopy Internal Chain)

WorkList Name : %1-102324

WorkList ID : 184679

Department : Wet-Chemistry

Date : 10-23-2024 08:16:39

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4495-20	PT-PEST-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-21	PT-CHLR-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-22	PT-TXP-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-23	PT-VOA-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-24	PT-SOL-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-25	PT-NO2-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4508-01	TP-3	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/23/2024	Chemtech -SO
P4508-02	TP-3-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/23/2024	Chemtech -SO
P4508-03	TP-3-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/23/2024	Chemtech -SO
P4508-05	BP-F23	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/23/2024	Chemtech -SO
P4508-06	BP-F23-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/23/2024	Chemtech -SO
P4508-07	BP-F23-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/23/2024	Chemtech -SO
P4508-09	BP-F22	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/23/2024	Chemtech -SO
P4508-10	BP-F22-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/23/2024	Chemtech -SO
P4508-11	BP-F22-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/23/2024	Chemtech -SO
P4509-02	AU-06-10232024	Solid	Percent Solids	Cool 4 deg C	PSEG05	K61	10/23/2024	Chemtech -SO
P4510-01	FDH119M-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-02	FDH119M-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-03	BC271327-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-04	BC271327-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-05	BC271327-2-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO

Date/Time

10/23/24 16:00

Raw Sample Received by:

JP WWC

Raw Sample Relinquished by:

JP WWC

Date/Time

10/23/24

Raw Sample Received by:

JP WWC

Raw Sample Relinquished by:

Page 2 of 4

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

WORKLIST(Hardcopy Internal Chain)

133085

WorkList Name : %1-102324

WorkList ID : 184679

Department : Wet-Chemistry

Date : 10-23-2024 08:16:39

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4510-06	BC271327-2-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-07	FDA886K-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-08	FDA886K-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-09	FDA886K-2-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-10	FDA886K-2-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-11	HID111K-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-12	HID111K-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-13	HID111K-2-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-14	HID111K-2-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-15	HID111K-3-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-16	HID111K-3-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-17	FDA563W-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-18	FDA563W-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-19	FDA563W-2-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-20	FDA563W-2-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-21	JEC128C-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-22	JEC128C-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-23	JEC128C-2-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-24	JEC128C-2-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4511-02	267	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4512-03	VNJ-212	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO

Date/Time

10/23/24 16:00

Raw Sample Received by:

JP WWC

Raw Sample Relinquished by:

CP

Date/Time

10/23/24

Raw Sample Received by:

CP

Raw Sample Relinquished by:

JP WWC

W 133085

WORKLIST(Hardcopy Internal Chain)

WorkList Name : %1-102324 WorkList ID : 184679 Department : Wet-Chemistry Date : 10-23-2024 08:16:39

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4512-04	VNJ-212-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4513-01	D3683	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4513-02	D3694	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4513-03	D3695	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4514-01	BC274653-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K31	10/23/2024	Chemtech -SO
P4514-02	BC274653-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K31	10/23/2024	Chemtech -SO
P4514-03	BC274767-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K31	10/23/2024	Chemtech -SO
P4514-04	BC274767-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K31	10/23/2024	Chemtech -SO
P4514-05	BC274767-2-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K31	10/23/2024	Chemtech -SO
P4514-06	BC274767-2-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K31	10/23/2024	Chemtech -SO
P4515-01	CHVB0783	Solid	Percent Solids	Cool 4 deg C	PSEG03	K62	10/23/2024	Chemtech -SO
P4516-01	72-11986	Solid	Percent Solids	Cool 4 deg C	PSEG03	K62	10/23/2024	Chemtech -SO
P4517-01	NASSAU-ST-CO	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4517-03	S.JEFFERSON-CO-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4517-05	S.JEFFERSON-CO-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4517-07	FOREST-ST-CO	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO

Date/Time 10/23/24 16:00
 Raw Sample Received by: JH WLC
 Raw Sample Relinquished by: CP SMC

SOP ID:	M3541-ASE Extraction-14		
Clean Up SOP #:	N/A	Extraction Start Date :	10/25/2024
Matrix :	Solid	Extraction Start Time :	09:50
Weigh By:	EH	Extraction By:	RJ
Balance check:	RJ	Filter By:	RJ
Balance ID:	EX-SC-2	pH Meter ID:	N/A
pH Strip Lot#:	N/A	Hood ID:	3,7
Extraction Method:	☐ Separatory Funnel ☐ Continuous Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☒ Soxhlet		
		Extraction End Date :	10/25/2024
		Extraction End Time :	12:50
		Concentration By:	RS
		Supervisor By :	rajesh

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Surrogate	1.0ML	0.4 PPM	SP6636
Spike Sol 1	1.0ML	0.4 PPM	SP6606
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
MeCl2/Acetone/1:1	N/A	EP2538
Baked Na2SO4	N/A	EP2551
Sand	N/A	E2865
Methylene Chloride	N/A	E3822
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:

1.5ML Vial Lot # 2210673. P4495-11 ,Use from P164401.

