

DATA PACKAGE
SEMI-VOLATILE ORGANICS

PROJECT NAME : CTO WE13

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

ORDER ID : P4652
ATTENTION : Ernie Wu



Laboratory Certification ID # 20012



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Cover Page

Order ID : P4652

Project ID : CTO WE13

Client : Tetra Tech NUS, Inc.

Lab Sample Number

P4652-01
P4652-02
P4652-03
P4652-04
P4652-05
P4652-06

Client Sample Number

RW5-SP100-50-20241030
RW5-SP201-50-20241030
RW5-SP301-303-50-20241030
RW5-SP100-90-20241030
RW5-SP201-90-20241030
RW5-SP301-303-90-20241030

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

Signature : _____

Date: 11/9/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Tetra Tech NUS, Inc.

Project Name: CTO WE13

Project Manager: Ernie Wu

Chemtech Project # P4652

Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:

6 Water samples were received on 10/31/2024.

B. Parameters

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

C. Analytical Techniques:

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

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for RW5-SP201-50-20241030 [2-Fluorobiphenyl - 110%, Terphenyl-d14 - 133%], RW5-SP100-90-20241030 [Terphenyl-d14 - 138%], RW5-SP201-90-20241030 [Terphenyl-d14 - 133%], PB164594BSD [2-Fluorobiphenyl - 109%], failure surrogates are not associated with the client list, as per criteria affected surrogates were passing, therefore no corrective action was taken.

The Internal Standards Areas met the acceptable requirements except for RW5-SP201-50-20241030, RW5-SP301-303-50-20241030, RW5-SP201-90-20241030, RW5-SP301-303-90-20241030, PB164594BS and PB164594BSD failure Internal Standard are not associated with the client list, as per criteria affected Internal Standard were passing, therefore no corrective action was taken.

The Retention Times were acceptable for all samples.

The RPD met criteria .

The Blank Spike met requirements for all samples .

The Blank Spike Duplicate met requirements for all samples .

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

The Initial Calibration met the requirements .

The Continuous Calibration File ID BN034850.D met the requirements except for 2,4,6-Tribromophenol , failure surrogates is not associated with the client list, as per criteria affected surrogates were passing, therefore no corrective action was taken.

The Continuous Calibration File ID BN034863.D met the requirements except for 2,4,6-Tribromophenol and Terphenyl-d14 , failure surrogates are not associated with the client list, as per criteria affected surrogates were passing, therefore no corrective action was taken.

The Tuning criteria met requirements.

Samples RW5-SP100-50-20241030, RW5-SP100-90-20241030 were diluted due to high concentrations.

E. Additional Comments:

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

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

The not QT review data is reported in the Miscellaneous.

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

F. Manual Integration Comments:

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

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

Signature_____

DATA REPORTING QUALIFIERS- ORGANIC

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

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

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

CHEMTECH PROJECT NUMBER: P4652

MATRIX: Water

METHOD: 8270-Modified/3510

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications. DFTPP Meet Criteria. (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements.			✓

The Initial Calibration met the requirements .

The Continuous Calibration File ID BN034850.D met the requirements except for
2,4,6-Tribromophenol , failure surrogates is not associated with the client list, as per
criteria affected surrogates were passing, therefore no corrective action was taken.

The Continuous Calibration File ID BN034863.D met the requirements except for
2,4,6-Tribromophenol and Terphenyl-d14 , failure surrogates are not associated with the
client list, as per criteria affected surrogates were passing, therefore no corrective action
was taken.

6.	Blank Contamination - If yes, list compounds and concentrations in each blank:	✓
7.	Surrogate Recoveries Meet Criteria	✓

If not met, list those compounds and their recoveries which fall outside the acceptable
ranges.

The Surrogate recoveries met the acceptable criteria except for RW5-SP201-50-
20241030 [2-Fluorobiphenyl - 110%, Terphenyl-d14 - 133%], RW5-SP100-90-
20241030 [Terphenyl-d14 - 138%], RW5-SP201-90-20241030 [Terphenyl-d14 -
133%], PB164594BSD [2-Fluorobiphenyl - 109%], failure surrogates are not associated
with the client list, as per criteria affected surrogates were passing, therefore no
corrective action was taken.

8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria	✓

If not met, list those compounds and their recoveries which fall outside the acceptable
range.

The Blank Spike met requirements for all samples .
The Blank Spike Duplicate met requirements for all samples .

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

(CONTINUED)

		NA	NO	YES
9.	Internal Standard Area/Retention Time Shift Meet Criteria		✓	
	Comments: The Internal Standards Areas met the acceptable requirements except for RW5-SP201-50-20241030, RW5-SP301-303-50-20241030, RW5-SP201-90-20241030, RW5-SP301-303-90-20241030, PB164594BS and PB164594BSD failure Internal Standard are not associated with the client list, as per criteria affected Internal Standard were passing, therefore no corrective action was taken.			
10.	Extraction Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			
11.	Analysis Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			

ADDITIONAL COMMENTS:

Samples RW5-SP100-50-20241030, RW5-SP100-90-20241030 were diluted due to high concentrations.

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

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

The not QT review data is reported in the Miscellaneous.

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

QA REVIEW

Date

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P4652

Completed

For thorough review, the report must have the following:

GENERAL:

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

✓

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

✓

Is the chain of custody signed and complete

✓

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

✓

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

✓

COVER PAGE:

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

✓

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

✓

CHAIN OF CUSTODY:

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

✓

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

✓

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

✓

Were the samples received within hold time

✓

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

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 11/09/2024

LAB CHRONICLE

OrderID:	P4652	OrderDate:	10/31/2024 11:11:00 AM
Client:	Tetra Tech NUS, Inc.	Project:	CTO WE13
Contact:	Ernie Wu	Location:	K61

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4652-01	RW5-SP100-50-20241 030	Water			10/30/24			10/31/24
			SVOC-SIMGroup1	8270-Modified		11/01/24	11/04/24	
P4652-01DL	RW5-SP100-50-20241 030DL	Water			10/30/24			10/31/24
			SVOC-SIMGroup1	8270-Modified		11/01/24	11/04/24	
P4652-02	RW5-SP201-50-20241 030	Water			10/30/24			10/31/24
			SVOC-SIMGroup1	8270-Modified		11/01/24	11/04/24	
P4652-03	RW5-SP301-303-50-2 0241030	Water			10/30/24			10/31/24
			SVOC-SIMGroup1	8270-Modified		11/01/24	11/04/24	
P4652-04	RW5-SP100-90-20241 030	Water			10/30/24			10/31/24
			SVOC-SIMGroup1	8270-Modified		11/01/24	11/05/24	
P4652-04DL	RW5-SP100-90-20241 030DL	Water			10/30/24			10/31/24
			SVOC-SIMGroup1	8270-Modified		11/01/24	11/05/24	
P4652-05	RW5-SP201-90-20241 030	Water			10/30/24			10/31/24
			SVOC-SIMGroup1	8270-Modified		11/01/24	11/04/24	
P4652-06	RW5-SP301-303-90-2 0241030	Water			10/30/24			10/31/24
			SVOC-SIMGroup1	8270-Modified		11/01/24	11/04/24	

Hit Summary Sheet SW-846

SDG No.: P4652
Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID :	RW5-SP100-50-20241030							
P4652-01	RW5-SP100-50-20241030 WATER	1,4-Dioxane	8.100	E	0.07	0.2	0.2	ug/L
		Total Svoc :			8.10			
		Total Concentration:			8.10			
Client ID :	RW5-SP100-50-20241030DL							
P4652-01DL	RW5-SP100-50-20241030 WATER	1,4-Dioxane	8.500	D	0.34	1	1	ug/L
		Total Svoc :			8.50			
		Total Concentration:			8.50			
Client ID :	RW5-SP201-50-20241030							
P4652-02	RW5-SP201-50-20241030 WATER	1,4-Dioxane	0.070	J	0.07	0.2	0.2	ug/L
		Total Svoc :			0.07			
		Total Concentration:			0.07			
Client ID :	RW5-SP301-303-50-20241030							
P4652-03	RW5-SP301-303-50-2024 WATER	1,4-Dioxane	0.150	J	0.08	0.22	0.22	ug/L
		Total Svoc :			0.15			
		Total Concentration:			0.15			
Client ID :	RW5-SP100-90-20241030							
P4652-04	RW5-SP100-90-20241030 WATER	1,4-Dioxane	10.300	E	0.07	0.2	0.2	ug/L
		Total Svoc :			10.30			
		Total Concentration:			10.30			
Client ID :	RW5-SP100-90-20241030DL							
P4652-04DL	RW5-SP100-90-20241030 WATER	1,4-Dioxane	11.600	D	0.35	1	1	ug/L
		Total Svoc :			11.60			
		Total Concentration:			11.60			
Client ID :	RW5-SP301-303-90-20241030							
P4652-06	RW5-SP301-303-90-2024 WATER	1,4-Dioxane	0.080	J	0.07	0.21	0.21	ug/L
		Total Svoc :			0.08			
		Total Concentration:			0.08			



QC SUMMARY

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Surrogate Summary

SW-846

SDG No.: P4652

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
P4652-01	RW5-SP100-50-20241030	2-Methylnaphthalene-d10	0.4	0.35	87		30	150
		Fluoranthene-d10	0.4	0.43	107		30	150
		Nitrobenzene-d5	0.4	0.39	96		55	111
		2-Fluorobiphenyl	0.4	0.39	96		53	106
		Terphenyl-d14	0.4	0.49	123		58	132
P4652-01DL	RW5-SP100-50-20241030DL	2-Methylnaphthalene-d10	0.4	0.34	85		30	150
		Fluoranthene-d10	0.4	0.40	99		30	150
		Nitrobenzene-d5	0.4	0.39	96		55	111
		2-Fluorobiphenyl	0.4	0.39	96		53	106
		Terphenyl-d14	0.4	0.49	123		58	132
P4652-02	RW5-SP201-50-20241030	2-Methylnaphthalene-d10	0.4	0.37	93		30	150
		Fluoranthene-d10	0.4	0.43	108		30	150
		Nitrobenzene-d5	0.4	0.42	104		55	111
		2-Fluorobiphenyl	0.4	0.44	110	*	53	106
		Terphenyl-d14	0.4	0.53	133	*	58	132
P4652-03	RW5-SP301-303-50-20241030	2-Methylnaphthalene-d10	0.4	0.32	81		30	150
		Fluoranthene-d10	0.4	0.32	81		30	150
		Nitrobenzene-d5	0.4	0.36	89		55	111
		2-Fluorobiphenyl	0.4	0.37	92		53	106
		Terphenyl-d14	0.4	0.45	111		58	132
P4652-04	RW5-SP100-90-20241030	2-Methylnaphthalene-d10	0.4	0.35	88		30	150
		Fluoranthene-d10	0.4	0.42	105		30	150
		Nitrobenzene-d5	0.4	0.41	103		55	111
		2-Fluorobiphenyl	0.4	0.39	98		53	106
		Terphenyl-d14	0.4	0.55	138	*	58	132
P4652-04DL	RW5-SP100-90-20241030DL	2-Methylnaphthalene-d10	0.4	0.37	91		30	150
		Fluoranthene-d10	0.4	0.44	110		30	150
		Nitrobenzene-d5	0.4	0.44	109		55	111
		2-Fluorobiphenyl	0.4	0.42	105		53	106
		Terphenyl-d14	0.4	0.53	132		58	132
P4652-05	RW5-SP201-90-20241030	2-Methylnaphthalene-d10	0.4	0.34	86		30	150
		Fluoranthene-d10	0.4	0.42	104		30	150
		Nitrobenzene-d5	0.4	0.39	97		55	111
		2-Fluorobiphenyl	0.4	0.39	97		53	106
		Terphenyl-d14	0.4	0.53	133	*	58	132
P4652-06	RW5-SP301-303-90-20241030	2-Methylnaphthalene-d10	0.4	0.31	76		30	150
		Fluoranthene-d10	0.4	0.38	94		30	150
		Nitrobenzene-d5	0.4	0.34	84		55	111
		2-Fluorobiphenyl	0.4	0.35	87		53	106
		Terphenyl-d14	0.4	0.49	122		58	132
PB164594BL	PB164594BL	2-Methylnaphthalene-d10	0.4	0.35	88		30	150
		Fluoranthene-d10	0.4	0.36	90		30	150
		Nitrobenzene-d5	0.4	0.38	95		55	111
		2-Fluorobiphenyl	0.4	0.41	102		53	106
		Terphenyl-d14	0.4	0.46	114		58	132
PB164594BS	PB164594BS	2-Methylnaphthalene-d10	0.4	0.49	123		30	150
		Fluoranthene-d10	0.4	0.32	80		30	150
		Nitrobenzene-d5	0.4	0.38	95		55	111
		2-Fluorobiphenyl	0.4	0.42	104		53	106
		Terphenyl-d14	0.4	0.52	129		58	132
PB164594BSD	PB164594BSD	2-Methylnaphthalene-d10	0.4	0.48	121		30	150

Surrogate Summary

SW-846

SDG No.: P4652

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB164594BSD PB164594BSD		Fluoranthene-d10	0.4	0.32	79		30	150
		Nitrobenzene-d5	0.4	0.39	97		55	111
		2-Fluorobiphenyl	0.4	0.44	109	*	53	106
		Terphenyl-d14	0.4	0.52	131		58	132

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4652

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified DataFile: BN034859.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Low	Limits	RPD
								Qual		High	
PB164594BS	1,4-Dioxane	0.4	0.37	ug/L	93				70	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4652

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified DataFile: BN034860.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Low	Limits	RPD
								Qual		High	
PB164594BSD	1,4-Dioxane	0.4	0.39	ug/L	98	5			70	130	20

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164594BL

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM Case No.: P4652

SAS No.: P4652 SDG NO.: P4652

Lab File ID: BN034864.D

Lab Sample ID: PB164594BL

Instrument ID: BNA_N

Date Extracted: 11/01/2024

Matrix: (soil/water) Water

Date Analyzed: 11/05/2024

Level: (low/med) LOW

Time Analyzed: 10:37

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
RW5-SP100-50-20241030	P4652-01	BN034839.D	11/04/2024
RW5-SP201-50-20241030	P4652-02	BN034840.D	11/04/2024
RW5-SP301-303-50-20241030	P4652-03	BN034841.D	11/04/2024
RW5-SP201-90-20241030	P4652-05	BN034843.D	11/04/2024
RW5-SP301-303-90-20241030	P4652-06	BN034844.D	11/04/2024
RW5-SP100-90-20241030	P4652-04	BN034857.D	11/05/2024
PB164594BS	PB164594BS	BN034859.D	11/05/2024
PB164594BSD	PB164594BSD	BN034860.D	11/05/2024

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: TETR06Lab Code: CHEMSAS No.: P4652 SDG NO.: P4652Lab File ID: BN034739.DDFTPP Injection Date: 10/30/2024Instrument ID: BNA_NDFTPP Injection Time: 08:41

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	38.7
68	Less than 2.0% of mass 69	0.6 (1.4) 1
69	Mass 69 relative abundance	40
70	Less than 2.0% of mass 69	0.2 (0.4) 1
127	10.0 - 80.0% of mass 198	53.2
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.5
275	10.0 - 60.0% of mass 198	21.7
365	Greater than 1% of mass 198	2.6
441	Present, but less than mass 443	9.4
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	11.3 (18.5) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC0.1	SSTDICC0.1	BN034740.D	10/30/2024	09:20
SSTDICC0.2	SSTDICC0.2	BN034741.D	10/30/2024	09:56
SSTDICCC0.4	SSTDICCC0.4	BN034742.D	10/30/2024	10:32
SSTDICC0.8	SSTDICC0.8	BN034743.D	10/30/2024	11:08
SSTDICC1.6	SSTDICC1.6	BN034744.D	10/30/2024	11:44
SSTDICC3.2	SSTDICC3.2	BN034745.D	10/30/2024	12:20
SSTDICC5.0	SSTDICC5.0	BN034746.D	10/30/2024	12:56



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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: TETR06Lab Code: CHEMSAS No.: P4652 SDG NO.: P4652Lab File ID: BN034836.DDFTPP Injection Date: 11/04/2024Instrument ID: BNA_NDFTPP Injection Time: 09:30

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	46
68	Less than 2.0% of mass 69	0.8 (1.8) 1
69	Mass 69 relative abundance	44.3
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	56.3
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7
275	10.0 - 60.0% of mass 198	22.1
365	Greater than 1% of mass 198	2.6
441	Present, but less than mass 443	7.9
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	9.7 (18.9) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN034837.D	11/04/2024	10:45
RW5-SP100-50-20241030	P4652-01	BN034839.D	11/04/2024	14:55
RW5-SP201-50-20241030	P4652-02	BN034840.D	11/04/2024	15:31
RW5-SP301-303-50-20241030	P4652-03	BN034841.D	11/04/2024	16:07
RW5-SP201-90-20241030	P4652-05	BN034843.D	11/04/2024	17:19
RW5-SP301-303-90-20241030	P4652-06	BN034844.D	11/04/2024	17:54
RW5-SP100-50-20241030DL	P4652-01DL	BN034845.D	11/04/2024	18:30
SSTDCCC0.4EC	SSTDCCC0.4	BN034848.D	11/04/2024	20:18



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: TETR06Lab Code: CHEMSAS No.: P4652 SDG NO.: P4652Lab File ID: BN034849.DDFTPP Injection Date: 11/04/2024Instrument ID: BNA_NDFTPP Injection Time: 20:54

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	53.1
68	Less than 2.0% of mass 69	0.8 (1.6) 1
69	Mass 69 relative abundance	49
70	Less than 2.0% of mass 69	0.3 (0.6) 1
127	10.0 - 80.0% of mass 198	61.5
197	Less than 2.0% of mass 198	0.6
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7.1
275	10.0 - 60.0% of mass 198	24.1
365	Greater than 1% of mass 198	3
441	Present, but less than mass 443	8.8
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	11.1 (19.1) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN034850.D	11/04/2024	21:33
RW5-SP100-90-20241030	P4652-04	BN034857.D	11/05/2024	01:45
PB164594BS	PB164594BS	BN034859.D	11/05/2024	02:57
PB164594BSD	PB164594BSD	BN034860.D	11/05/2024	03:33
SSTDCCC0.4EC	SSTDCCC0.4	BN034861.D	11/05/2024	04:09



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: TETR06Lab Code: CHEMSAS No.: P4652 SDG NO.: P4652Lab File ID: BN034862.DDFTPP Injection Date: 11/05/2024Instrument ID: BNA_NDFTPP Injection Time: 08:44

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	58.2
68	Less than 2.0% of mass 69	0.9 (1.6) 1
69	Mass 69 relative abundance	53.6
70	Less than 2.0% of mass 69	0.3 (0.5) 1
127	10.0 - 80.0% of mass 198	61.8
197	Less than 2.0% of mass 198	0.5
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	20.4
365	Greater than 1% of mass 198	2.3
441	Present, but less than mass 443	7.2
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	8.3 (18.9) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN034863.D	11/05/2024	09:23
PB164594BL	PB164594BL	BN034864.D	11/05/2024	10:37
RW5-SP100-90-20241030DL	P4652-04DL	BN034865.D	11/05/2024	11:13
SSTDCCC0.4EC	SSTDCCC0.4	BN034867.D	11/05/2024	12:46

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4652 SAS No.: P4652 SDG NO.: P4652

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 11/04/2024

Lab File ID: BN034837.D Time Analyzed: 10:45

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	8324	7.597	24670	10.36	13111	14.22
UPPER LIMIT	16648	8.097	49340	10.862	26222	14.722
LOWER LIMIT	4162	7.097	12335	9.862	6555.5	13.722
EPA SAMPLE NO.						
01 RW5-SP100-50-20241030	6676	7.59	20196	10.35	10306	14.22
02 RW5-SP201-50-20241030	6345	7.59	18925	10.35	9397	14.22
03 RW5-SP100-50-20241030DL	7125	7.59	21517	10.36	10789	14.22
04 RW5-SP301-303-50-20241030	6316	7.59	18825	10.35	9344	14.22
05 RW5-SP201-90-20241030	5976	7.59	18176	10.36	9002	14.22
06 RW5-SP301-303-90-20241030	6786	7.59	20468	10.35	10029	14.22

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.: P4652 SAS No.: P4652 SDG NO.: P4652

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 11/04/2024

Lab File ID: BN034837.D Time Analyzed: 10:45

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	27070	16.97	17835	21.16	15548	23.344
UPPER LIMIT	54140	17.47	35670	21.66	31096	23.844
LOWER LIMIT	13535	16.47	8917.5	20.66	7774	22.844
EPA SAMPLE NO.						
01 RW5-SP100-50-20241030	20231	16.96	12090	21.17	9717	23.34
02 RW5-SP201-50-20241030	18708	16.97	10340	21.16	7618 *	23.34
03 RW5-SP100-50-20241030DL	21116	16.97	11094	21.16	8617	23.34
04 RW5-SP301-303-50-20241030	18319	16.97	10285	21.16	7661 *	23.34
05 RW5-SP201-90-20241030	17850	16.97	9270	21.16	6568 *	23.34
06 RW5-SP301-303-90-20241030	19743	16.96	10387	21.16	7678 *	23.34

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4652 SAS No.: P4652 SDG NO.: P4652

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 11/04/2024

Lab File ID: BN034850.D Time Analyzed: 21:33

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	7674	7.589	23850	10.35	12009	14.22
UPPER LIMIT	15348	8.089	47700	10.851	24018	14.722
LOWER LIMIT	3837	7.089	11925	9.851	6004.5	13.722
EPA SAMPLE NO.						
01 RW5-SP100-90-20241030	6734	7.59	20759	10.35	10518	14.22
02 PB164594BS	7147	7.59	21161	10.35	10006	14.22
03 PB164594BSD	6749	7.59	19671	10.35	8893	14.22

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.: P4652 SAS No.: P4652 SDG NO.: P4652

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 11/04/2024

Lab File ID: BN034850.D Time Analyzed: 21:33

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	23508	16.97	14579	21.16	11281	23.335
UPPER LIMIT	47016	17.47	29158	21.66	22562	23.835
LOWER LIMIT	11754	16.47	7289.5	20.66	5640.5	22.835
EPA SAMPLE NO.						
01 RW5-SP100-90-20241030	19787	16.97	10095	21.16	7238	23.34
02 PB164594BS	17488	16.97	6741 *	21.16	4990 *	23.34
03 PB164594BSD	15802	16.97	5819 *	21.16	4708 *	23.34

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4652 SAS No.: P4652 SDG NO.: P4652

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 11/05/2024

Lab File ID: BN034863.D Time Analyzed: 09:23

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	8979	7.589	27748	10.35	13645	14.22
UPPER LIMIT	17958	8.089	55496	10.851	27290	14.722
LOWER LIMIT	4489.5	7.089	13874	9.851	6822.5	13.722
EPA SAMPLE NO.						
01 PB164594BL	7362	7.59	21619	10.35	10048	14.22
02 RW5-SP100-90-20241030DL	6432	7.59	19375	10.35	9318	14.22

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.: P4652 SAS No.: P4652 SDG NO.: P4652

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 11/05/2024

Lab File ID: BN034863.D Time Analyzed: 09:23

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	26678	16.97	16206	21.16	12712	23.335
UPPER LIMIT	53356	17.47	32412	21.66	25424	23.835
LOWER LIMIT	13339	16.47	8103	20.66	6356	22.835
EPA SAMPLE NO.						
01 PB164594BL	19701	16.96	9905	21.17	7739	23.34
02 RW5-SP100-90-20241030DL	18184	16.97	9599	21.16	7192	23.34

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:	Tetra Tech NUS, Inc.		Date Collected:	10/30/24	
Project:	CTO WE13		Date Received:	10/31/24	
Client Sample ID:	RW5-SP100-50-20241030		SDG No.:	P4652	
Lab Sample ID:	P4652-01		Matrix:	Water	
Analytical Method:	SW8270SIM		% Solid:	0	
Sample Wt/Vol:	1000	Units: mL	Final Vol:	1000	uL
Soil Aliquot Vol:		uL	Test:	SVOC-SIMGroup1	
Extraction Type :		Decanted : N	Level :	LOW	
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N	PH :
Prep Method :	SW3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN034839.D	1	11/01/24 09:35	11/04/24 14:55	PB164594

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	8.10	E	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.35		30 - 150		87%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.43		30 - 150		107%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.39		55 - 111		96%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		53 - 106		96%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.49		58 - 132		123%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6680	7.589				
1146-65-2	Naphthalene-d8	20200	10.351				
15067-26-2	Acenaphthene-d10	10300	14.218				
1517-22-2	Phenanthrene-d10	20200	16.964				
1719-03-5	Chrysene-d12	12100	21.167				
1520-96-3	Perylene-d12	9720	23.344				

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\BN110424\
Data File : BN034839.D
Acq On : 04 Nov 2024 14:55
Operator : RC/JU
Sample : P4652-01
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-50-20241030

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024

Quant Time: Nov 04 15:32:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 30 13:28:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.589	152	6676	0.400	ng	-0.01
7) Naphthalene-d8	10.351	136	20196	0.400	ng	-0.02
13) Acenaphthene-d10	14.218	164	10306	0.400	ng	-0.01
19) Phenanthrene-d10	16.964	188	20231	0.400	ng	#-0.02
29) Chrysene-d12	21.167	240	12090	0.400	ng	-0.01
35) Perylene-d12	23.344	264	9717	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.206	112	4172	0.206	ng	-0.01
5) Phenol-d6	6.766	99	3682	0.140	ng	-0.01
8) Nitrobenzene-d5	8.717	82	6109	0.385	ng	-0.02
11) 2-Methylnaphthalene-d10	11.950	152	10186	0.348	ng	-0.02
14) 2,4,6-Tribromophenol	15.710	330	1295	0.254	ng	-0.02
15) 2-Fluorobiphenyl	12.839	172	15625	0.385	ng	-0.03
27) Fluoranthene-d10	19.003	212	20365	0.429	ng	-0.01
31) Terphenyl-d14	19.617	244	12757	0.491	ng	-0.01
Target Compounds						
2) 1,4-Dioxane	3.191	88	59452	8.123	ng	95
6) bis(2-Chloroethyl)ether	7.019	93	1335	0.070	ng	# 47
25) Phenanthrene	17.001	178	1845	0.031	ng	98
26) Anthracene	17.101	178	1352	0.024	ng	99
28) Fluoranthene	19.036	202	2824	0.043	ng	95
30) Pyrene	19.398	202	1908	0.030	ng	99
32) Benzo(a)anthracene	21.149	228	1080	0.022	ng	91
33) Chrysene	21.203	228	1116m	0.024	ng	
34) Bis(2-ethylhexyl)phtha...	21.104	149	903	0.022	ng	# 93
36) Indeno(1,2,3-cd)pyrene	25.514	276	846	0.024	ng	99
37) Benzo(b)fluoranthene	22.695	252	1200	0.031	ng	# 5
38) Benzo(k)fluoranthene	22.736	252	1114	0.029	ng	# 1
40) Dibenzo(a,h)anthracene	25.531	278	575	0.021	ng	# 27
41) Benzo(g,h,i)perylene	26.177	276	668m	0.022	ng	

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

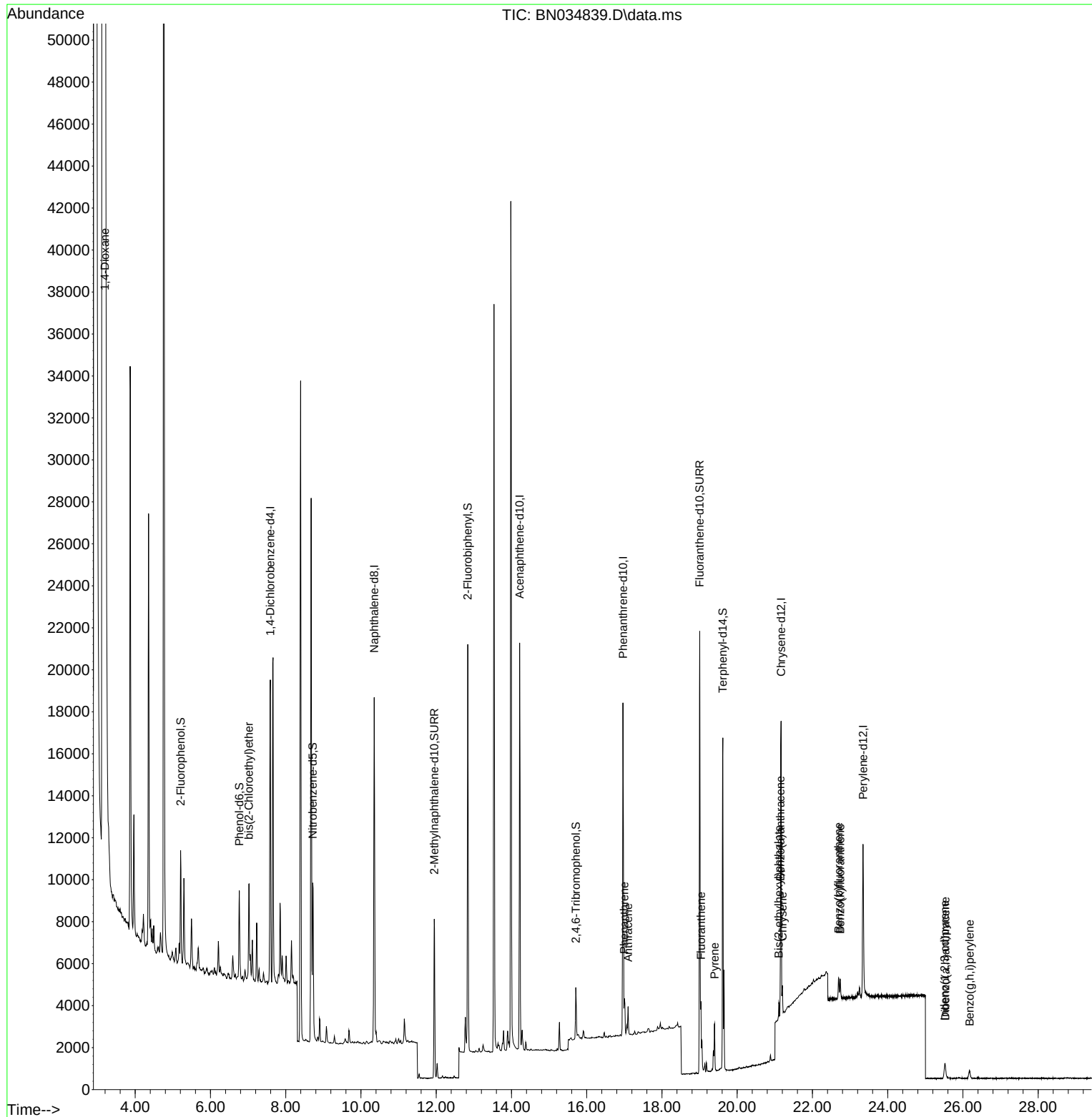
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110424\
Data File : BN034839.D
Acq On : 04 Nov 2024 14:55
Operator : RC/JU
Sample : P4652-01
Misc :
ALS Vial : 4 Sample Multiplier: 1

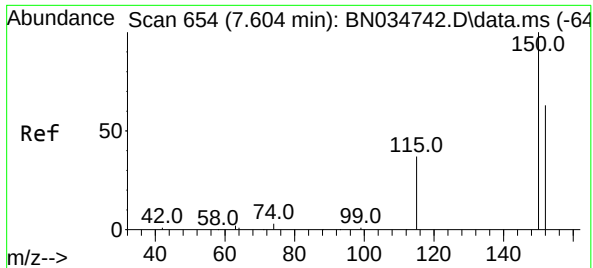
Instrument :
BNA_N
ClientSampleId :
RW5-SP100-50-20241030

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APPROVED

Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024

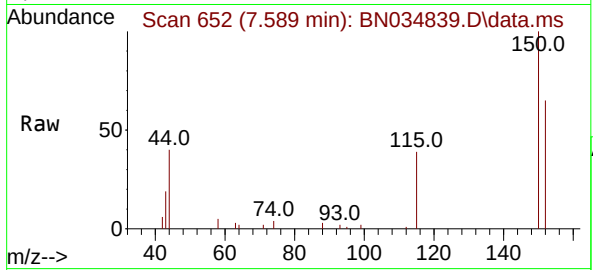
Quant Time: Nov 04 15:32:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 30 13:28:24 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.589 min Scan# 61
Delta R.T. -0.015 min
Lab File: BN034839.D
Acq: 04 Nov 2024 14:55

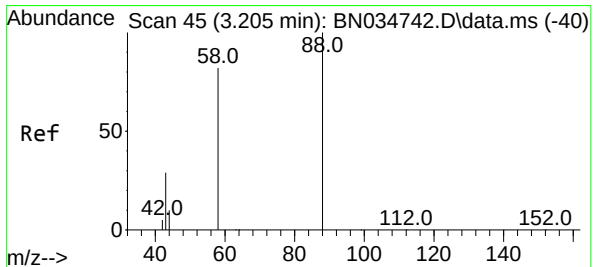
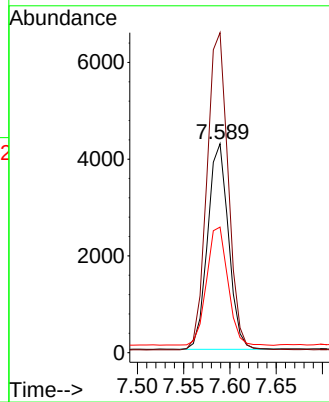
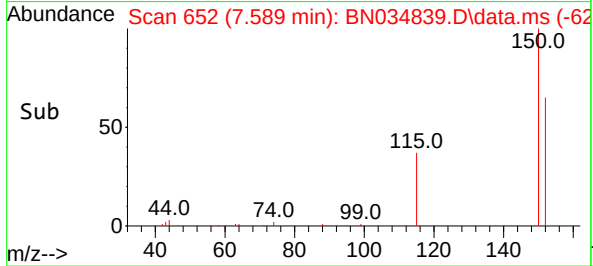
Instrument :
BNA_N
ClientSampleId :
RW5-SP100-50-20241030



Tgt Ion: 152 Resp: 6670
Ion Ratio Lower Upper
152 100
150 153.1 124.9 187.3
115 60.1 50.2 75.2

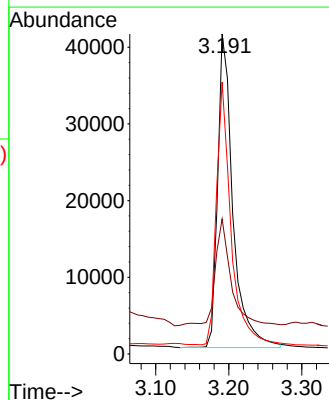
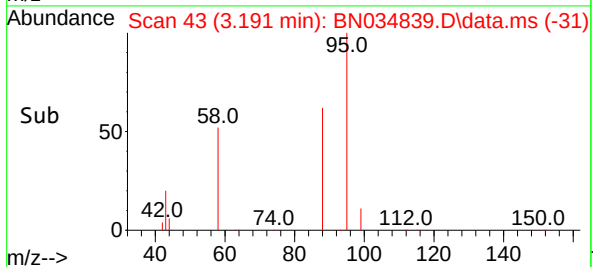
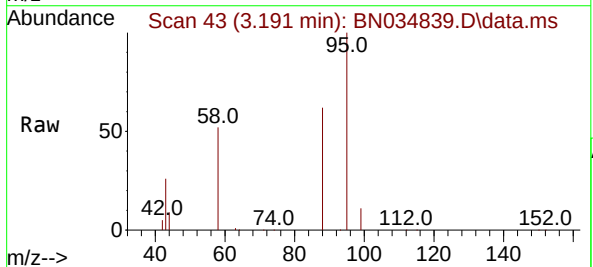
Manual Integrations
APPROVED

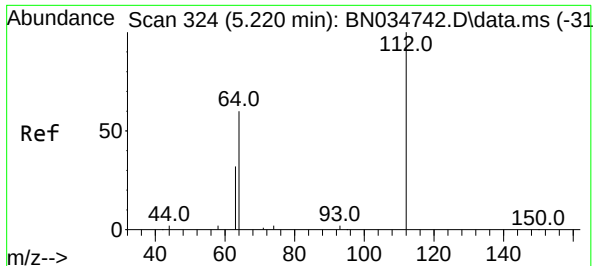
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



#2
1,4-Dioxane
Concen: 8.123 ng
RT: 3.191 min Scan# 43
Delta R.T. -0.014 min
Lab File: BN034839.D
Acq: 04 Nov 2024 14:55

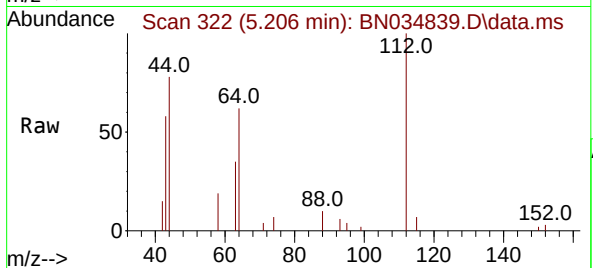
Tgt Ion: 88 Resp: 59452
Ion Ratio Lower Upper
88 100
43 34.3 26.7 40.1
58 79.5 59.3 88.9





#4
2-Fluorophenol
Concen: 0.206 ng
RT: 5.206 min Scan# 311
Delta R.T. -0.014 min
Lab File: BN034839.D
Acq: 04 Nov 2024 14:55

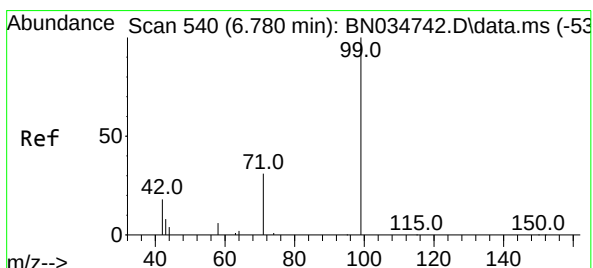
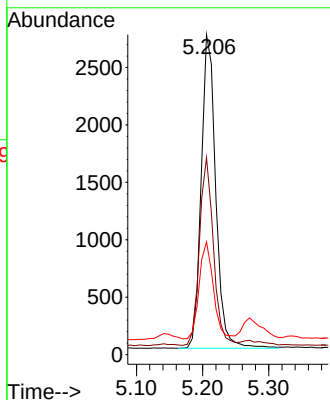
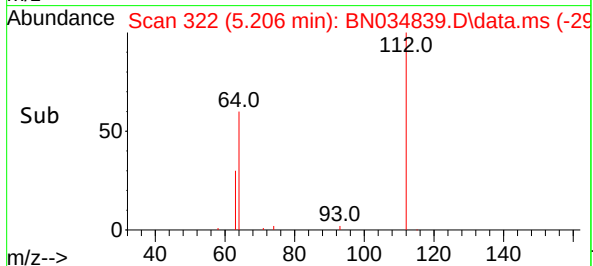
Instrument :
BNA_N
ClientSampleId :
RW5-SP100-50-20241030



Tgt Ion: 112 Resp: 4172
Ion Ratio Lower Upper
112 100
64 57.3 44.9 67.3
63 30.4 23.5 35.3

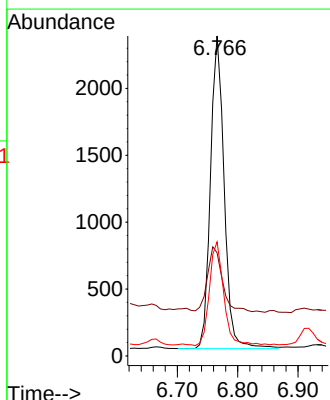
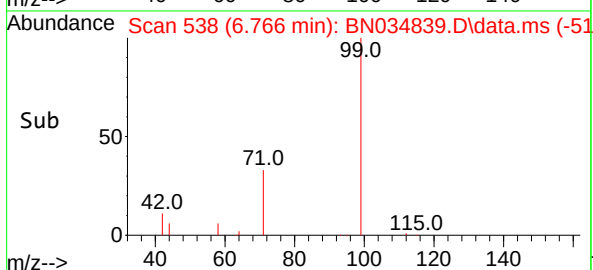
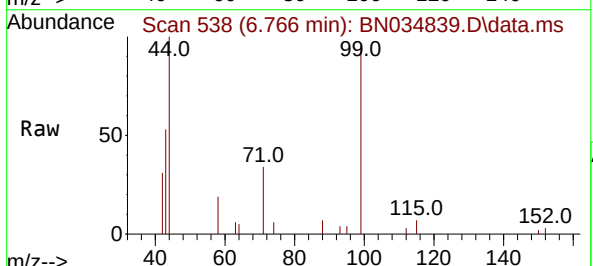
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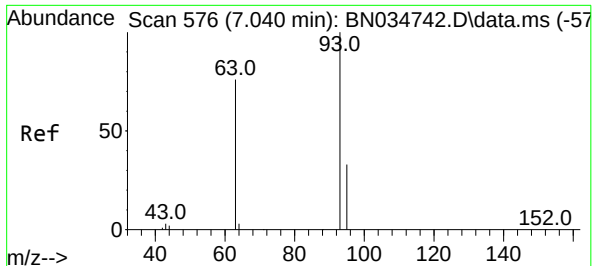
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



#5
Phenol-d6
Concen: 0.140 ng
RT: 6.766 min Scan# 538
Delta R.T. -0.014 min
Lab File: BN034839.D
Acq: 04 Nov 2024 14:55

Tgt Ion: 99 Resp: 3682
Ion Ratio Lower Upper
99 100
42 23.1 15.9 23.9
71 35.0 24.3 36.5





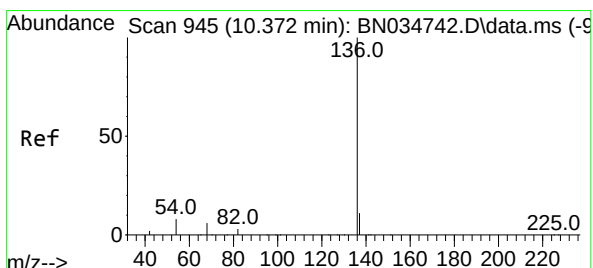
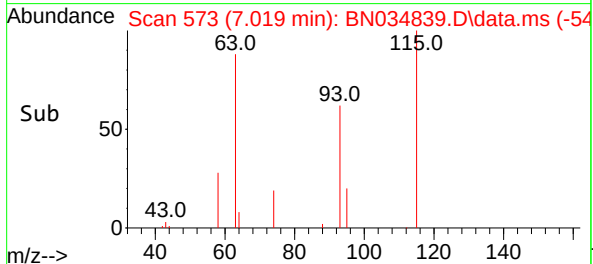
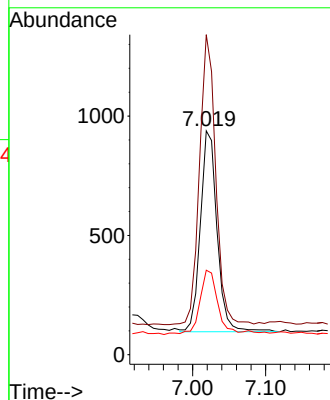
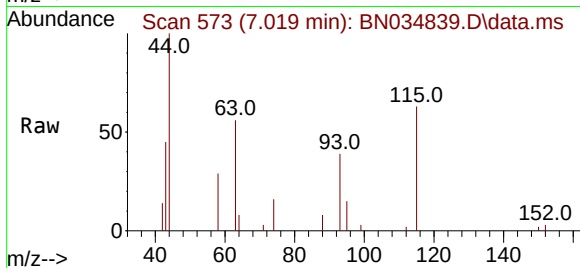
#6
bis(2-Chloroethyl)ether
Concen: 0.070 ng
RT: 7.019 min Scan# 51
Delta R.T. -0.022 min
Lab File: BN034839.D
Acq: 04 Nov 2024 14:55

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-50-20241030

Tgt Ion: 93 Resp: 133
Ion Ratio Lower Upper
93 100
63 139.6 61.2 91.8
95 34.2 25.8 38.8

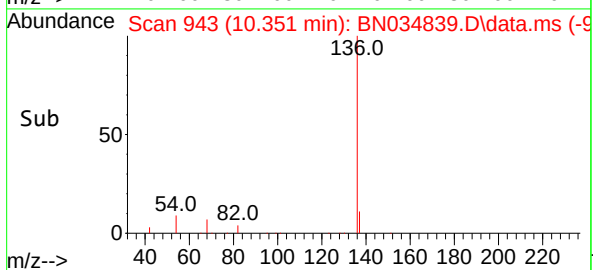
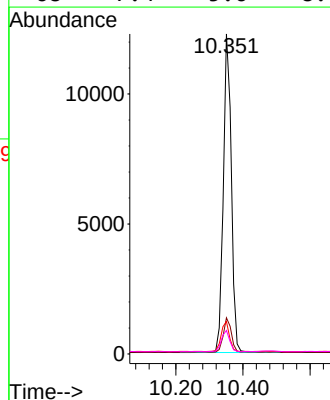
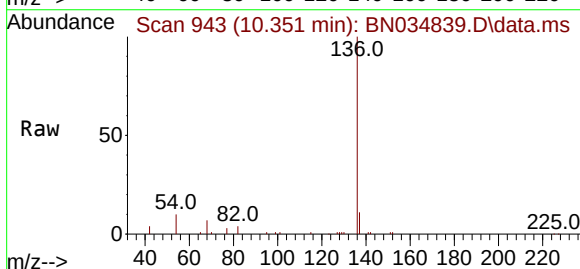
Manual Integrations
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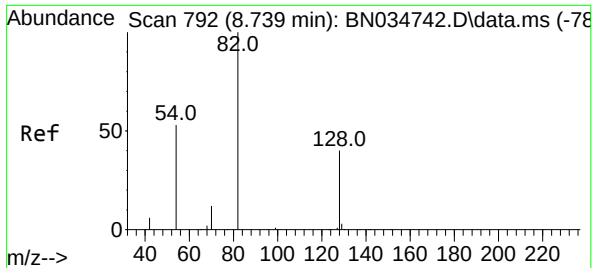
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 943
Delta R.T. -0.021 min
Lab File: BN034839.D
Acq: 04 Nov 2024 14:55

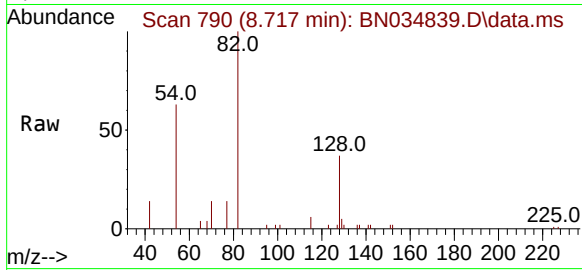
Tgt Ion:136 Resp: 20196
Ion Ratio Lower Upper
136 100
137 11.3 9.2 13.8
54 10.2 7.0 10.4
68 7.4 5.6 8.4





#8
Nitrobenzene-d5
Concen: 0.385 ng
RT: 8.717 min Scan# 792
Delta R.T. -0.021 min
Lab File: BN034839.D
Acq: 04 Nov 2024 14:55