KD Bath ID:	N/A	Envap ID:	NE VAP-02
KD Bath Temperature:	N/A	Envap Temperature:	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/25/24	RP (Ext. Locs)	RLSunc
12:55	Preparation Group	Analysis Group

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 10/25/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164402BL	SBLK402	SVOCMS Group2	30.02	N/A	RUPESH	ritesh	1			U5-1
PB164402BS	SLCS402	SVOCMS Group2	30.03	N/A	RUPESH	ritesh	1			2
P4495-11	PT-BNA-SOIL	SVOCMS Group2	30.07	N/A	RUPESH	ritesh	1			3
P4495-13	PT-PAH-SOIL	SVOCMS Group3	30.00	N/A	RUPESH	ritesh	1			4

* Extracts relinquished on the same date as received.



WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4495M WorkList ID : 184771 Department : Extraction Date : 10-25-2024 09:18:20

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4495-11	PT-BNA-SOIL	Solid	SVOCMS Group2	Cool 4 deg C	CHEM02	QA Of	10/21/2024	8270-Modified
P4495-13	PT-PAH-SOIL	Solid	SVOCMS Group3	Cool 4 deg C	CHEM02	QA Of	10/21/2024	8270-Modified

Date/Time 10/20/2024 9:45
Raw Sample Received by: DJ (Ct 104)
Raw Sample Relinquished by: AP gm

Date/Time 10/21/2024 10:10
Raw Sample Received by: AP gm
Raw Sample Relinquished by: DJ (Ct 104)

- 1
- 2
- 3
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- 6
- 7
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- 9
- 10
- 11
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- 14
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- 16
- 17
- 18

Prep Standard - Chemical Standard Summary

Order ID : P4495
Test : SVOCMS Group3
Prepbatch ID : PB164402,
Sequence ID/Qc Batch ID: BN111424,BN111424,

Standard ID :
EP2538,EP2551,SP6527,SP6547,SP6548,SP6573,SP6596,SP6597,SP6598,SP6599,SP6600,SP6601,SP6602,SP6603,SP6606,SP6636,

Chemical ID :
E2865,E3551,E3746,E3759,E3768,E3786,E3788,E3793,E3794,E3822,S10103,S10247,S10782,S10977,S 11003,S11011,S11097,S11494,S11566,S11766,S11771,S12029,S12077,S12096,S12105,S12112,S12113,S12117,S12126,S12453,

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>
3868	METHELENE CHLORIDE+ACETONE	EP2538	09/17/2024	03/11/2025	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 09/17/2024

FROM 8000.00000ml of E3793 + 8000.00000ml of E3794 = Final Quantity: 1600.000 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	EP2551	10/18/2024	01/03/2025	Rajesh Parikh	Extraction_SC ALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 10/18/2024

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3493	Internal Standard 0.4 PPM	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
								07/08/2024

FROM 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

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3356	8270-SIM MDL-0.4PPM CALIBRATION SOL ICV-2ND	SP6548	07/08/2024	11/21/2024	Jagrut Upadhyay	None	None	mohammad ahmed
SOURCE FROM 0.87500ml of E3746 + 0.01000ml of SP6527 + 0.12500ml of SP6547 = Final Quantity: 1.010 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3895	50 ug/ml DFTTP 8270E	SP6573	07/15/2024	01/08/2025	Rahul Chavli	None	None	Yogesh Patel
FROM 1.00000ml of S10247 + 19.00000ml of E3768 = Final Quantity: 20.000 ml								

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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

<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

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3341	8270-SIM MDL-3.2PPM CALIBRATION SOLUTION	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

<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

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3342	8270-SIM MDL-0.8PPM CALIBRATION SOLUTION	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

<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

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3345	8270-SIM MDL-0.2PPM CALIBRATION SOLUTION	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

<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

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3492	8270-SIM-Spike 0.4 PPM	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

<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	SP6636	10/04/2024	11/21/2024	Jagrut Upadhyay	None	None	mohammad ahmed
10/18/2024								

FROM 0.00400ml of S10977 + 0.00800ml of S11003 + 0.02000ml of S10782 + 99.96800ml of E3788 = Final Quantity: 100.000 ml

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3382-05 / Sand, Purified (cs/4x2.5kg)	0000243821	12/31/2024	04/30/2020 / RAJESH	04/28/2020 / RAJESH	E2865

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	313201	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 #
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	9005-05 / Acetone Ultra (cs/4x4L)	24E0761004	03/11/2025	09/12/2024 / Rajesh	09/11/2024 / Rajesh	E3793

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	03/17/2025	09/17/2024 / Rajesh	09/03/2024 / Rajesh	E3794

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)	24I2662006	04/23/2025	10/24/2024 / Rajesh	10/24/2024 / Rajesh	E3822

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-112090-04 / CLP Acid Surrogate Solution, 7500 mg/L, 1ml	440246	02/08/2025	08/08/2024 / Jagrut	12/09/2021 / Christian	S10103

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31615 / SV Mixture, GC/MS Tuning Mixture, CH2Cl2, 1mL,	A0182667	01/15/2025	07/15/2024 / Rahul	03/18/2022 / Christian	S10247

CHEMICAL RECEIPT LOG BOOK

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

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

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]	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	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 #
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]

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at \$85 per ampul if requested - contact ARM with Request]	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

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, CH2Cl2 [New Solvent 100% CH2Cl2]	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, CH2Cl2 [New Solvent 100% CH2Cl2]	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	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]



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

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Receivalon
02/07/23 by CG

Sheet 511096
to
511099

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 4

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110381-01	495831	≤ -10 °C	Methylene Chloride	10/30/2027	Method 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
acenaphthene	83-32-9	99.9	13.1.5P	1003 ± 17.27
acenaphthylene	208-96-8	97.6	14.290.1P	999.8 ± 17.22
aniline	62-53-3	99.9	64.7.1P	995 ± 17.13
anthracene	120-12-7	99.5	15.7.1P	1001 ± 17.24
azobenzene	103-33-3	98.1	252.7.2P	999.1 ± 17.21
benzo[a]anthracene	56-55-3	100	16.7.3P	1001 ± 17.24
benzo[b]fluoranthene	205-99-2	99.8	17.421.3P	1001 ± 19.91
benzo[k]fluoranthene	207-08-9	98.9	18.421.4P	1001 ± 17.92
benzo[ghi]perylene	191-24-2	93	19.286.4P	999.6 ± 19.88
benzo[a]pyrene	50-32-8	97	20.286.2P	999.1 ± 26.35
benzyl alcohol	100-51-6	99.9	65.18.1P	1001 ± 17.24
bis(2-chloroethoxy)methane	111-91-1	99.1	31.3.15P	999.7 ± 17.89
bis(2-chloroethyl)ether	111-44-4	99.8	32.7.1P	1001 ± 17.23
bis(2-chloro-1-methylethyl) ether	108-60-1	99.5	34.3.13P	999.5 ± 17.89
bis(2-ethylhexyl)adipate	103-23-1	99.5	874.7.1P	999.5 ± 17.21
bis(2-ethylhexyl)phthalate	117-81-7	99.4	33.29.1P	998.8 ± 19.86
4-bromophenyl phenyl ether	101-55-3	99.4	35.7.1P	999.1 ± 17.2
butyl benzyl phthalate	85-68-7	98.4	36.1.6P	984.7 ± 19.58
carbazole	86-74-8	99.4	239.7.2P	1000 ± 17.22

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Brianna Smith

Certified By: _____

Brianna Smith
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certificate of Analysis

Page 4 of 4

Catalog No.: Z-110381-01

Lot No.: 495831

Expiration Date: 10/30/2027

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2,4-trichlorobenzene	120-82-1	99.6	54.29.1P	1000 ± 17.22
2,4,5-trichlorophenol	95-95-4	96.5	121.7.1.1P	1000 ± 17.22
2,4,6-trichlorophenol	88-06-2	99.6	113.7.1P	1002 ± 17.25

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By:



Briana Smith
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.



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Bellefonte, PA 16823-8812
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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.

Received on
03/10/22
by
CG
S10242
to
S10247

Catalog No. : 31615 **Lot No.:** A0182667
Description : GC/MS Tuning Mixture
GC/MS Tuning Mixture 1,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : March 31, 2025 **Storage:** 10°C or colder
Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Pentachlorophenol CAS # 87-86-5 (Lot 211229RSR) Purity 99%	1,003.6 µg/mL	+/- 5.8897 µg/mL +/- 45.7132 µg/mL +/- 66.0037 µg/mL	Gravimetric Unstressed Stressed
2	DFTPP (Decafluorotriphenylphosphine) CAS # 5074-71-5 (Lot Q117-147) Purity 95%	1,006.6 µg/mL	+/- 5.9074 µg/mL +/- 45.8508 µg/mL +/- 66.2023 µg/mL	Gravimetric Unstressed Stressed
3	Benzidine CAS # 92-87-5 (Lot 211228JLM) Purity 99%	1,008.4 µg/mL	+/- 5.9179 µg/mL +/- 45.9318 µg/mL +/- 66.3193 µg/mL	Gravimetric Unstressed Stressed
4	4,4'-DDT CAS # 50-29-3 (Lot 210916JLM) Purity 99%	1,007.6 µg/mL	+/- 5.9132 µg/mL +/- 45.8954 µg/mL +/- 66.2667 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