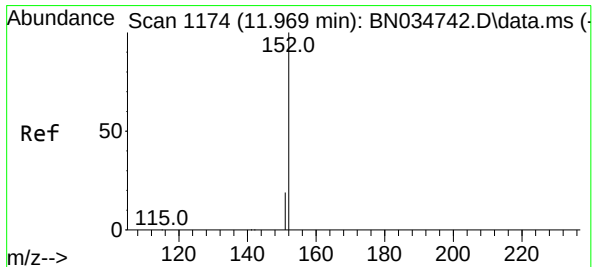
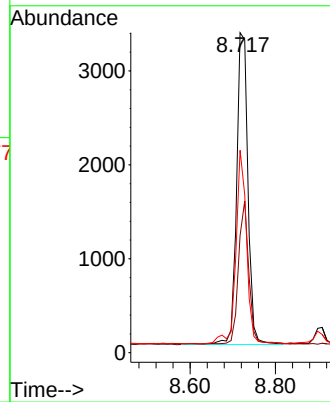
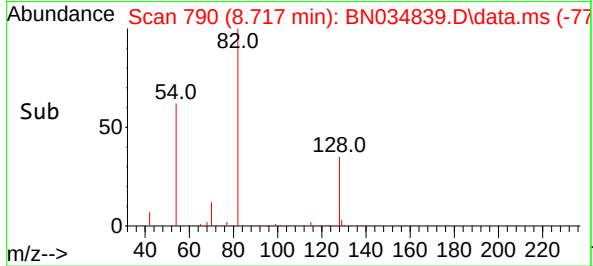
Instrument :
BNA_N
ClientSampleId :
RW5-SP100-50-20241030



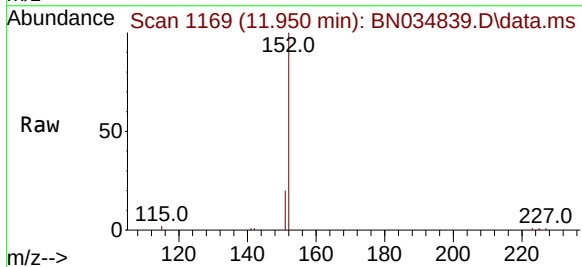
Tgt Ion: 82 Resp: 6109
Ion Ratio Lower Upper
82 100
128 36.6 33.7 50.5
54 63.3 44.4 66.6

Manual Integrations
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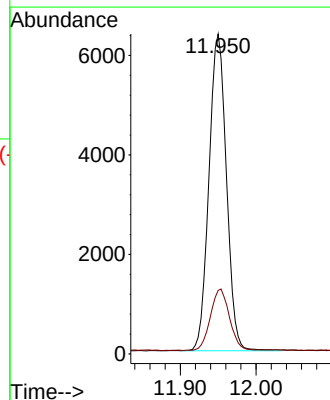
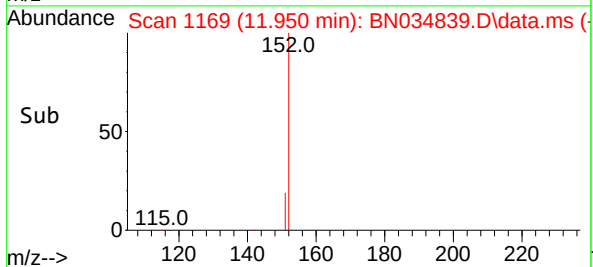
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024

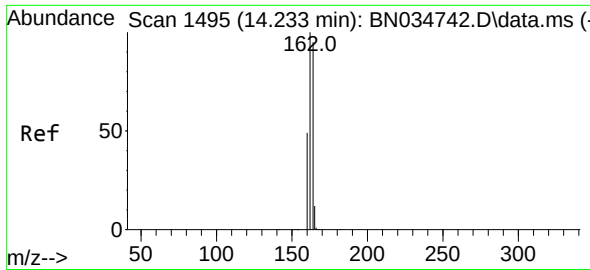


#11
2-Methylnaphthalene-d10
Concen: 0.348 ng
RT: 11.950 min Scan# 1169
Delta R.T. -0.019 min
Lab File: BN034839.D
Acq: 04 Nov 2024 14:55



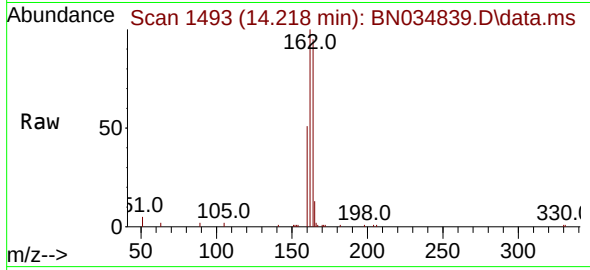
Tgt Ion:152 Resp: 10186
Ion Ratio Lower Upper
152 100
151 20.9 16.6 24.8





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.218 min Scan# 1493
Delta R.T. -0.015 min
Lab File: BN034839.D
Acq: 04 Nov 2024 14:55

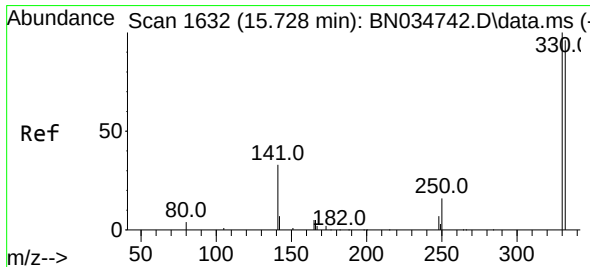
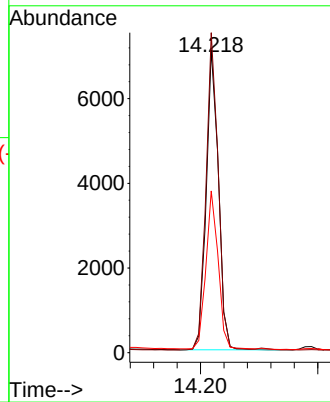
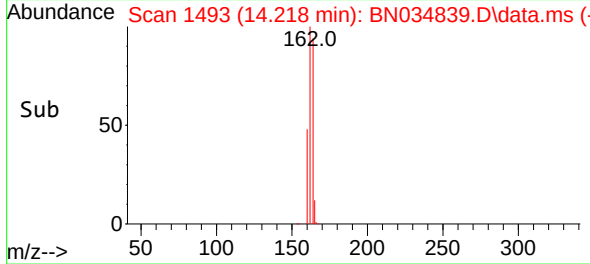
Instrument :
BNA_N
ClientSampleId :
RW5-SP100-50-20241030



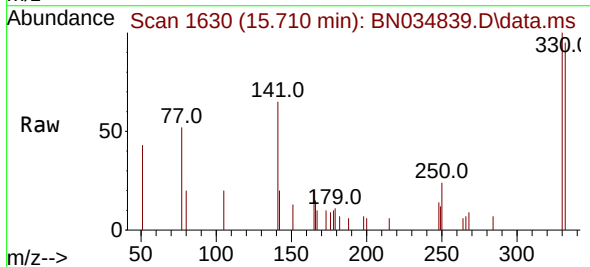
Tgt Ion:164 Resp: 10300
Ion Ratio Lower Upper
164 100
162 105.7 84.3 126.5
160 53.4 41.7 62.5

Manual Integrations
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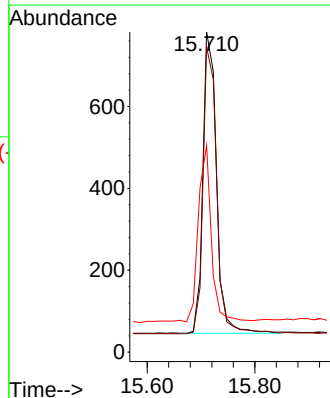
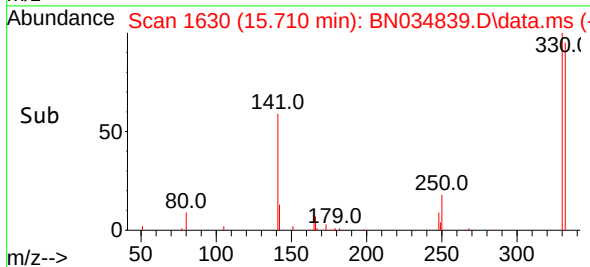
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024

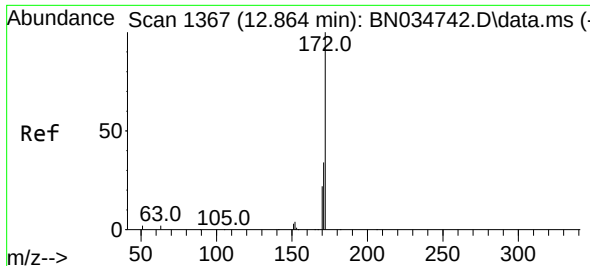


#14
2,4,6-Tribromophenol
Concen: 0.254 ng
RT: 15.710 min Scan# 1630
Delta R.T. -0.018 min
Lab File: BN034839.D
Acq: 04 Nov 2024 14:55



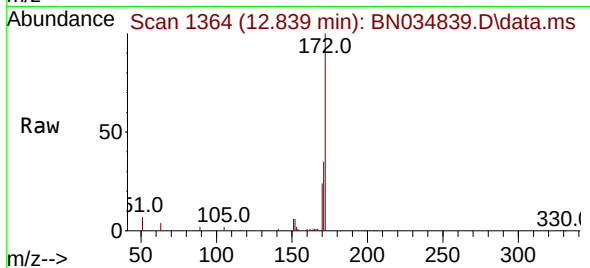
Tgt Ion:330 Resp: 1295
Ion Ratio Lower Upper
330 100
332 95.4 77.8 116.6
141 62.4 41.0 61.4#





#15
2-Fluorobiphenyl
Concen: 0.385 ng
RT: 12.839 min Scan# 11
Delta R.T. -0.025 min
Lab File: BN034839.D
Acq: 04 Nov 2024 14:55

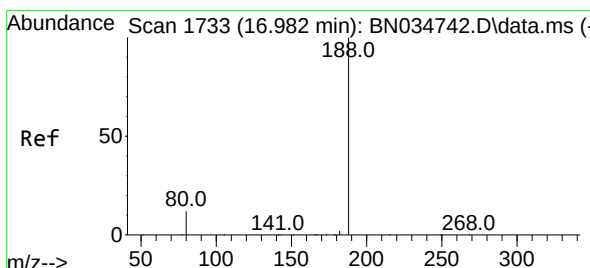
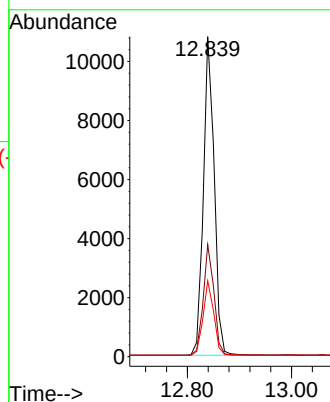
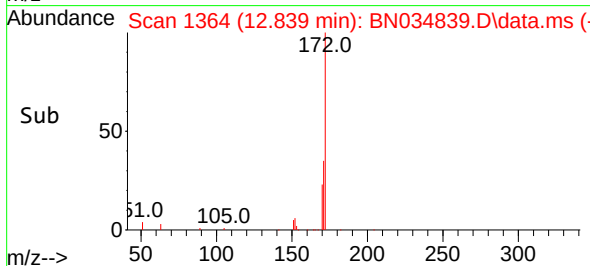
Instrument :
BNA_N
ClientSampleId :
RW5-SP100-50-20241030



Tgt Ion:172 Resp: 1562
Ion Ratio Lower Upper
172 100
171 35.0 27.2 40.8
170 23.7 18.0 27.0

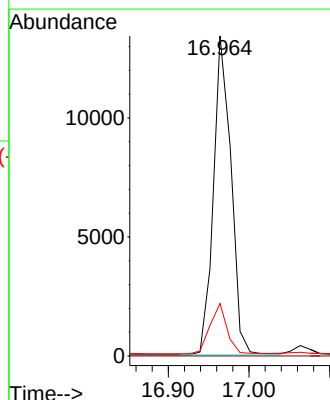
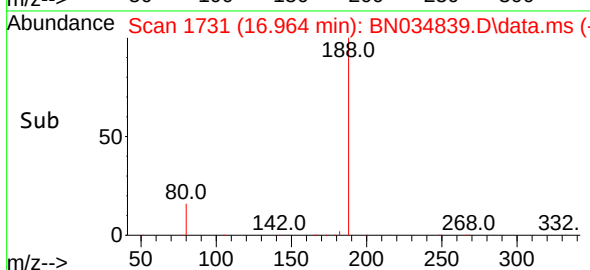
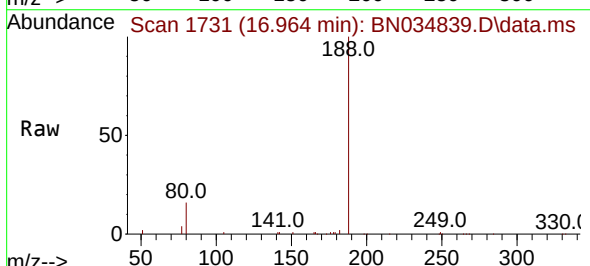
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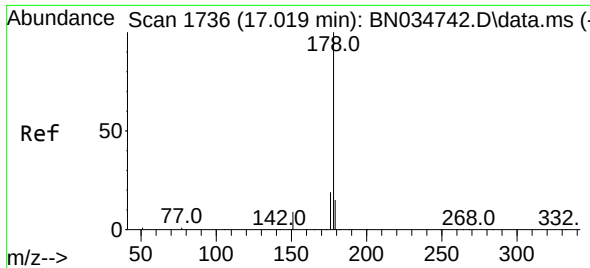
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.964 min Scan# 1731
Delta R.T. -0.018 min
Lab File: BN034839.D
Acq: 04 Nov 2024 14:55

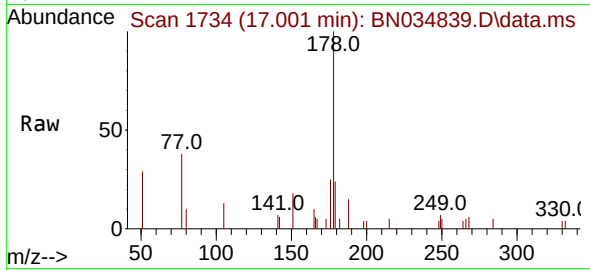
Tgt Ion:188 Resp: 20231
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 16.4 9.8 14.6#





#25
Phenanthrene
Concen: 0.031 ng
RT: 17.001 min Scan# 1742
Delta R.T. -0.018 min
Lab File: BN034839.D
Acq: 04 Nov 2024 14:55

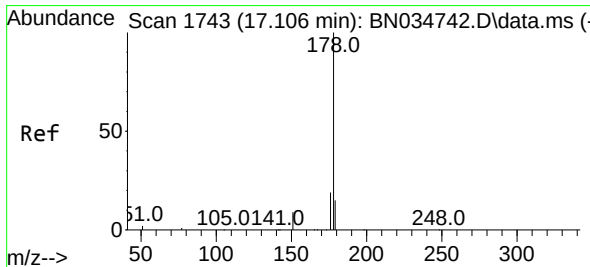
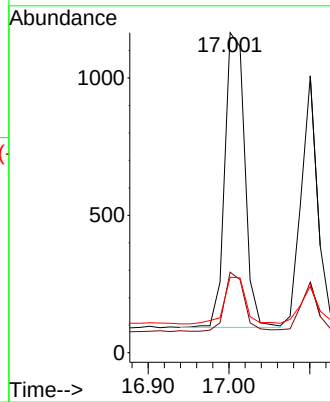
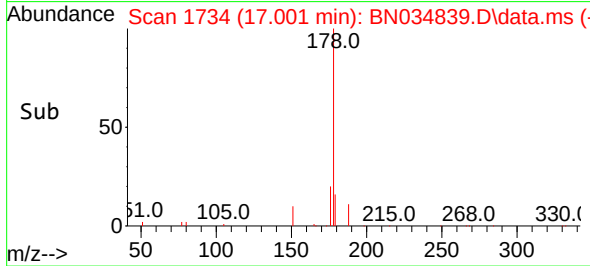
Instrument :
BNA_N
ClientSampleId :
RW5-SP100-50-20241030



Tgt Ion:178 Resp: 184
Ion Ratio Lower Upper
178 100
176 19.5 15.4 23.0
179 16.6 12.2 18.4

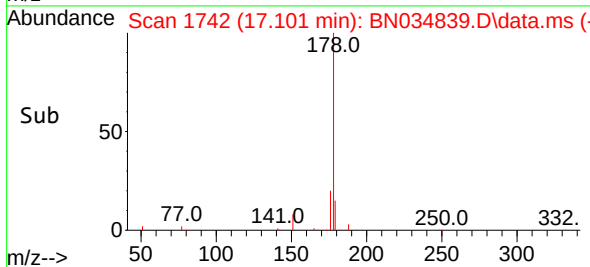
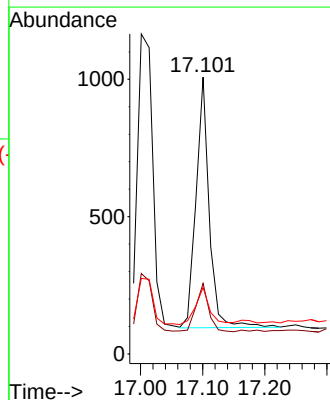
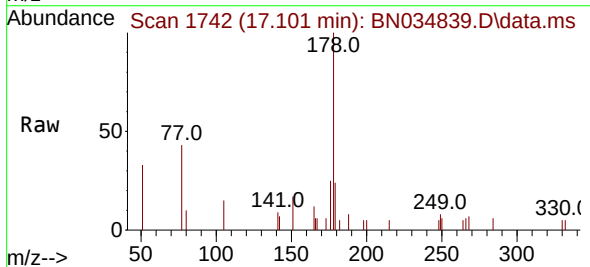
Manual Integrations
APPROVED

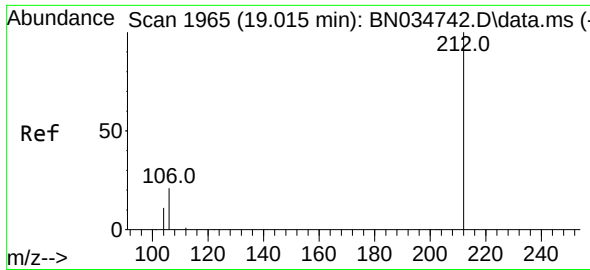
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



#26
Anthracene
Concen: 0.024 ng
RT: 17.101 min Scan# 1742
Delta R.T. -0.006 min
Lab File: BN034839.D
Acq: 04 Nov 2024 14:55

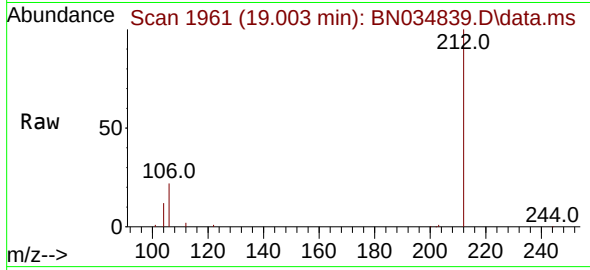
Tgt Ion:178 Resp: 1352
Ion Ratio Lower Upper
178 100
176 18.4 15.0 22.6
179 15.2 12.2 18.2





#27
Fluoranthene-d10
Concen: 0.429 ng
RT: 19.003 min Scan# 1965
Delta R.T. -0.012 min
Lab File: BN034839.D
Acq: 04 Nov 2024 14:55

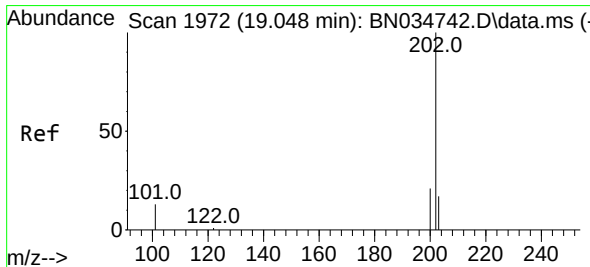
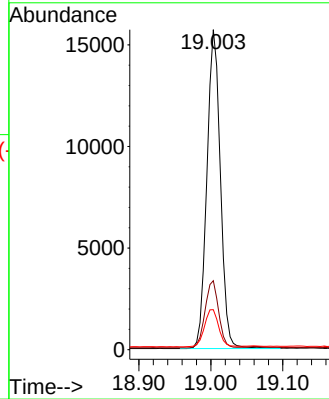
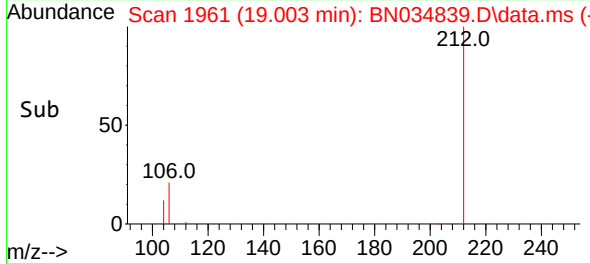
Instrument :
BNA_N
ClientSampleId :
RW5-SP100-50-20241030



Tgt Ion:212 Resp: 2036
Ion Ratio Lower Upper
212 100
106 21.2 16.1 24.1
104 12.3 9.2 13.8

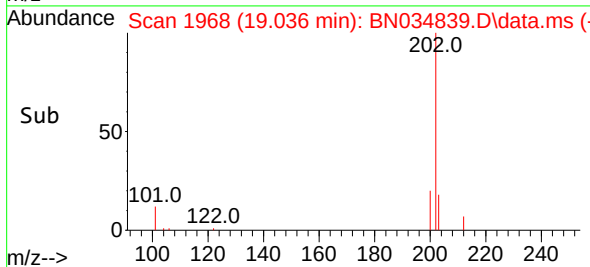
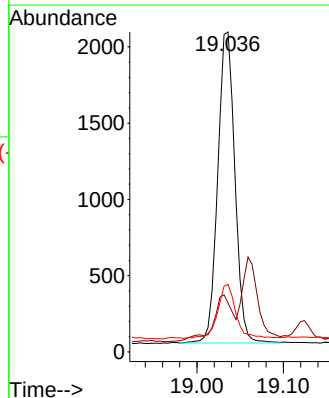
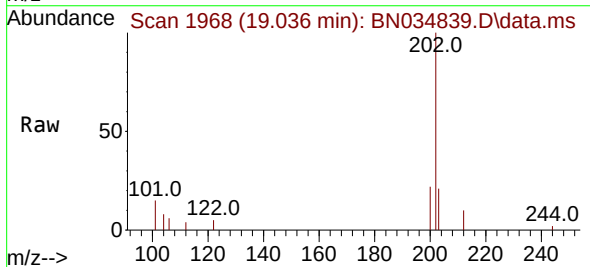
Manual Integrations
APPROVED

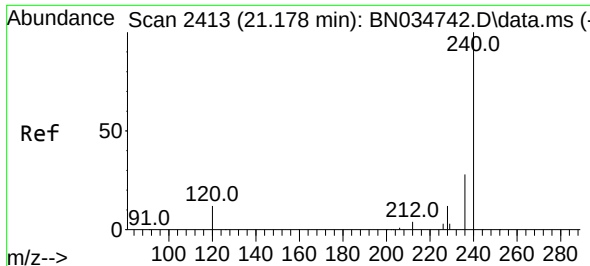
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



#28
Fluoranthene
Concen: 0.043 ng
RT: 19.036 min Scan# 1968
Delta R.T. -0.012 min
Lab File: BN034839.D
Acq: 04 Nov 2024 14:55

Tgt Ion:202 Resp: 2824
Ion Ratio Lower Upper
202 100
101 16.9 11.4 17.0
203 18.7 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.167 min Scan# 2413

Delta R.T. -0.011 min

Lab File: BN034839.D

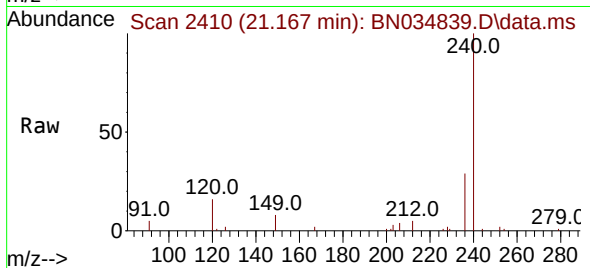
Acq: 04 Nov 2024 14:55

Instrument :

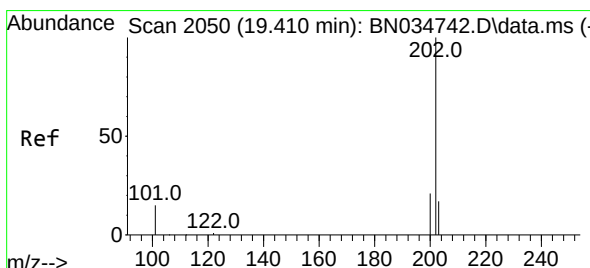
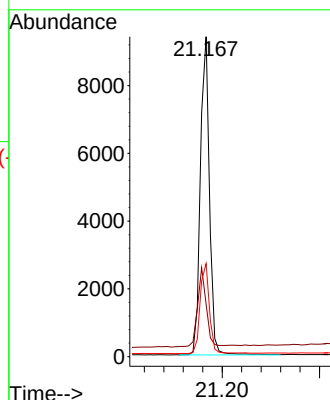
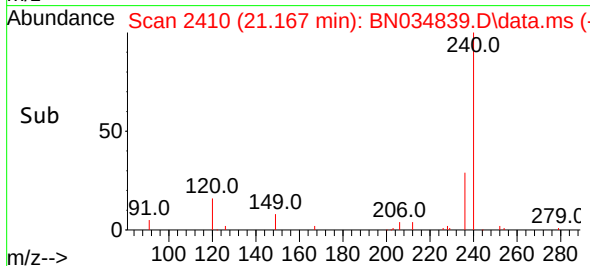
BNA_N

ClientSampleId :

RW5-SP100-50-20241030



Tgt Ion:	240	Resp:	12090
Ion Ratio	Lower	Upper	
240	100		
120	16.4	11.5	17.3
236	29.1	23.2	34.8

Manual Integrations
APPROVEDReviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024

#30

Pyrene

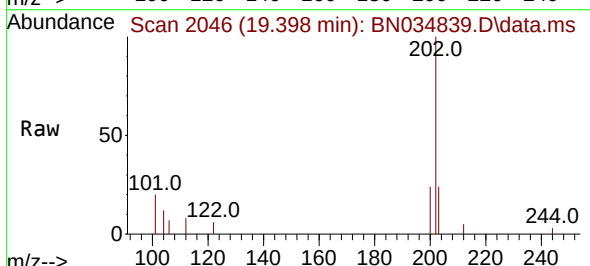
Concen: 0.030 ng

RT: 19.398 min Scan# 2046

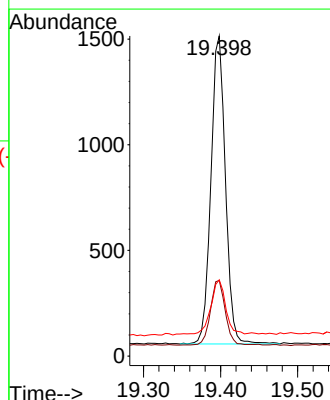
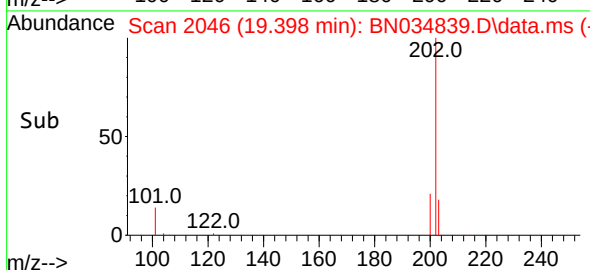
Delta R.T. -0.012 min

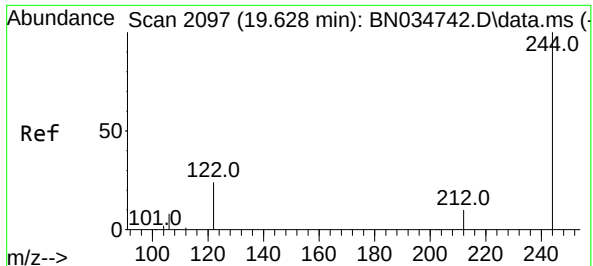
Lab File: BN034839.D

Acq: 04 Nov 2024 14:55



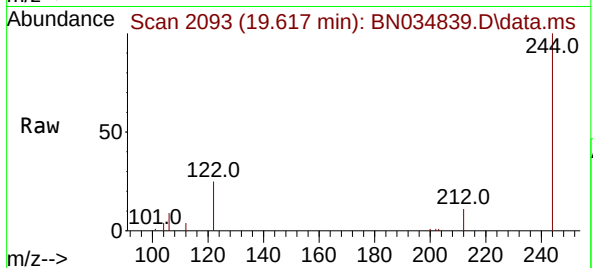
Tgt Ion:	202	Resp:	1908
Ion Ratio	Lower	Upper	
202	100		
200	21.2	17.0	25.4
203	19.0	14.2	21.2





#31
Terphenyl-d14
Concen: 0.491 ng
RT: 19.617 min Scan# 2097
Delta R.T. -0.012 min
Lab File: BN034839.D
Acq: 04 Nov 2024 14:55

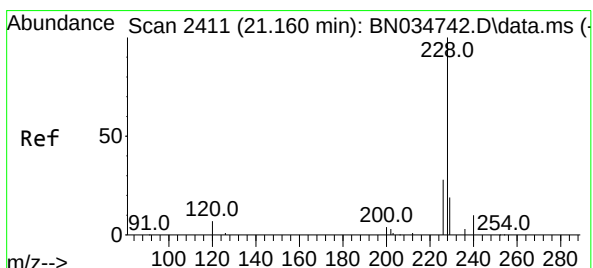
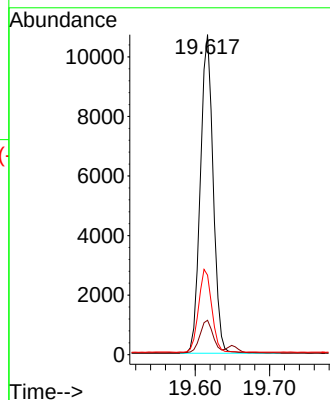
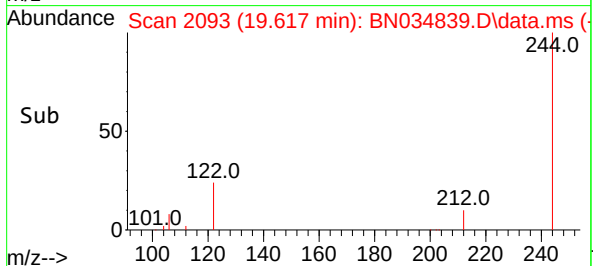
Instrument :
BNA_N
ClientSampleId :
RW5-SP100-50-20241030



Tgt Ion:244 Resp: 1275
Ion Ratio Lower Upper
244 100
212 10.8 8.2 12.4
122 24.8 19.8 29.6

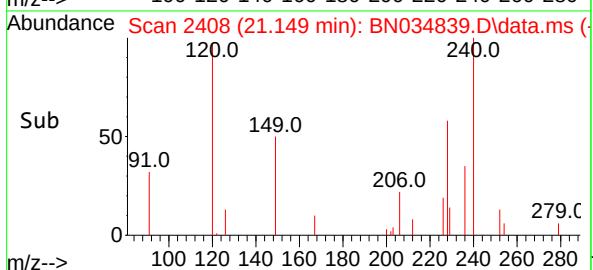
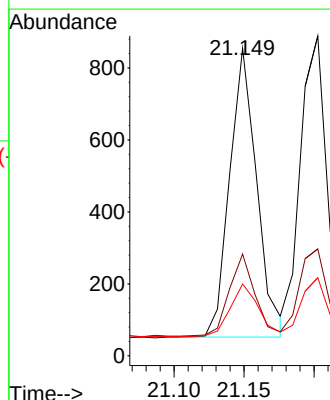
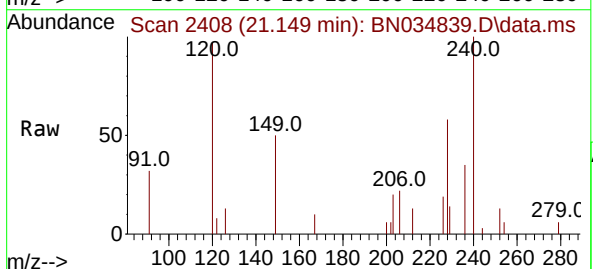
Manual Integrations
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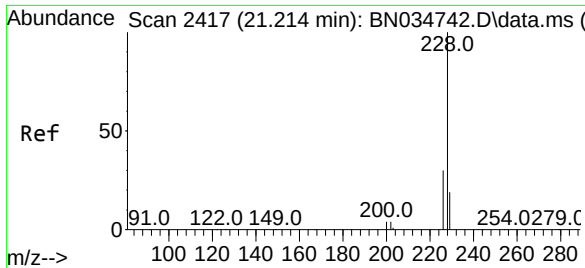
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



#32
Benzo(a)anthracene
Concen: 0.022 ng
RT: 21.149 min Scan# 2408
Delta R.T. -0.011 min
Lab File: BN034839.D
Acq: 04 Nov 2024 14:55

Tgt Ion:228 Resp: 1080
Ion Ratio Lower Upper
228 100
226 33.1 22.6 33.8
229 23.4 15.7 23.5





#33

Chrysene

Concen: 0.024 ng m

RT: 21.203 min Scan# 2417

Delta R.T. -0.011 min

Lab File: BN034839.D

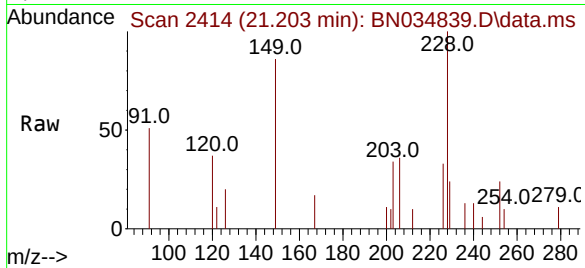
Acq: 04 Nov 2024 14:55

Instrument :

BNA_N

ClientSampleId :

RW5-SP100-50-20241030



Tgt Ion:228 Resp: 1110

Ion Ratio Lower Upper

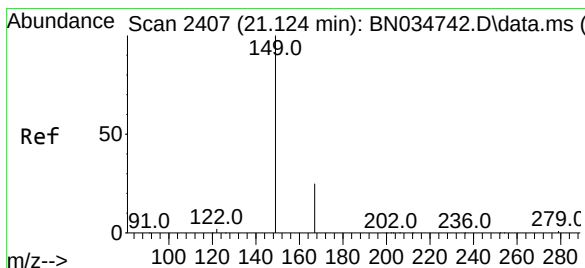
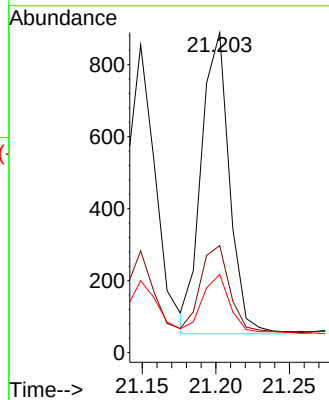
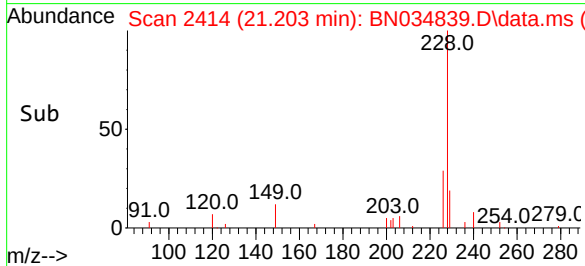
228 100

226 33.4 24.4 36.6

229 24.4 15.6 23.4

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024

#34

Bis(2-ethylhexyl)phthalate

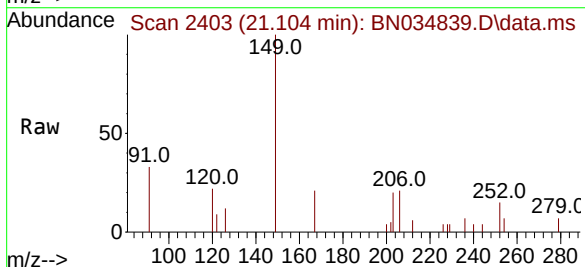
Concen: 0.022 ng

RT: 21.104 min Scan# 2403

Delta R.T. -0.020 min

Lab File: BN034839.D

Acq: 04 Nov 2024 14:55



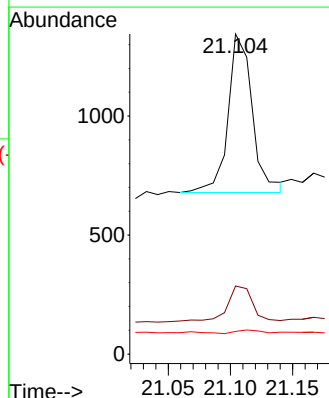
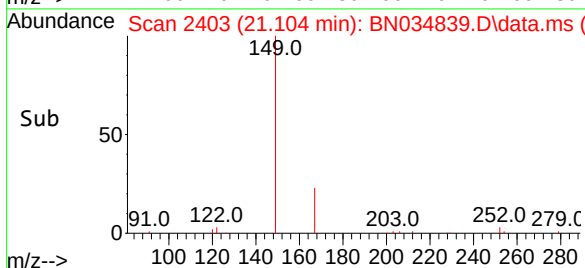
Tgt Ion:149 Resp: 903

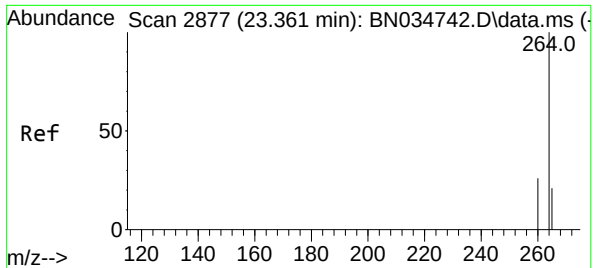
Ion Ratio Lower Upper

149 100

167 21.8 20.6 30.8

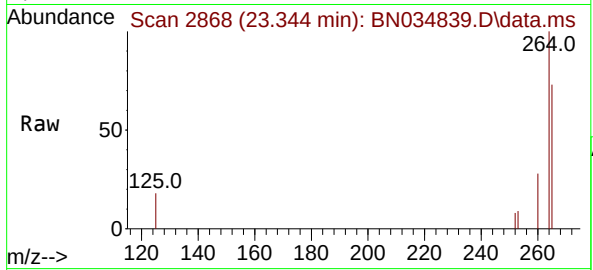
279 2.7 1.5 2.3





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.344 min Scan# 21
Delta R.T. -0.017 min
Lab File: BN034839.D
Acq: 04 Nov 2024 14:55

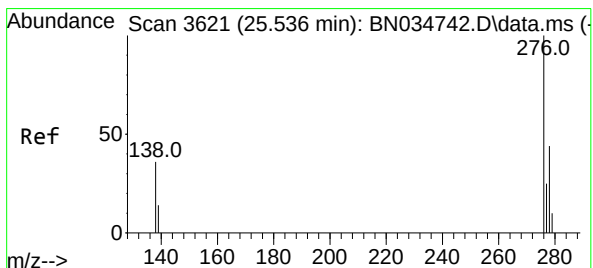
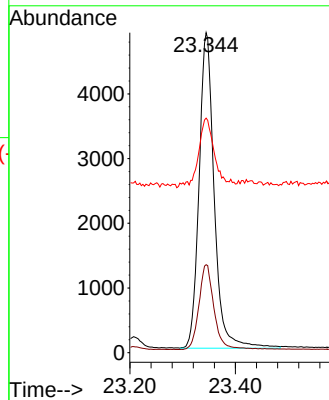
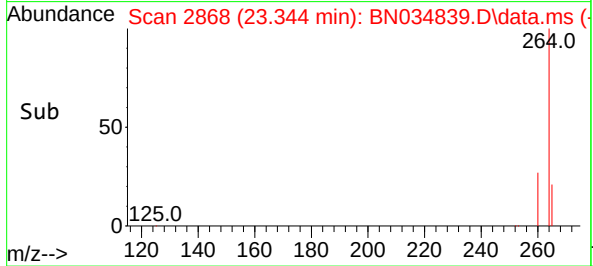
Instrument :
BNA_N
ClientSampleId :
RW5-SP100-50-20241030



Tgt Ion:264 Resp: 971
Ion Ratio Lower Upper
264 100
260 27.5 21.5 32.3
265 73.3 47.5 71.3

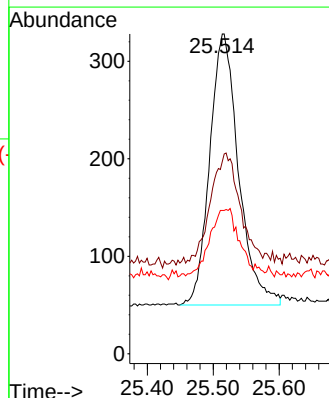
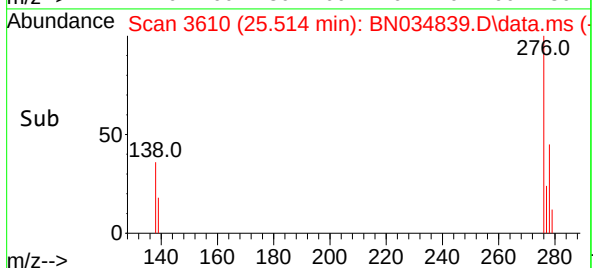
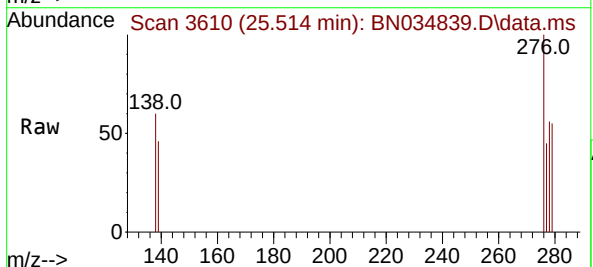
Manual Integrations
APPROVED

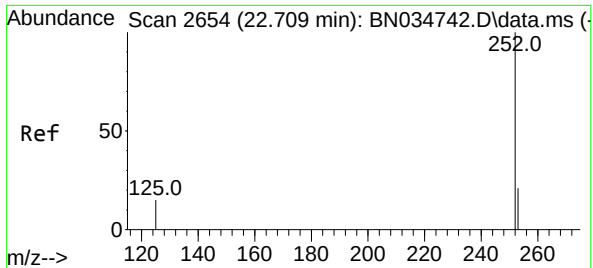
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.024 ng
RT: 25.514 min Scan# 3610
Delta R.T. -0.023 min
Lab File: BN034839.D
Acq: 04 Nov 2024 14:55

Tgt Ion:276 Resp: 846
Ion Ratio Lower Upper
276 100
138 39.8 31.5 47.3
277 24.8 19.7 29.5





#37

Benzo(b)fluoranthene

Concen: 0.031 ng

RT: 22.695 min Scan# 2646

Delta R.T. -0.014 min

Lab File: BN034839.D

Acq: 04 Nov 2024 14:55

Instrument :

BNA_N

ClientSampleId :

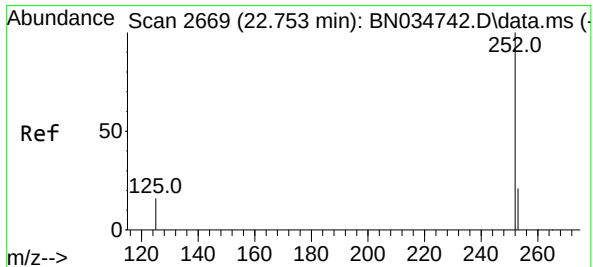
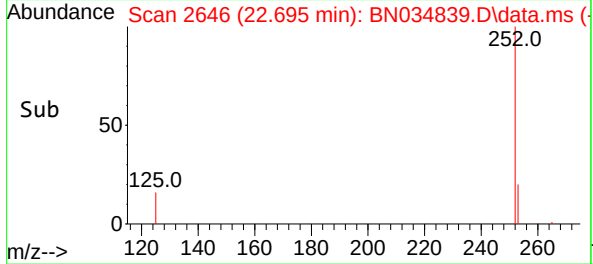
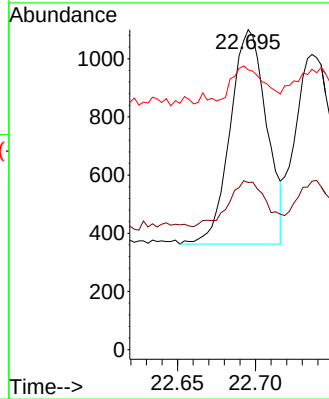
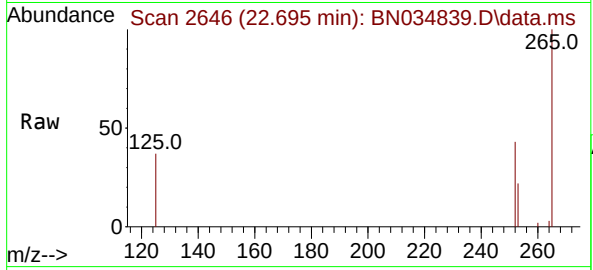
RW5-SP100-50-20241030

Tgt Ion:252	Resp:	1200
Ion Ratio	Lower	Upper
252	100	
253	52.3	19.7 29.5
125	87.5	17.1 25.7

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



#38

Benzo(k)fluoranthene

Concen: 0.029 ng

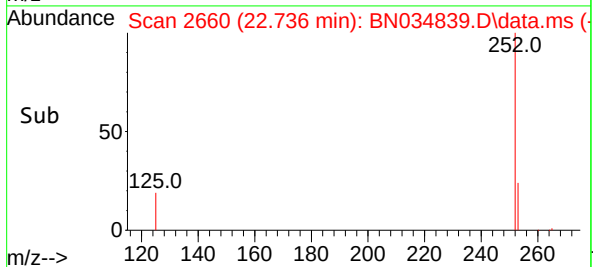
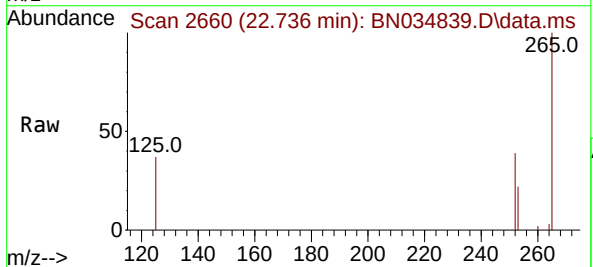
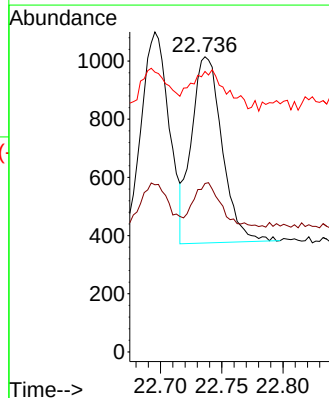
RT: 22.736 min Scan# 2660

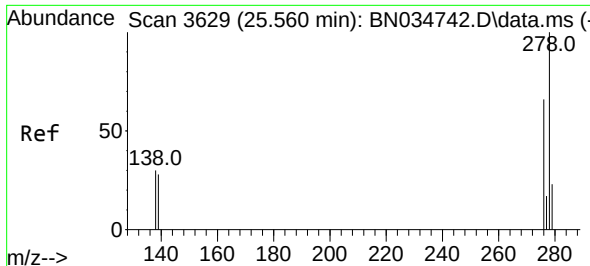
Delta R.T. -0.017 min

Lab File: BN034839.D

Acq: 04 Nov 2024 14:55

Tgt Ion:252	Resp:	1114
Ion Ratio	Lower	Upper
252	100	
253	57.0	19.8 29.6#
125	95.0	18.2 27.2#