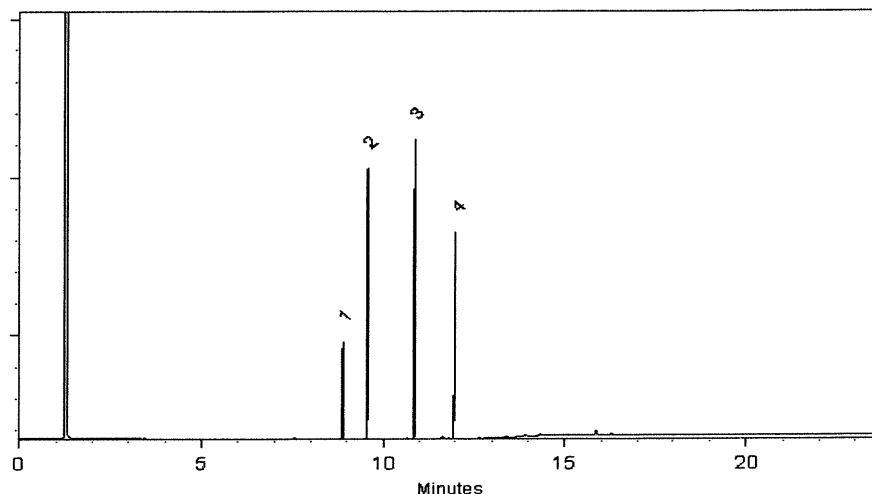
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

Date Mixed: 08-Mar-2022

Balance: B345965662

Marlene Cowan - Operations Tech I

Date Passed: 10-Mar-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
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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:

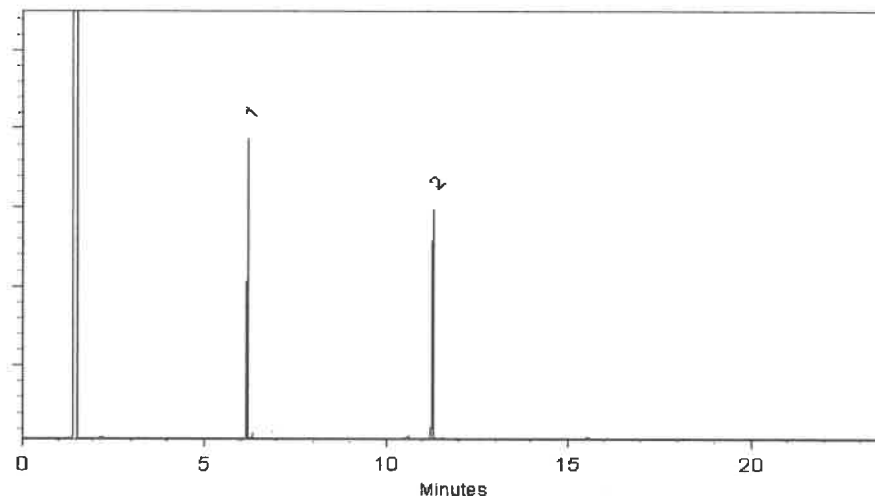
250°C

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

Marlina Cowan - Operations Tech II ARM QC

Date Passed: 13-Jun-2022

Manufactured under Restek's ISO 9001:2015
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Received by
CG on
12/28/22
S10951
to
S10980

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

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:

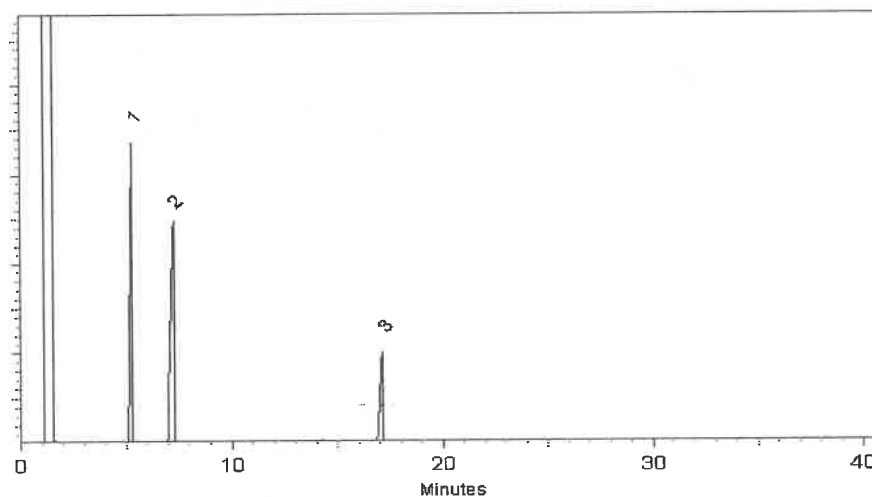
250°C

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



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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.

Received by
CG on
12/28/22
\$10981
to
\$11010

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

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)

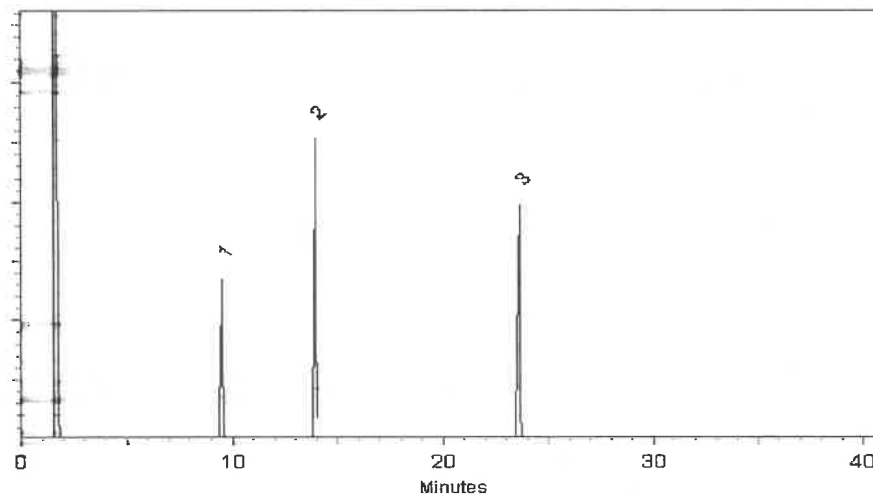
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

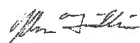
Inj. Temp:
250°C

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
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. : 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.

Sand
Purified
Washed and Ignited



Material No.: 3382-05
Batch No.: 0000243821
Manufactured Date: 2018/04/09
Retest Date: 2025/04/07
Revision No: 1

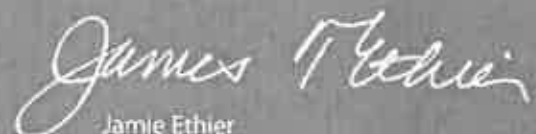
Certificate of Analysis

Test	Specification	Result
Substances Soluble in HCl	$\leq 0.16\%$	0.01

For Laboratory, Research or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: US
Packaging Site: Paris Mfg Ctr & DC

E 2865


Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700



**PRODUCTOS
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MONTERREY, S.A. DE C.V.**

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MEXICO
CP 64070
TEL +52 81 13 52 57 57
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na ₂ SO ₄
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na ₂ SO ₄)	Min. 99.0%	99.7 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.1
Insoluble matter	Max. 0.01%	0.005 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO ₄)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.002 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.003 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreign matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.1 %
Retained on US Standard No. 60 sieve	Min. 94%	97.3 %
Through US Standard No. 60 sieve	Max. 5%	2.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %

COMMENTS

QC: PhC Irma Belmares

If you need further details, please call our factory or contact our local distributor.

Recd. by R3 on 7/24/23 E 3551

RC-02-01, Ed. 3

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)	≥ 99.8 %	100.0 %
Color (APHA)	≤ 10	10
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid (μeq/g)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	≤ 0.02 %	< 0.01 %

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: 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 ₂ Cl ₂) (by GC, exclusive of preservative, corrected for water)	≥ 99.8 %	99.9 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Titration Acid (μeq/g)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	≤ 0.02 %	< 0.01 %

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC
Manufacturer source batch: MG24C16563

E 3759

J. Croak
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_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: 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

Page 1 of 1

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 ₂ Cl ₂) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8 \%$	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Titration Acid (μ eq/g)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02 \%$	< 0.01 %

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC
Manufacturer source batch: MG24D15750

E 3786

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087, U.S.A. Phone 610.386.1700
Page 1 of 1