#40

Dibenzo(a,h)anthracene

Concen: 0.021 ng

RT: 25.531 min Scan# 30

Delta R.T. -0.029 min

Lab File: BN034839.D

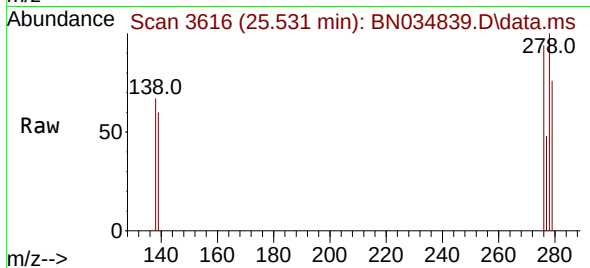
Acq: 04 Nov 2024 14:55

Instrument :

BNA_N

ClientSampleId :

RW5-SP100-50-20241030

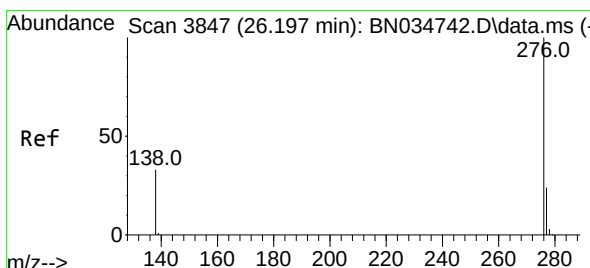
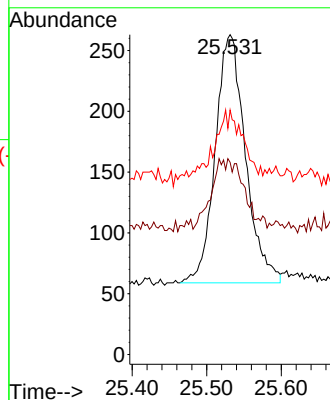
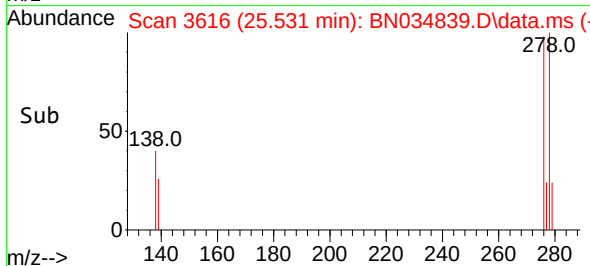


Tgt Ion:	278	Resp:	579
Ion	Ratio	Lower	Upper
278	100		
139	60.1	24.9	37.3#
279	76.4	21.0	31.4#

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



#41

Benzo(g,h,i)perylene

Concen: 0.022 ng m

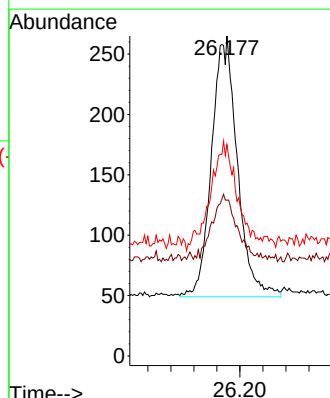
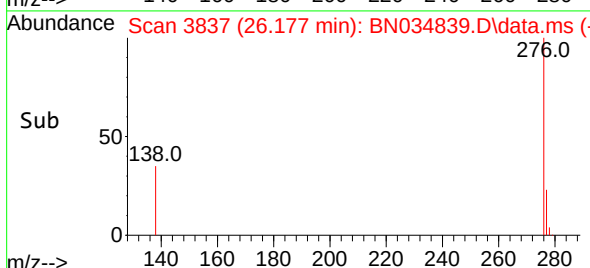
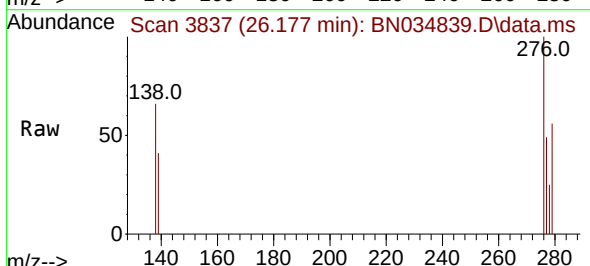
RT: 26.177 min Scan# 3837

Delta R.T. -0.020 min

Lab File: BN034839.D

Acq: 04 Nov 2024 14:55

Tgt Ion:	276	Resp:	668
Ion	Ratio	Lower	Upper
276	100		
277	48.7	20.2	30.2#
138	66.0	28.7	43.1#



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	10/30/24
Project:	CTO WE13	Date Received:	10/31/24
Client Sample ID:	RW5-SP100-50-20241030DL	SDG No.:	P4652
Lab Sample ID:	P4652-01DL	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN034845.D	5	11/01/24 09:35	11/04/24 18:30	PB164594

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	8.50	D	0.34	1.00	1.00	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.34		30 - 150		85%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.40		30 - 150		99%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.39		55 - 111		96%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		53 - 106		96%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.49		58 - 132		123%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	7130		7.589			
1146-65-2	Naphthalene-d8	21500		10.361			
15067-26-2	Acenaphthene-d10	10800		14.222			
1517-22-2	Phenanthrene-d10	21100		16.97			
1719-03-5	Chrysene-d12	11100		21.16			
1520-96-3	Perylene-d12	8620		23.341			

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\BN110424\
Data File : BN034845.D
Acq On : 04 Nov 2024 18:30
Operator : RC/JU
Sample : P4652-01DL 5X
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-50-20241030DL

Quant Time: Nov 04 23:44:30 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 30 13:28:24 2024
Response via : Initial Calibration

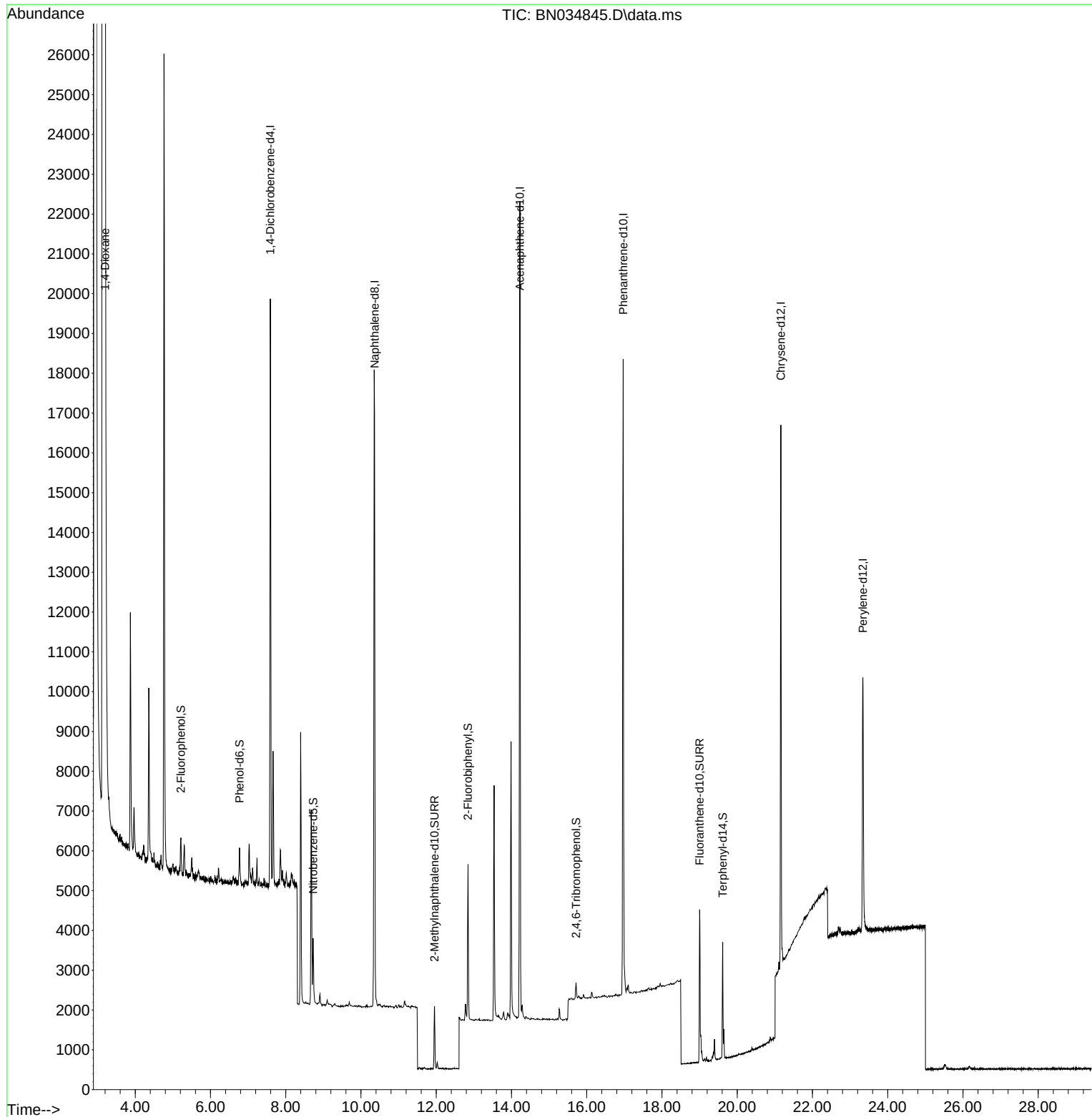
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.589	152	7125	0.400	ng	-0.01
7) Naphthalene-d8	10.361	136	21517	0.400	ng	#-0.01
13) Acenaphthene-d10	14.222	164	10789	0.400	ng	-0.01
19) Phenanthrene-d10	16.970	188	21116	0.400	ng	-0.01
29) Chrysene-d12	21.160	240	11094	0.400	ng	#-0.02
35) Perylene-d12	23.341	264	8617	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.213	112	845	0.039	ng	0.00
5) Phenol-d6	6.773	99	735	0.026	ng	0.00
8) Nitrobenzene-d5	8.728	82	1300	0.077	ng	-0.01
11) 2-Methylnaphthalene-d10	11.954	152	2108	0.068	ng	-0.02
14) 2,4,6-Tribromophenol	15.716	330	238	0.045	ng	-0.01
15) 2-Fluorobiphenyl	12.843	172	3279	0.077	ng	-0.02
27) Fluoranthene-d10	19.001	212	3895	0.079	ng	-0.01
31) Terphenyl-d14	19.614	244	2324	0.098	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	3.198	88	13306	1.704	ng	93

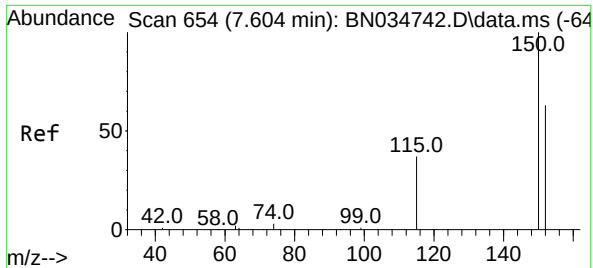
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110424\
Data File : BN034845.D
Acq On : 04 Nov 2024 18:30
Operator : RC/JU
Sample : P4652-01DL 5X
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-50-20241030DL

Quant Time: Nov 04 23:44:30 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 30 13:28:24 2024
Response via : Initial Calibration

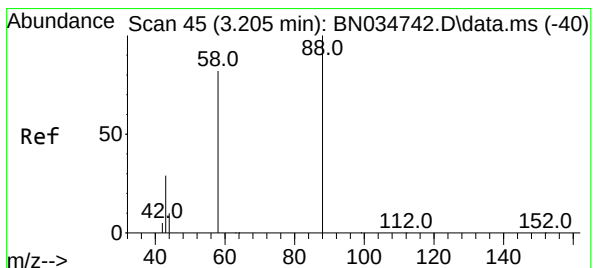
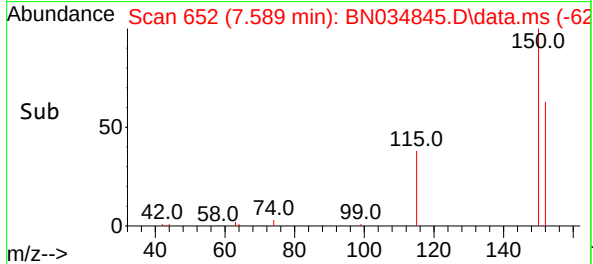
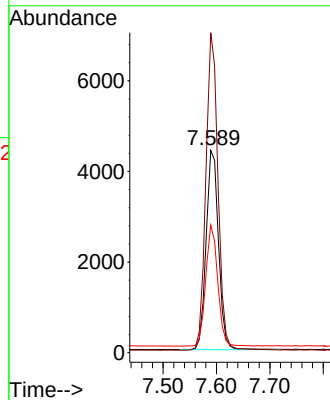
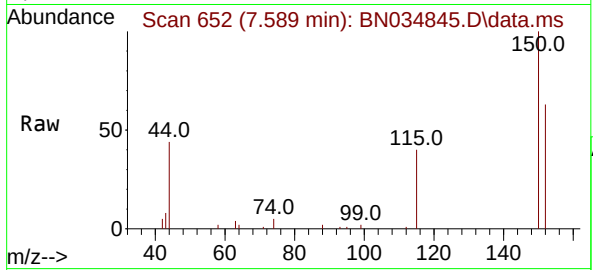




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.589 min Scan# 61
Delta R.T. -0.015 min
Lab File: BN034845.D
Acq: 04 Nov 2024 18:30

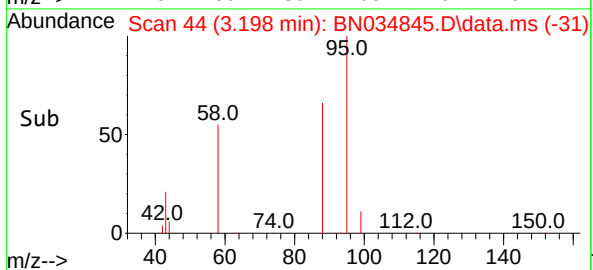
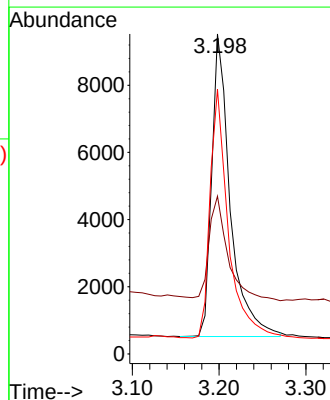
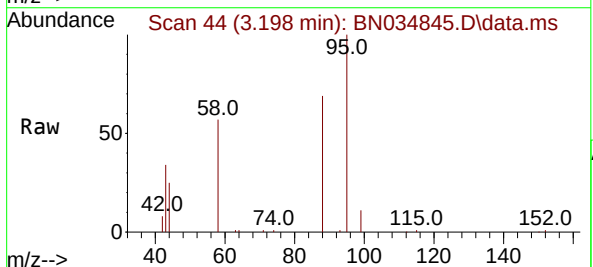
Instrument :
BNA_N
ClientSampleId :
RW5-SP100-50-20241030DL

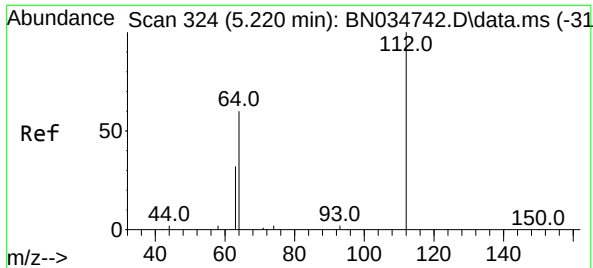
Tgt Ion:152 Resp: 7125
Ion Ratio Lower Upper
152 100
150 158.2 124.9 187.3
115 63.0 50.2 75.2



#2
1,4-Dioxane
Concen: 1.704 ng
RT: 3.198 min Scan# 44
Delta R.T. -0.007 min
Lab File: BN034845.D
Acq: 04 Nov 2024 18:30

Tgt Ion: 88 Resp: 13306
Ion Ratio Lower Upper
88 100
43 35.7 26.7 40.1
58 81.3 59.3 88.9

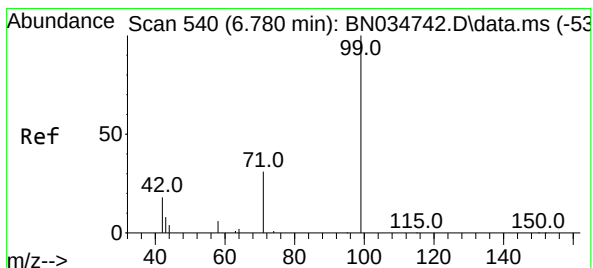
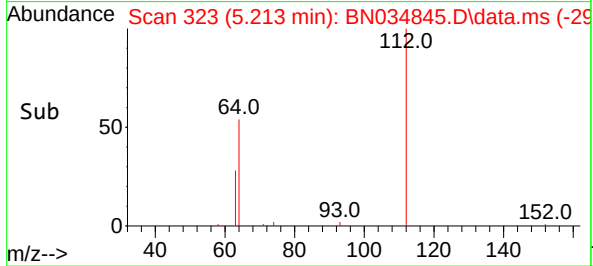
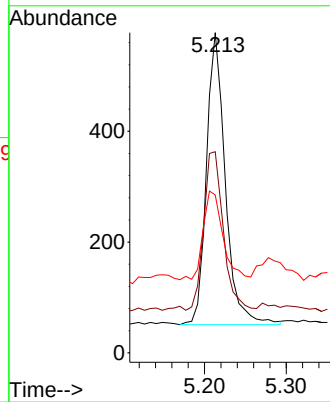
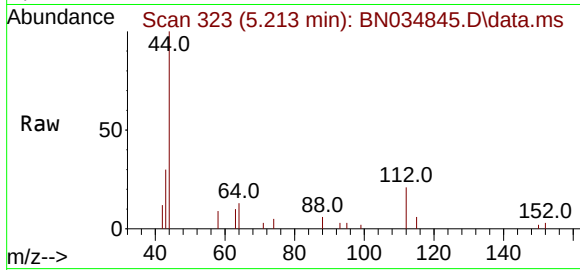




#4
2-Fluorophenol
Concen: 0.039 ng
RT: 5.213 min Scan# 31
Delta R.T. -0.007 min
Lab File: BN034845.D
Acq: 04 Nov 2024 18:30

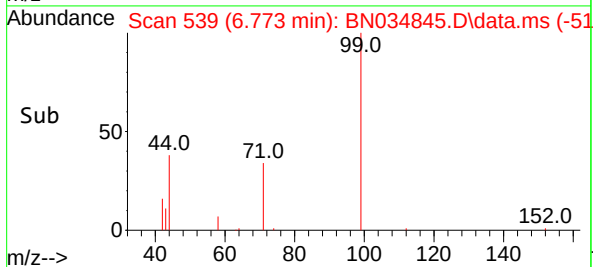
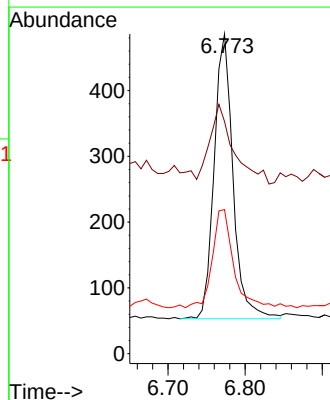
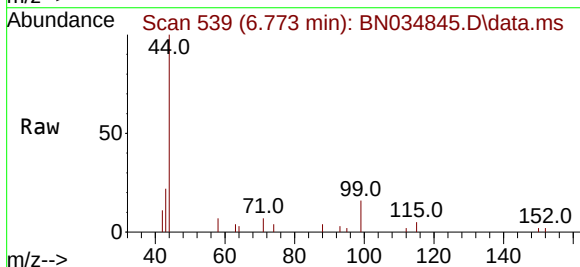
Instrument :
BNA_N
ClientSampleId :
RW5-SP100-50-20241030DL

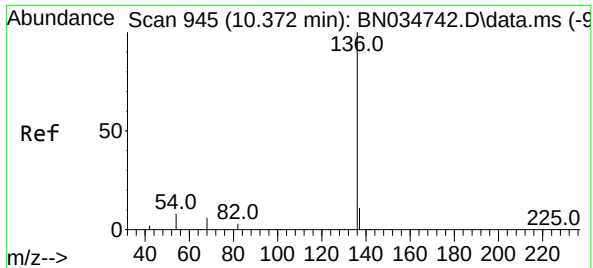
Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.3	44.9	67.3
63	32.5	23.5	35.3



#5
Phenol-d6
Concen: 0.026 ng
RT: 6.773 min Scan# 539
Delta R.T. -0.007 min
Lab File: BN034845.D
Acq: 04 Nov 2024 18:30

Tgt Ion	Ratio	Lower	Upper
99	100		
42	35.4	15.9	23.9#
71	38.4	24.3	36.5#

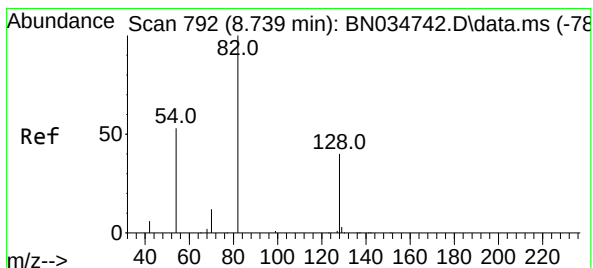
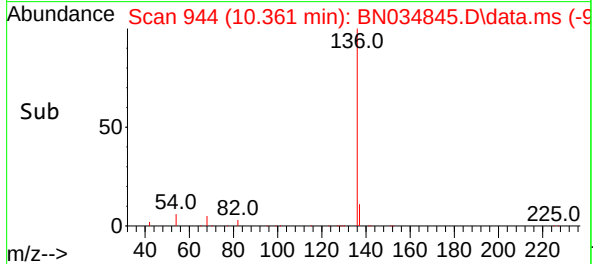
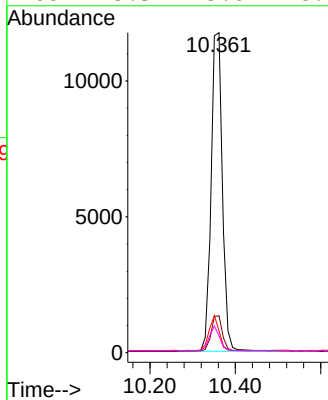
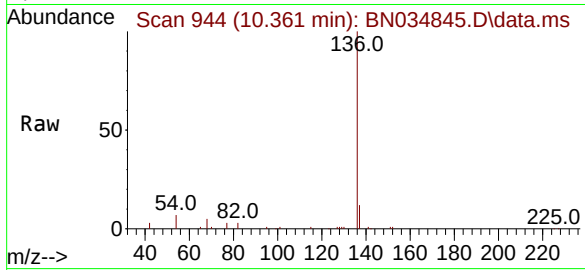




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.361 min Scan# 945
Delta R.T. -0.011 min
Lab File: BN034845.D
Acq: 04 Nov 2024 18:30

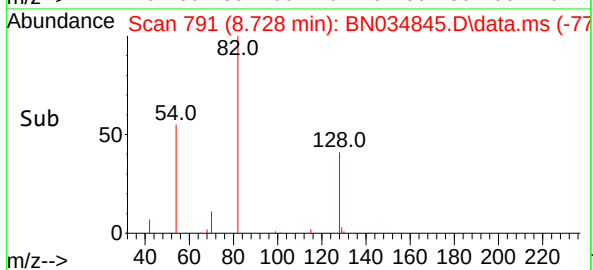
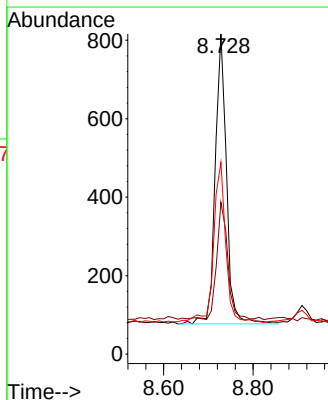
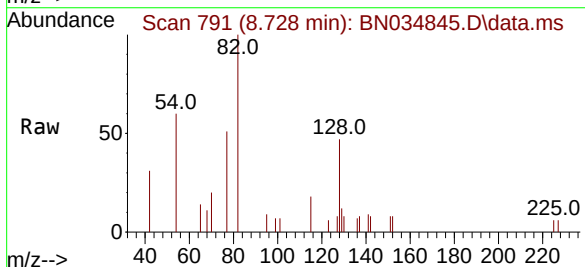
Instrument :
BNA_N
ClientSampleId :
RW5-SP100-50-20241030DL

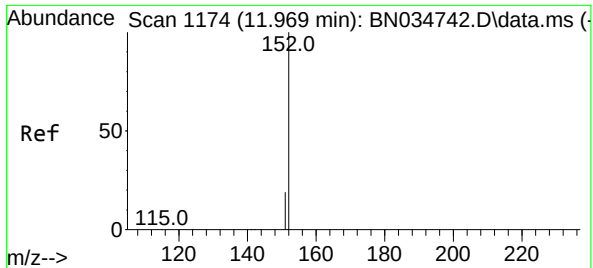
Tgt Ion:	136	Resp:	21517
Ion	Ratio	Lower	Upper
136	100		
137	11.6	9.2	13.8
54	6.8	7.0	10.4#
68	5.3	5.6	8.4#



#8
Nitrobenzene-d5
Concen: 0.077 ng
RT: 8.728 min Scan# 791
Delta R.T. -0.011 min
Lab File: BN034845.D
Acq: 04 Nov 2024 18:30

Tgt Ion:	82	Resp:	1300
Ion	Ratio	Lower	Upper
82	100		
128	47.4	33.7	50.5
54	59.9	44.4	66.6

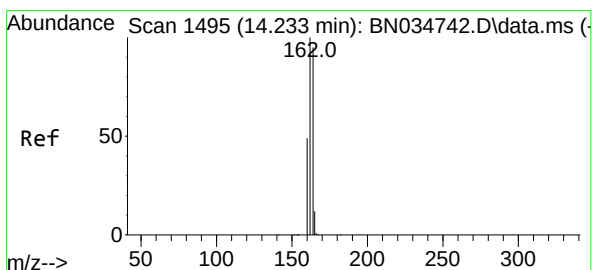
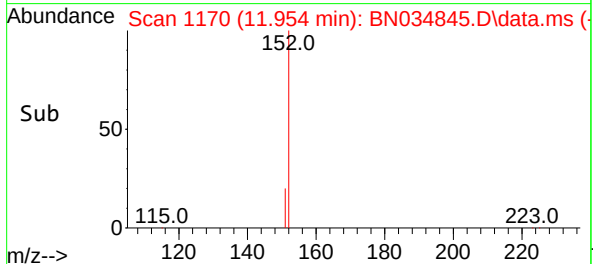
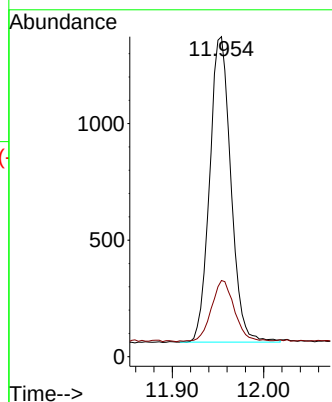
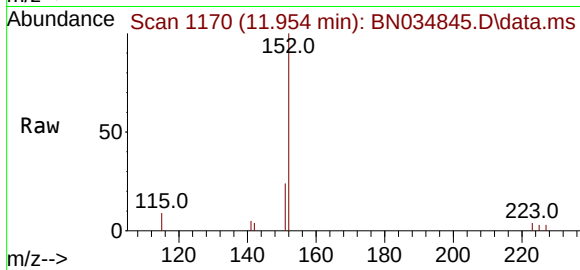




#11
2-Methylnaphthalene-d10
Concen: 0.068 ng
RT: 11.954 min Scan# 1174
Delta R.T. -0.015 min
Lab File: BN034845.D
Acq: 04 Nov 2024 18:30

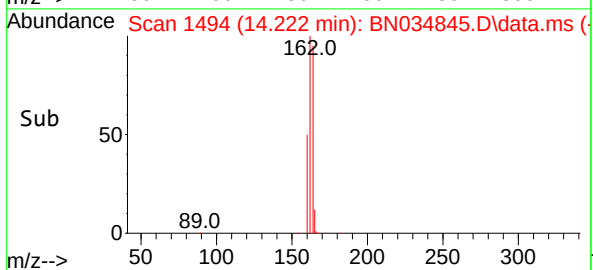
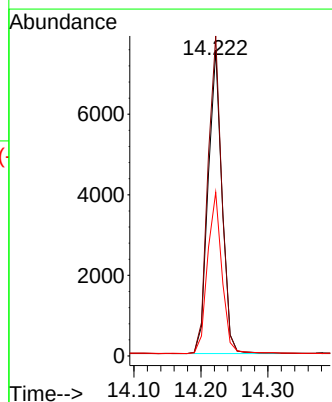
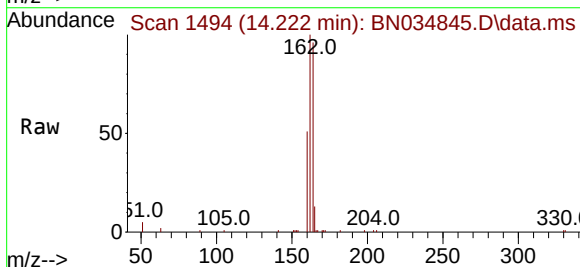
Instrument :
BNA_N
ClientSampleId :
RW5-SP100-50-20241030DL

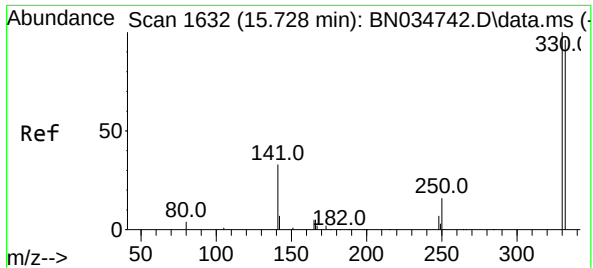
Tgt Ion:152 Resp: 2108
Ion Ratio Lower Upper
152 100
151 21.8 16.6 24.8



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.222 min Scan# 1494
Delta R.T. -0.011 min
Lab File: BN034845.D
Acq: 04 Nov 2024 18:30

Tgt Ion:164 Resp: 10789
Ion Ratio Lower Upper
164 100
162 104.6 84.3 126.5
160 53.5 41.7 62.5

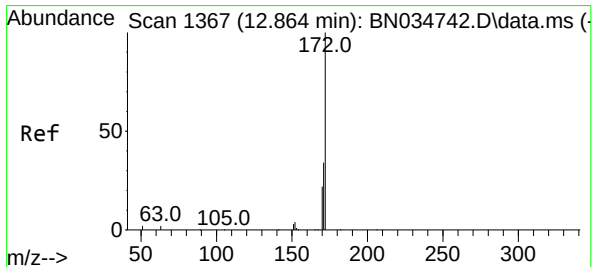
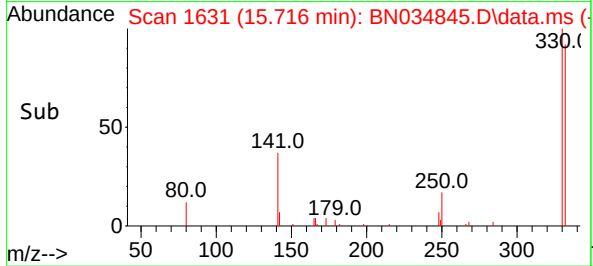
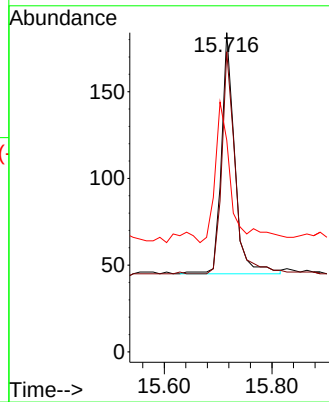
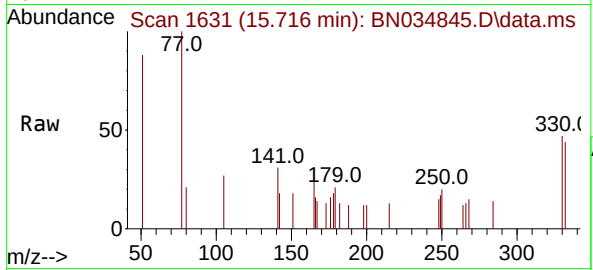




#14
2,4,6-Tribromophenol
Concen: 0.045 ng
RT: 15.716 min Scan# 1631
Delta R.T. -0.012 min
Lab File: BN034845.D
Acq: 04 Nov 2024 18:30

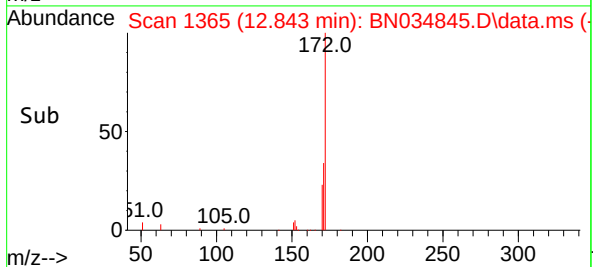
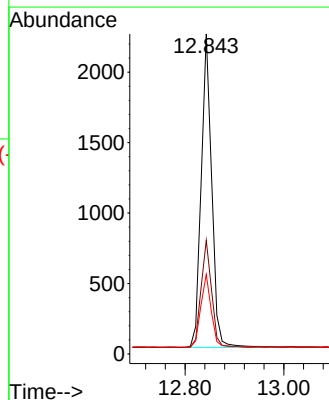
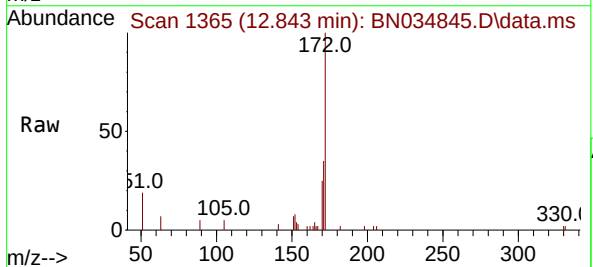
Instrument :
BNA_N
ClientSampleId :
RW5-SP100-50-20241030DL

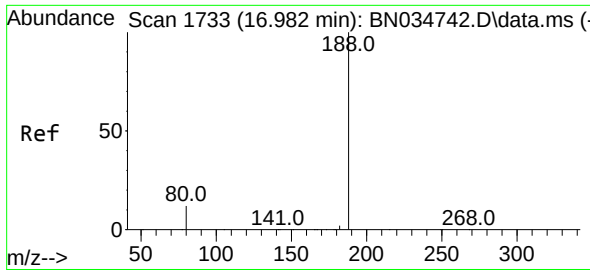
Tgt Ion	330	332	141
Resp:	238		
Ratio	100	93.7	62.6
Lower		77.8	41.0
Upper		116.6	61.4



#15
2-Fluorobiphenyl
Concen: 0.077 ng
RT: 12.843 min Scan# 1365
Delta R.T. -0.021 min
Lab File: BN034845.D
Acq: 04 Nov 2024 18:30

Tgt Ion	172	171	170
Resp:	3279		
Ratio	100	35.5	24.9
Lower		27.2	18.0
Upper		40.8	27.0

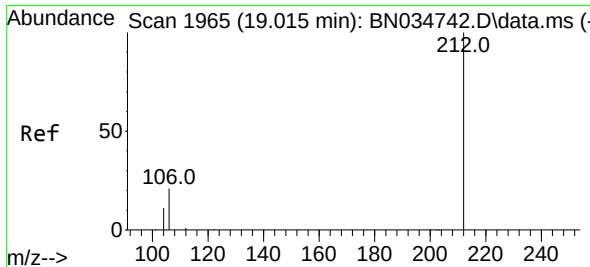
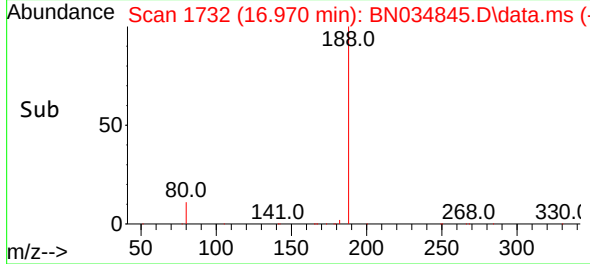
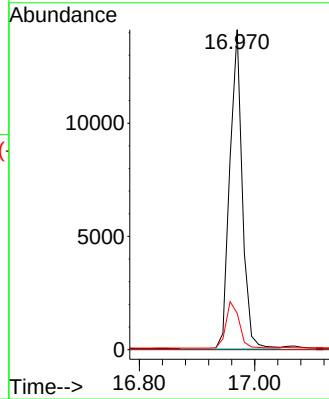
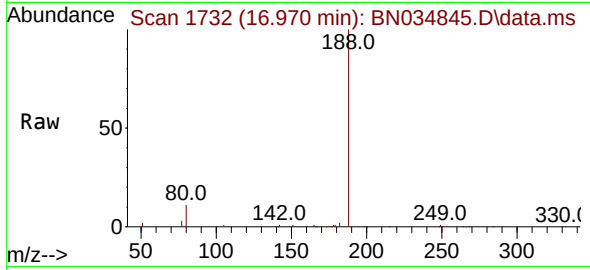




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.970 min Scan# 1732
Delta R.T. -0.012 min
Lab File: BN034845.D
Acq: 04 Nov 2024 18:30

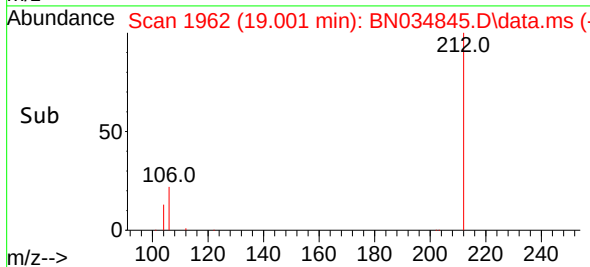
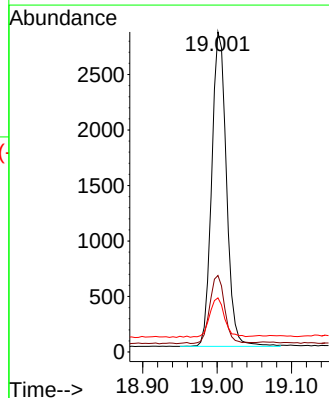
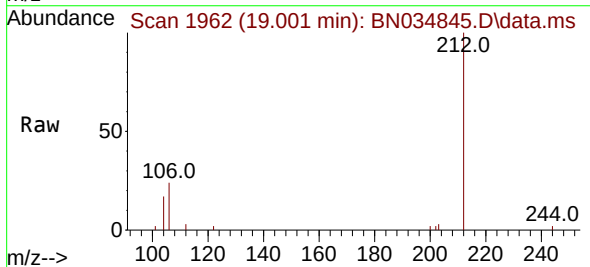
Instrument :
BNA_N
ClientSampleId :
RW5-SP100-50-20241030DL

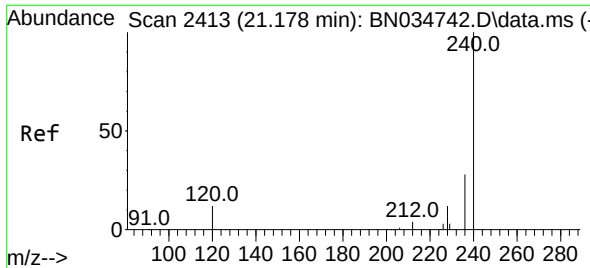
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.4	9.8	14.6



#27
Fluoranthene-d10
Concen: 0.079 ng
RT: 19.001 min Scan# 1962
Delta R.T. -0.014 min
Lab File: BN034845.D
Acq: 04 Nov 2024 18:30

Tgt Ion	Ratio	Lower	Upper
212	100		
106	21.8	16.1	24.1
104	12.6	9.2	13.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.160 min Scan# 2413

Delta R.T. -0.018 min

Lab File: BN034845.D

Acq: 04 Nov 2024 18:30

Instrument :

BNA_N

ClientSampleId :

RW5-SP100-50-20241030DL

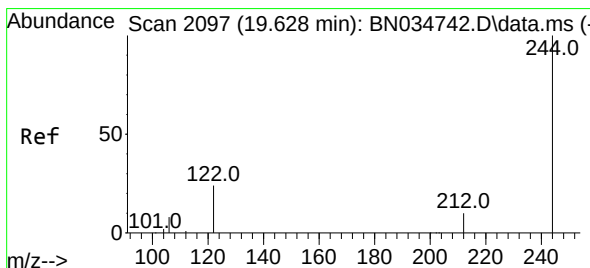
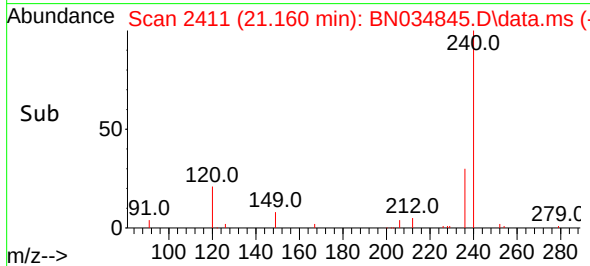
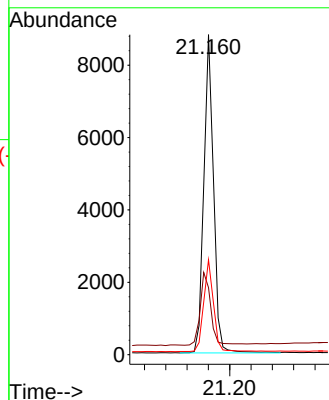
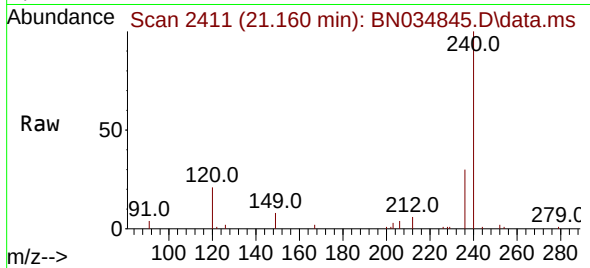
Tgt Ion:240 Resp: 11094

Ion Ratio Lower Upper

240 100

120 21.0 11.5 17.3#

236 29.7 23.2 34.8



#31

Terphenyl-d14

Concen: 0.098 ng

RT: 19.614 min Scan# 2094

Delta R.T. -0.014 min

Lab File: BN034845.D

Acq: 04 Nov 2024 18:30

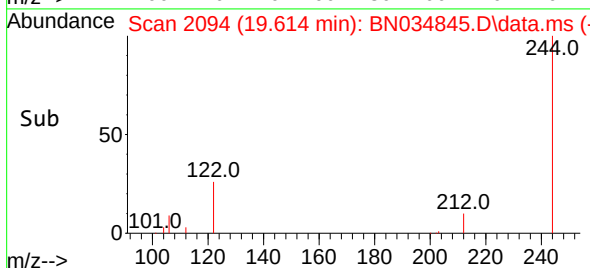
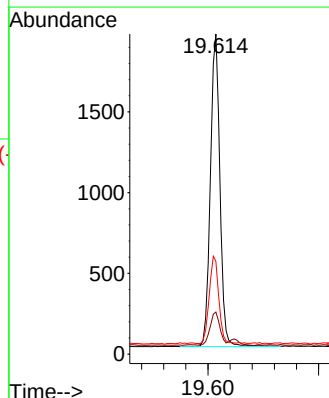
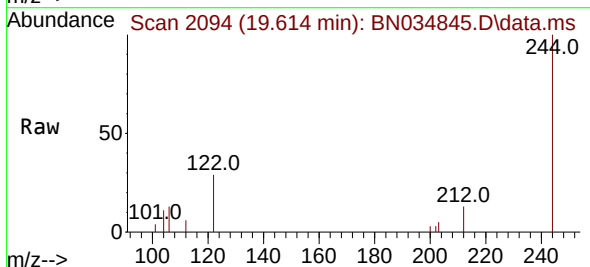
Tgt Ion:244 Resp: 2324

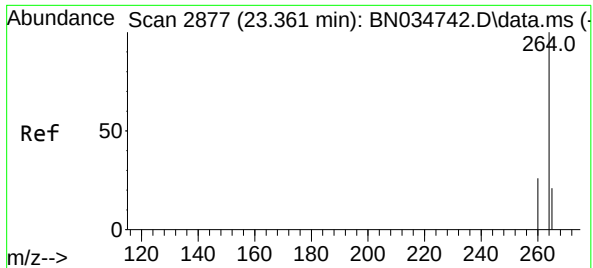
Ion Ratio Lower Upper

244 100

212 13.1 8.2 12.4#

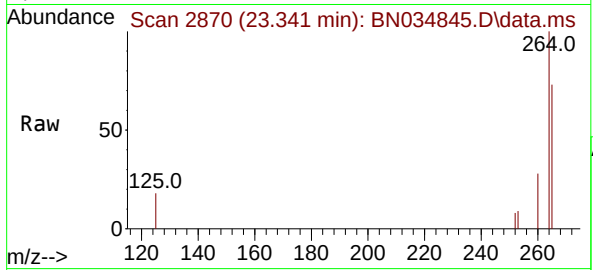
122 28.9 19.8 29.6



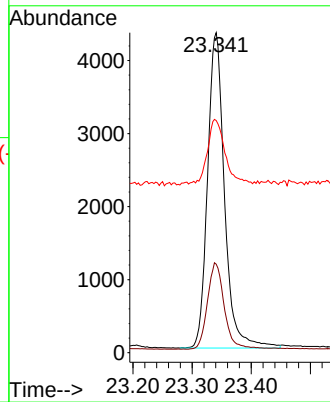
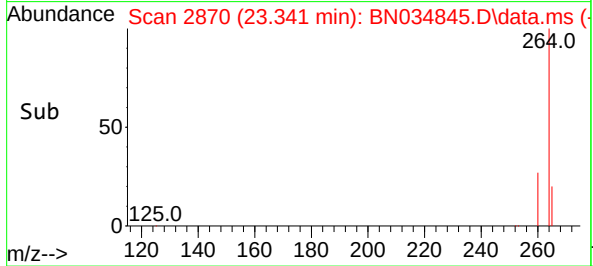


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.341 min Scan# 21
Delta R.T. -0.021 min
Lab File: BN034845.D
Acq: 04 Nov 2024 18:30

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-50-20241030DL



Tgt Ion:264 Resp: 8617
Ion Ratio Lower Upper
264 100
260 27.7 21.5 32.3
265 72.6 47.5 71.3#



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	10/30/24
Project:	CTO WE13	Date Received:	10/31/24
Client Sample ID:	RW5-SP201-50-20241030	SDG No.:	P4652
Lab Sample ID:	P4652-02	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	980 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN034840.D	1	11/01/24 09:35	11/04/24 15:31	PB164594

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.070	J	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.37		30 - 150		93%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.43		30 - 150		108%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.42		55 - 111		104%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.44	*	53 - 106		110%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.53	*	58 - 132		133%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6350		7.589			
1146-65-2	Naphthalene-d8	18900		10.351			
15067-26-2	Acenaphthene-d10	9400		14.222			
1517-22-2	Phenanthrene-d10	18700		16.97			
1719-03-5	Chrysene-d12	10300		21.16			
1520-96-3	Perylene-d12	7620		23.338			

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\BN110424\
Data File : BN034840.D
Acq On : 04 Nov 2024 15:31
Operator : RC/JU
Sample : P4652-02
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW5-SP201-50-20241030

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024

Quant Time: Nov 04 16:08:30 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 30 13:28:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.589	152	6345	0.400	ng	-0.01
7) Naphthalene-d8	10.351	136	18925	0.400	ng	#-0.02
13) Acenaphthene-d10	14.222	164	9397	0.400	ng	-0.01
19) Phenanthrene-d10	16.970	188	18708	0.400	ng	-0.01
29) Chrysene-d12	21.160	240	10340	0.400	ng	#-0.02
35) Perylene-d12	23.338	264	7618	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.213	112	3693	0.192	ng	0.00
5) Phenol-d6	6.773	99	3236	0.130	ng	0.00
8) Nitrobenzene-d5	8.728	82	6185	0.416	ng	-0.01
11) 2-Methylnaphthalene-d10	11.950	152	10220	0.373	ng	-0.02
14) 2,4,6-Tribromophenol	15.716	330	1154	0.249	ng	-0.01
15) 2-Fluorobiphenyl	12.843	172	16254	0.439	ng	-0.02
27) Fluoranthene-d10	19.001	212	19026	0.434	ng	-0.01
31) Terphenyl-d14	19.614	244	11843	0.533	ng	-0.01
Target Compounds						
2) 1,4-Dioxane	3.198	88	455	0.065	ng	# 1
18) Fluorene	15.270	166	851	0.022	ng	# 98
25) Phenanthrene	17.007	178	2106m	0.038	ng	
28) Fluoranthene	19.034	202	3736	0.062	ng	96
30) Pyrene	19.396	202	2579	0.048	ng	98
32) Benzo(a)anthracene	21.142	228	900	0.022	ng	# 89
33) Chrysene	21.196	228	921	0.023	ng	# 90
36) Indeno(1,2,3-cd)pyrene	25.513	276	750	0.027	ng	98
37) Benzo(b)fluoranthene	22.689	252	1336	0.044	ng	# 12
38) Benzo(k)fluoranthene	22.736	252	998	0.033	ng	# 2
41) Benzo(g,h,i)perylene	26.171	276	489	0.021	ng	# 38

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

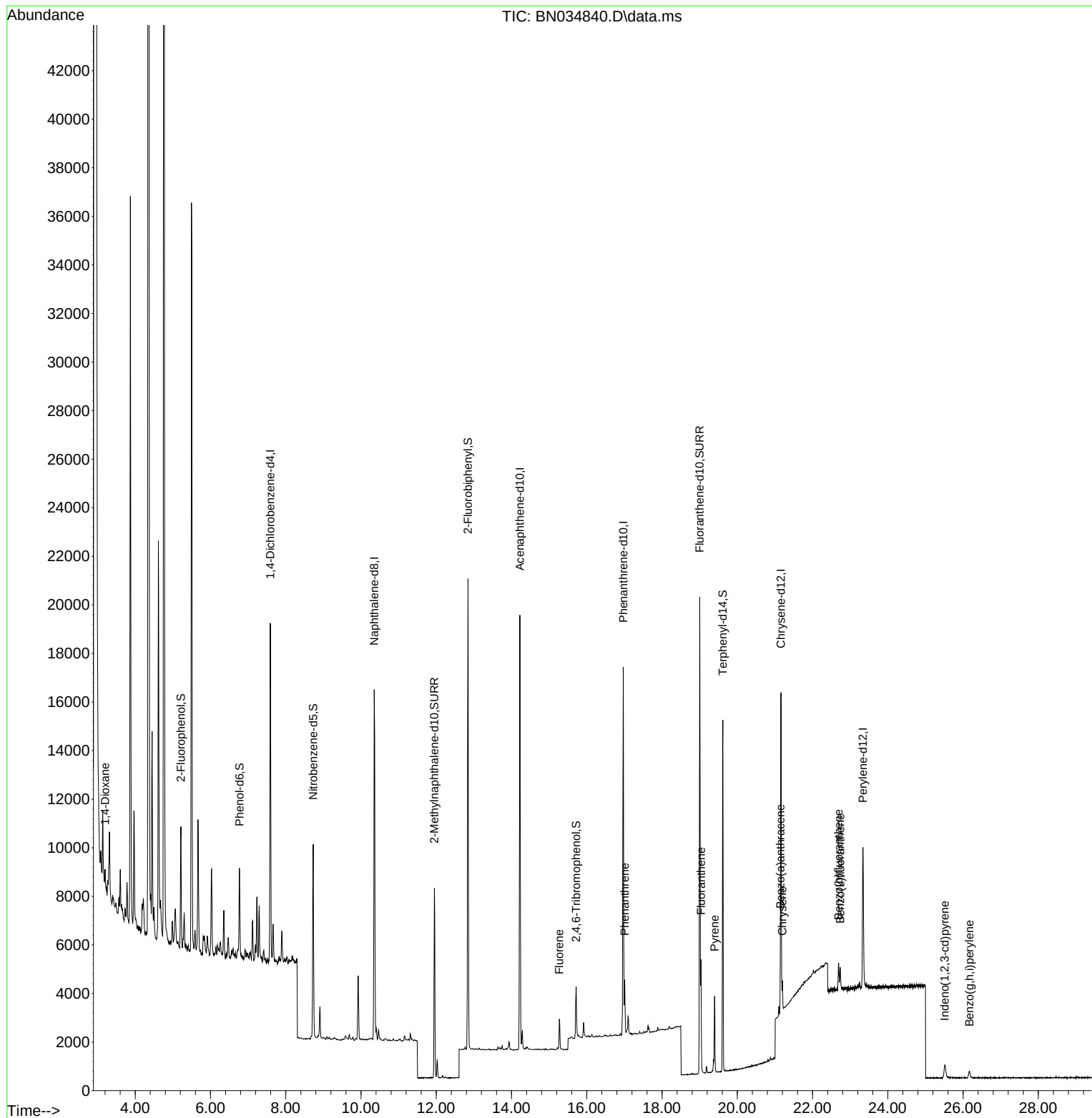
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Data File : BN034840.D
Acq On : 04 Nov 2024 15:31
Operator : RC/JU
Sample : P4652-02
Misc :
ALS Vial : 5 Sample Multiplier: 1

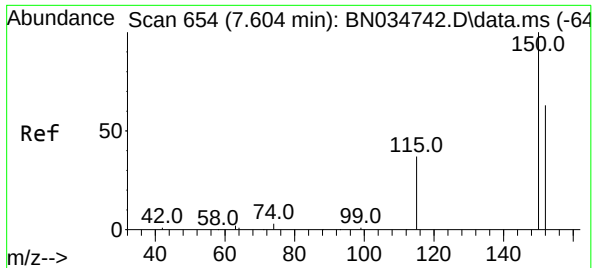
Instrument :
BNA_N
ClientSampleId :
RW5-SP201-50-20241030

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024

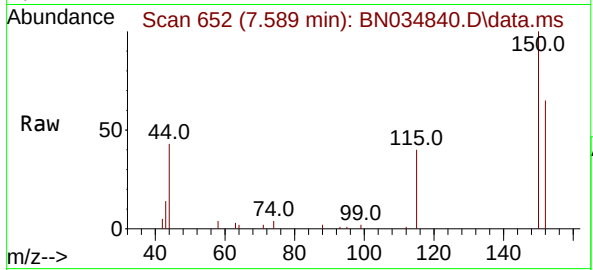
Quant Time: Nov 04 16:08:30 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 30 13:28:24 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.589 min Scan# 61
Delta R.T. -0.015 min
Lab File: BN034840.D
Acq: 04 Nov 2024 15:31

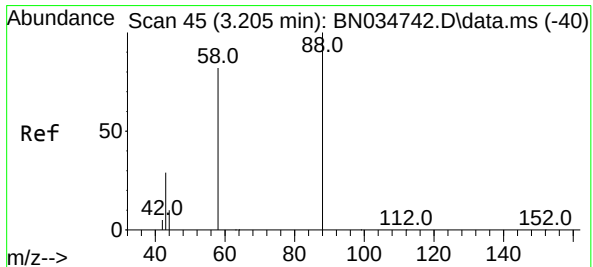
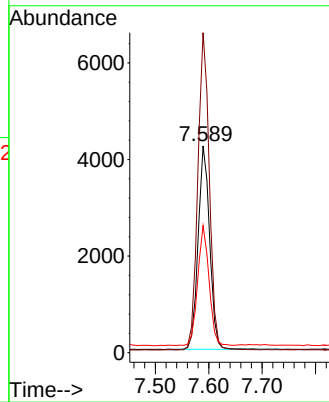
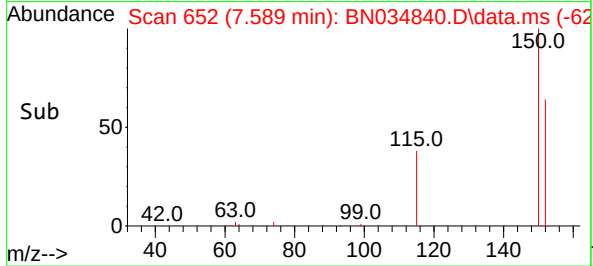
Instrument :
BNA_N
ClientSampleId :
RW5-SP201-50-20241030



Tgt Ion: 152 Resp: 634
Ion Ratio Lower Upper
152 100
150 154.8 124.9 187.3
115 61.5 50.2 75.2

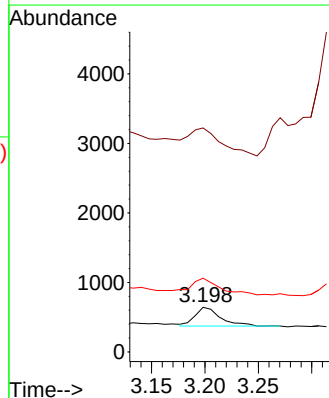
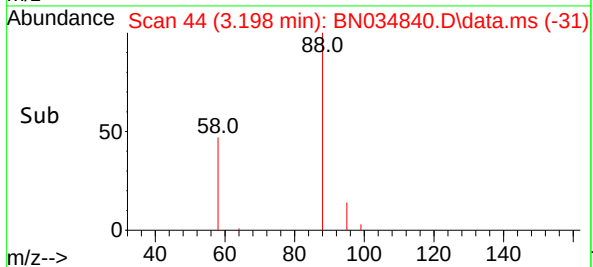
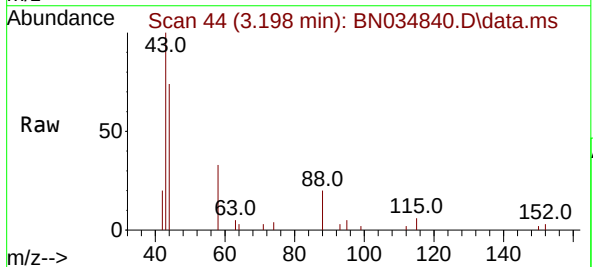
Manual Integrations
APPROVED

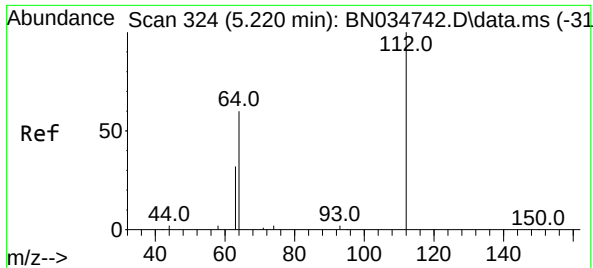
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



#2
1,4-Dioxane
Concen: 0.065 ng
RT: 3.198 min Scan# 44
Delta R.T. -0.007 min
Lab File: BN034840.D
Acq: 04 Nov 2024 15:31

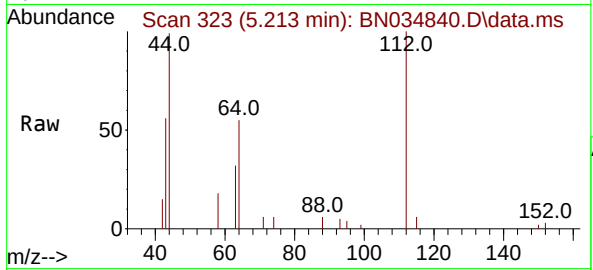
Tgt Ion: 88 Resp: 455
Ion Ratio Lower Upper
88 100
43 187.7 26.7 40.1#
58 98.5 59.3 88.9#





#4
2-Fluorophenol
Concen: 0.192 ng
RT: 5.213 min Scan# 31
Delta R.T. -0.007 min
Lab File: BN034840.D
Acq: 04 Nov 2024 15:31

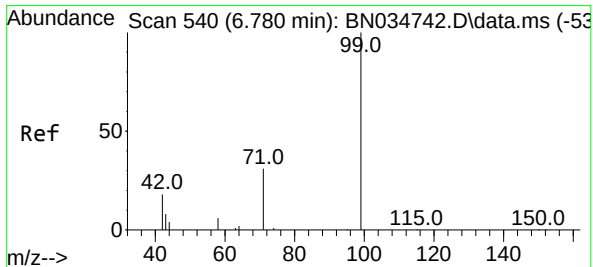
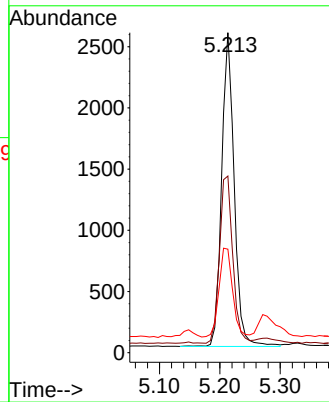
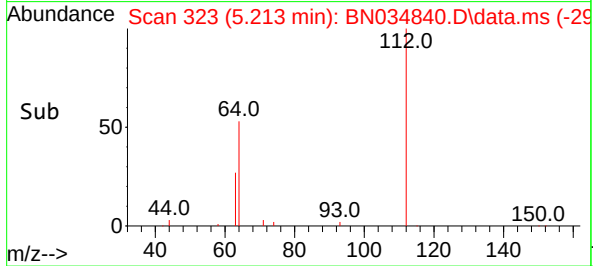
Instrument :
BNA_N
ClientSampleId :
RW5-SP201-50-20241030



Tgt Ion:112 Resp: 369
Ion Ratio Lower Upper
112 100
64 56.2 44.9 67.3
63 30.7 23.5 35.3

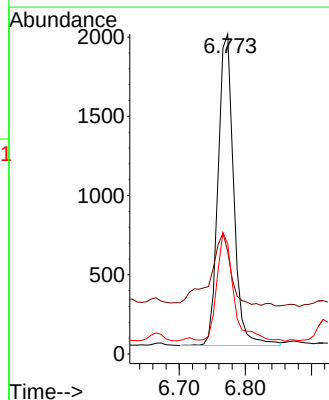
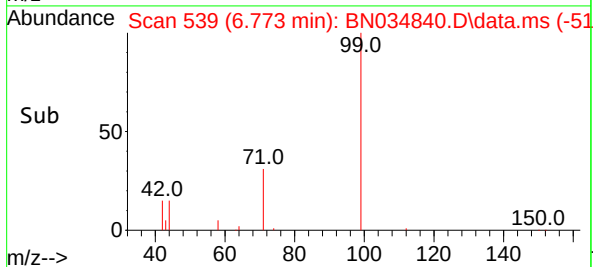
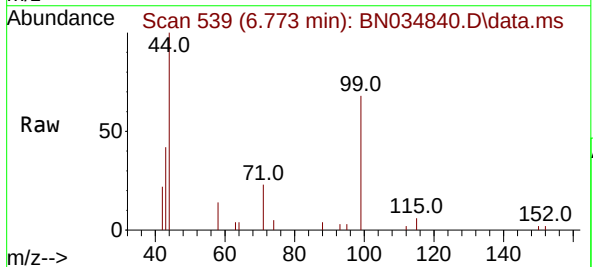
Manual Integrations
APPROVED

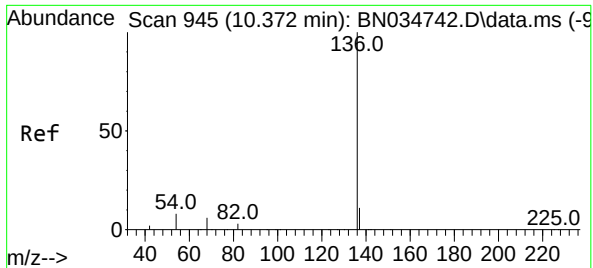
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



#5
Phenol-d6
Concen: 0.130 ng
RT: 6.773 min Scan# 539
Delta R.T. -0.007 min
Lab File: BN034840.D
Acq: 04 Nov 2024 15:31

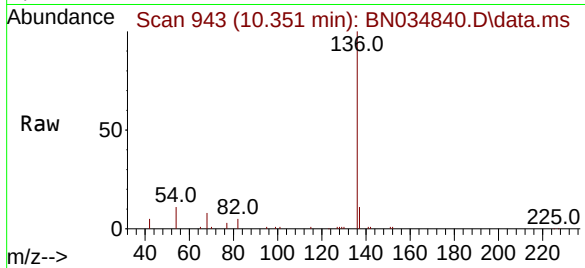
Tgt Ion: 99 Resp: 3236
Ion Ratio Lower Upper
99 100
42 30.2 15.9 23.9#
71 37.6 24.3 36.5#





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 945
Delta R.T. -0.021 min
Lab File: BN034840.D
Acq: 04 Nov 2024 15:31

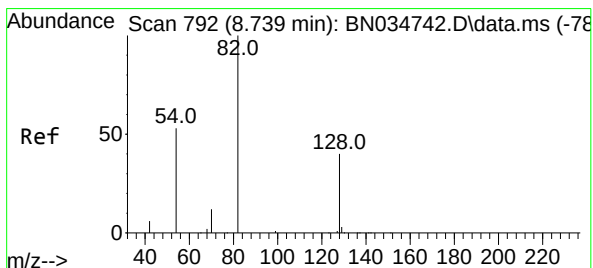
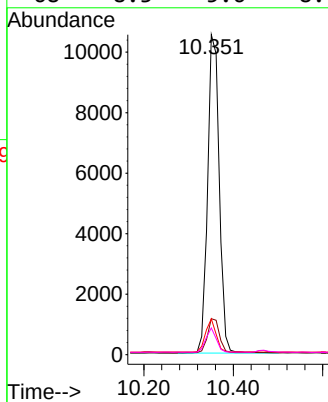
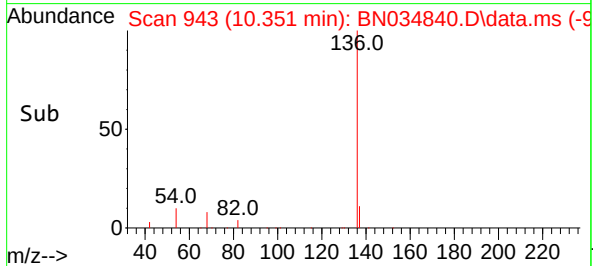
Instrument :
BNA_N
ClientSampleId :
RW5-SP201-50-20241030



Tgt Ion: 136 Resp: 1892
Ion Ratio Lower Upper
136 100
137 11.3 9.2 13.8
54 11.2 7.0 10.4
68 8.3 5.6 8.4

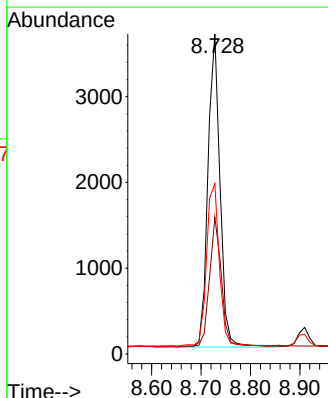
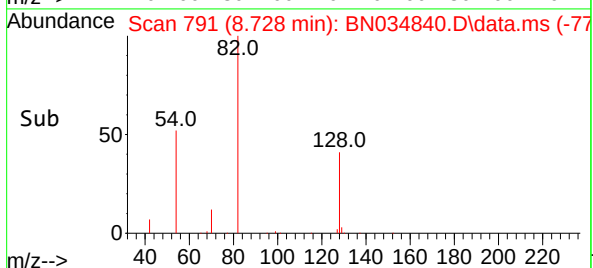
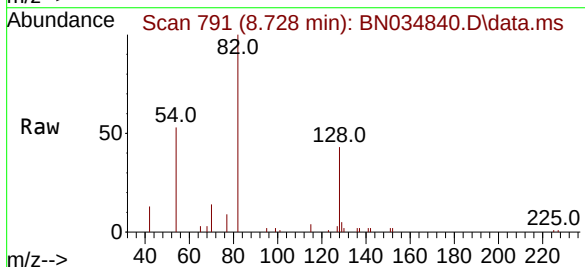
Manual Integrations
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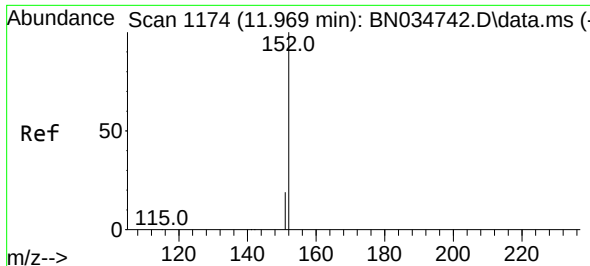
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



#8
Nitrobenzene-d5
Concen: 0.416 ng
RT: 8.728 min Scan# 791
Delta R.T. -0.011 min
Lab File: BN034840.D
Acq: 04 Nov 2024 15:31

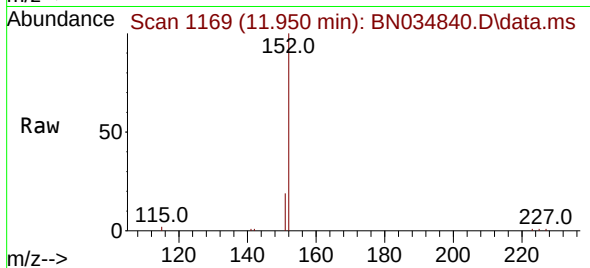
Tgt Ion: 82 Resp: 6185
Ion Ratio Lower Upper
82 100
128 42.7 33.7 50.5
54 53.3 44.4 66.6





#11
2-Methylnaphthalene-d10
Concen: 0.373 ng
RT: 11.950 min Scan# 1174
Delta R.T. -0.019 min
Lab File: BN034840.D
Acq: 04 Nov 2024 15:31

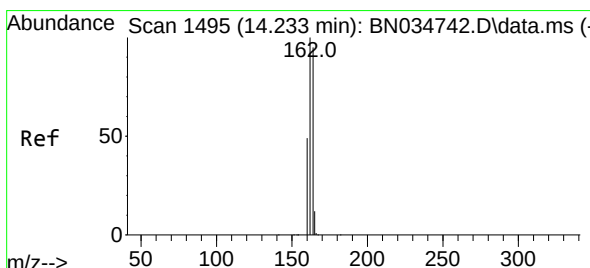
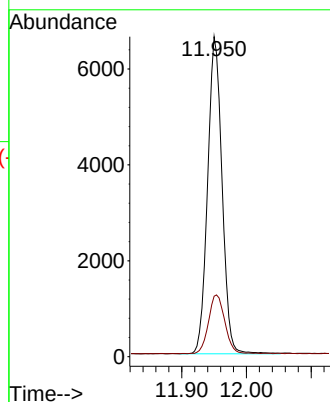
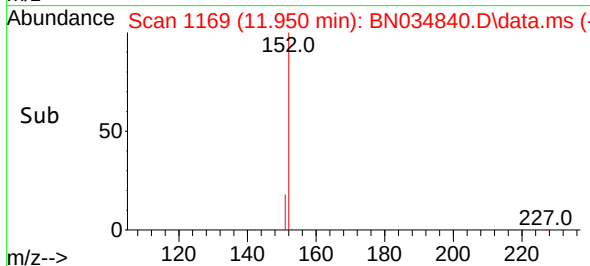
Instrument :
BNA_N
ClientSampleId :
RW5-SP201-50-20241030



Tgt Ion:152 Resp: 10220
Ion Ratio Lower Upper
152 100
151 21.0 16.6 24.8

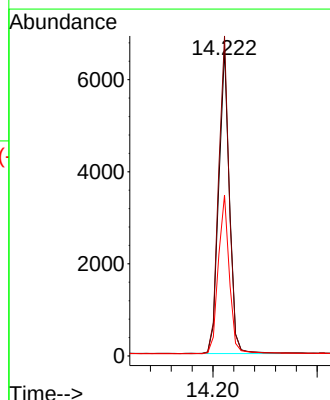
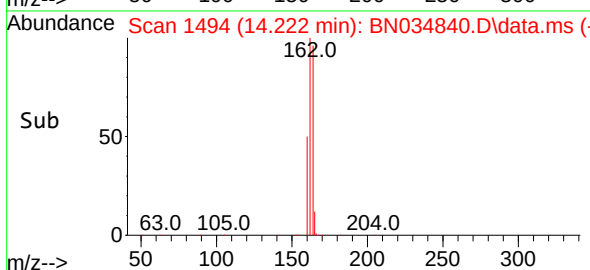
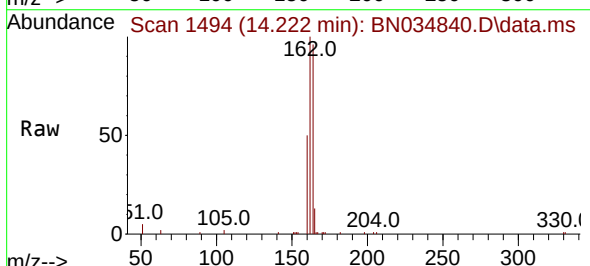
Manual Integrations
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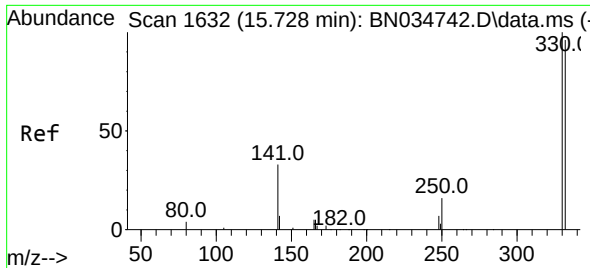
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.222 min Scan# 1494
Delta R.T. -0.011 min
Lab File: BN034840.D
Acq: 04 Nov 2024 15:31

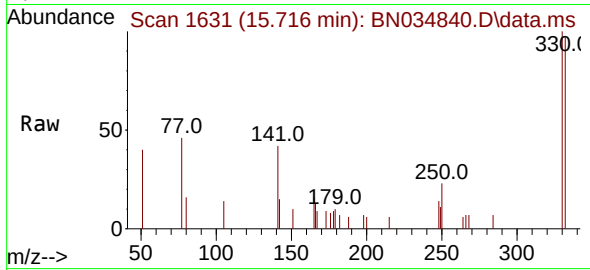
Tgt Ion:164 Resp: 9397
Ion Ratio Lower Upper
164 100
162 104.4 84.3 126.5
160 52.4 41.7 62.5





#14
2,4,6-Tribromophenol
Concen: 0.249 ng
RT: 15.716 min Scan# 1631
Delta R.T. -0.012 min
Lab File: BN034840.D
Acq: 04 Nov 2024 15:31

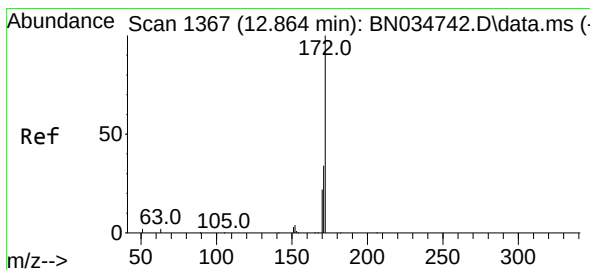
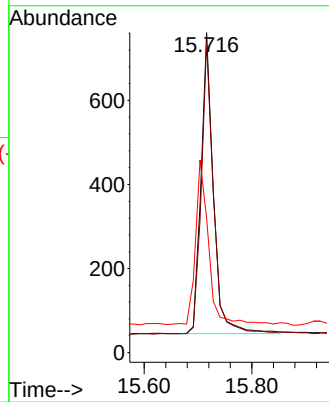
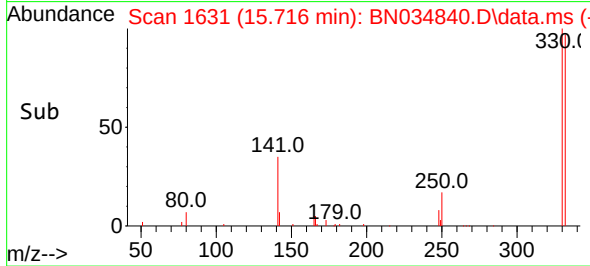
Instrument :
BNA_N
ClientSampleId :
RW5-SP201-50-20241030



Tgt Ion: 330 Resp: 1154
Ion Ratio Lower Upper
330 100
332 95.1 77.8 116.6
141 56.9 41.0 61.4

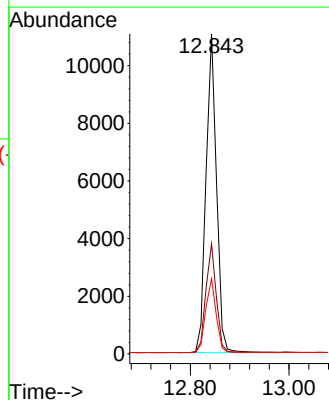
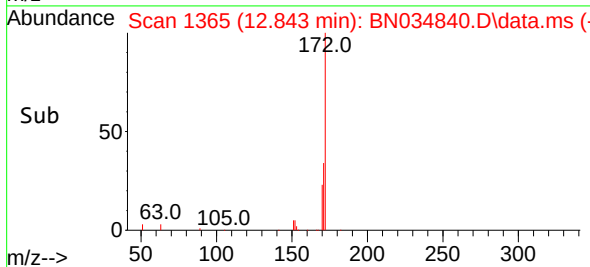
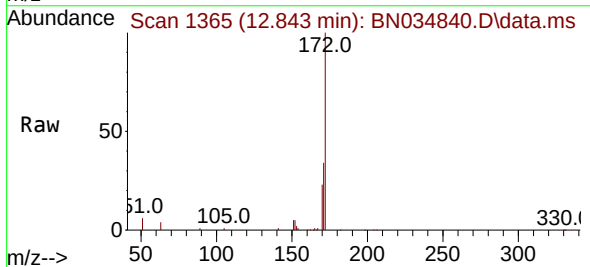
Manual Integrations
APPROVED

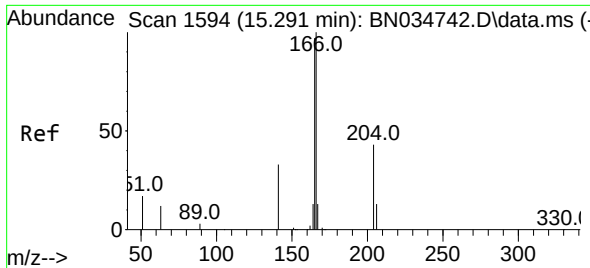
Reviewed By : Jagrut Upadhyay 11/05/2024
Supervised By : mohammad ahmed 11/06/2024



#15
2-Fluorobiphenyl
Concen: 0.439 ng
RT: 12.843 min Scan# 1365
Delta R.T. -0.021 min
Lab File: BN034840.D
Acq: 04 Nov 2024 15:31

Tgt Ion: 172 Resp: 16254
Ion Ratio Lower Upper
172 100
171 34.4 27.2 40.8
170 23.5 18.0 27.0





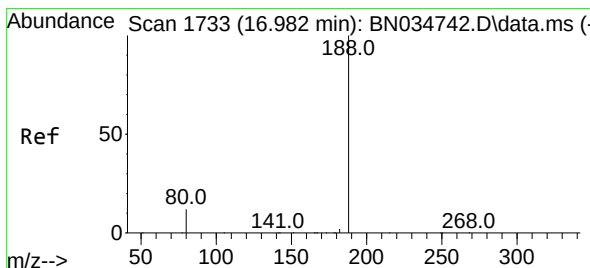
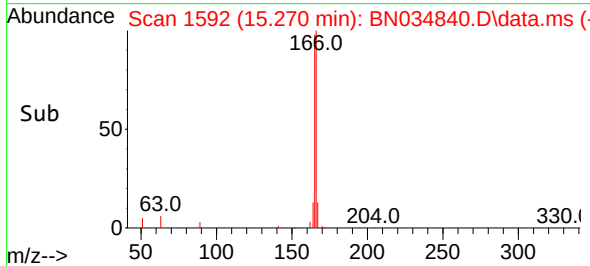
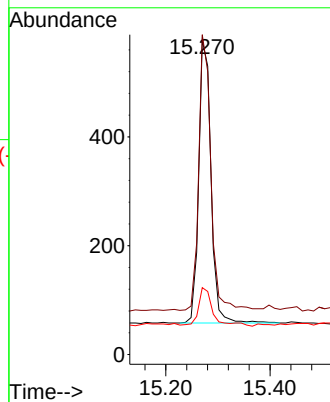
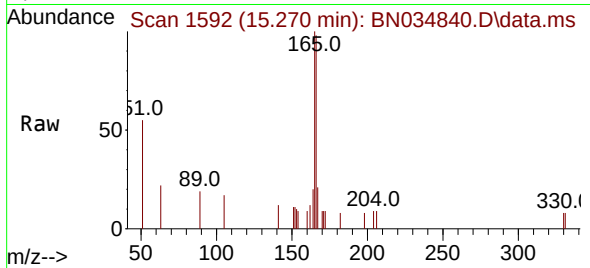
#18
Fluorene
Concen: 0.022 ng
RT: 15.270 min Scan# 1594
Delta R.T. -0.021 min
Lab File: BN034840.D
Acq: 04 Nov 2024 15:31

Instrument :
BNA_N
ClientSampleId :
RW5-SP201-50-20241030

Tgt Ion:166 Resp: 85
Ion Ratio Lower Upper
166 100
165 96.6 78.5 117.7
167 16.2 10.8 16.2

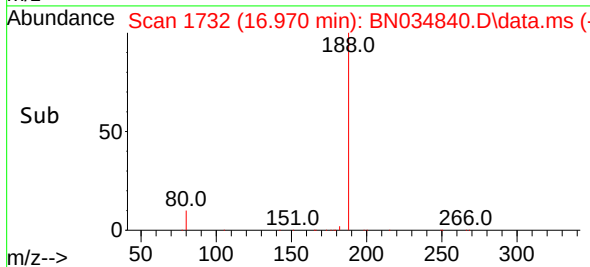
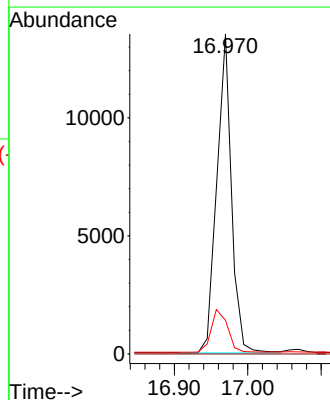
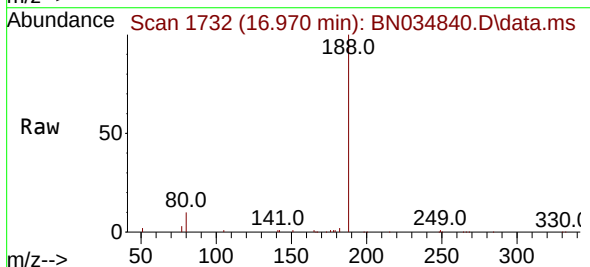
Manual Integrations
APPROVED

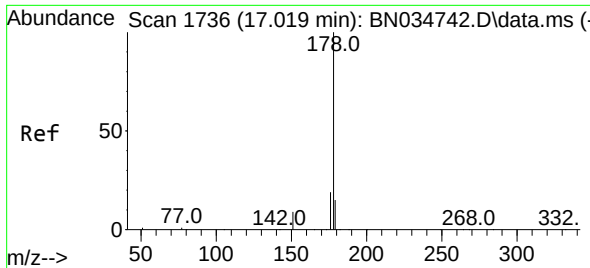
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.970 min Scan# 1732
Delta R.T. -0.012 min
Lab File: BN034840.D
Acq: 04 Nov 2024 15:31

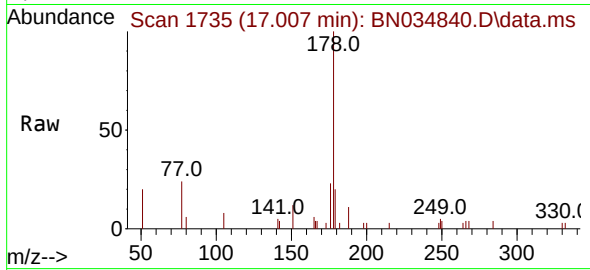
Tgt Ion:188 Resp: 18708
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 10.5 9.8 14.6





#25
Phenanthrene
Concen: 0.038 ng m
RT: 17.007 min Scan# 1735
Delta R.T. -0.012 min
Lab File: BN034840.D
Acq: 04 Nov 2024 15:31

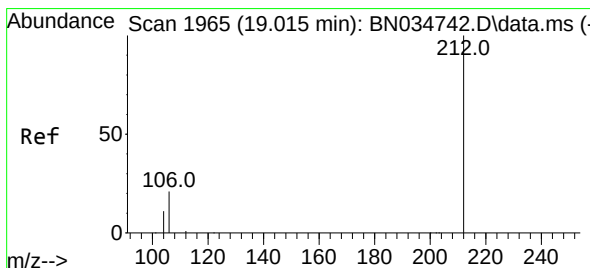
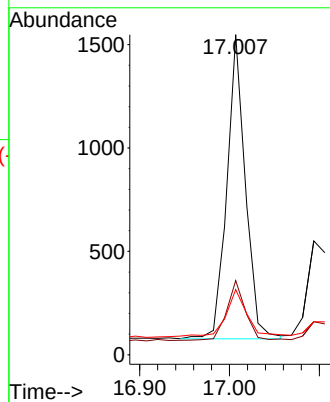
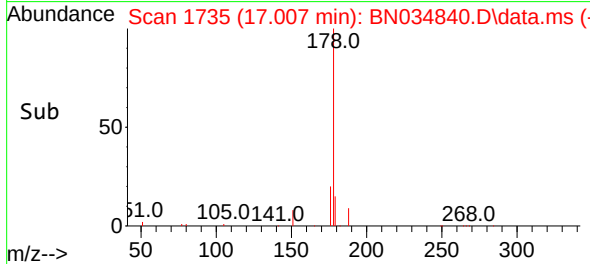
Instrument :
BNA_N
ClientSampleId :
RW5-SP201-50-20241030



Tgt Ion:178 Resp: 2100
Ion Ratio Lower Upper
178 100
176 7.3 15.4 23.0
179 6.3 12.2 18.4

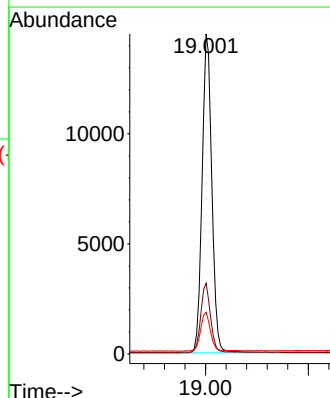
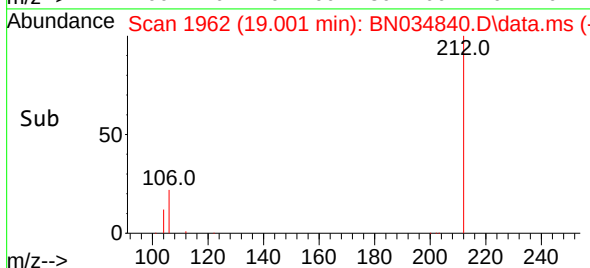
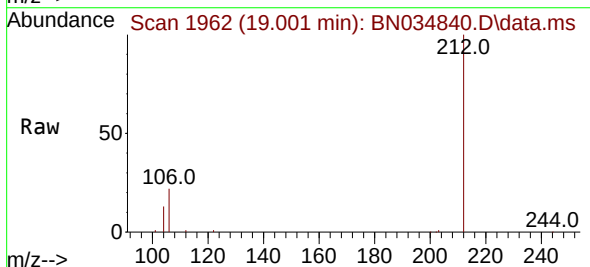
Manual Integrations
APPROVED

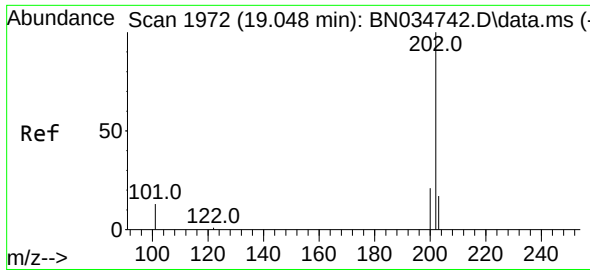
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



#27
Fluoranthene-d10
Concen: 0.434 ng
RT: 19.001 min Scan# 1962
Delta R.T. -0.014 min
Lab File: BN034840.D
Acq: 04 Nov 2024 15:31

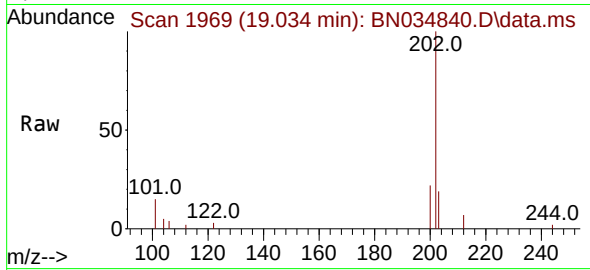
Tgt Ion:212 Resp: 19026
Ion Ratio Lower Upper
212 100
106 21.5 16.1 24.1
104 12.3 9.2 13.8





#28
Fluoranthene
Concen: 0.062 ng
RT: 19.034 min Scan# 1972
Delta R.T. -0.014 min
Lab File: BN034840.D
Acq: 04 Nov 2024 15:31

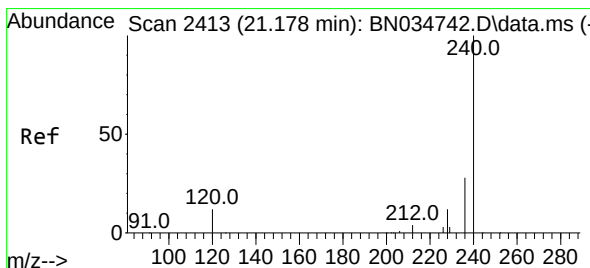
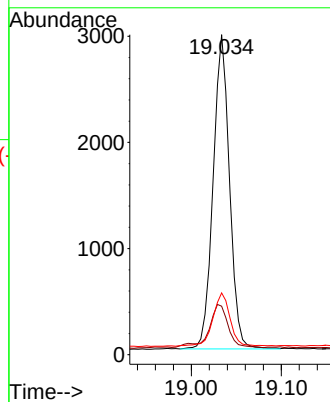
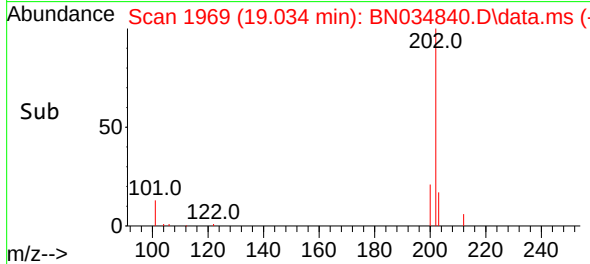
Instrument :
BNA_N
ClientSampleId :
RW5-SP201-50-20241030



Tgt Ion:202 Resp: 3730
Ion Ratio Lower Upper
202 100
101 16.3 11.4 17.0
203 18.0 13.7 20.5

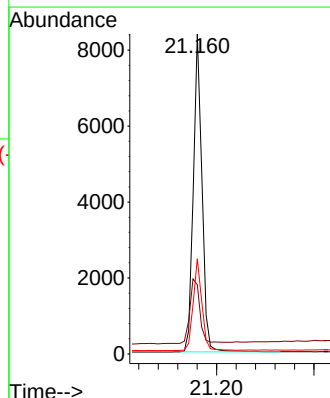
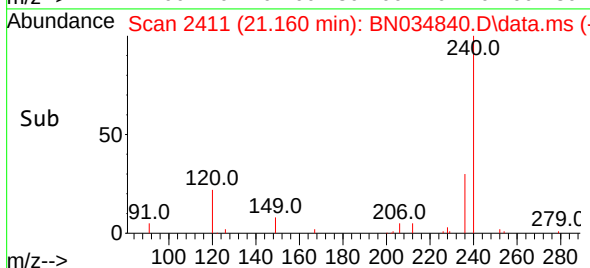
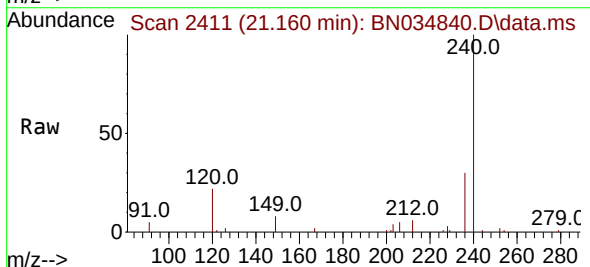
Manual Integrations
APPROVED

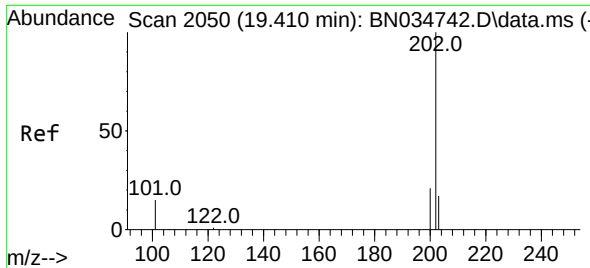
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.160 min Scan# 2411
Delta R.T. -0.018 min
Lab File: BN034840.D
Acq: 04 Nov 2024 15:31

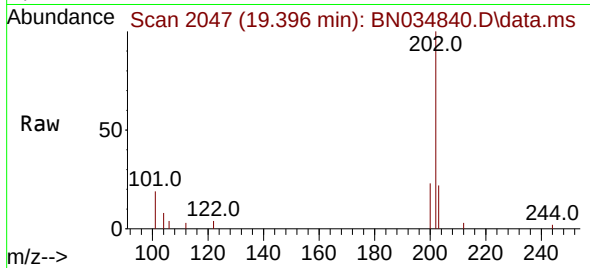
Tgt Ion:240 Resp: 10340
Ion Ratio Lower Upper
240 100
120 21.6 11.5 17.3#
236 29.7 23.2 34.8





#30
Pyrene
Concen: 0.048 ng
RT: 19.396 min Scan# 2047
Delta R.T. -0.014 min
Lab File: BN034840.D
Acq: 04 Nov 2024 15:31

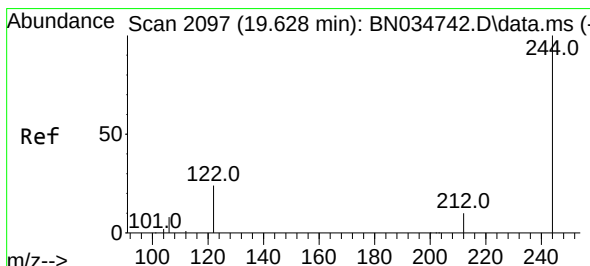
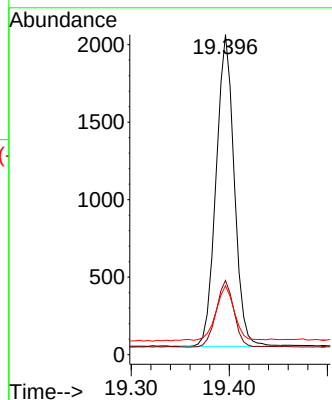
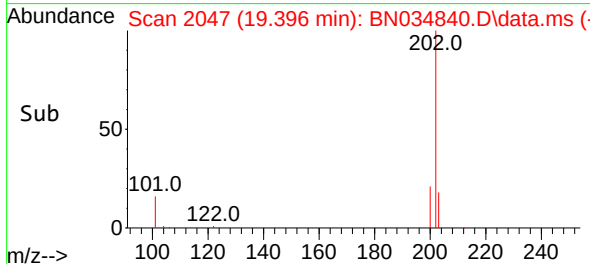
Instrument :
BNA_N
ClientSampleId :
RW5-SP201-50-20241030