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

Acetone
CMOS

avantor™



Material No.: 9005-05
Batch No.: 24E0761004
Manufactured Date: 2024-05-02
Retest Date: 2029-05-01
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	≥ 99.5 %	99.8 %
Color (APHA)	≤ 10	< 5
Residue after Evaporation	≤ 5 ppm	< 1 ppm
Titration Acid (μeq/g)	≤ 0.3	0.1
Titration Base (μeq/g)	≤ 0.5	0.1
Water (H ₂ O)	≤ 0.5 %	0.1 %
Solubility in H ₂ O	Passes Test	Passes Test
Chloride (Cl)	≤ 0.2 ppm	< 0.2 ppm
Phosphate (PO ₄)	≤ 0.05 ppm	< 0.05 ppm
Trace Impurities – Aluminum (Al)	≤ 50.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 5.0 ppb
Trace Impurities – Barium (Ba)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Cadmium (Cd)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Calcium (Ca)	≤ 25.0 ppb	3.6 ppb
Trace Impurities – Chromium (Cr)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Germanium (Ge)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities – Gold (Au)	≤ 20 ppb	< 5 ppb
Trace Impurities – Iron (Fe)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Lead (Pb)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities – Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities – Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb

>>> Continued on page 2 >>>

Recd. by RP on 9/11/24

E3793

Acetone
CMOS



Material No.: 9005-05
Batch No.: 24E0761004

Test	Specification	Result
Trace Impurities – Molybdenum (Mo)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Nickel (Ni)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities – Potassium (K)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities – Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silver (Ag)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Sodium (Na)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Strontium (Sr)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Tantalum (Ta)	≤ 50.0 ppb	< 5.0 ppb
Trace Impurities – Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Zinc (Zn)	≤ 20.0 ppb	7.9 ppb
Trace Impurities – Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count – 0.5 µm and greater (Rion KS42AF)	≤ 100 par/ml	8 par/ml
Particle Count – 1.0 µm and greater (Rion KS42AF)	≤ 8 par/ml	2 par/ml

>>> Continued on page 3 >>>



Test	Specification	Result

Country of Origin: USA
Packaging Site: Paris Mfg Ctr & DC

Michelle Bales

Michelle Bales
Sr. Manager, Quality Assurance

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™



Material No.: 9266-A4

Batch No.: 24I2662006

Manufactured Date: 2024-08-29

Expiration Date: 2025-11-28

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	3
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	99.9%
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 3822

Jamie Croak
Director Quality Operations, Bioscience Production



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

Expiration Date :

September 30, 2025

Handling:

This product is photosensitive.

Pkg Amt: > 1 mL

Storage: 10°C or colder

Ship: Ambient

511539
↓
51568
7.6
0911

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

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:

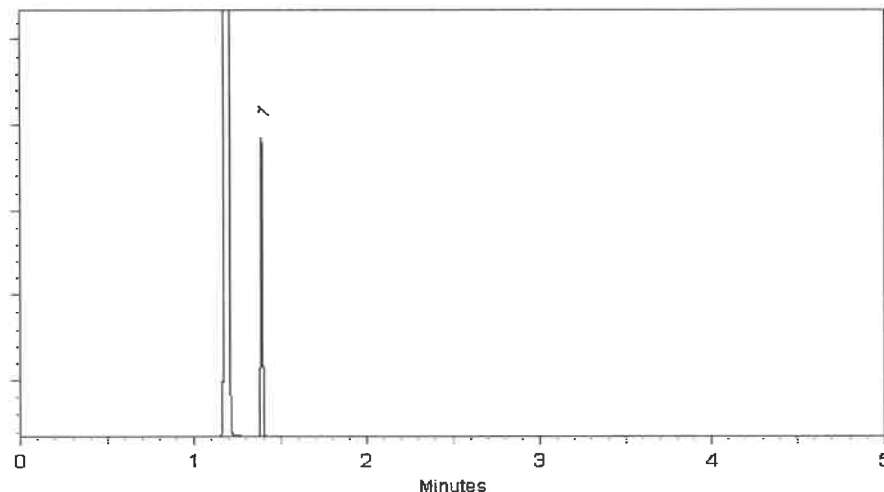
FID

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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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:

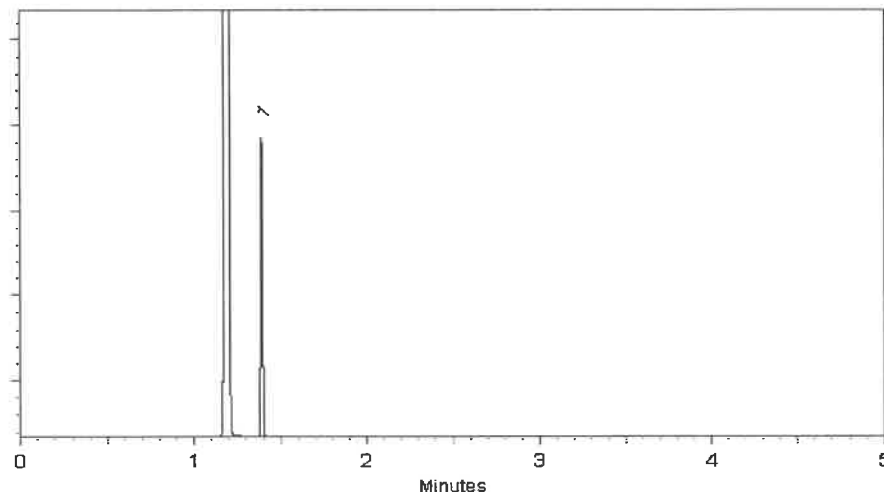
FID

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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chromatographic plus



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31206 **Lot No.:** 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:

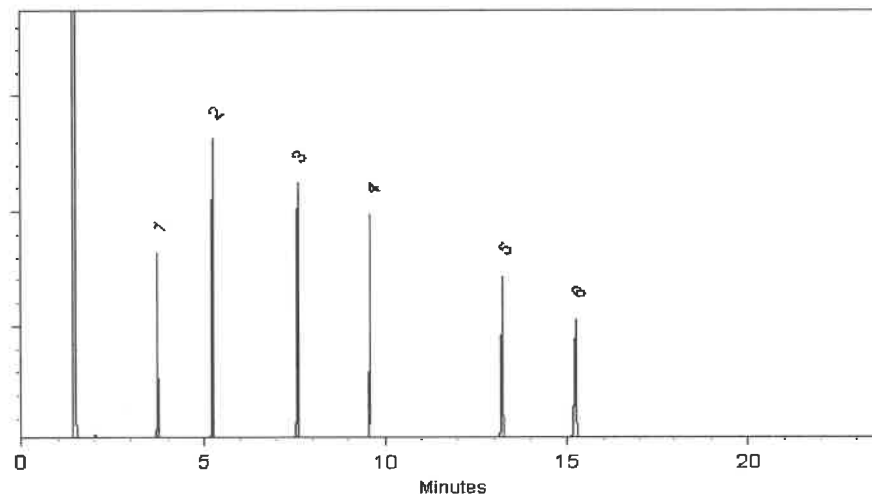
FID

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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Santa Rosa, CA 95403

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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

S12075 } RC
↓
S12079 } 02/01/24

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: _____

Shane Overcash
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.



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gravimetric



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** 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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Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0207706

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 2026 **Storage:** 10°C or colder

Ship: Ambient

512082 } RC/
↓
512111 } 02/22/24

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,001.0 µg/mL	+/- 29.424320
2	Acetophenone	98-86-2	STBH8205	99%	1,004.0 µg/mL	+/- 29.512504
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,005.0 µg/mL	+/- 29.541899
4	Benzoic acid	65-85-0	MKCR2694	99%	1,003.0 µg/mL	+/- 29.483110
5	Biphenyl	92-52-4	MKCL6515	99%	1,006.0 µg/mL	+/- 29.571294

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

John Friedline - Operations Technician I

Date Mixed: 12-Feb-2024

Balance: B345965662



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Date Received: _____

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Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:	
Z-020223-01	454157	≤ -10 °C	P/T Methanol	6/10/2026	1,4-Dioxane Solution, 2000 mg/L, 1 mL	
Compound			CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,4-dioxane			123-91-1	100	223.1.3P	1997 ± 57.08

512112 } RC/
↓
912116 } 03/08/24

*Not a certified value

Certified By: _____

Melissa Workoff
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



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by TUV USA to ISO 9001:2015

Date Received: _____

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Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-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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chromatographic plus



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

512117 } RC/
↓ 03/18/24
512146 }

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/- 36.5988	1
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998	2
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200	3
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573	4
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180	5
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574	6
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837	7
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290	8
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829	9
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937	10
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505	11
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838	12
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909	13
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442	14
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512	15
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230	16
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876	17
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/- 36.5887	18
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/- 36.7265	
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/- 36.5422	
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/- 36.5968	
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/- 36.4998	
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/- 36.4634	
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/- 36.7221	
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/- 36.5240	
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/- 36.4553	
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/- 36.6251	
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/- 36.5220	
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/- 36.4674	
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/- 36.6979	
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/- 36.6130	
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/- 36.6857	
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/- 36.5220	
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/- 36.6958	
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/- 36.4230	
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/- 36.4553	

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCKK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

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110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