Tgt Ion:202 Resp: 2579
Ion Ratio Lower Upper
202 100
200 21.3 17.0 25.4
203 19.1 14.2 21.2

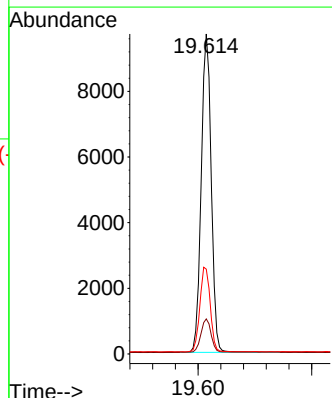
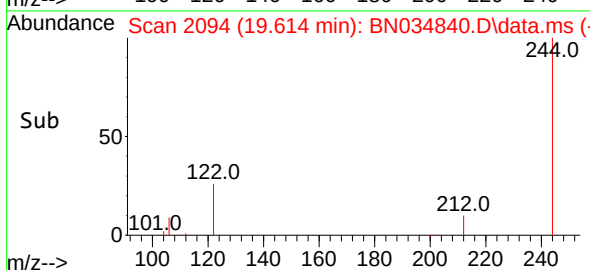
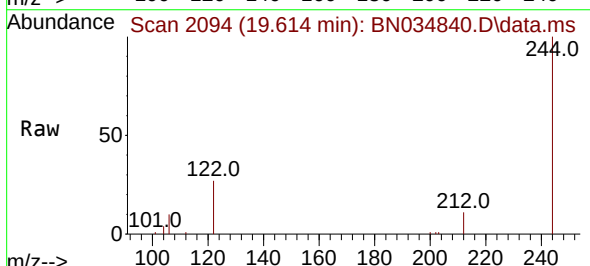
Manual Integrations
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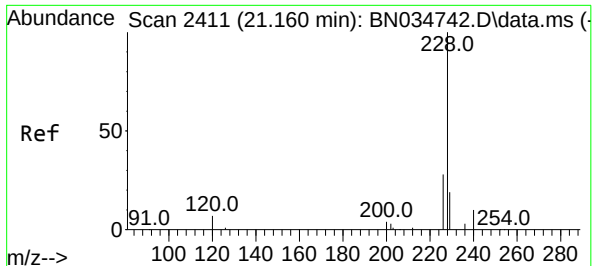
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



#31
Terphenyl-d14
Concen: 0.533 ng
RT: 19.614 min Scan# 2094
Delta R.T. -0.014 min
Lab File: BN034840.D
Acq: 04 Nov 2024 15:31

Tgt Ion:244 Resp: 11843
Ion Ratio Lower Upper
244 100
212 11.0 8.2 12.4
122 26.5 19.8 29.6





#32

Benzo(a)anthracene

Concen: 0.022 ng

RT: 21.142 min Scan# 2409

Delta R.T. -0.018 min

Lab File: BN034840.D

Acq: 04 Nov 2024 15:31

Instrument :

BNA_N

ClientSampleId :

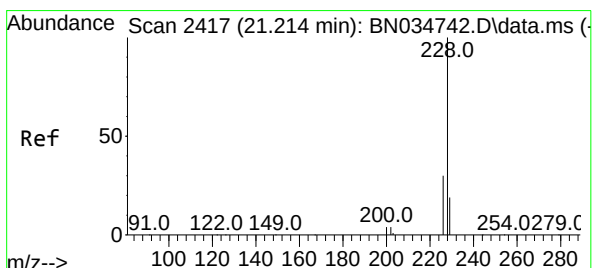
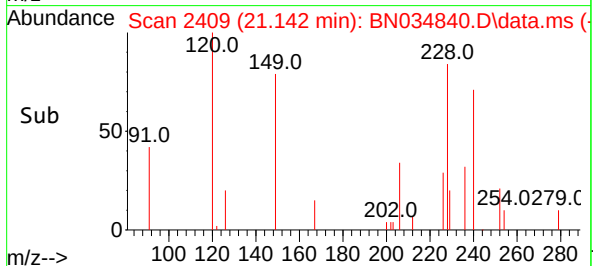
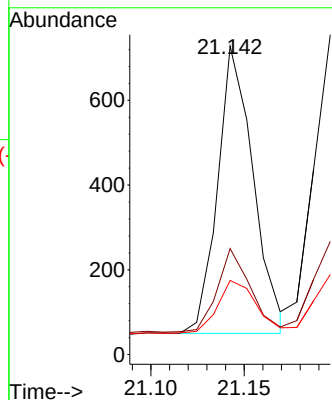
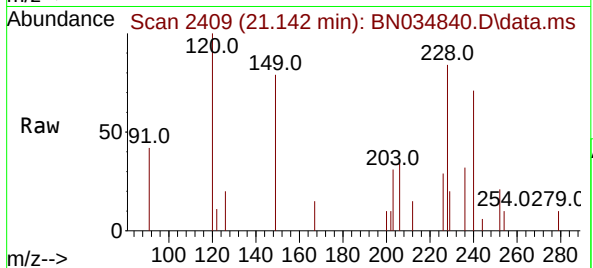
RW5-SP201-50-20241030

Tgt Ion:	228	Resp:	900
Ion Ratio	Lower	Upper	
228	100		
226	34.3	22.6	33.8
229	24.0	15.7	23.5

Manual Integrations

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Reviewed By :Jagrut Upadhyay 11/05/2024
 Supervised By :mohammad ahmed 11/06/2024



#33

Chrysene

Concen: 0.023 ng

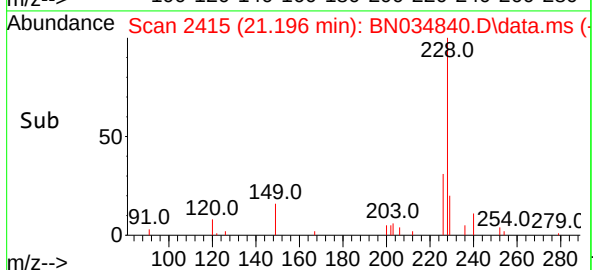
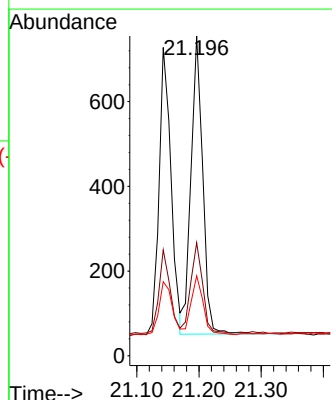
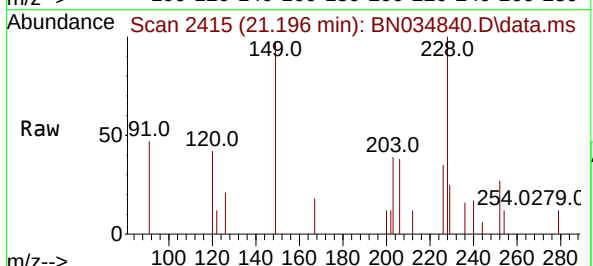
RT: 21.196 min Scan# 2415

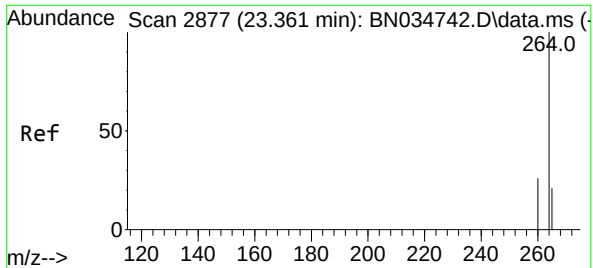
Delta R.T. -0.018 min

Lab File: BN034840.D

Acq: 04 Nov 2024 15:31

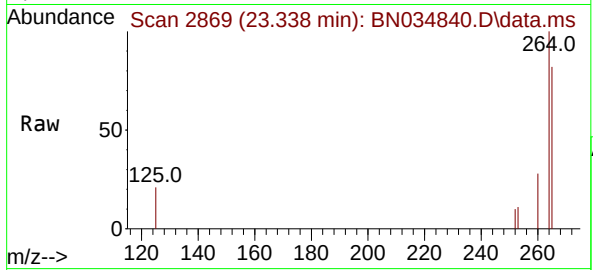
Tgt Ion:	228	Resp:	921
Ion Ratio	Lower	Upper	
228	100		
226	35.4	24.4	36.6
229	25.0	15.6	23.4





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.338 min Scan# 2869
Delta R.T. -0.023 min
Lab File: BN034840.D
Acq: 04 Nov 2024 15:31

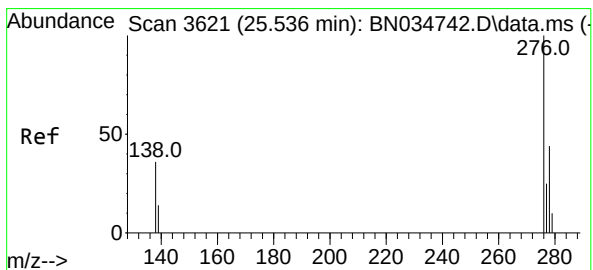
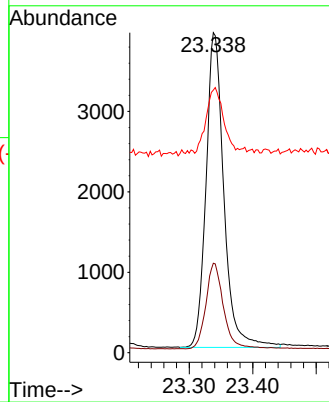
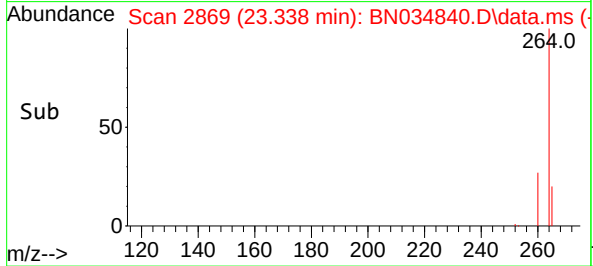
Instrument :
BNA_N
ClientSampleId :
RW5-SP201-50-20241030



Tgt Ion:264 Resp: 7618
Ion Ratio Lower Upper
264 100
260 28.0 21.5 32.3
265 82.1 47.5 71.3

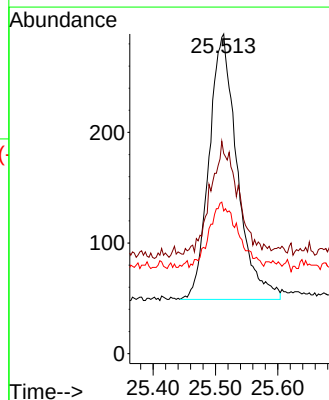
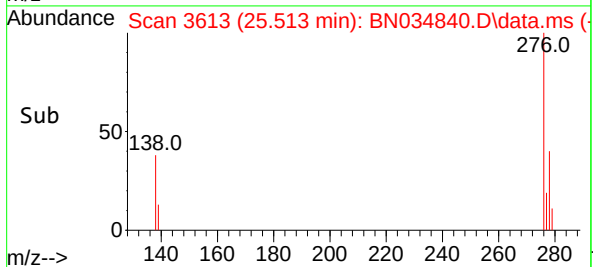
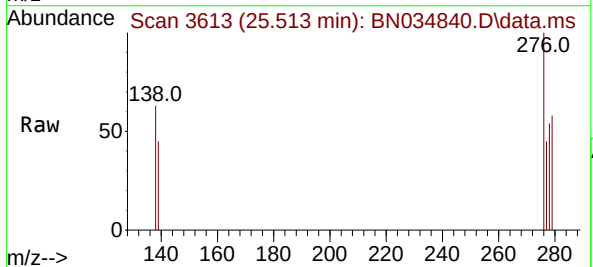
Manual Integrations
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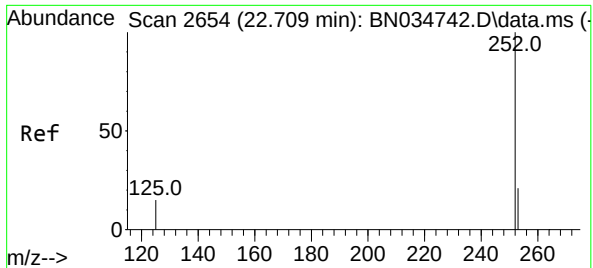
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.027 ng
RT: 25.513 min Scan# 3613
Delta R.T. -0.023 min
Lab File: BN034840.D
Acq: 04 Nov 2024 15:31

Tgt Ion:276 Resp: 750
Ion Ratio Lower Upper
276 100
138 40.8 31.5 47.3
277 24.3 19.7 29.5





#37

Benzo(b)fluoranthene

Concen: 0.044 ng

RT: 22.689 min Scan# 2647

Delta R.T. -0.020 min

Lab File: BN034840.D

Acq: 04 Nov 2024 15:31

Instrument :

BNA_N

ClientSampleId :

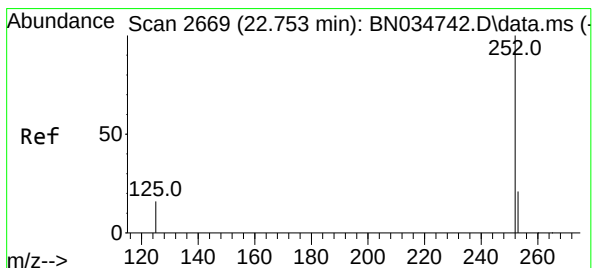
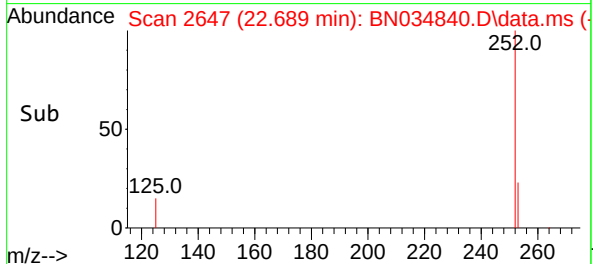
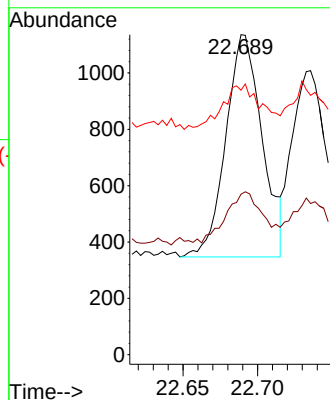
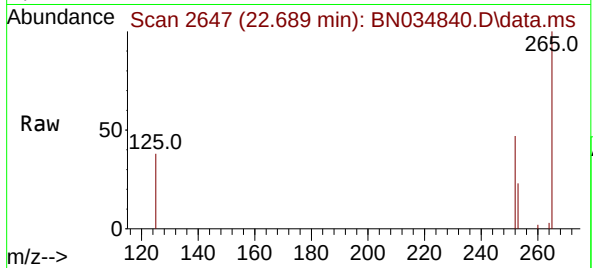
RW5-SP201-50-20241030

Tgt Ion:252	Resp:	1330
Ion Ratio	Lower	Upper
252	100	
253	50.2	19.7 29.5
125	82.7	17.1 25.7

Manual Integrations

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Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



#38

Benzo(k)fluoranthene

Concen: 0.033 ng

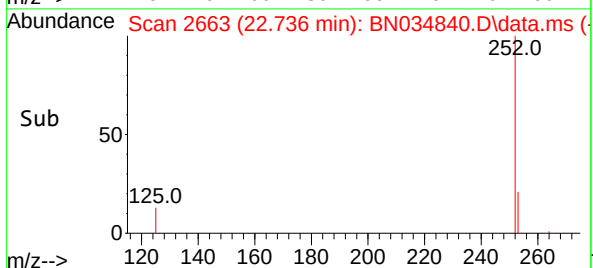
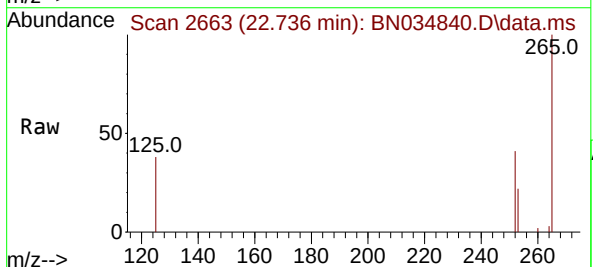
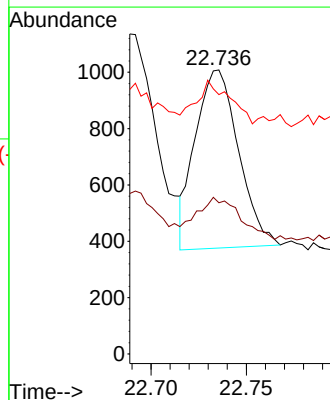
RT: 22.736 min Scan# 2663

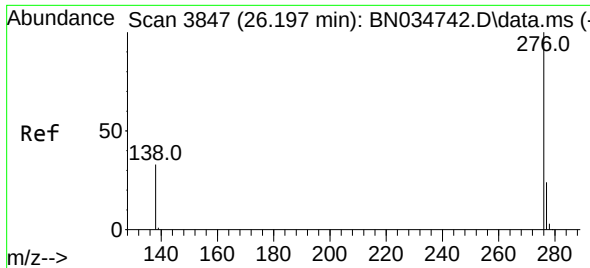
Delta R.T. -0.018 min

Lab File: BN034840.D

Acq: 04 Nov 2024 15:31

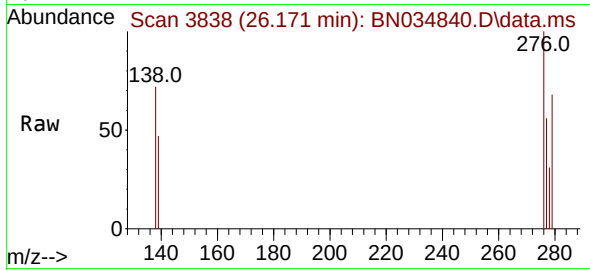
Tgt Ion:252	Resp:	998
Ion Ratio	Lower	Upper
252	100	
253	53.3	19.8 29.6#
125	91.4	18.2 27.2#





#41
Benzo(g,h,i)perylene
Concen: 0.021 ng
RT: 26.171 min Scan# 3838
Delta R.T. -0.026 min
Lab File: BN034840.D
Acq: 04 Nov 2024 15:31

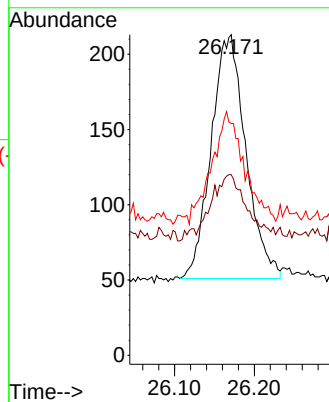
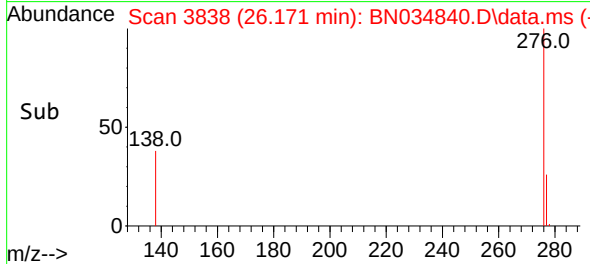
Instrument :
BNA_N
ClientSampleId :
RW5-SP201-50-20241030



Tgt Ion:276 Resp: 489
Ion Ratio Lower Upper
276 100
277 56.3 20.2 30.2
138 72.3 28.7 43.1

Manual Integrations
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Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	10/30/24	
Project:	CTO WE13		Date Received:	10/31/24	
Client Sample ID:	RW5-SP301-303-50-20241030		SDG No.:	P4652	
Lab Sample ID:	P4652-03		Matrix:	Water	
Analytical Method:	SW8270SIM		% Solid:	0	
Sample Wt/Vol:	900	Units: mL	Final Vol:	1000	uL
Soil Aliquot Vol:		uL	Test:	SVOC-SIMGroup1	
Extraction Type :		Decanted : N	Level :	LOW	
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N	PH :
Prep Method :	SW3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN034841.D	1	11/01/24 09:35	11/04/24 16:07	PB164594

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.15	J	0.080	0.22	0.22	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.32		30 - 150		81%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.32		30 - 150		81%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.36		55 - 111		89%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		53 - 106		92%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.45		58 - 132		111%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6320	7.589				
1146-65-2	Naphthalene-d8	18800	10.351				
15067-26-2	Acenaphthene-d10	9340	14.222				
1517-22-2	Phenanthrene-d10	18300	16.97				
1719-03-5	Chrysene-d12	10300	21.16				
1520-96-3	Perylene-d12	7660	23.341				

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\BN110424\
Data File : BN034841.D
Acq On : 04 Nov 2024 16:07
Operator : RC/JU
Sample : P4652-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW5-SP301-303-50-20241030

Quant Time: Nov 04 17:38:50 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 30 13:28:24 2024
Response via : Initial Calibration

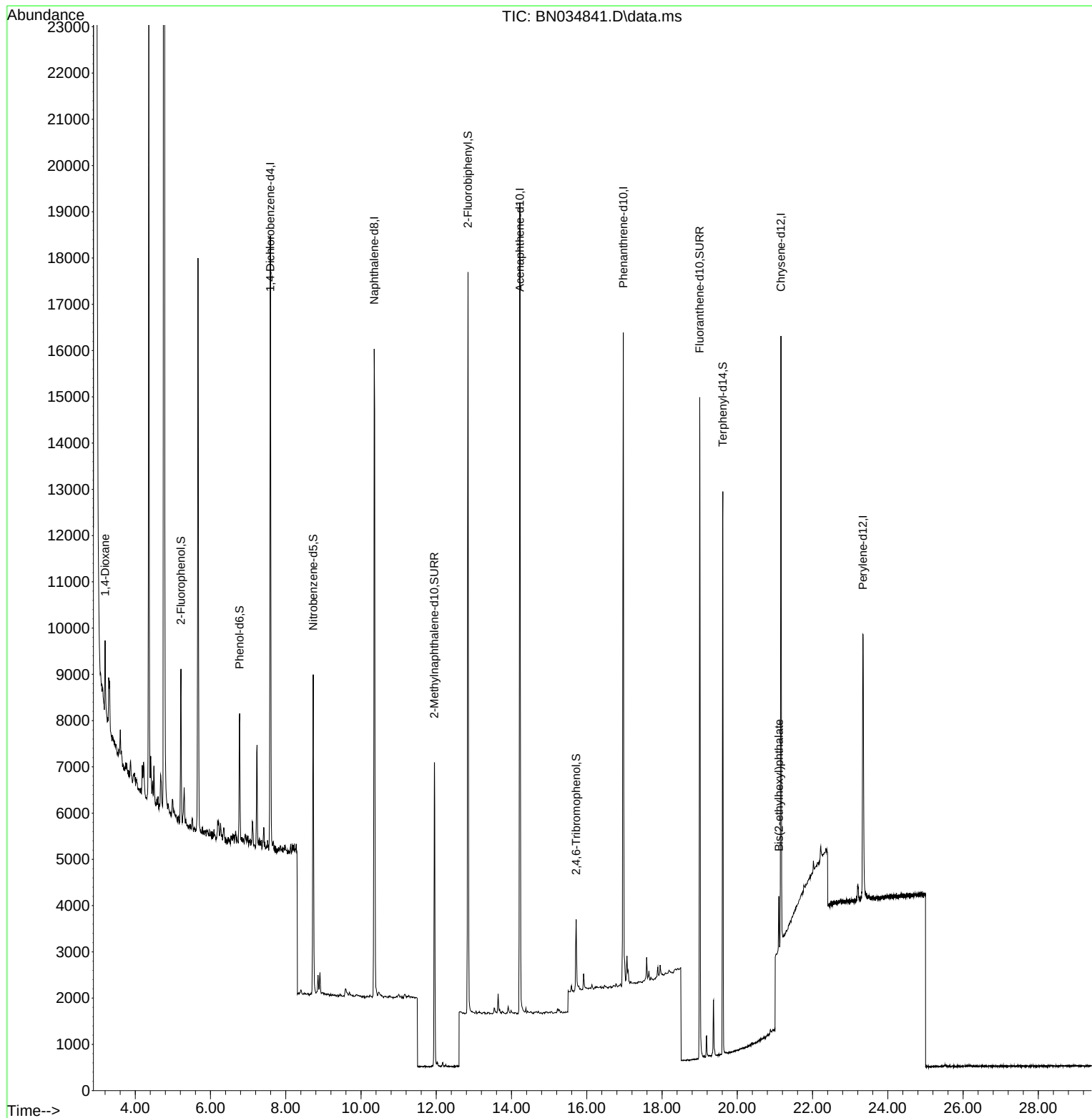
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.589	152	6316	0.400	ng	-0.01
7) Naphthalene-d8	10.351	136	18825	0.400	ng	#-0.02
13) Acenaphthene-d10	14.222	164	9344	0.400	ng	-0.01
19) Phenanthrene-d10	16.970	188	18319	0.400	ng	-0.01
29) Chrysene-d12	21.160	240	10285	0.400	ng	#-0.02
35) Perylene-d12	23.341	264	7661	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.213	112	2482	0.130	ng	0.00
5) Phenol-d6	6.773	99	2470	0.099	ng	0.00
8) Nitrobenzene-d5	8.728	82	5255	0.355	ng	-0.01
11) 2-Methylnaphthalene-d10	11.950	152	8795	0.323	ng	-0.02
14) 2,4,6-Tribromophenol	15.716	330	857	0.186	ng	-0.01
15) 2-Fluorobiphenyl	12.843	172	13585	0.369	ng	-0.02
27) Fluoranthene-d10	19.001	212	13927	0.324	ng	-0.01
31) Terphenyl-d14	19.615	244	9820	0.445	ng	-0.01
Target Compounds						
2) 1,4-Dioxane	3.198	88	924	0.133	ng	# 56
34) Bis(2-ethylhexyl)phtha...	21.107	149	1219	0.036	ng	# 91

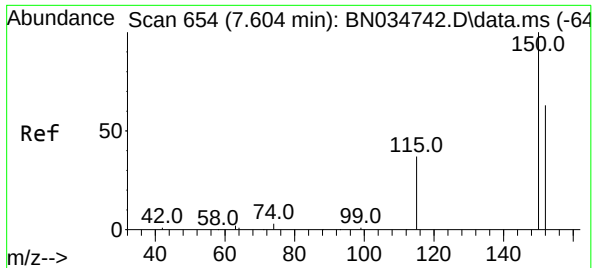
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110424\
Data File : BN034841.D
Acq On : 04 Nov 2024 16:07
Operator : RC/JU
Sample : P4652-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW5-SP301-303-50-20241030

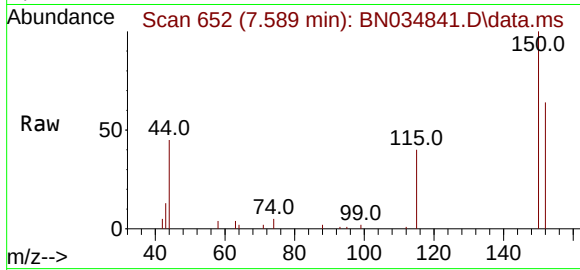
Quant Time: Nov 04 17:38:50 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 30 13:28:24 2024
Response via : Initial Calibration



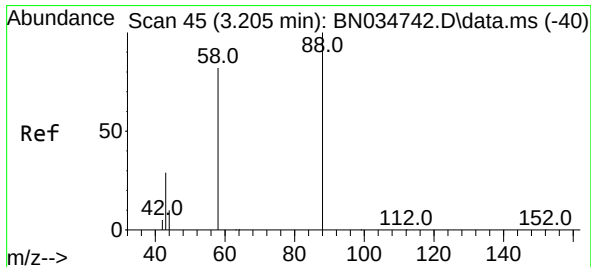
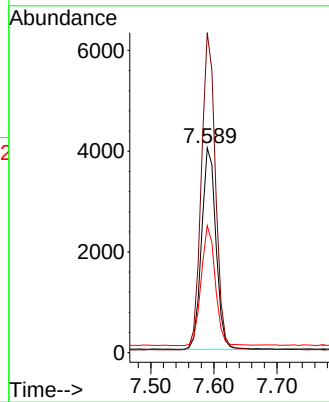
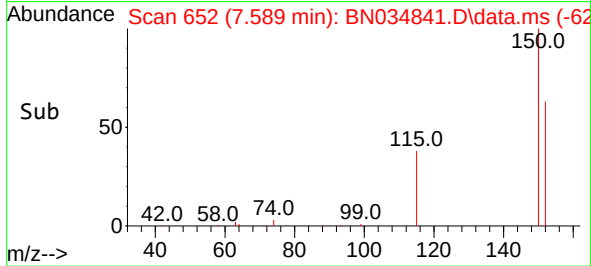


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.589 min Scan# 61
Delta R.T. -0.015 min
Lab File: BN034841.D
Acq: 04 Nov 2024 16:07

Instrument :
BNA_N
ClientSampleId :
RW5-SP301-303-50-20241030

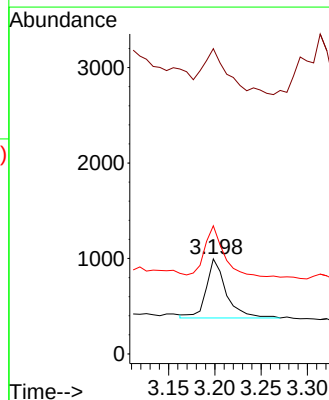
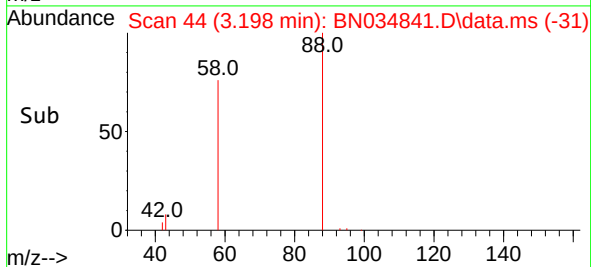
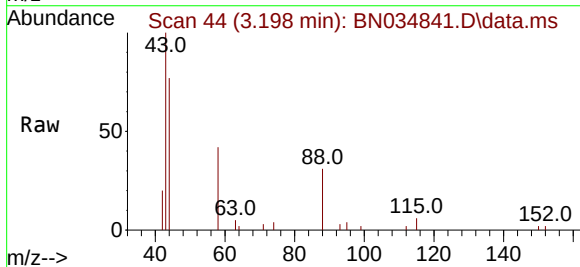


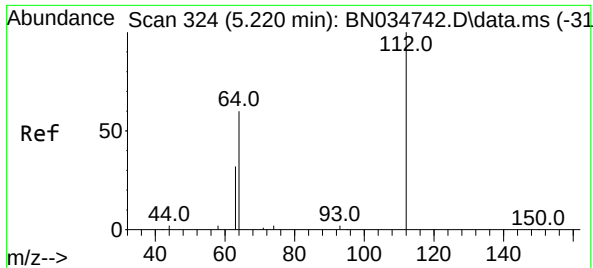
Tgt Ion: 152 Resp: 6316
Ion Ratio Lower Upper
152 100
150 156.3 124.9 187.3
115 62.1 50.2 75.2



#2
1,4-Dioxane
Concen: 0.133 ng
RT: 3.198 min Scan# 44
Delta R.T. -0.007 min
Lab File: BN034841.D
Acq: 04 Nov 2024 16:07

Tgt Ion: 88 Resp: 924
Ion Ratio Lower Upper
88 100
43 97.8 26.7 40.1#
58 85.3 59.3 88.9

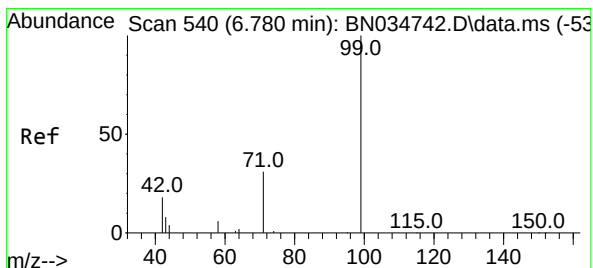
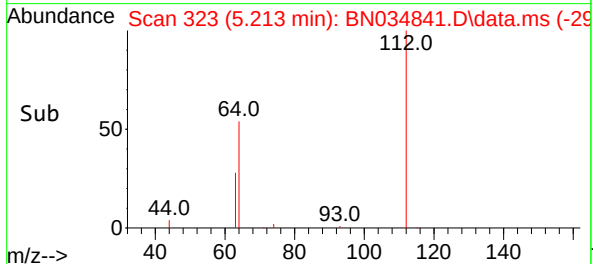
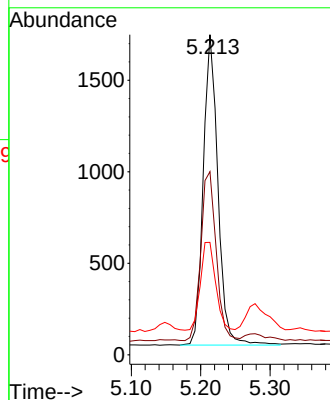
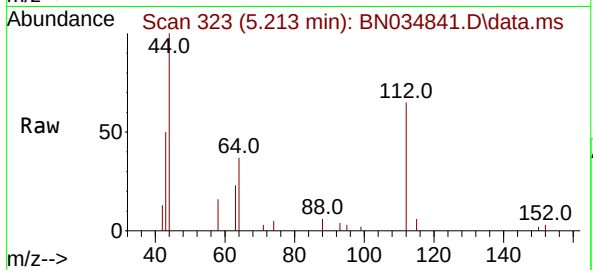




#4
2-Fluorophenol
Concen: 0.130 ng
RT: 5.213 min Scan# 311
Delta R.T. -0.007 min
Lab File: BN034841.D
Acq: 04 Nov 2024 16:07

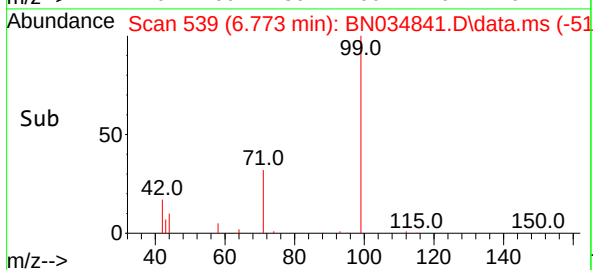
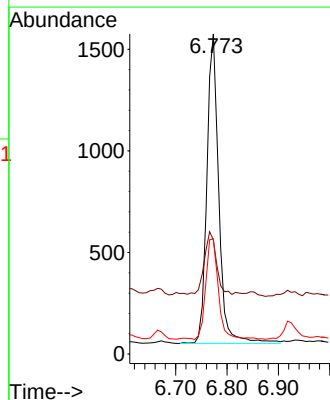
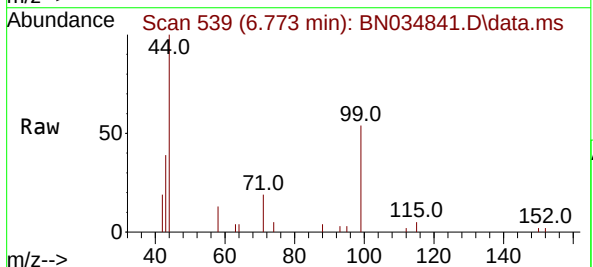
Instrument :
BNA_N
ClientSampleId :
RW5-SP301-303-50-20241030

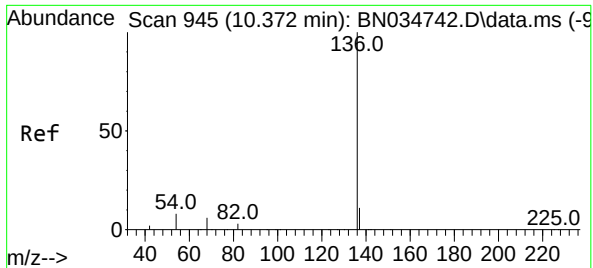
Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.3	44.9	67.3
63	30.6	23.5	35.3



#5
Phenol-d6
Concen: 0.099 ng
RT: 6.773 min Scan# 539
Delta R.T. -0.007 min
Lab File: BN034841.D
Acq: 04 Nov 2024 16:07

Tgt Ion	Ratio	Lower	Upper
99	100		
42	20.2	15.9	23.9
71	34.9	24.3	36.5

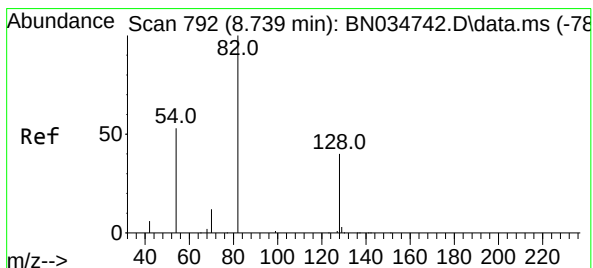
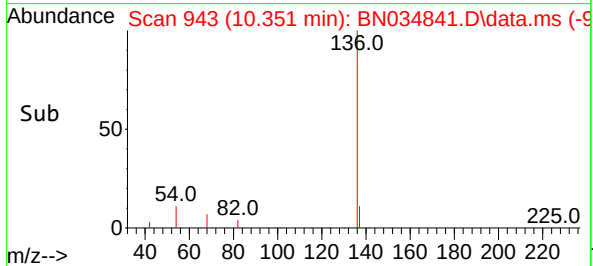
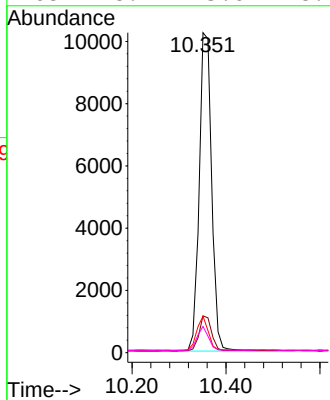
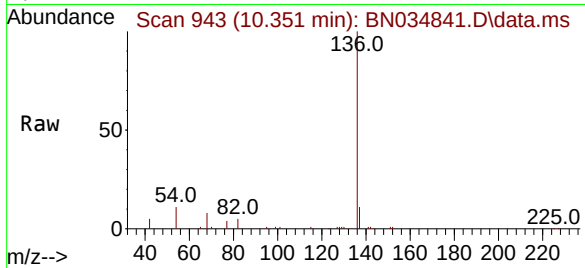




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 941
Delta R.T. -0.021 min
Lab File: BN034841.D
Acq: 04 Nov 2024 16:07

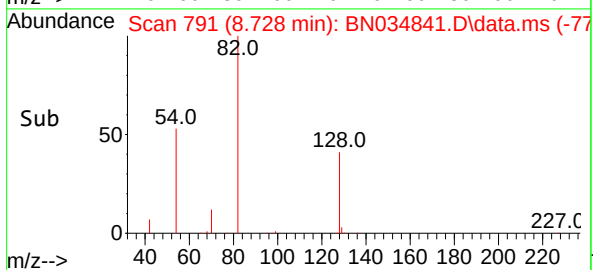
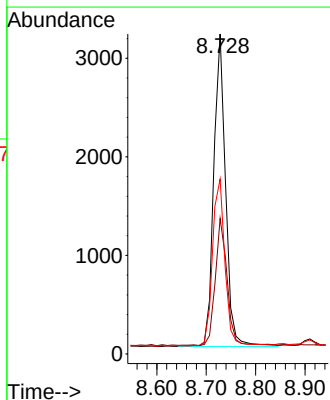
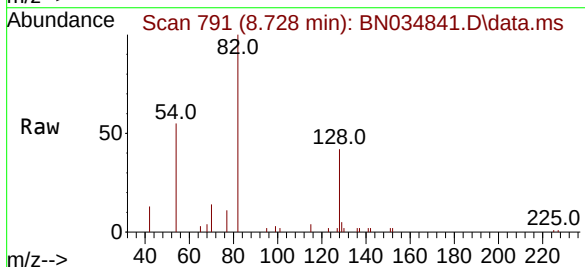
Instrument :
BNA_N
ClientSampleId :
RW5-SP301-303-50-20241030

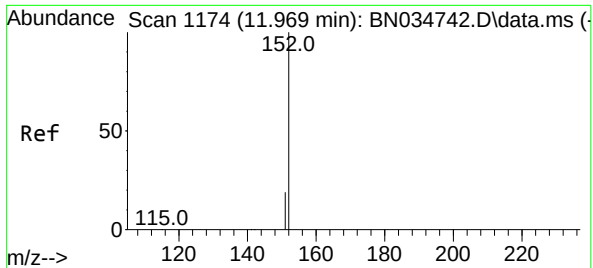
Tgt Ion:	136	Resp:	18825
Ion	Ratio	Lower	Upper
136	100		
137	11.5	9.2	13.8
54	11.4	7.0	10.4#
68	8.2	5.6	8.4



#8
Nitrobenzene-d5
Concen: 0.355 ng
RT: 8.728 min Scan# 791
Delta R.T. -0.011 min
Lab File: BN034841.D
Acq: 04 Nov 2024 16:07

Tgt Ion:	82	Resp:	5255
Ion	Ratio	Lower	Upper
82	100		
128	42.4	33.7	50.5
54	54.7	44.4	66.6

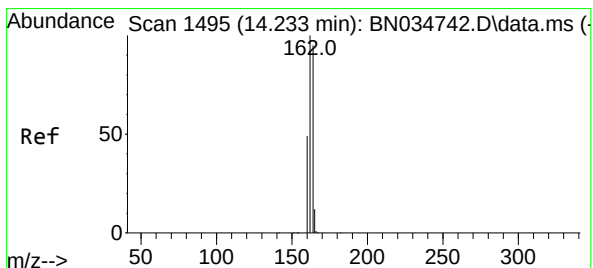
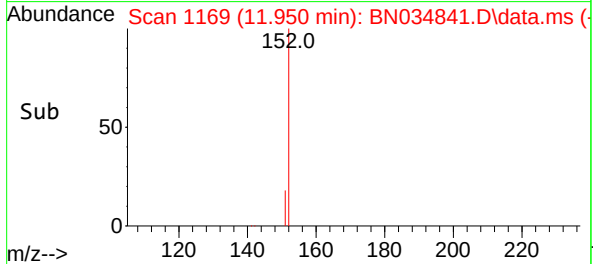
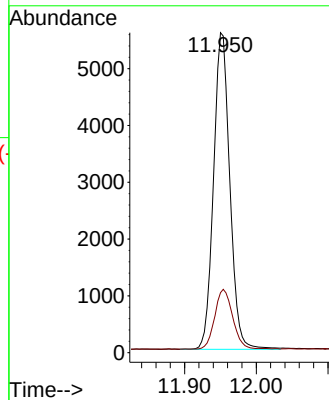
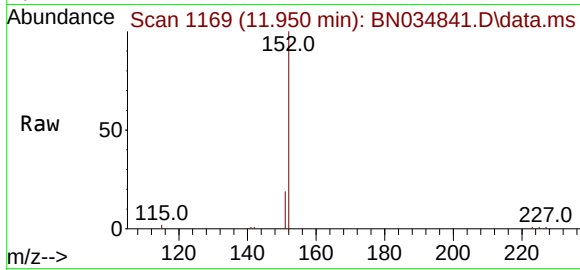




#11
2-Methylnaphthalene-d10
Concen: 0.323 ng
RT: 11.950 min Scan# 1174
Delta R.T. -0.019 min
Lab File: BN034841.D
Acq: 04 Nov 2024 16:07

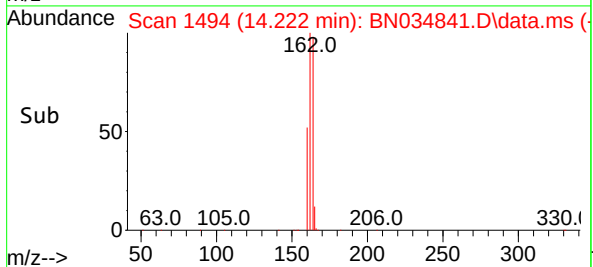
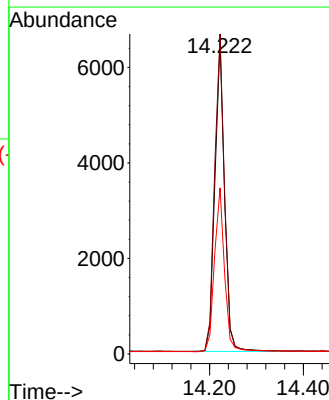
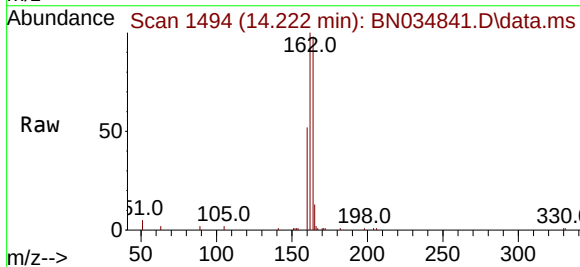
Instrument :
BNA_N
ClientSampleId :
RW5-SP301-303-50-20241030

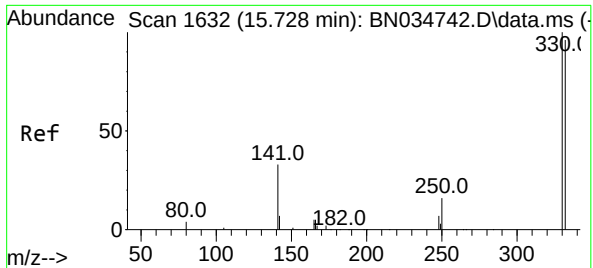
Tgt Ion:152 Resp: 8795
Ion Ratio Lower Upper
152 100
151 20.9 16.6 24.8



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.222 min Scan# 1494
Delta R.T. -0.011 min
Lab File: BN034841.D
Acq: 04 Nov 2024 16:07

Tgt Ion:164 Resp: 9344
Ion Ratio Lower Upper
164 100
162 102.1 84.3 126.5
160 53.0 41.7 62.5





#14

2,4,6-Tribromophenol

Concen: 0.186 ng

RT: 15.716 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN034841.D

Acq: 04 Nov 2024 16:07

Instrument :

BNA_N

ClientSampleId :

RW5-SP301-303-50-20241030

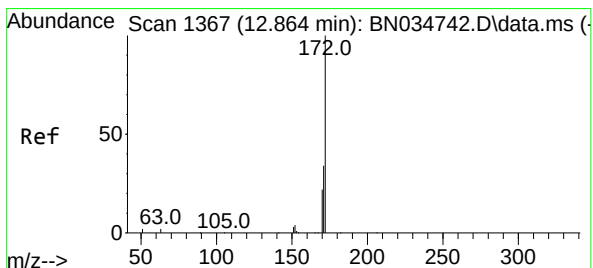
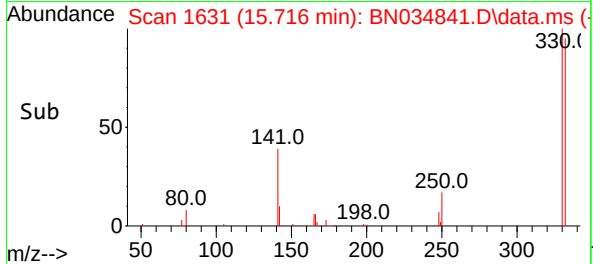
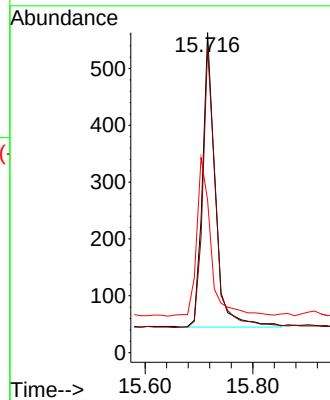
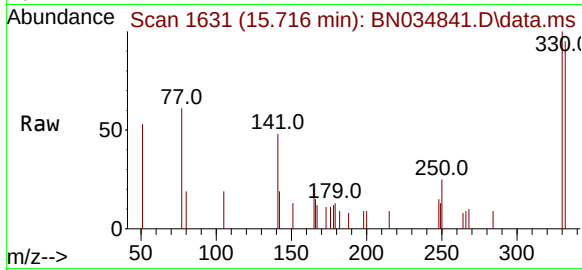
Tgt Ion:330 Resp: 857

Ion Ratio Lower Upper

330 100

332 96.5 77.8 116.6

141 60.1 41.0 61.4



#15

2-Fluorobiphenyl

Concen: 0.369 ng

RT: 12.843 min Scan# 1365

Delta R.T. -0.021 min

Lab File: BN034841.D

Acq: 04 Nov 2024 16:07

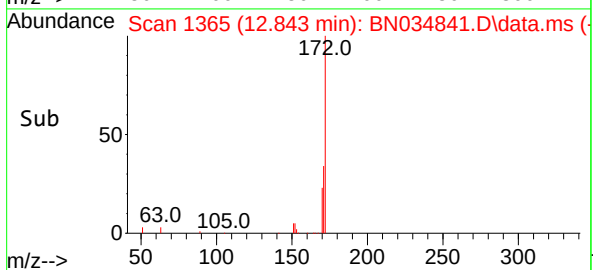
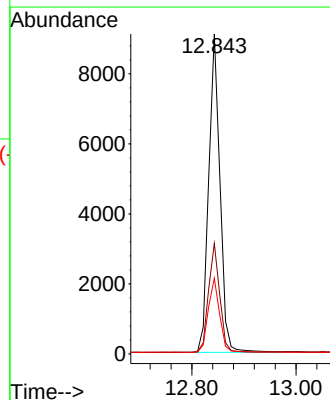
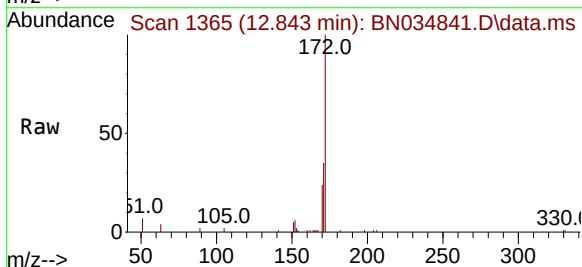
Tgt Ion:172 Resp: 13585

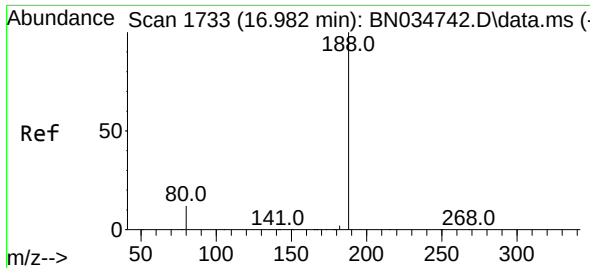
Ion Ratio Lower Upper

172 100

171 34.6 27.2 40.8

170 23.6 18.0 27.0

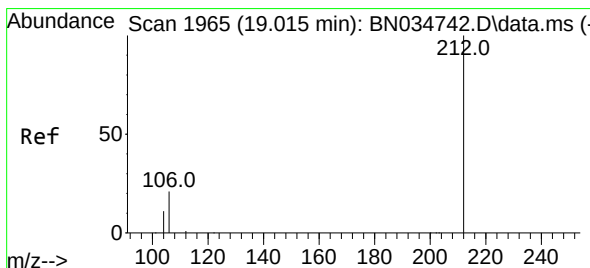
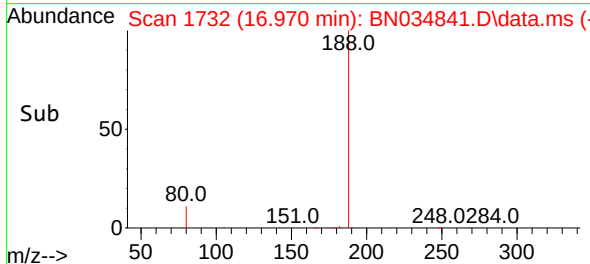
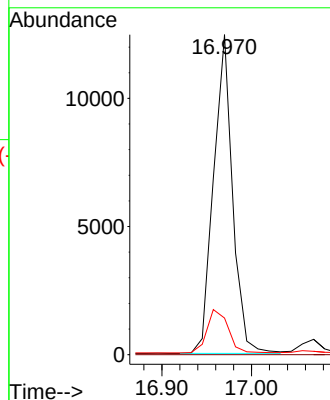
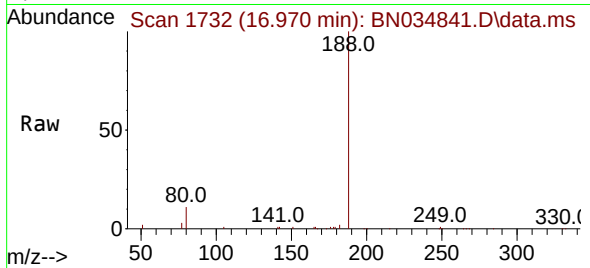




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.970 min Scan# 1732
Delta R.T. -0.012 min
Lab File: BN034841.D
Acq: 04 Nov 2024 16:07

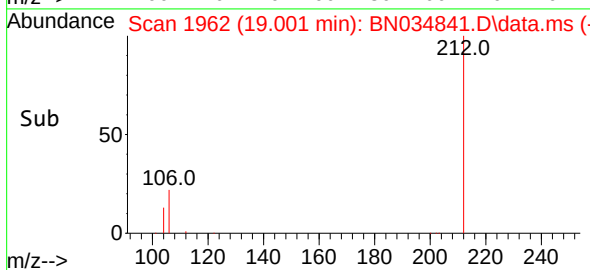
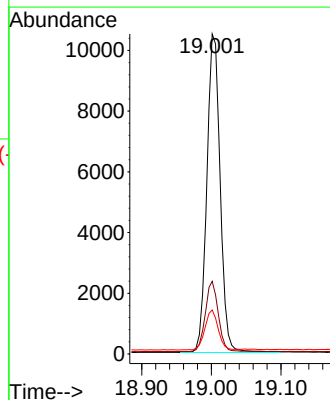
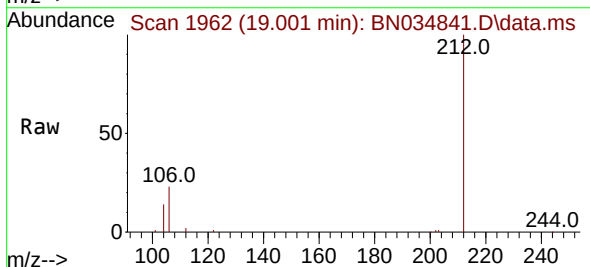
Instrument :
BNA_N
ClientSampleId :
RW5-SP301-303-50-20241030

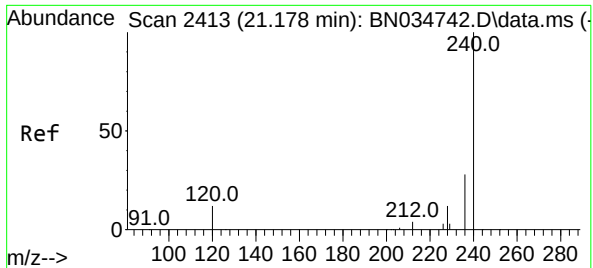
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.5	9.8	14.6



#27
Fluoranthene-d10
Concen: 0.324 ng
RT: 19.001 min Scan# 1962
Delta R.T. -0.014 min
Lab File: BN034841.D
Acq: 04 Nov 2024 16:07

Tgt Ion	Ratio	Lower	Upper
212	100		
106	21.6	16.1	24.1
104	12.4	9.2	13.8

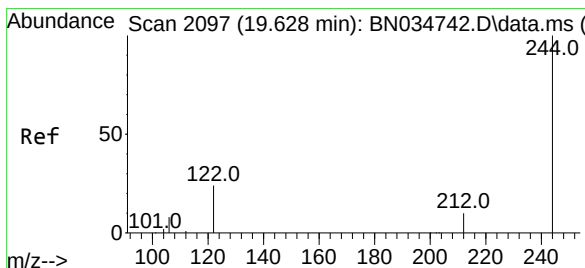
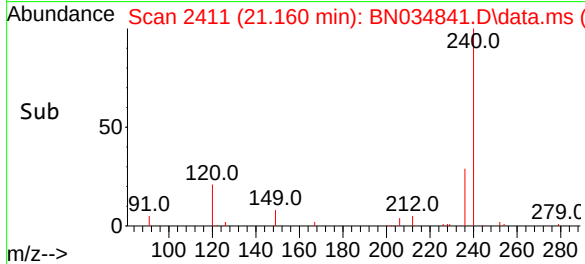
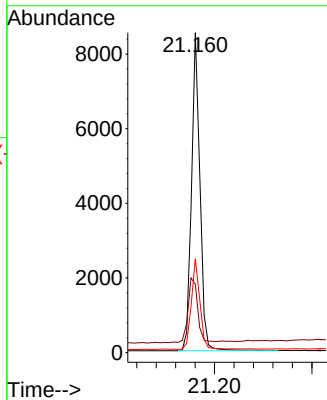
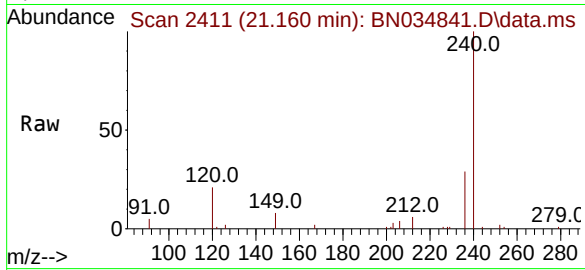




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.160 min Scan# 2413
Delta R.T. -0.018 min
Lab File: BN034841.D
Acq: 04 Nov 2024 16:07

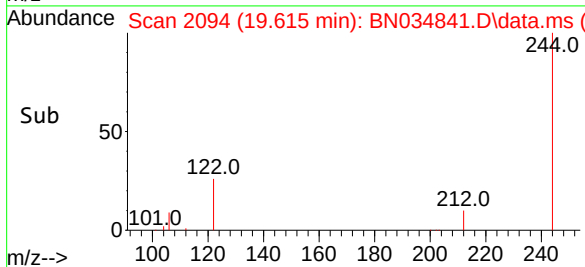
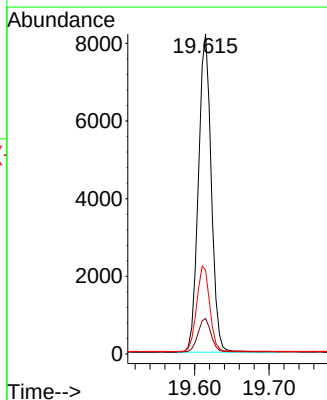
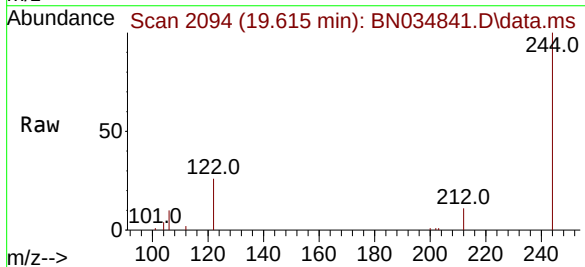
Instrument :
BNA_N
ClientSampleId :
RW5-SP301-303-50-20241030

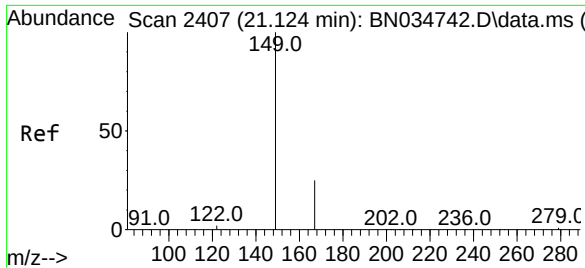
Tgt Ion	Ratio	Lower	Upper
240	100		
120	21.4	11.5	17.3#
236	29.3	23.2	34.8



#31
Terphenyl-d14
Concen: 0.445 ng
RT: 19.615 min Scan# 2094
Delta R.T. -0.014 min
Lab File: BN034841.D
Acq: 04 Nov 2024 16:07

Tgt Ion	Ratio	Lower	Upper
244	100		
212	11.1	8.2	12.4
122	26.2	19.8	29.6

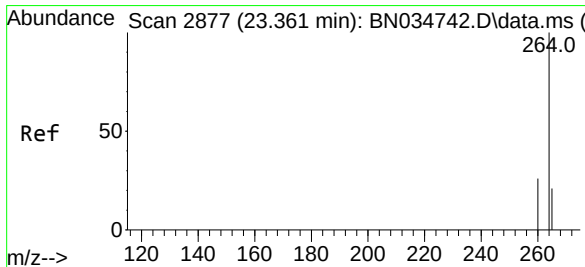
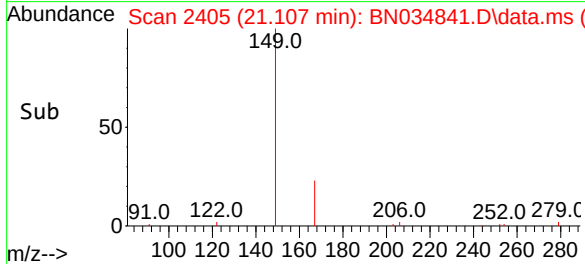
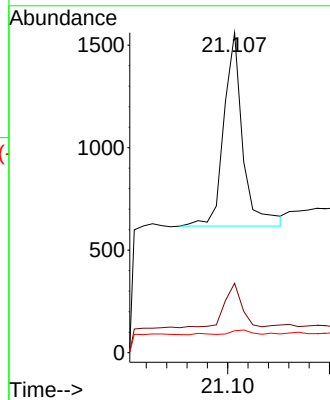
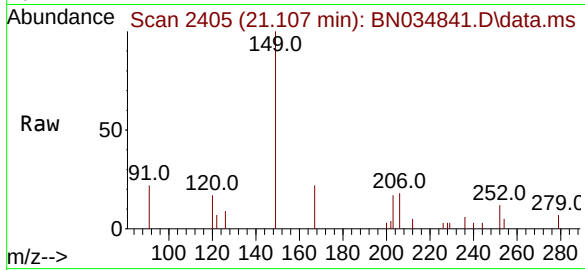




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.036 ng
RT: 21.107 min Scan# 2405
Delta R.T. -0.018 min
Lab File: BN034841.D
Acq: 04 Nov 2024 16:07

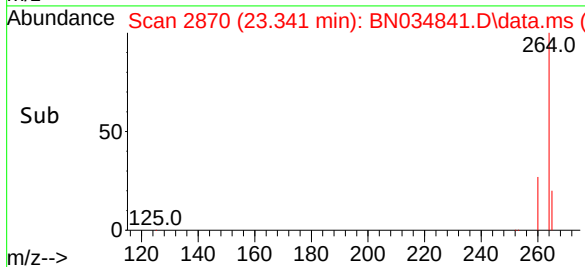
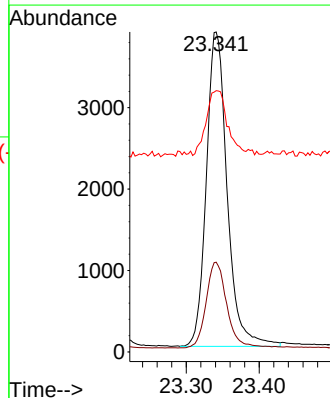
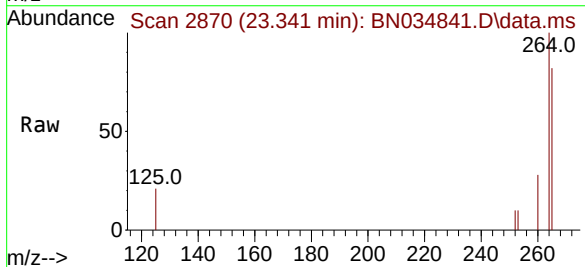
Instrument :
BNA_N
ClientSampleId :
RW5-SP301-303-50-20241030

Tgt Ion:149 Resp: 1219
Ion Ratio Lower Upper
149 100
167 21.0 20.6 30.8
279 2.3 1.5 2.3#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.341 min Scan# 2870
Delta R.T. -0.020 min
Lab File: BN034841.D
Acq: 04 Nov 2024 16:07

Tgt Ion:264 Resp: 7661
Ion Ratio Lower Upper
264 100
260 28.1 21.5 32.3
265 81.7 47.5 71.3#



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	10/30/24
Project:	CTO WE13	Date Received:	10/31/24
Client Sample ID:	RW5-SP100-90-20241030	SDG No.:	P4652
Lab Sample ID:	P4652-04	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	980 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN034857.D	1	11/01/24 09:35	11/05/24 01:45	PB164594

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	10.3	E	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.35		30 - 150		88%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.42		30 - 150		105%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.41		55 - 111		103%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		53 - 106		98%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.55	*	58 - 132		138%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6730		7.589			
1146-65-2	Naphthalene-d8	20800		10.351			
15067-26-2	Acenaphthene-d10	10500		14.222			
1517-22-2	Phenanthrene-d10	19800		16.97			
1719-03-5	Chrysene-d12	10100		21.16			
1520-96-3	Perylene-d12	7240		23.341			

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\BN110424\
Data File : BN034857.D
Acq On : 05 Nov 2024 01:45
Operator : RC/JU
Sample : P4652-04
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-90-20241030

Quant Time: Nov 05 03:17:30 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 05 00:03:28 2024
Response via : Initial Calibration

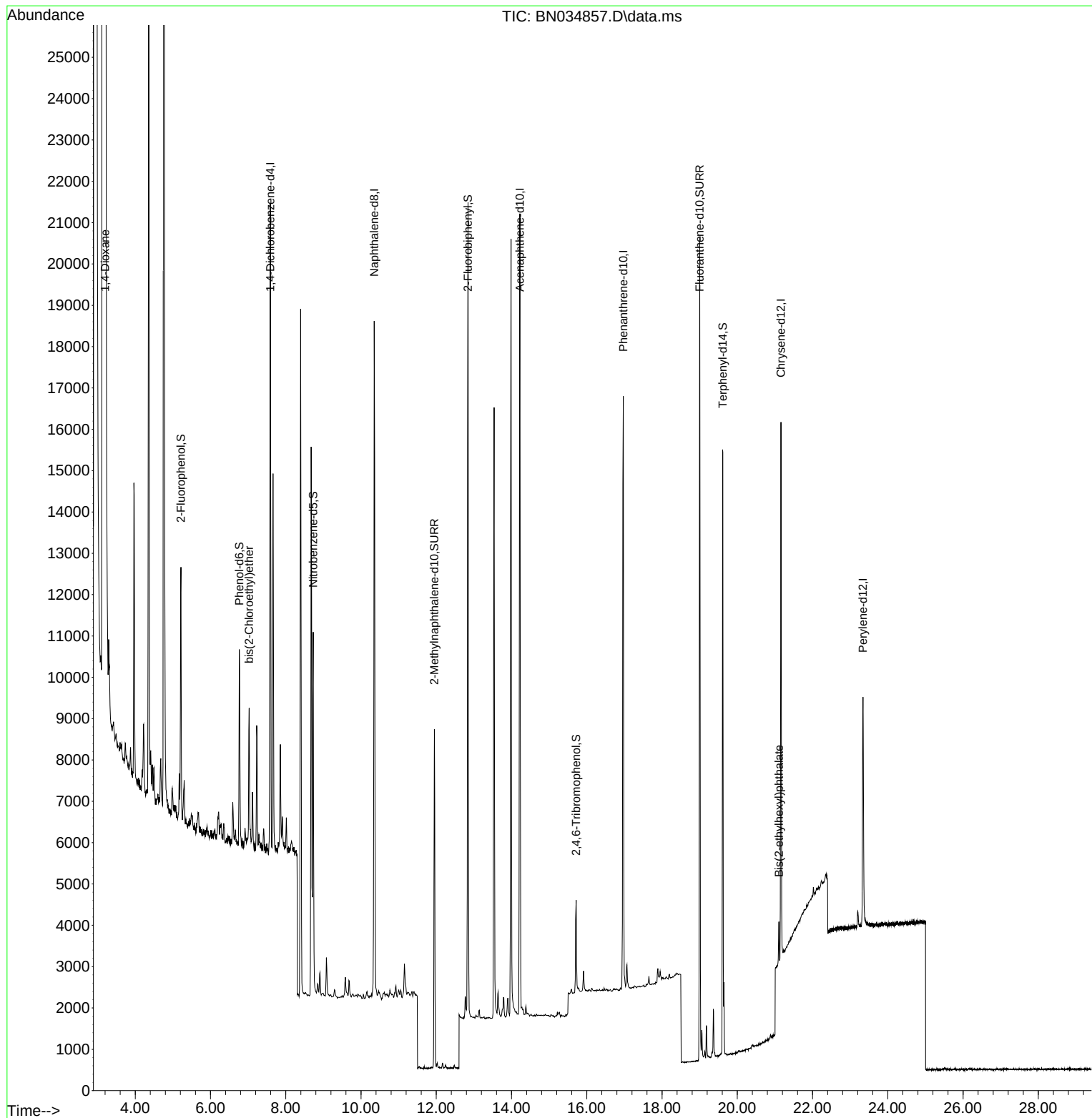
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.589	152	6734	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	20759	0.400	ng	# 0.00
13) Acenaphthene-d10	14.222	164	10518	0.400	ng	0.00
19) Phenanthrene-d10	16.970	188	19787	0.400	ng	0.00
29) Chrysene-d12	21.160	240	10095	0.400	ng	# 0.00
35) Perylene-d12	23.341	264	7238	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.213	112	4650	0.228	ng	0.00
5) Phenol-d6	6.766	99	4078	0.154	ng	0.00
8) Nitrobenzene-d5	8.728	82	6749	0.414	ng	0.00
11) 2-Methylnaphthalene-d10	11.950	152	10652	0.354	ng	0.00
14) 2,4,6-Tribromophenol	15.716	330	1234	0.238	ng	0.00
15) 2-Fluorobiphenyl	12.843	172	16339	0.394	ng	0.00
27) Fluoranthene-d10	19.001	212	19442	0.419	ng	0.00
31) Terphenyl-d14	19.615	244	11987	0.553	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.198	88	74636	10.110	ng	Qvalue 92
6) bis(2-Chloroethyl)ether	7.026	93	1582	0.082	ng	# 81
34) Bis(2-ethylhexyl)phtha...	21.107	149	993	0.030	ng	# 95

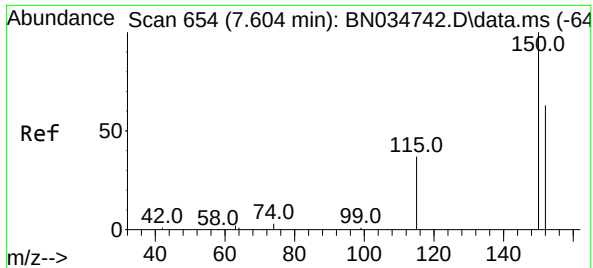
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110424\
Data File : BN034857.D
Acq On : 05 Nov 2024 01:45
Operator : RC/JU
Sample : P4652-04
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-90-20241030

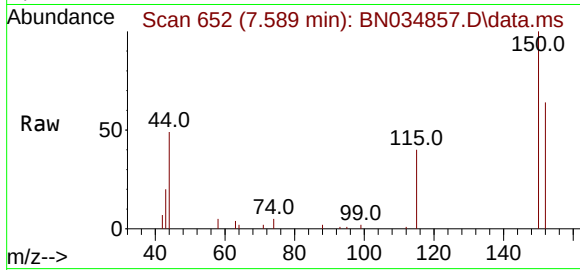
Quant Time: Nov 05 03:17:30 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 05 00:03:28 2024
Response via : Initial Calibration



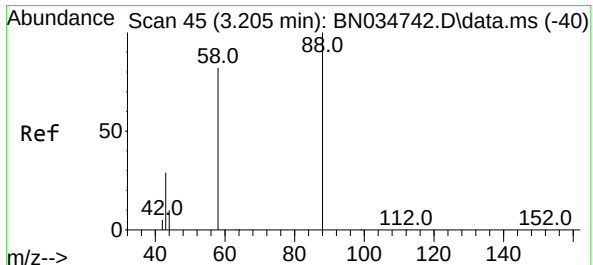
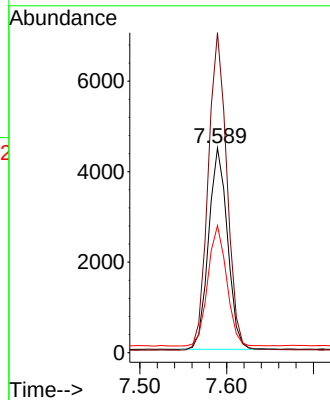
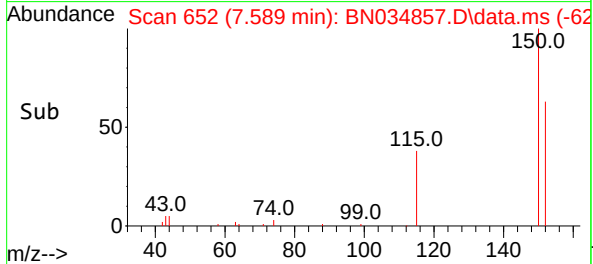


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.589 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN034857.D
Acq: 05 Nov 2024 01:45

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-90-20241030

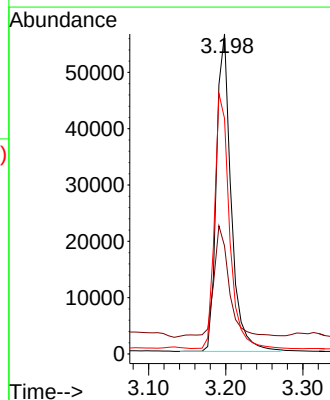
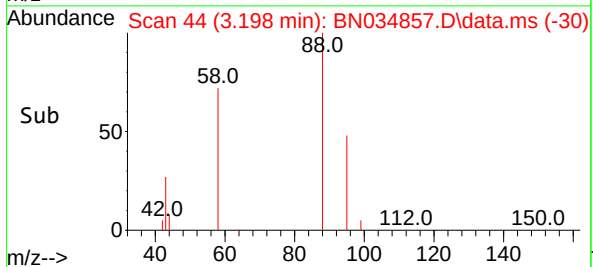
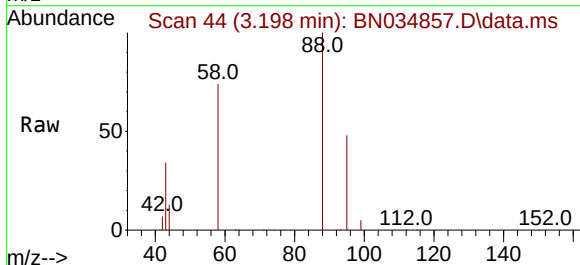


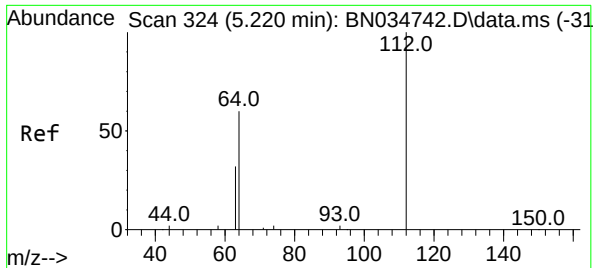
Tgt Ion:152 Resp: 6734
Ion Ratio Lower Upper
152 100
150 156.2 124.9 187.3
115 62.0 50.2 75.2



#2
1,4-Dioxane
Concen: 10.110 ng
RT: 3.198 min Scan# 44
Delta R.T. 0.000 min
Lab File: BN034857.D
Acq: 05 Nov 2024 01:45

Tgt Ion: 88 Resp: 74636
Ion Ratio Lower Upper
88 100
43 37.6 26.7 40.1
58 81.2 59.3 88.9





#4

2-Fluorophenol

Concen: 0.228 ng

RT: 5.213 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN034857.D

Acq: 05 Nov 2024 01:45

Instrument :

BNA_N

ClientSampleId :

RW5-SP100-90-20241030

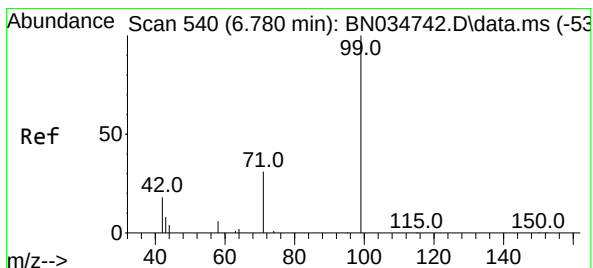
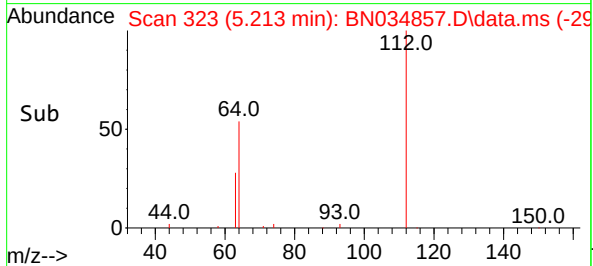
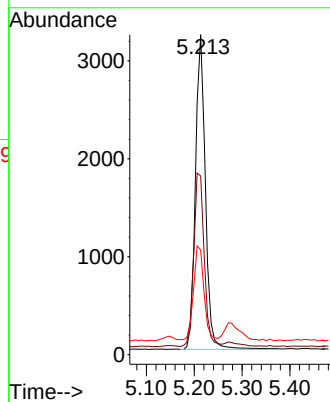
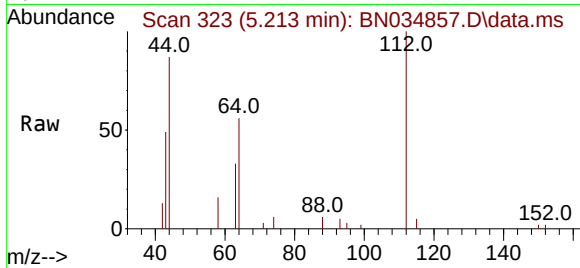
Tgt Ion:112 Resp: 4650

Ion Ratio Lower Upper

112 100

64 57.9 44.9 67.3

63 31.3 23.5 35.3



#5

Phenol-d6

Concen: 0.154 ng

RT: 6.766 min Scan# 538

Delta R.T. 0.000 min

Lab File: BN034857.D

Acq: 05 Nov 2024 01:45

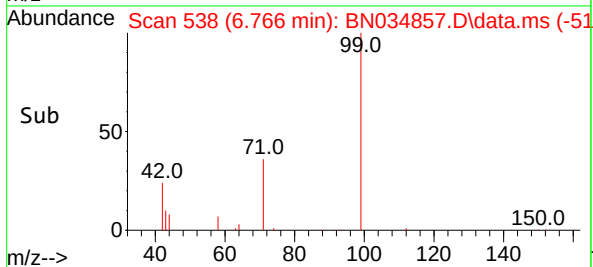
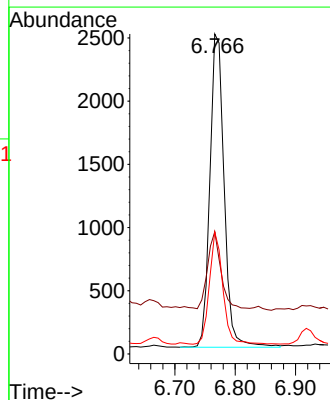
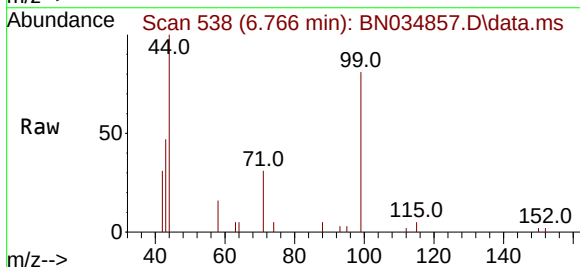
Tgt Ion: 99 Resp: 4078

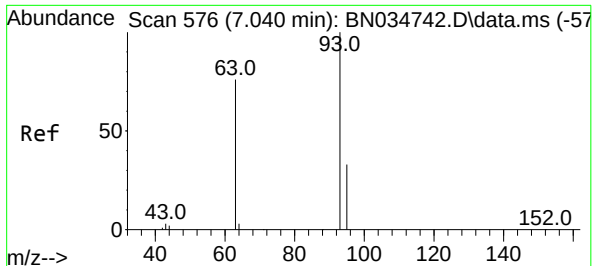
Ion Ratio Lower Upper

99 100

42 23.0 15.9 23.9

71 33.8 24.3 36.5

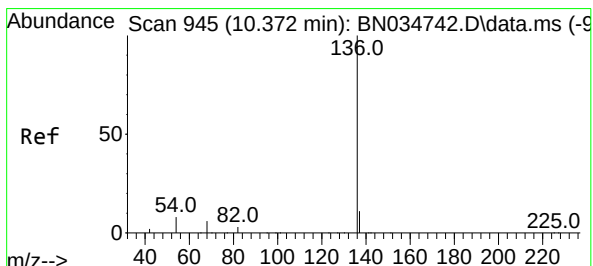
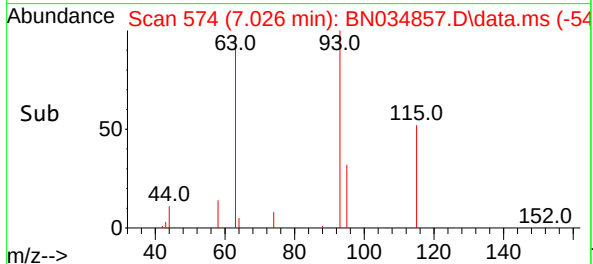
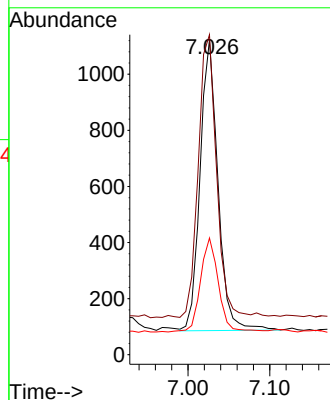
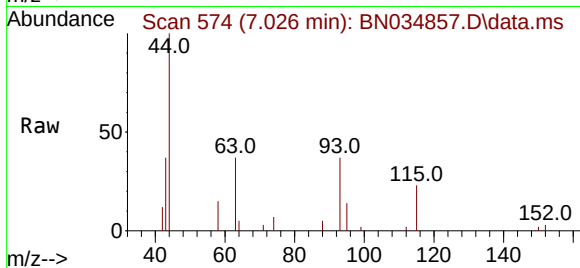




#6
bis(2-Chloroethyl)ether
Concen: 0.082 ng
RT: 7.026 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN034857.D
Acq: 05 Nov 2024 01:45

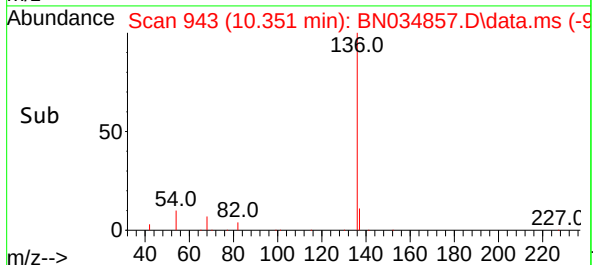
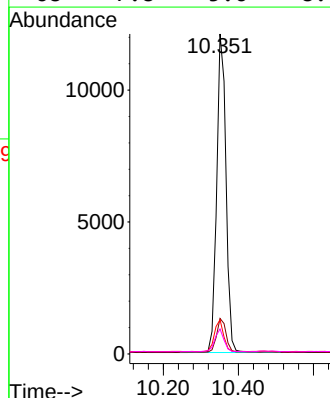
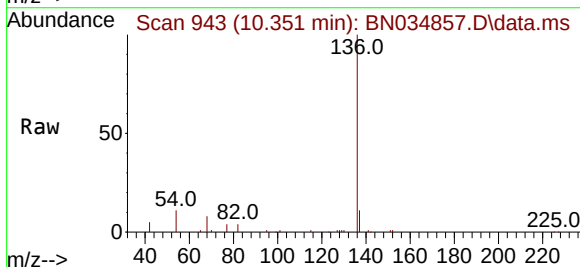
Instrument :
BNA_N
ClientSampleId :
RW5-SP100-90-20241030

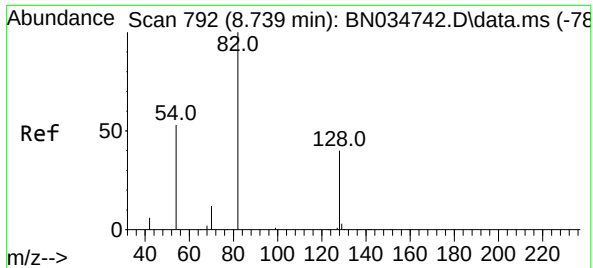
Tgt Ion:	93	Resp:	1582
Ion	Ratio	Lower	Upper
93	100		
63	99.9	61.2	91.8#
95	32.9	25.8	38.8



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 943
Delta R.T. 0.000 min
Lab File: BN034857.D
Acq: 05 Nov 2024 01:45

Tgt Ion:	136	Resp:	20759
Ion	Ratio	Lower	Upper
136	100		
137	11.1	9.2	13.8
54	10.7	7.0	10.4#
68	7.8	5.6	8.4

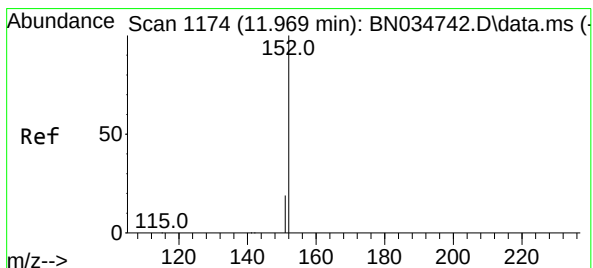
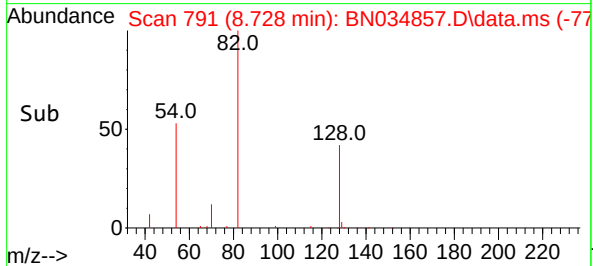
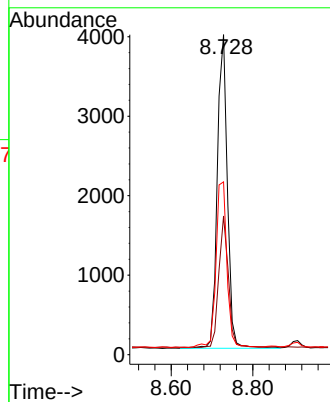
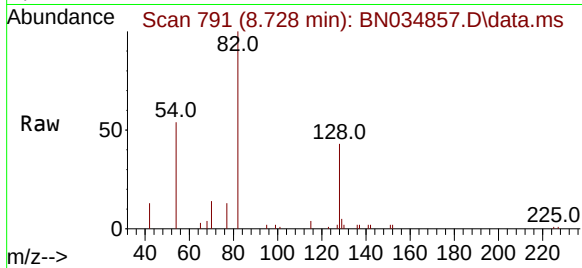




#8
Nitrobenzene-d5
Concen: 0.414 ng
RT: 8.728 min Scan# 791
Delta R.T. 0.000 min
Lab File: BN034857.D
Acq: 05 Nov 2024 01:45

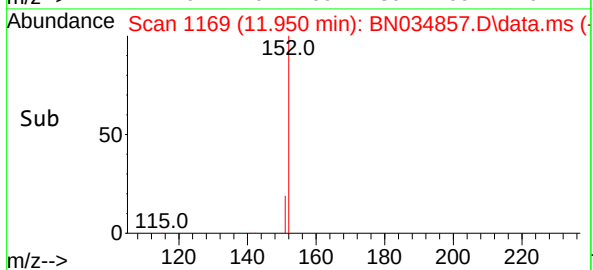
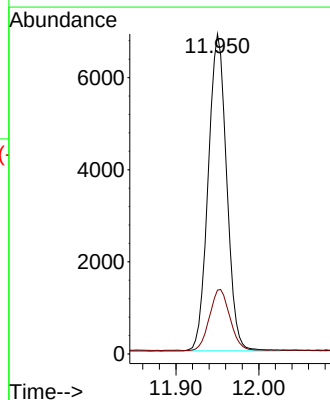
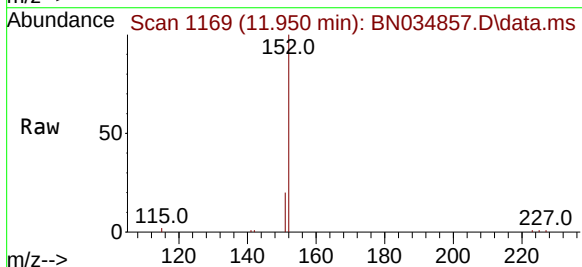
Instrument :
BNA_N
ClientSampleId :
RW5-SP100-90-20241030

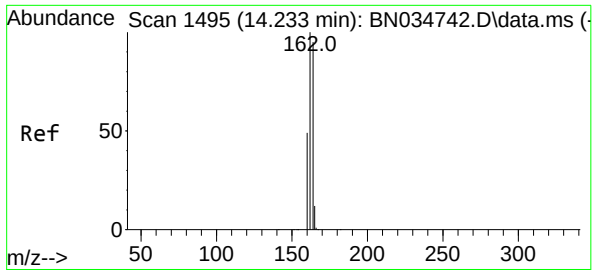
Tgt Ion:	82	Resp:	6749
Ion Ratio	Lower	Upper	
82	100		
128	43.4	33.7	50.5
54	54.0	44.4	66.6



#11
2-Methylnaphthalene-d10
Concen: 0.354 ng
RT: 11.950 min Scan# 1169
Delta R.T. 0.000 min
Lab File: BN034857.D
Acq: 05 Nov 2024 01:45

Tgt Ion:	152	Resp:	10652
Ion Ratio	Lower	Upper	
152	100		
151	21.3	16.6	24.8

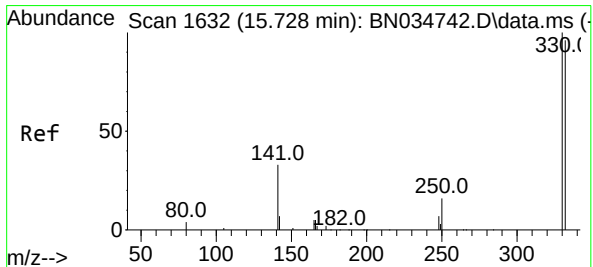
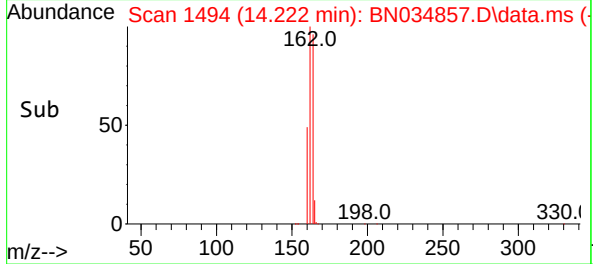
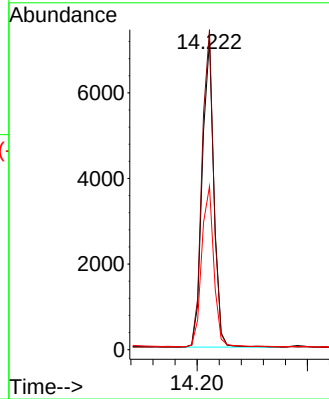
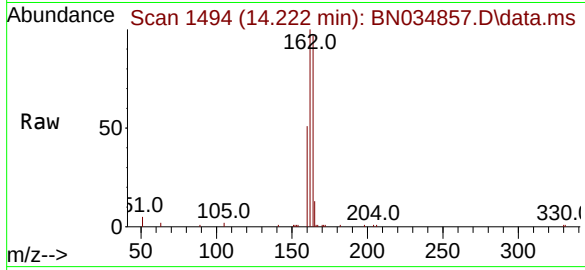




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.222 min Scan# 1494
Delta R.T. 0.000 min
Lab File: BN034857.D
Acq: 05 Nov 2024 01:45

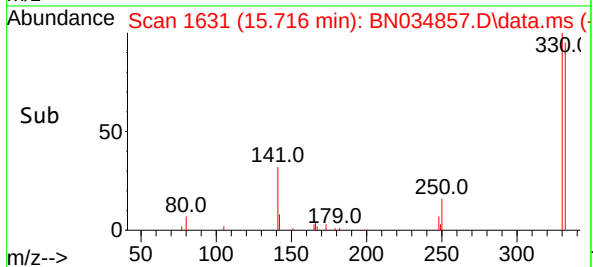
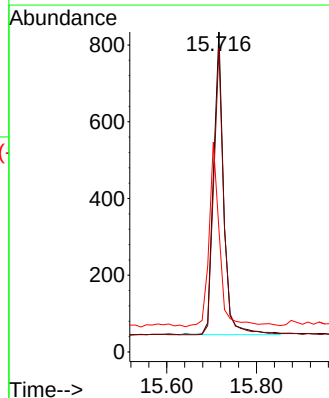
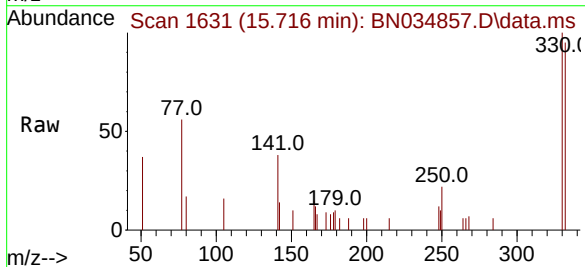
Instrument :
BNA_N
ClientSampleId :
RW5-SP100-90-20241030

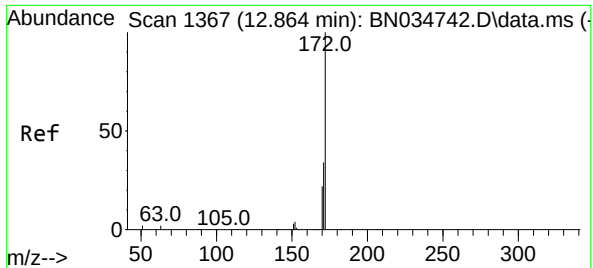
Tgt Ion:164 Resp: 10518
Ion Ratio Lower Upper
164 100
162 103.5 84.3 126.5
160 52.8 41.7 62.5



#14
2,4,6-Tribromophenol
Concen: 0.238 ng
RT: 15.716 min Scan# 1631
Delta R.T. 0.000 min
Lab File: BN034857.D
Acq: 05 Nov 2024 01:45

Tgt Ion:330 Resp: 1234
Ion Ratio Lower Upper
330 100
332 94.7 77.8 116.6
141 63.9 41.0 61.4#