512117 } RC/
↓ 03/18/24
512146 }

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/- 36.5988	1
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998	2
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200	3
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573	4
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180	5
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574	6
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837	7
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290	8
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829	9
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937	10
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505	11
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838	12
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909	13
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442	14
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512	15
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230	16
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876	17
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/- 36.5887	18
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/- 36.7265	
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/- 36.5422	
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/- 36.5968	
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/- 36.4998	
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/- 36.4634	
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/- 36.7221	
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/- 36.5240	
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/- 36.4553	
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/- 36.6251	
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/- 36.5220	
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/- 36.4674	
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/- 36.6979	
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/- 36.6130	
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/- 36.6857	
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/- 36.5220	
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/- 36.6958	
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/- 36.4230	
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/- 36.4553	

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCKK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

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110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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/ μ ECD, 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

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Packing List

6390 Joyce Dr., #100
Golden, CO 80403

Tel: +1-303-940-0033
Fax: +1-303-940-0043
info@phenova.com
www.phenova.com

Received : SJ
10/23/24
9:47

For terms and conditions of your order, please visit:
www.phenova.com/home/termsofsale

Date	Order #
10/21/2024	318989



Ship To

Alliance Tech Group - Newark
ATTN: Sohil Jodhani
284 Sheffield St., #1
Mountainside, NJ 07092
USA

Customer PO #	Terms	PT Acct #	Customer #	Ship Via	F.O.B.
240903-01	Net 30	ZCM-100	1500470	FedEx 2nd Day	Golden, CO

Qty Ordered	Qty Shipped	Qty Backorder	Part Number	Part Description	Study Number	Lot Number
1	1	0	PT-MET-SOIL	SOIL/HW Trace Metals	HW1024	7098-04
1	1	0	PT-CR6-SOIL	SOIL/HW Hexavalent Chromium ✓	HW1024	7098-05D
1	1	0	PT-CN-SOIL	SOIL/HW Cyanide	HW1024	7098-06
1	1	0	PT-CORR-SOIL	SOIL/HW Corrosivity/pH ✓	HW1024	7098-11
1	1	0	PT-FP-SOIL	SOIL/HW Flash Point	HW1024	7098-10
1	1	0	PT-AN-SOIL	SOIL/HW Anions ✓	HW1024	7098-08
1	1	0	PT-NUT-SOIL	SOIL/HW Nutrients ✓	HW1024	7098-09B
1	1	0	PT-SOL-SOIL	SOIL/HW Solids	HW1024	7098-31
1	1	0	PT-NO2-SOIL	SOIL/HW Nitrite as N	HW1024	7098-71
1	1	0	PT-GAS-SOIL	SOIL/HW Gasoline	HW1024	7098-96
1	1	0	PT-DIES-SOIL	SOIL/HW Diesel in Soil	HW1024	7098-100
1	1	0	PT-OGR-SOIL	SOIL/HW Oil and Grease ✓	HW1024	7098-94
1	1	0	PT-VOA-SOIL	SOIL/HW Volatiles	HW1024	7098-12
1	1	0	PT-BNA-SOIL	SOIL/HW BNAs	HW1024	7098-13
1	1	0	PT-PEST-SOIL	SOIL/HW Pesticides	HW1024	7098-14
1	1	0	PT-CHLR-SOIL	SOIL/HW Chlordane	HW1024	7098-15
1	1	0	PT-TXP-SOIL	SOIL/HW Toxaphene	HW1024	7098-16
1	1	0	PT-PCB-SOIL	SOIL/HW PCBs	HW1024	7098-17
1	1	0	PT-PCBO-SOIL	SOIL/HW PCBs in Oil	HW1024	7098-88
1	1	0	PT-HERB-SOIL	SOIL/HW Herbicides	HW1024	7098-18
1	1	0	PT-PAH-SOIL	SOIL/HW PAHs	HW1024	7098-22
1	1	0	PT-TRIAZINE-SOIL	SOIL/HW Triazine Pesticides	HW1024	7098-106

Packing List

6390 Joyce Dr., #100
Golden, CO 80403

Tel: +1-303-940-0033
Fax: +1-303-940-0043
info@phenova.com
www.phenova.com

Received - SJ
10/23/24
9247

For terms and conditions of your order, please visit:
www.phenova.com/home/termsforsale

Date	Order #
10/21/2024	318989



Ship To

Alliance Tech Group - Newark
ATTN: Sohil Jodhani
284 Sheffield St., #1
Mountainside, NJ 07092
USA

Customer PO #		Terms	PT Acct #	Customer #	Ship Via	F.O.B.
240903-01		Net 30	ZCM-100	1500470	FedEx 2nd Day	Golden, CO
Qty Ordered	Qty Shipped	Qty Backorder	Part Number	Part Description	Study Number	Lot Number
1	1	0	PT-NJEPH-SOIL	NJ EPH in SOIL ✓✓	HW1024	7098-105

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