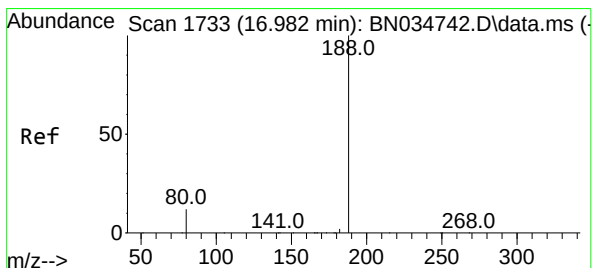
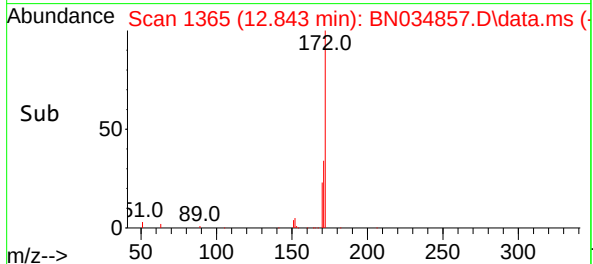
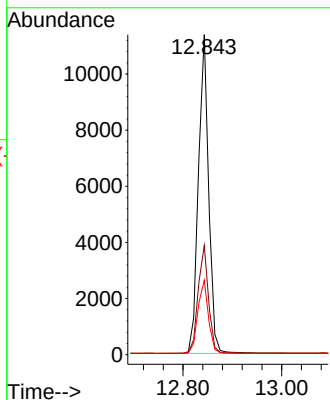
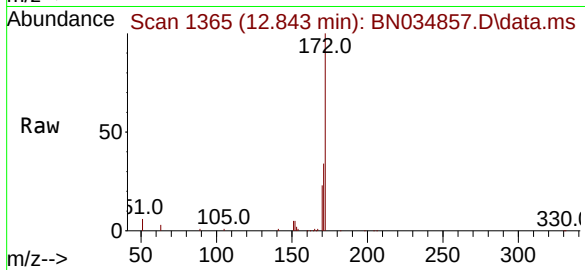




#15
2-Fluorobiphenyl
Concen: 0.394 ng
RT: 12.843 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN034857.D
Acq: 05 Nov 2024 01:45

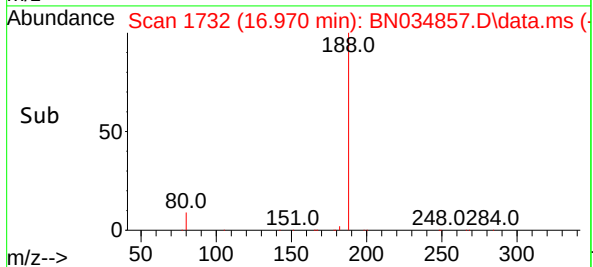
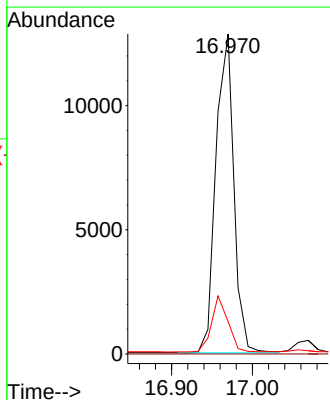
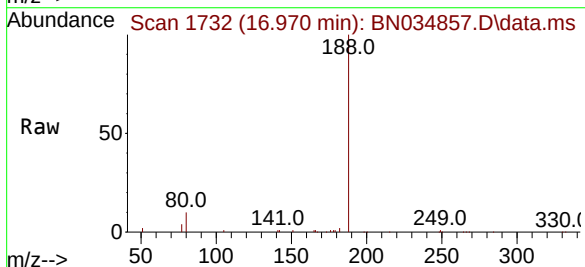
Instrument :
BNA_N
ClientSampleId :
RW5-SP100-90-20241030

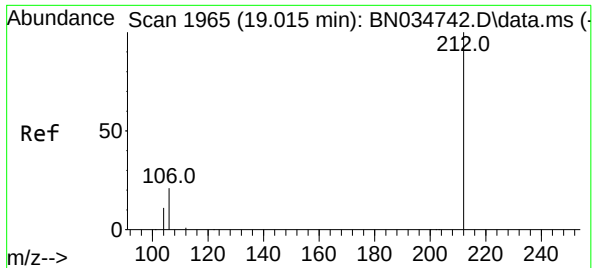
Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.1	27.2	40.8
170	23.2	18.0	27.0



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.970 min Scan# 1732
Delta R.T. 0.000 min
Lab File: BN034857.D
Acq: 05 Nov 2024 01:45

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.1	9.8	14.6





#27

Fluoranthene-d10

Concen: 0.419 ng

RT: 19.001 min Scan# 19

Delta R.T. 0.000 min

Lab File: BN034857.D

Acq: 05 Nov 2024 01:45

Instrument :

BNA_N

ClientSampleId :

RW5-SP100-90-20241030

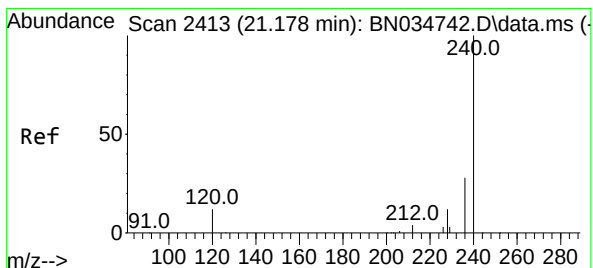
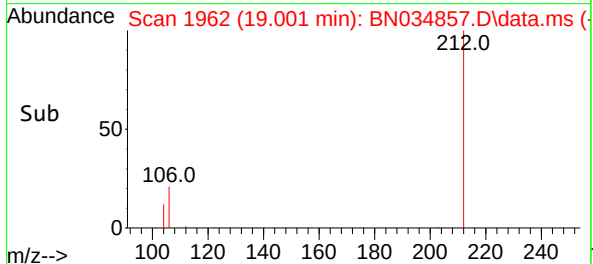
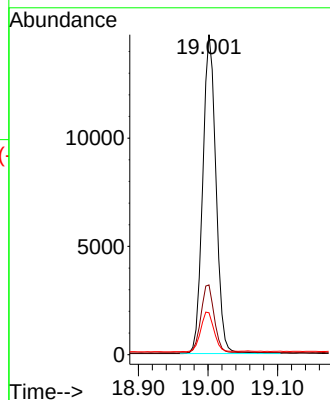
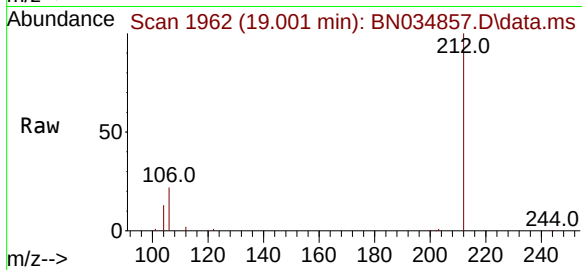
Tgt Ion:212 Resp: 19442

Ion Ratio Lower Upper

212 100

106 21.4 16.1 24.1

104 12.6 9.2 13.8



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.160 min Scan# 2411

Delta R.T. 0.000 min

Lab File: BN034857.D

Acq: 05 Nov 2024 01:45

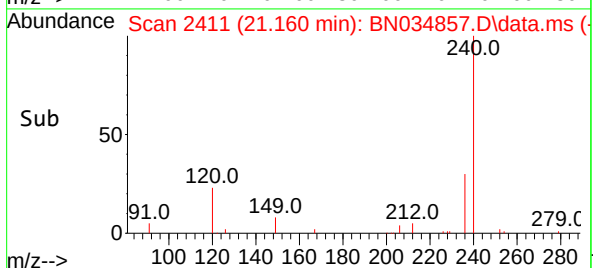
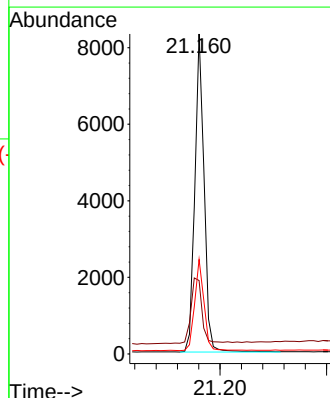
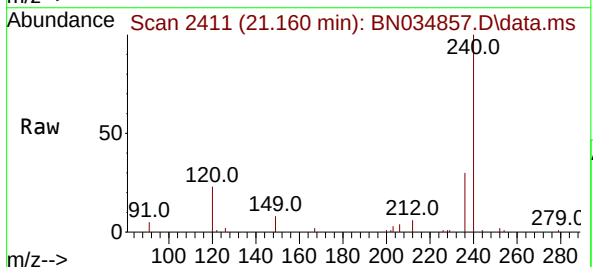
Tgt Ion:240 Resp: 10095

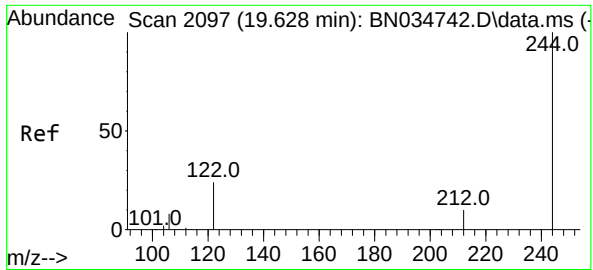
Ion Ratio Lower Upper

240 100

120 23.0 11.5 17.3#

236 29.5 23.2 34.8

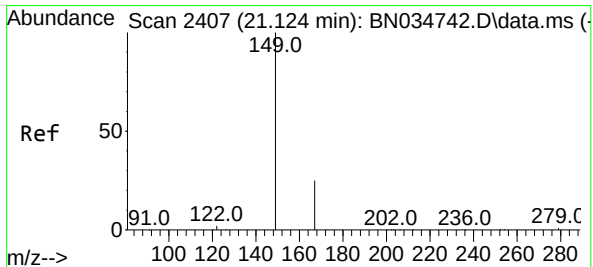
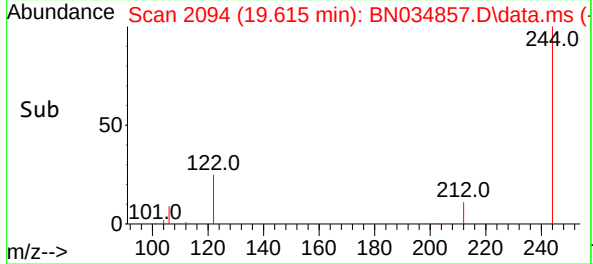
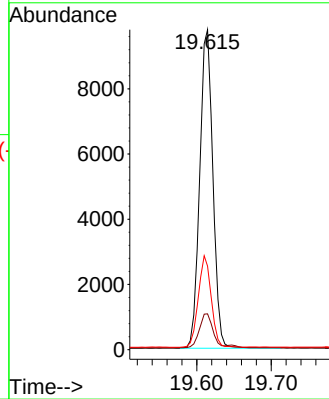
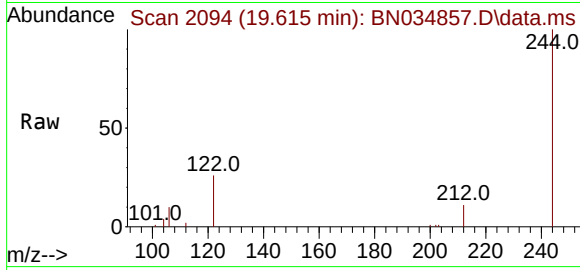




#31
Terphenyl-d14
Concen: 0.553 ng
RT: 19.615 min Scan# 2094
Delta R.T. 0.000 min
Lab File: BN034857.D
Acq: 05 Nov 2024 01:45

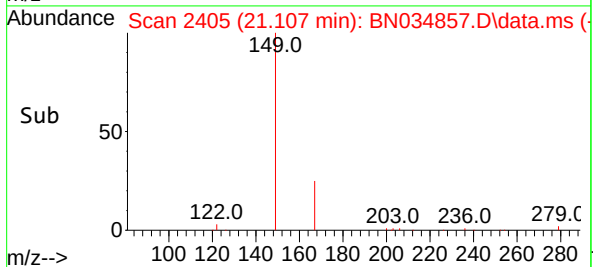
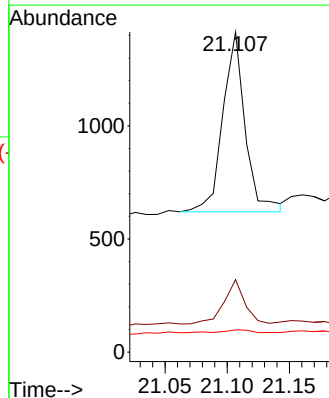
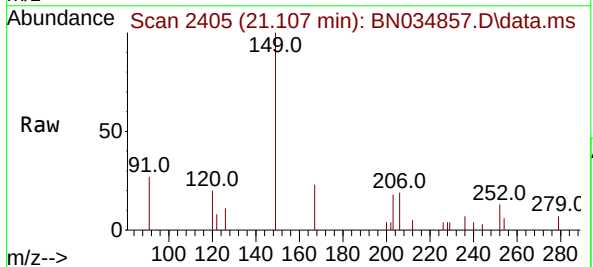
Instrument :
BNA_N
ClientSampleId :
RW5-SP100-90-20241030

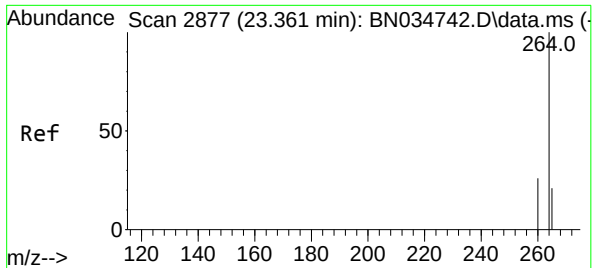
Tgt Ion	Ratio	Lower	Upper
244	100		
212	11.2	8.2	12.4
122	26.1	19.8	29.6



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.030 ng
RT: 21.107 min Scan# 2405
Delta R.T. 0.000 min
Lab File: BN034857.D
Acq: 05 Nov 2024 01:45

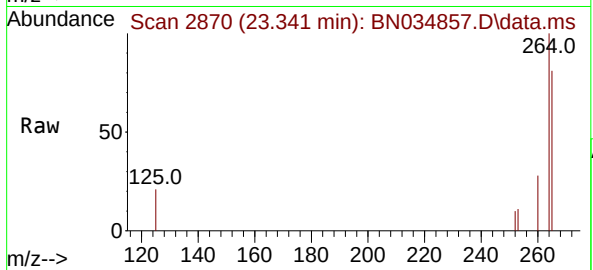
Tgt Ion	Ratio	Lower	Upper
149	100		
167	23.0	20.6	30.8
279	2.3	1.5	2.3



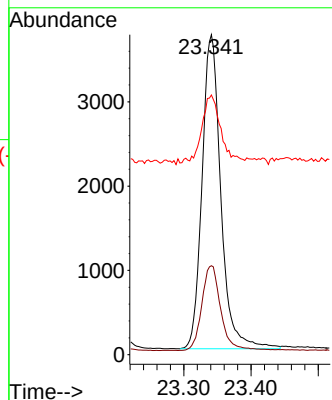
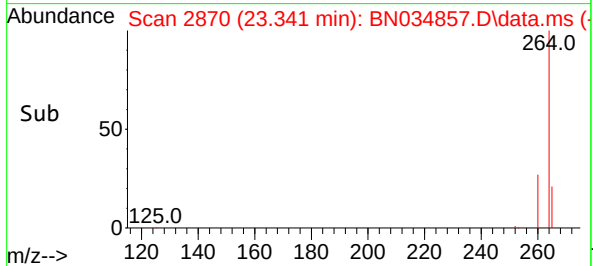


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.341 min Scan# 21
Delta R.T. 0.006 min
Lab File: BN034857.D
Acq: 05 Nov 2024 01:45

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-90-20241030



Tgt Ion:264 Resp: 7238
Ion Ratio Lower Upper
264 100
260 27.8 21.5 32.3
265 81.2 47.5 71.3#



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	10/30/24
Project:	CTO WE13	Date Received:	10/31/24
Client Sample ID:	RW5-SP100-90-20241030DL	SDG No.:	P4652
Lab Sample ID:	P4652-04DL	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	980 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN034865.D	5	11/01/24 09:35	11/05/24 11:13	PB164594

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	11.6	D	0.35	1.00	1.00	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.37		30 - 150		91%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.44		30 - 150		110%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.44		55 - 111		109%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.42		53 - 106		105%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.53		58 - 132		132%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6430	7.589				
1146-65-2	Naphthalene-d8	19400	10.351				
15067-26-2	Acenaphthene-d10	9320	14.222				
1517-22-2	Phenanthrene-d10	18200	16.97				
1719-03-5	Chrysene-d12	9600	21.16				
1520-96-3	Perylene-d12	7190	23.338				

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\BN110524\
Data File : BN034865.D
Acq On : 05 Nov 2024 11:13
Operator : RC/JU
Sample : P4652-04DL 5X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-90-20241030DL

Quant Time: Nov 05 11:39:50 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 05 00:03:28 2024
Response via : Initial Calibration

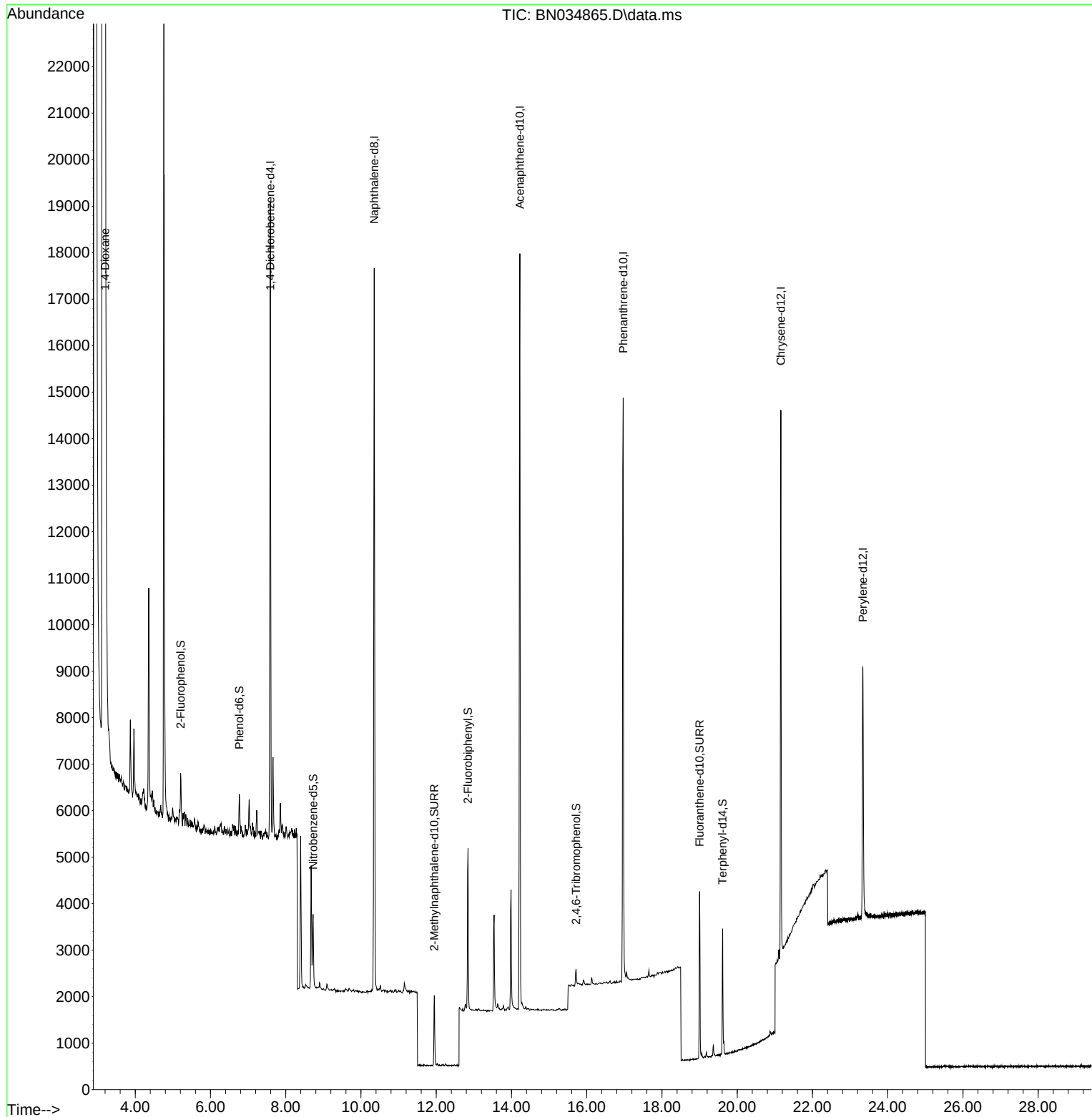
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.589	152	6432	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	19375	0.400	ng	0.00
13) Acenaphthene-d10	14.222	164	9318	0.400	ng	0.00
19) Phenanthrene-d10	16.970	188	18184	0.400	ng	0.00
29) Chrysene-d12	21.160	240	9599	0.400	ng	# 0.00
35) Perylene-d12	23.338	264	7192	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.206	112	883	0.045	ng	0.00
5) Phenol-d6	6.766	99	784	0.031	ng	0.00
8) Nitrobenzene-d5	8.728	82	1318	0.087	ng	0.00
11) 2-Methylnaphthalene-d10	11.946	152	2036	0.073	ng	0.00
14) 2,4,6-Tribromophenol	15.716	330	215	0.047	ng	0.00
15) 2-Fluorobiphenyl	12.843	172	3071	0.084	ng	0.00
27) Fluoranthene-d10	19.001	212	3744	0.088	ng	0.00
31) Terphenyl-d14	19.610	244	2188	0.106	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.198	88	16029	2.273	ng	92

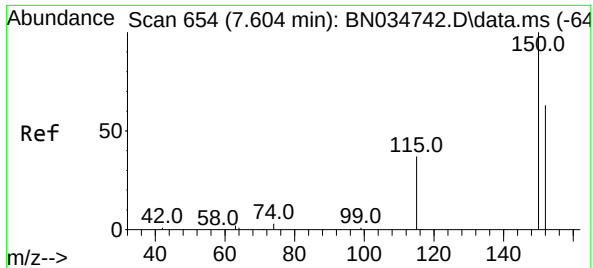
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110524\
Data File : BN034865.D
Acq On : 05 Nov 2024 11:13
Operator : RC/JU
Sample : P4652-04DL 5X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-90-20241030DL

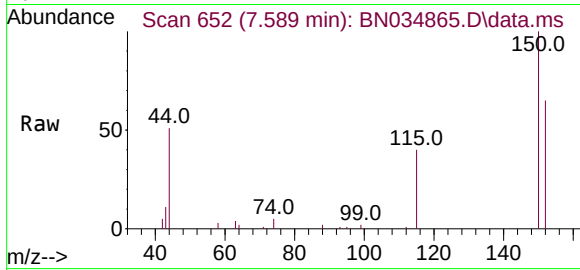
Quant Time: Nov 05 11:39:50 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 05 00:03:28 2024
Response via : Initial Calibration



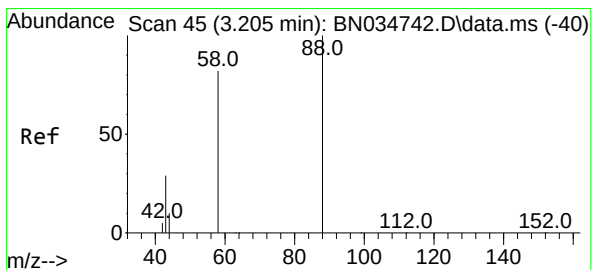
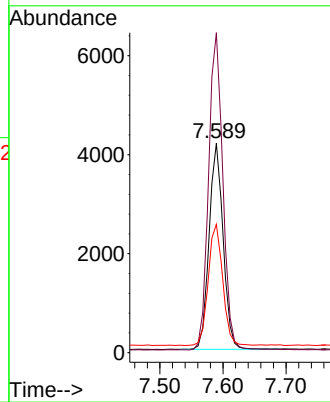


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.589 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN034865.D
Acq: 05 Nov 2024 11:13

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-90-20241030DL

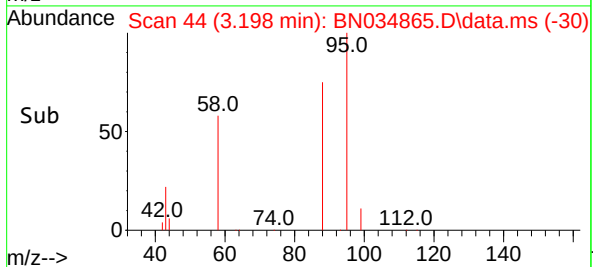
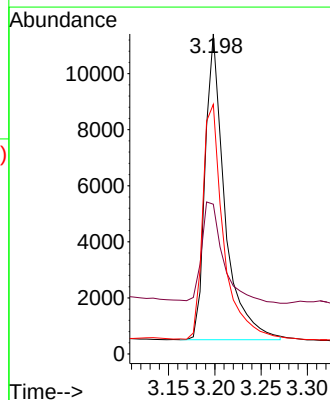
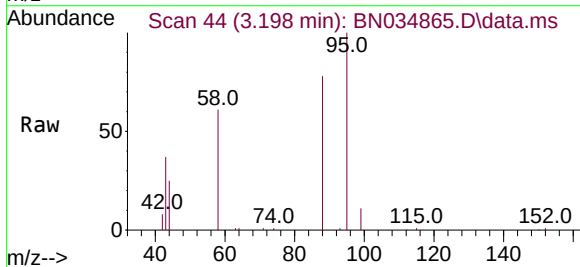


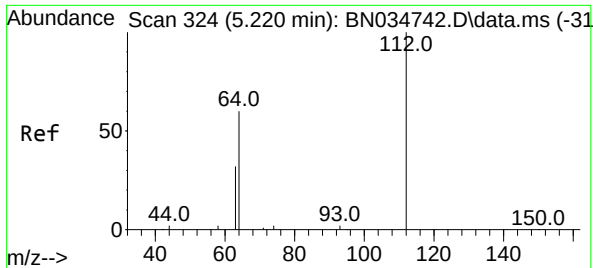
Tgt Ion:152 Resp: 6432
Ion Ratio Lower Upper
152 100
150 152.8 124.9 187.3
115 61.3 50.2 75.2



#2
1,4-Dioxane
Concen: 2.273 ng
RT: 3.198 min Scan# 44
Delta R.T. 0.000 min
Lab File: BN034865.D
Acq: 05 Nov 2024 11:13

Tgt Ion: 88 Resp: 16029
Ion Ratio Lower Upper
88 100
43 36.8 26.7 40.1
58 81.6 59.3 88.9

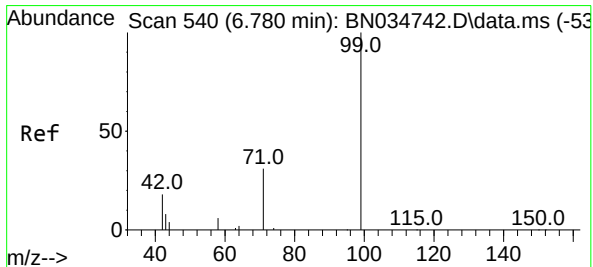
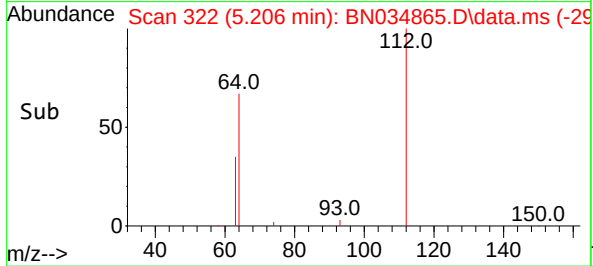
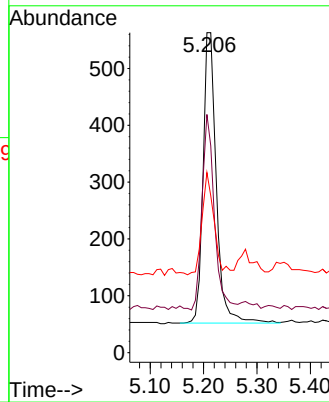
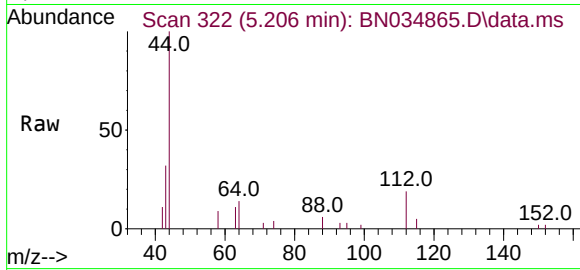




#4
2-Fluorophenol
Concen: 0.045 ng
RT: 5.206 min Scan# 31
Delta R.T. -0.007 min
Lab File: BN034865.D
Acq: 05 Nov 2024 11:13

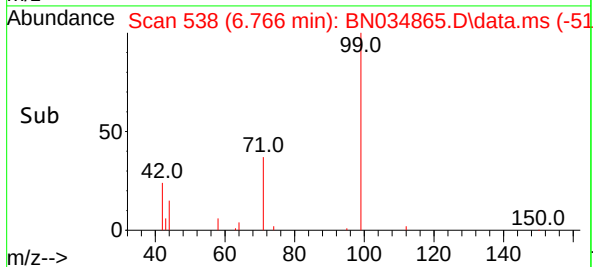
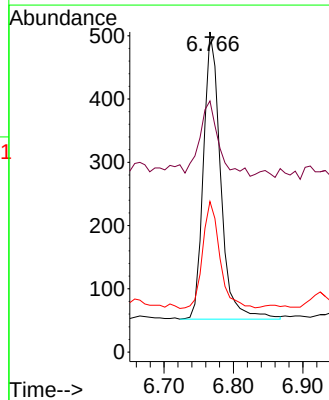
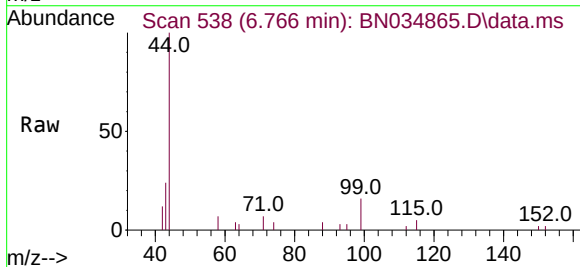
Instrument :
BNA_N
ClientSampleId :
RW5-SP100-90-20241030DL

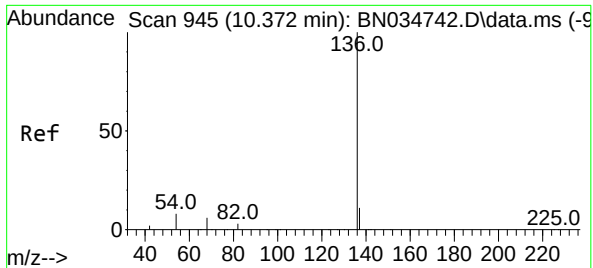
Tgt Ion:	112	Resp:	883
Ion	Ratio	Lower	Upper
112	100		
64	63.1	44.9	67.3
63	31.7	23.5	35.3



#5
Phenol-d6
Concen: 0.031 ng
RT: 6.766 min Scan# 538
Delta R.T. 0.000 min
Lab File: BN034865.D
Acq: 05 Nov 2024 11:13

Tgt Ion:	99	Resp:	784
Ion	Ratio	Lower	Upper
99	100		
42	29.1	15.9	23.9#
71	37.2	24.3	36.5#

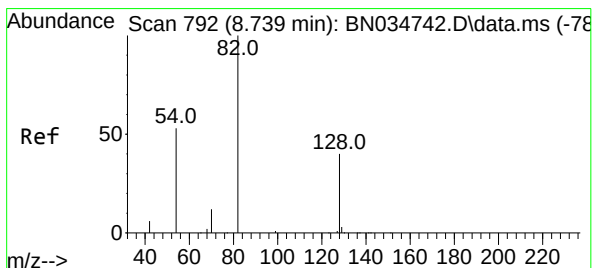
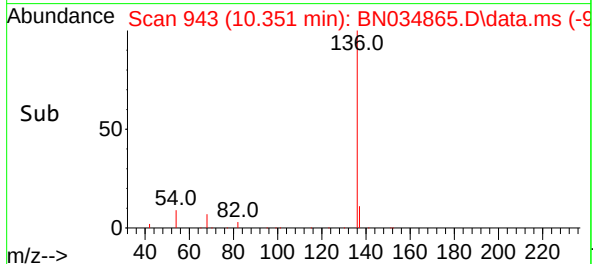
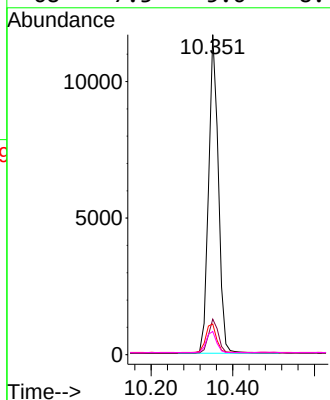
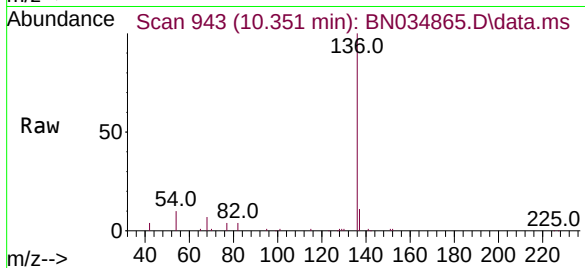




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 945
Delta R.T. 0.000 min
Lab File: BN034865.D
Acq: 05 Nov 2024 11:13

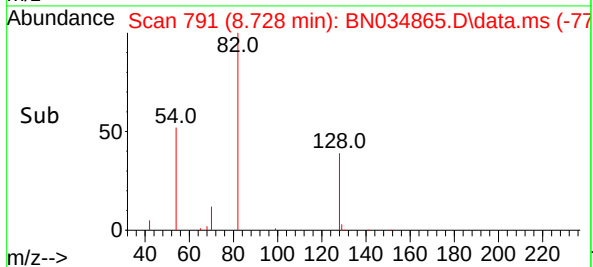
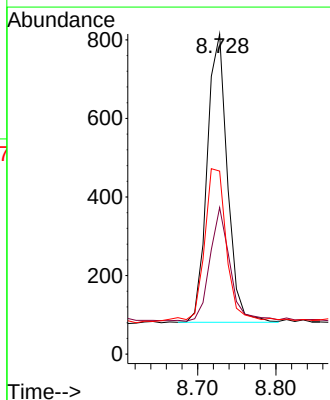
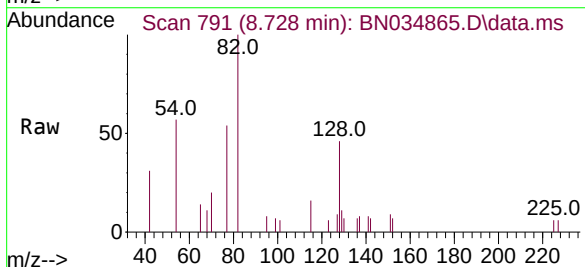
Instrument :
BNA_N
ClientSampleId :
RW5-SP100-90-20241030DL

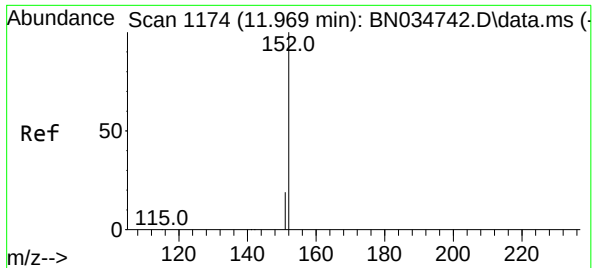
Tgt Ion:	136	Resp:	19375
Ion	Ratio	Lower	Upper
136	100		
137	11.1	9.2	13.8
54	9.6	7.0	10.4
68	7.3	5.6	8.4



#8
Nitrobenzene-d5
Concen: 0.087 ng
RT: 8.728 min Scan# 791
Delta R.T. 0.000 min
Lab File: BN034865.D
Acq: 05 Nov 2024 11:13

Tgt Ion:	82	Resp:	1318
Ion	Ratio	Lower	Upper
82	100		
128	45.8	33.7	50.5
54	57.2	44.4	66.6

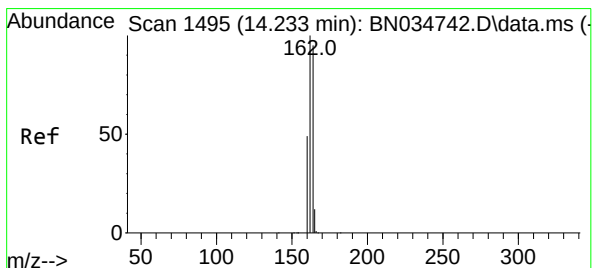
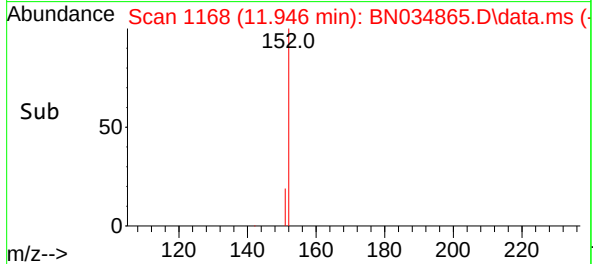
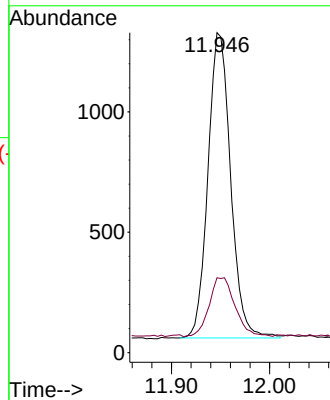
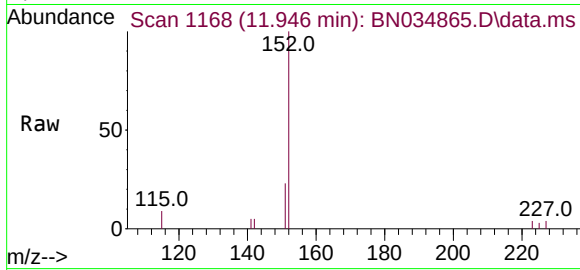




#11
2-Methylnaphthalene-d10
Concen: 0.073 ng
RT: 11.946 min Scan# 1174
Delta R.T. -0.004 min
Lab File: BN034865.D
Acq: 05 Nov 2024 11:13

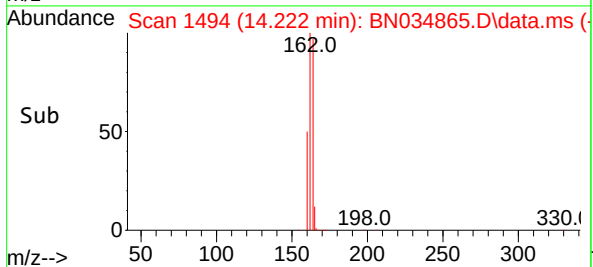
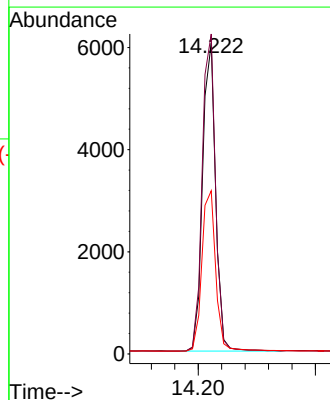
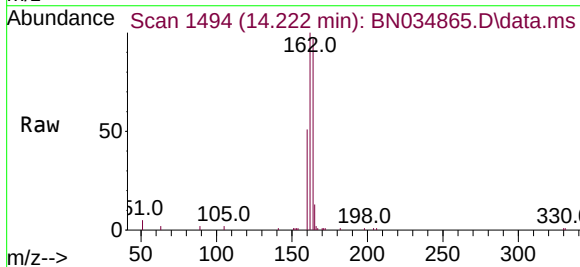
Instrument :
BNA_N
ClientSampleId :
RW5-SP100-90-20241030DL

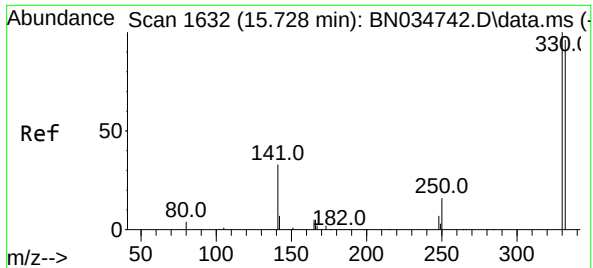
Tgt Ion:152 Resp: 2036
Ion Ratio Lower Upper
152 100
151 22.2 16.6 24.8



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.222 min Scan# 1494
Delta R.T. 0.000 min
Lab File: BN034865.D
Acq: 05 Nov 2024 11:13

Tgt Ion:164 Resp: 9318
Ion Ratio Lower Upper
164 100
162 102.9 84.3 126.5
160 52.5 41.7 62.5

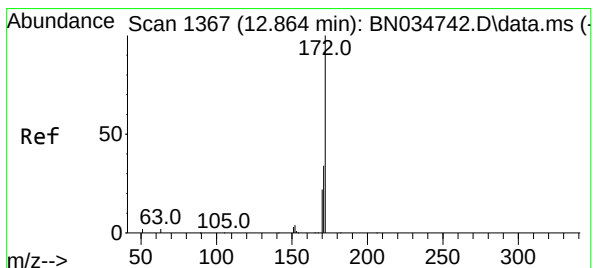
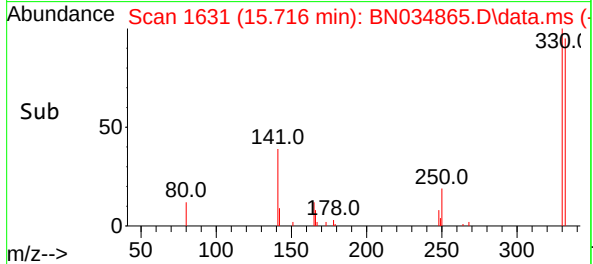
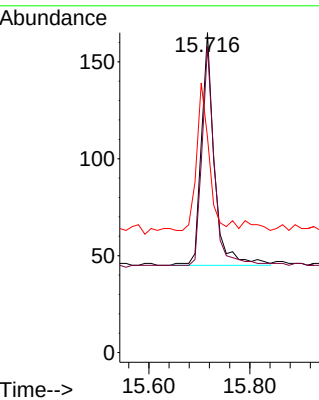
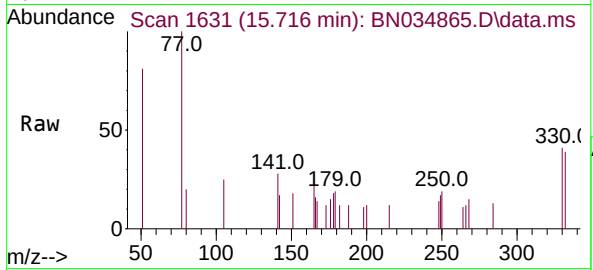




#14
2,4,6-Tribromophenol
Concen: 0.047 ng
RT: 15.716 min Scan# 1631
Delta R.T. 0.000 min
Lab File: BN034865.D
Acq: 05 Nov 2024 11:13

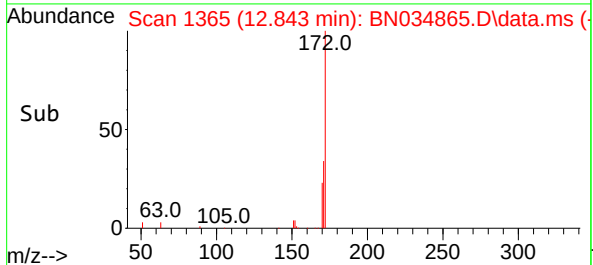
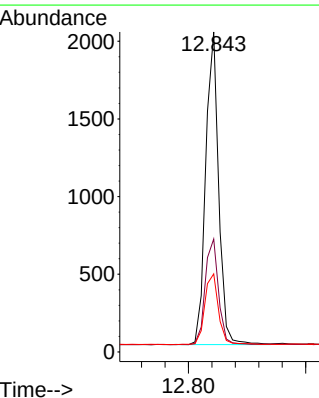
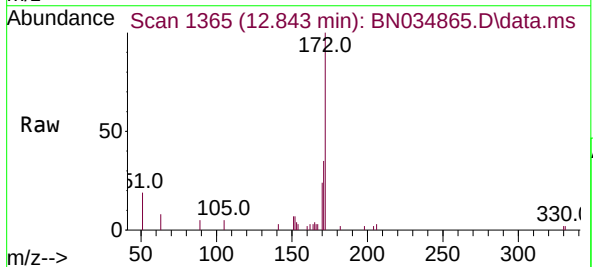
Instrument :
BNA_N
ClientSampleId :
RW5-SP100-90-20241030DL

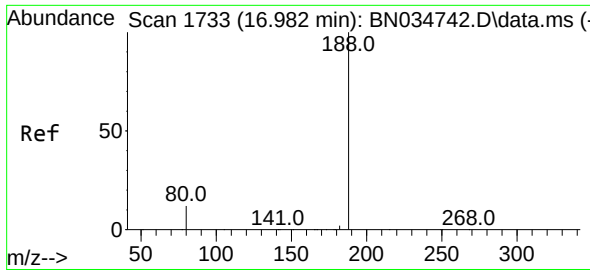
Tgt Ion:	330	Resp:	215
Ion	Ratio	Lower	Upper
330	100		
332	89.3	77.8	116.6
141	59.1	41.0	61.4



#15
2-Fluorobiphenyl
Concen: 0.084 ng
RT: 12.843 min Scan# 1365
Delta R.T. 0.000 min
Lab File: BN034865.D
Acq: 05 Nov 2024 11:13

Tgt Ion:	172	Resp:	3071
Ion	Ratio	Lower	Upper
172	100		
171	35.3	27.2	40.8
170	24.4	18.0	27.0

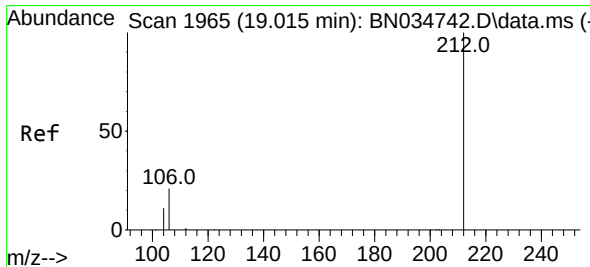
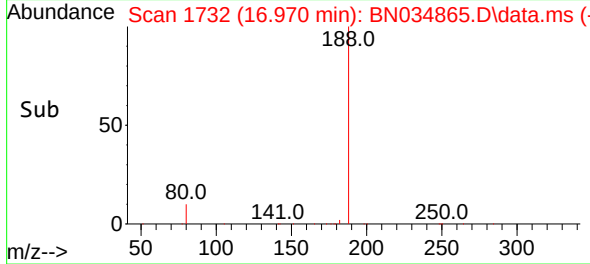
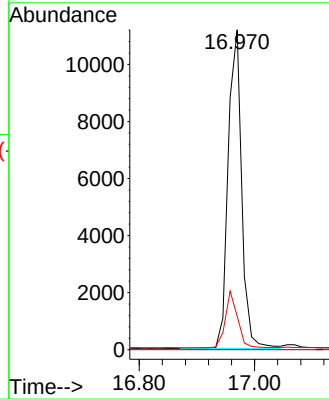
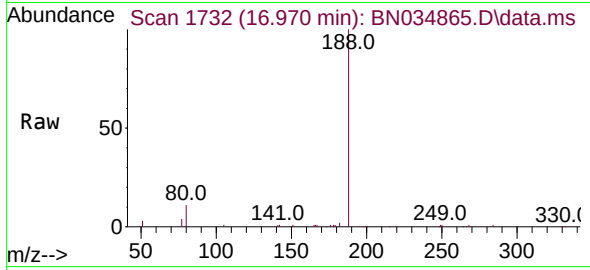




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.970 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN034865.D
Acq: 05 Nov 2024 11:13

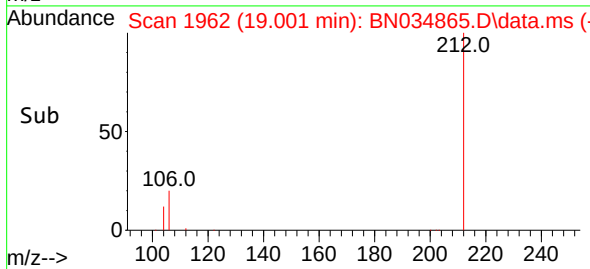
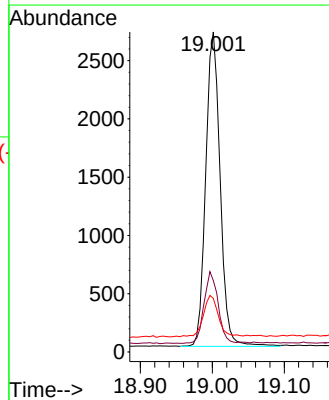
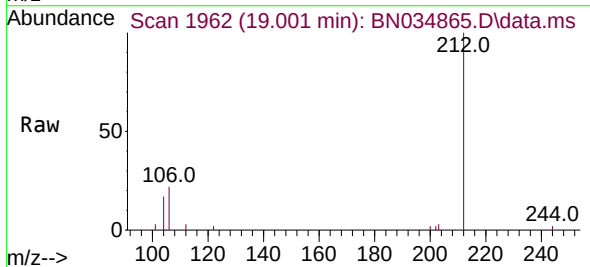
Instrument :
BNA_N
ClientSampleId :
RW5-SP100-90-20241030DL

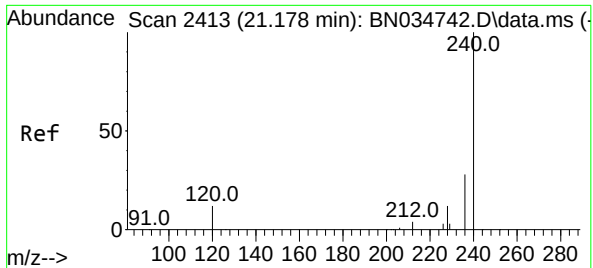
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.5	9.8	14.6



#27
Fluoranthene-d10
Concen: 0.088 ng
RT: 19.001 min Scan# 1962
Delta R.T. 0.000 min
Lab File: BN034865.D
Acq: 05 Nov 2024 11:13

Tgt Ion	Ratio	Lower	Upper
212	100		
106	22.0	16.1	24.1
104	13.8	9.2	13.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.160 min Scan# 2411

Delta R.T. 0.000 min

Lab File: BN034865.D

Acq: 05 Nov 2024 11:13

Instrument :

BNA_N

ClientSampleId :

RW5-SP100-90-20241030DL

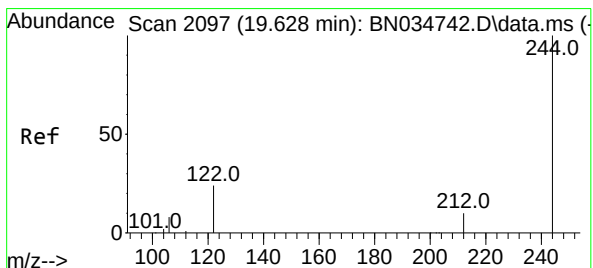
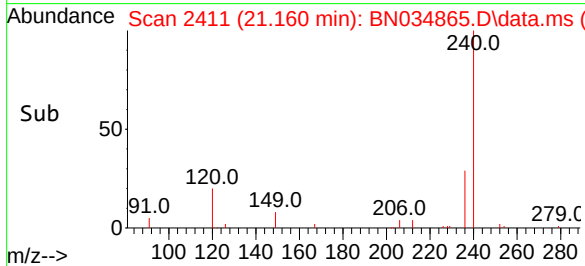
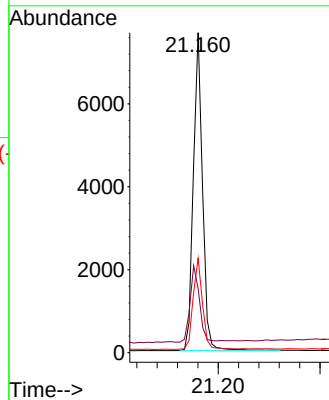
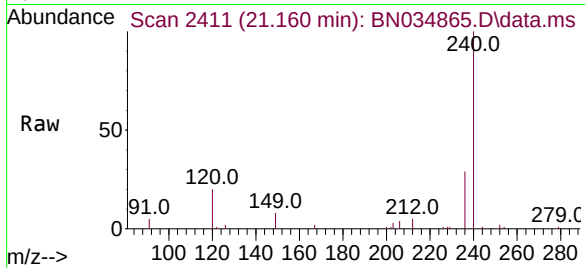
Tgt Ion:240 Resp: 9599

Ion Ratio Lower Upper

240 100

120 20.1 11.5 17.3#

236 29.5 23.2 34.8



#31

Terphenyl-d14

Concen: 0.106 ng

RT: 19.610 min Scan# 2093

Delta R.T. -0.005 min

Lab File: BN034865.D

Acq: 05 Nov 2024 11:13

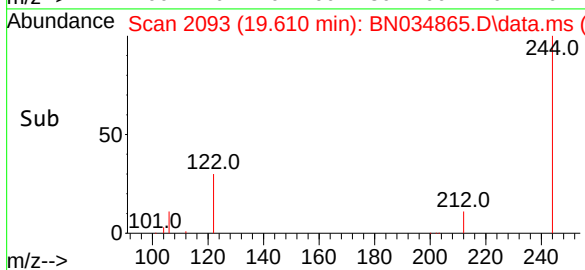
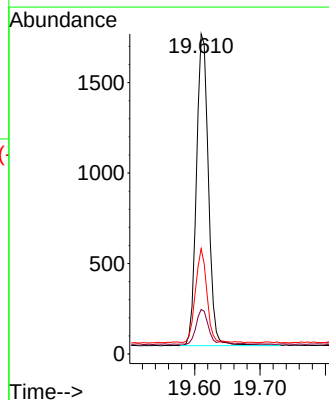
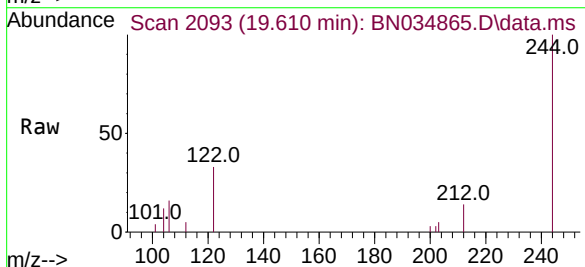
Tgt Ion:244 Resp: 2188

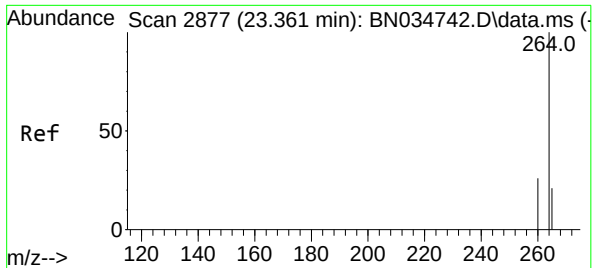
Ion Ratio Lower Upper

244 100

212 13.9 8.2 12.4#

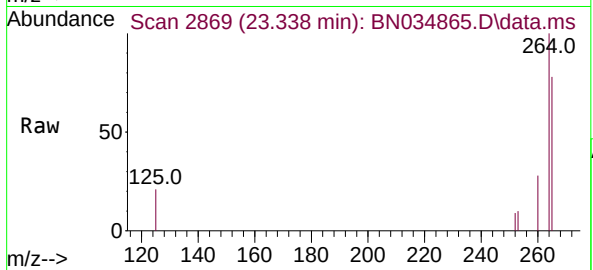
122 32.9 19.8 29.6#



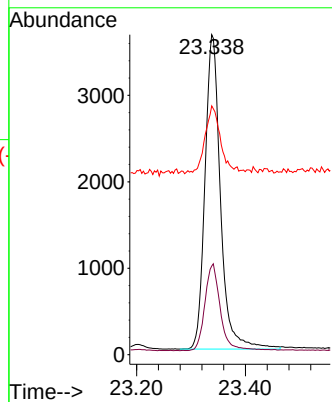
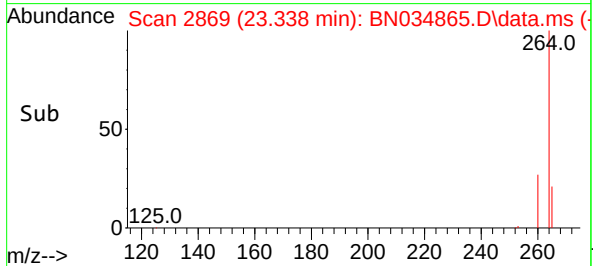


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.338 min Scan# 21
Delta R.T. 0.003 min
Lab File: BN034865.D
Acq: 05 Nov 2024 11:13

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-90-20241030DL



Tgt Ion:264 Resp: 7192
Ion Ratio Lower Upper
264 100
260 27.7 21.5 32.3
265 77.8 47.5 71.3#



Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	10/30/24	
Project:	CTO WE13		Date Received:	10/31/24	
Client Sample ID:	RW5-SP201-90-20241030		SDG No.:	P4652	
Lab Sample ID:	P4652-05		Matrix:	Water	
Analytical Method:	SW8270SIM		% Solid:	0	
Sample Wt/Vol:	960	Units: mL	Final Vol:	1000	uL
Soil Aliquot Vol:		uL	Test:	SVOC-SIMGroup1	
Extraction Type :		Decanted : N	Level :	LOW	
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N	PH :
Prep Method :	SW3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN034843.D	1	11/01/24 09:35	11/04/24 17:19	PB164594

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.21	U	0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.34		30 - 150		86%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.42		30 - 150		104%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.39		55 - 111		97%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		53 - 106		97%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.53	*	58 - 132		133%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	5980	7.589				
1146-65-2	Naphthalene-d8	18200	10.361				
15067-26-2	Acenaphthene-d10	9000	14.222				
1517-22-2	Phenanthrene-d10	17900	16.97				
1719-03-5	Chrysene-d12	9270	21.16				
1520-96-3	Perylene-d12	6570	23.341				

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\BN110424\
Data File : BN034843.D
Acq On : 04 Nov 2024 17:19
Operator : RC/JU
Sample : P4652-05
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW5-SP201-90-20241030

Quant Time: Nov 04 17:48:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 30 13:28:24 2024
Response via : Initial Calibration

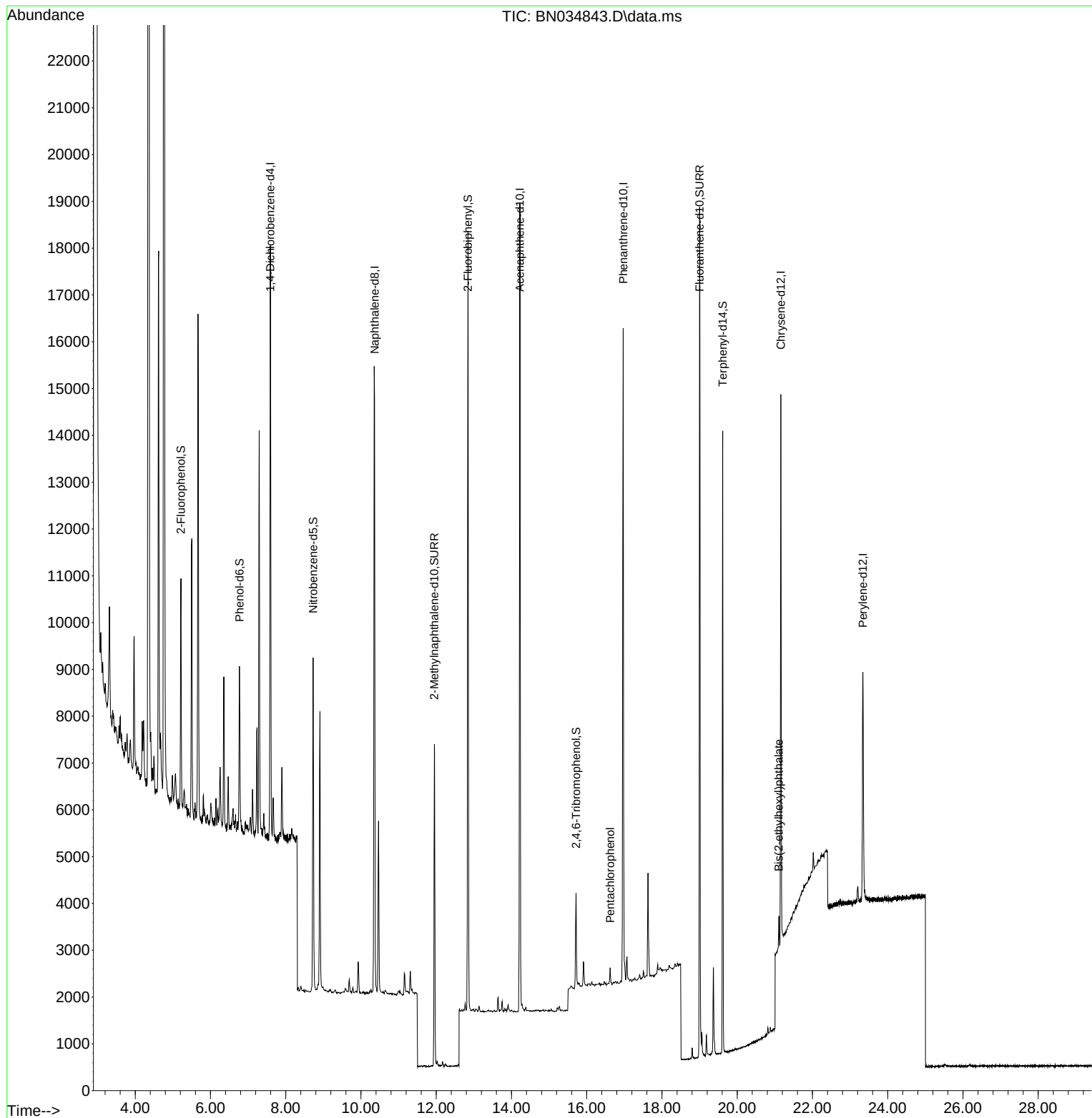
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.589	152	5976	0.400	ng	-0.01
7) Naphthalene-d8	10.361	136	18176	0.400	ng	#-0.01
13) Acenaphthene-d10	14.222	164	9002	0.400	ng	-0.01
19) Phenanthrene-d10	16.970	188	17850	0.400	ng	-0.01
29) Chrysene-d12	21.160	240	9270	0.400	ng	#-0.02
35) Perylene-d12	23.341	264	6568	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.213	112	3676	0.203	ng	0.00
5) Phenol-d6	6.773	99	3254	0.138	ng	0.00
8) Nitrobenzene-d5	8.728	82	5515	0.386	ng	-0.01
11) 2-Methylnaphthalene-d10	11.950	152	9025	0.343	ng	-0.02
14) 2,4,6-Tribromophenol	15.716	330	1088	0.245	ng	-0.01
15) 2-Fluorobiphenyl	12.843	172	13826	0.390	ng	-0.02
27) Fluoranthene-d10	19.001	212	17393	0.415	ng	-0.01
31) Terphenyl-d14	19.614	244	10622	0.534	ng	-0.01
Target Compounds						Qvalue
24) Pentachlorophenol	16.622	266	152	0.031	ng	95
34) Bis(2-ethylhexyl)phtha...	21.107	149	732	0.024	ng	# 92

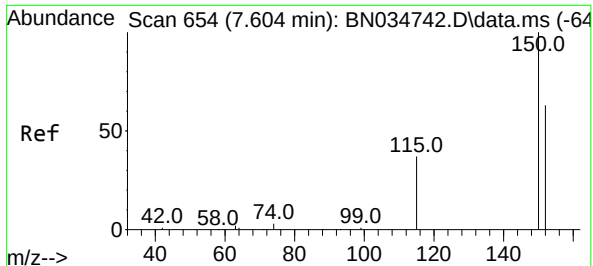
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110424\
Data File : BN034843.D
Acq On : 04 Nov 2024 17:19
Operator : RC/JU
Sample : P4652-05
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW5-SP201-90-20241030

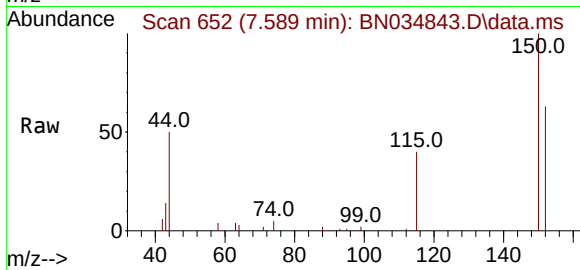
Quant Time: Nov 04 17:48:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 30 13:28:24 2024
Response via : Initial Calibration



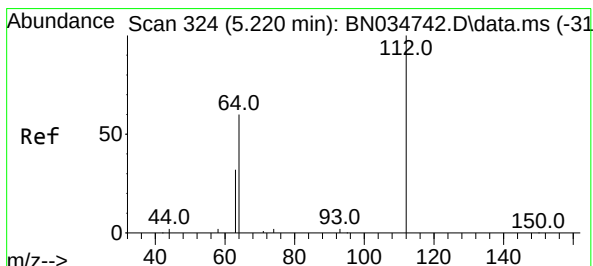
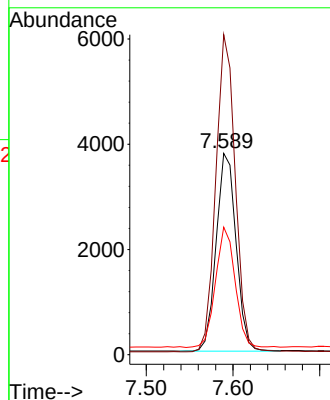
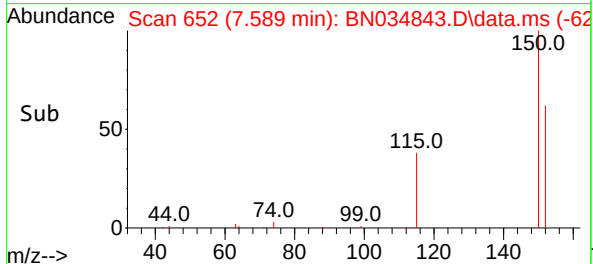


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.589 min Scan# 61
Delta R.T. -0.015 min
Lab File: BN034843.D
Acq: 04 Nov 2024 17:19

Instrument :
BNA_N
ClientSampleId :
RW5-SP201-90-20241030

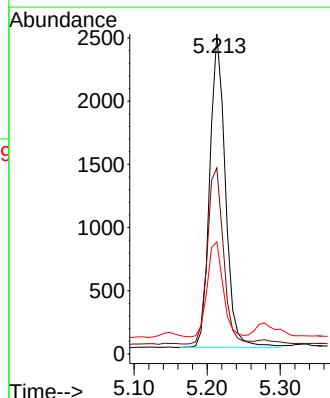
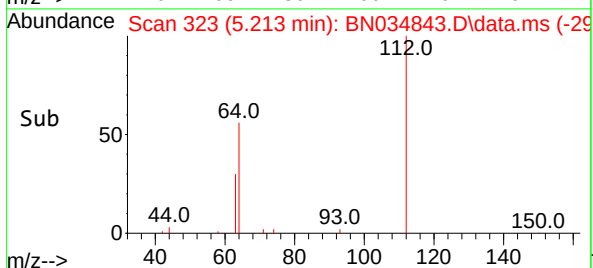
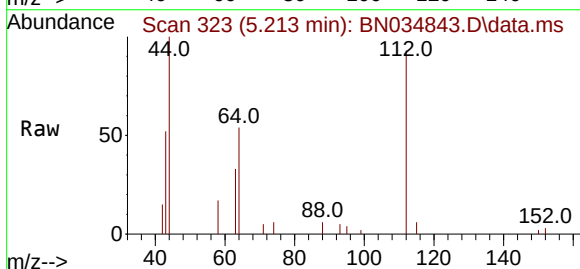


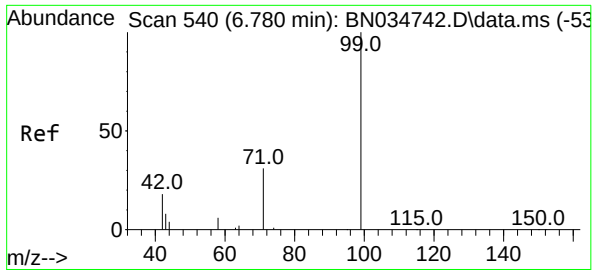
Tgt Ion:152 Resp: 5976
Ion Ratio Lower Upper
152 100
150 158.9 124.9 187.3
115 63.4 50.2 75.2



#4
2-Fluorophenol
Concen: 0.203 ng
RT: 5.213 min Scan# 323
Delta R.T. -0.007 min
Lab File: BN034843.D
Acq: 04 Nov 2024 17:19

Tgt Ion:112 Resp: 3676
Ion Ratio Lower Upper
112 100
64 57.8 44.9 67.3
63 31.0 23.5 35.3

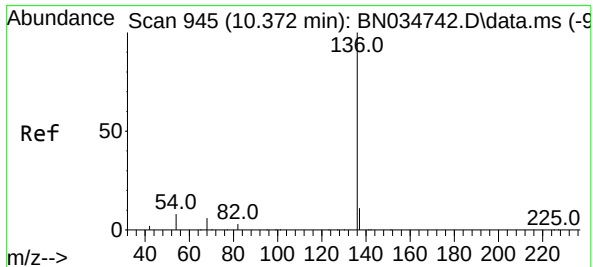
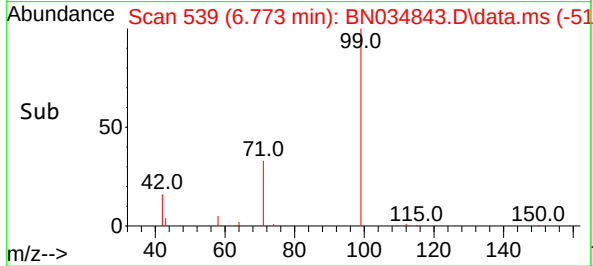
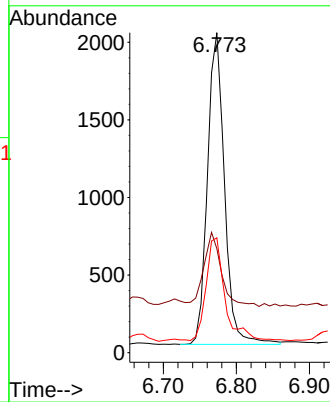
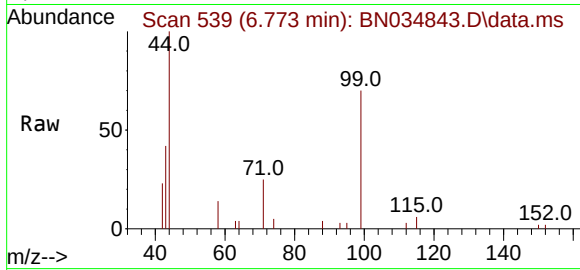




#5
Phenol-d6
Concen: 0.138 ng
RT: 6.773 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN034843.D
Acq: 04 Nov 2024 17:19

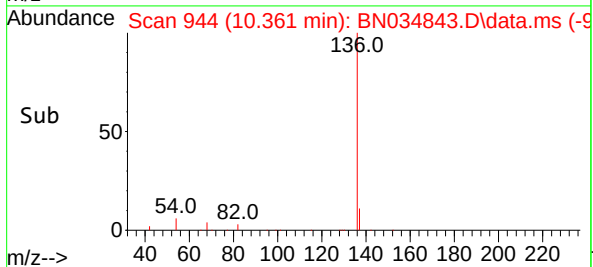
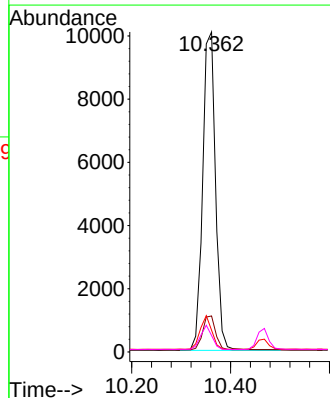
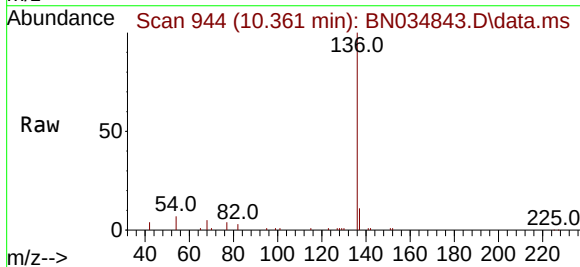
Instrument :
BNA_N
ClientSampleId :
RW5-SP201-90-20241030

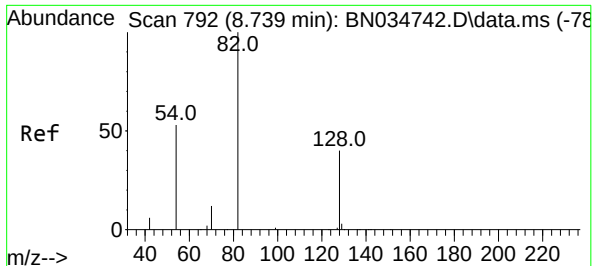
Tgt Ion	Ratio	Lower	Upper
99	100		
42	24.5	15.9	23.9#
71	36.4	24.3	36.5



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.361 min Scan# 944
Delta R.T. -0.011 min
Lab File: BN034843.D
Acq: 04 Nov 2024 17:19

Tgt Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.2	13.8
54	6.8	7.0	10.4#
68	5.1	5.6	8.4#

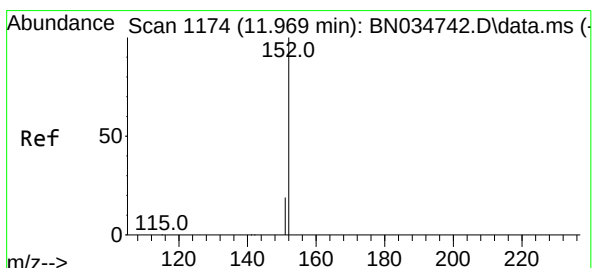
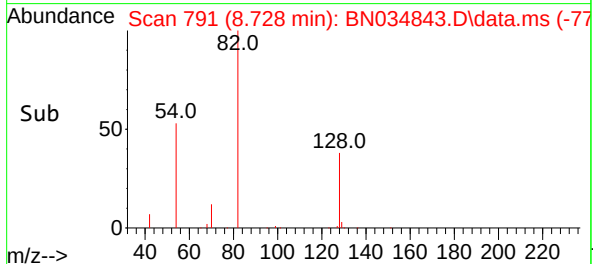
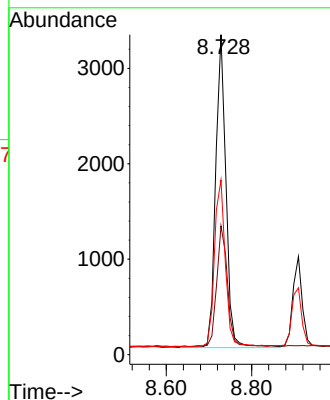
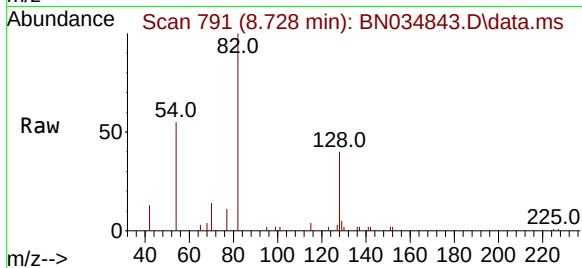




#8
Nitrobenzene-d5
Concen: 0.386 ng
RT: 8.728 min Scan# 791
Delta R.T. -0.011 min
Lab File: BN034843.D
Acq: 04 Nov 2024 17:19

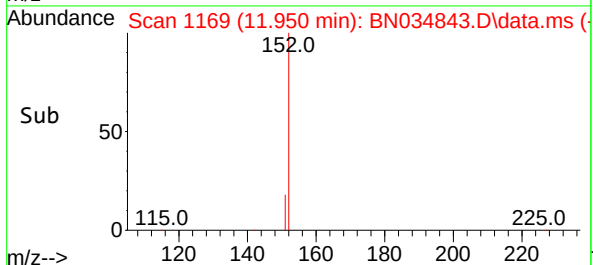
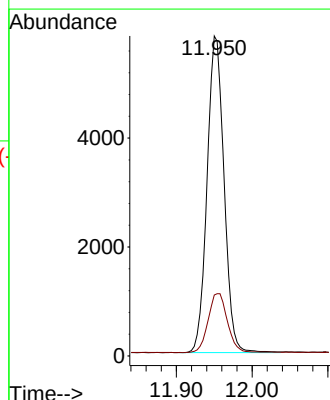
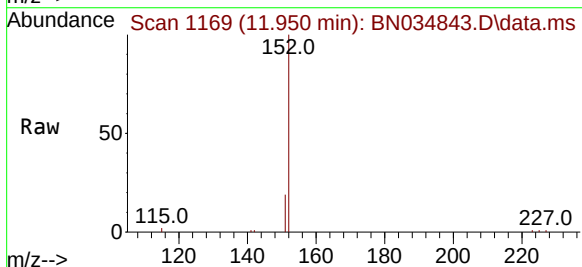
Instrument :
BNA_N
ClientSampleId :
RW5-SP201-90-20241030

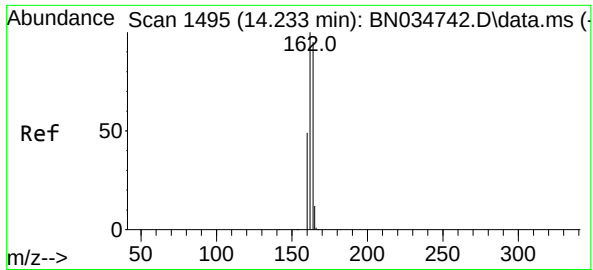
Tgt Ion:	82	Resp:	5515
Ion Ratio	Lower	Upper	
82	100		
128	40.2	33.7	50.5
54	54.6	44.4	66.6



#11
2-Methylnaphthalene-d10
Concen: 0.343 ng
RT: 11.950 min Scan# 1169
Delta R.T. -0.019 min
Lab File: BN034843.D
Acq: 04 Nov 2024 17:19

Tgt Ion:	152	Resp:	9025
Ion Ratio	Lower	Upper	
152	100		
151	21.2	16.6	24.8

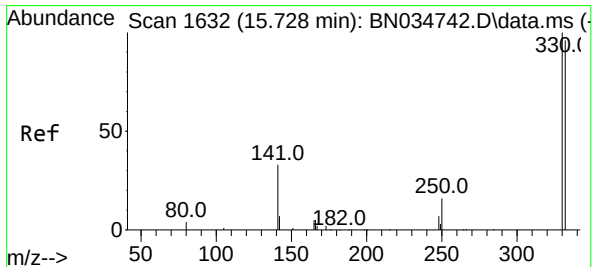
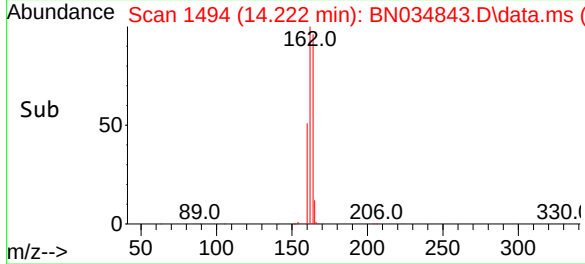
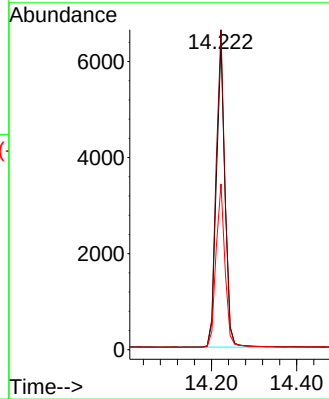
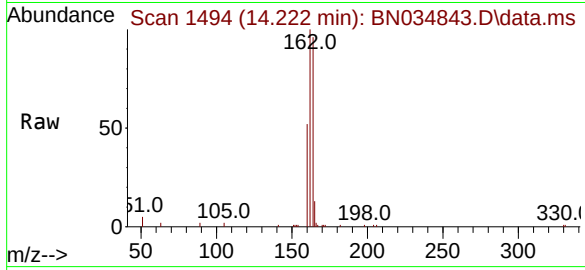




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.222 min Scan# 1494
Delta R.T. -0.011 min
Lab File: BN034843.D
Acq: 04 Nov 2024 17:19

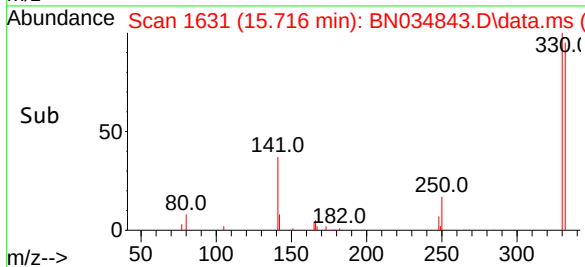
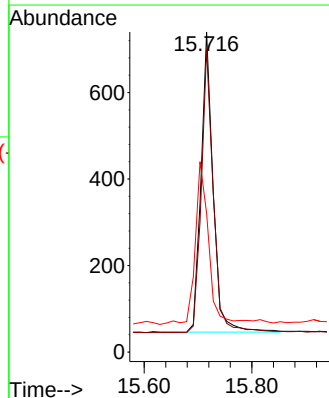
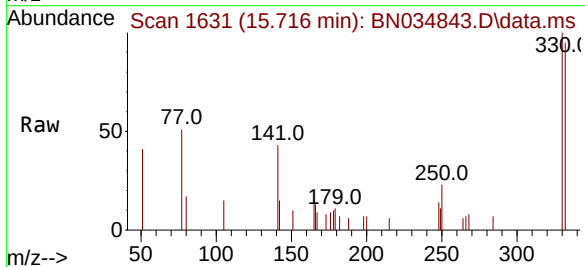
Instrument :
BNA_N
ClientSampleId :
RW5-SP201-90-20241030

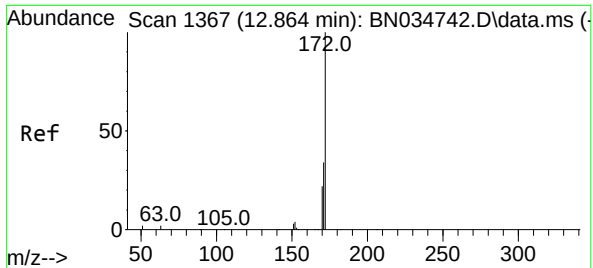
Tgt Ion:	164	Resp:	9002
Ion Ratio	Lower	Upper	
164	100		
162	104.3	84.3	126.5
160	54.0	41.7	62.5



#14
2,4,6-Tribromophenol
Concen: 0.245 ng
RT: 15.716 min Scan# 1631
Delta R.T. -0.012 min
Lab File: BN034843.D
Acq: 04 Nov 2024 17:19

Tgt Ion:	330	Resp:	1088
Ion Ratio	Lower	Upper	
330	100		
332	94.4	77.8	116.6
141	59.3	41.0	61.4

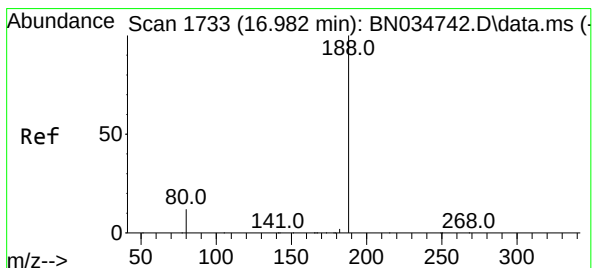
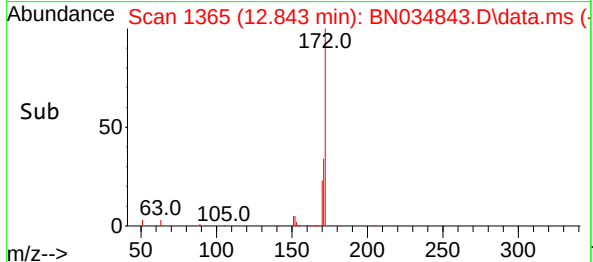
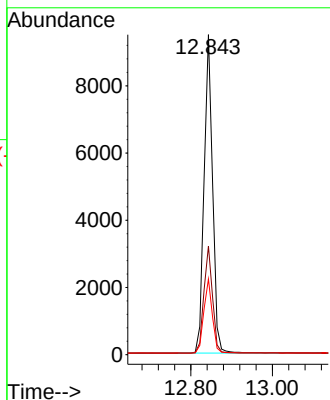
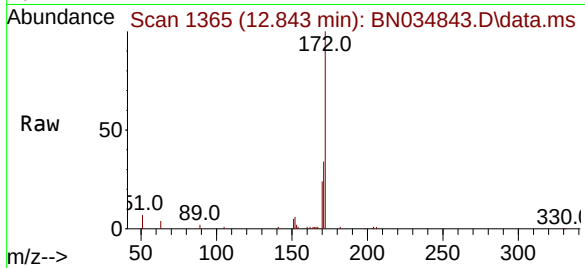




#15
2-Fluorobiphenyl
Concen: 0.390 ng
RT: 12.843 min Scan# 11
Delta R.T. -0.021 min
Lab File: BN034843.D
Acq: 04 Nov 2024 17:19

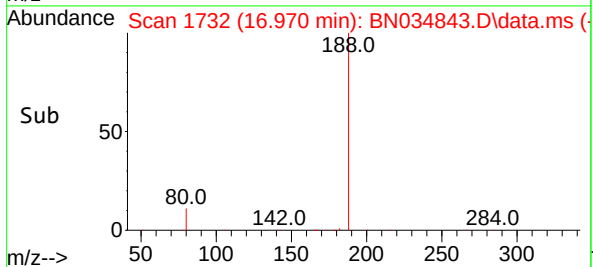
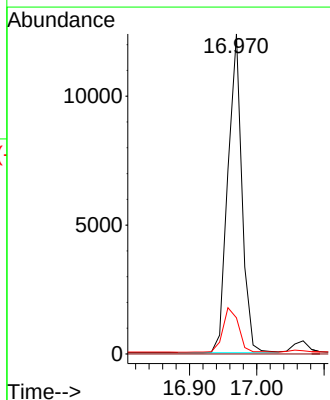
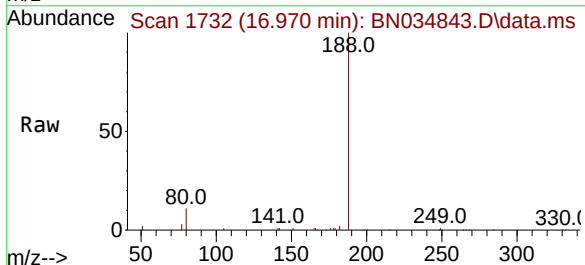
Instrument :
BNA_N
ClientSampleId :
RW5-SP201-90-20241030

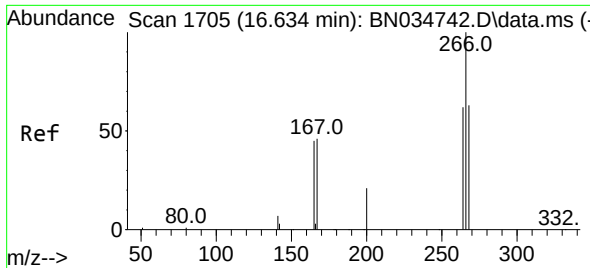
Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.0	27.2	40.8
170	23.7	18.0	27.0



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.970 min Scan# 1732
Delta R.T. -0.012 min
Lab File: BN034843.D
Acq: 04 Nov 2024 17:19

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.3	9.8	14.6

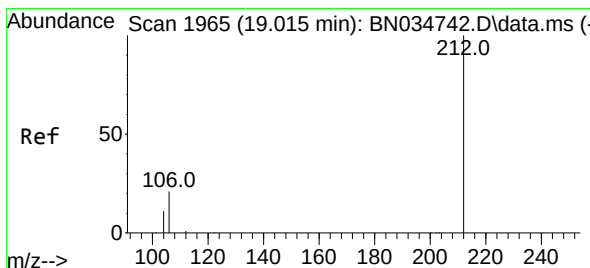
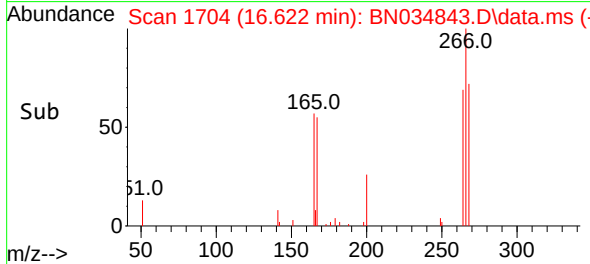
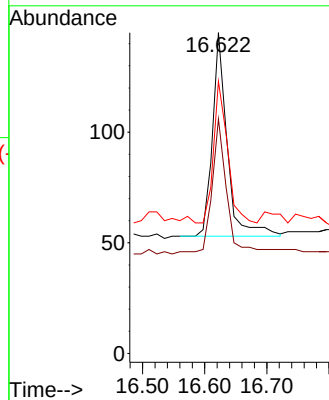
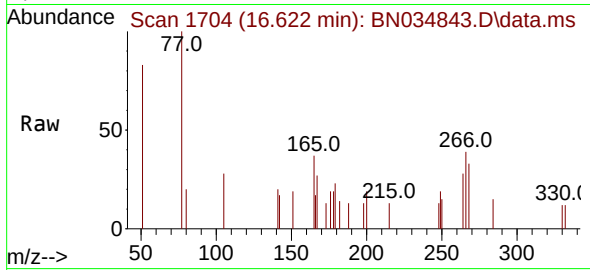




#24
Pentachlorophenol
Concen: 0.031 ng
RT: 16.622 min Scan# 1704
Delta R.T. -0.012 min
Lab File: BN034843.D
Acq: 04 Nov 2024 17:19

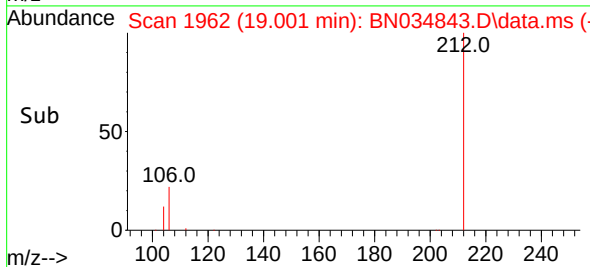
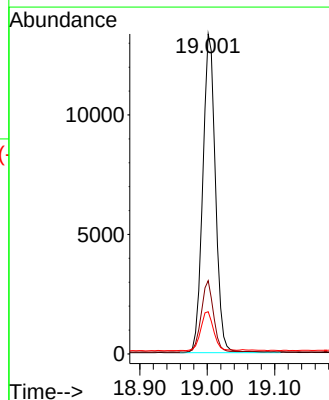
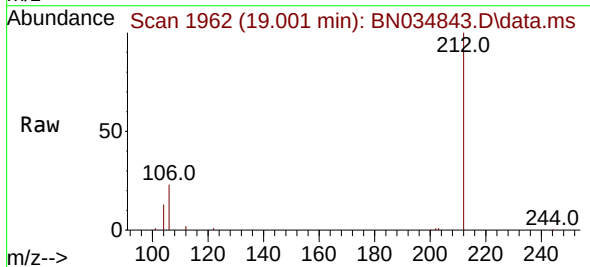
Instrument :
BNA_N
ClientSampleId :
RW5-SP201-90-20241030

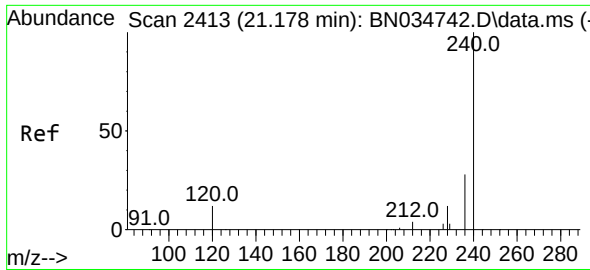
Tgt Ion:266 Resp: 152
Ion Ratio Lower Upper
266 100
264 66.4 48.7 73.1
268 65.1 50.2 75.4



#27
Fluoranthene-d10
Concen: 0.415 ng
RT: 19.001 min Scan# 1962
Delta R.T. -0.014 min
Lab File: BN034843.D
Acq: 04 Nov 2024 17:19

Tgt Ion:212 Resp: 17393
Ion Ratio Lower Upper
212 100
106 21.6 16.1 24.1
104 12.4 9.2 13.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.160 min Scan# 2413

Delta R.T. -0.018 min

Lab File: BN034843.D

Acq: 04 Nov 2024 17:19

Instrument :

BNA_N

ClientSampleId :

RW5-SP201-90-20241030

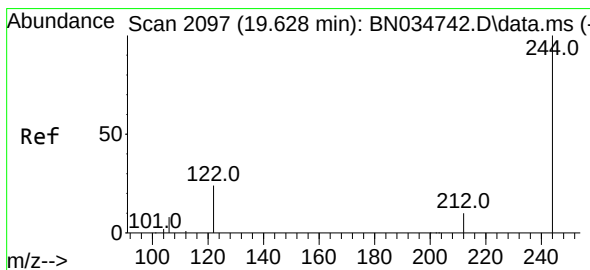
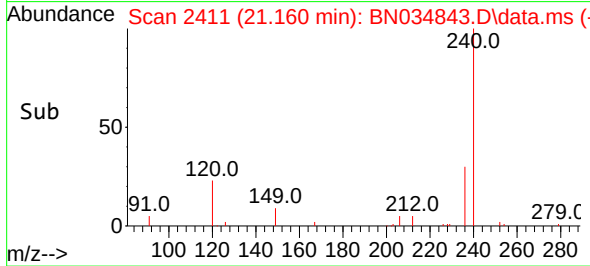
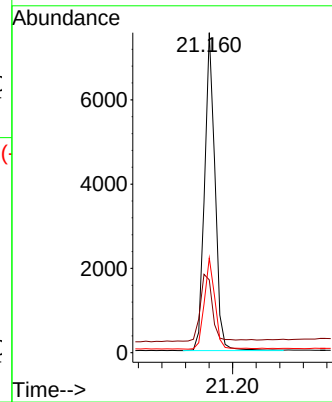
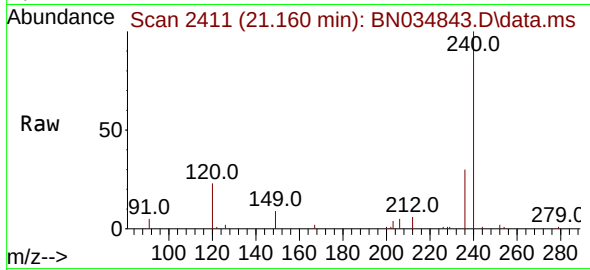
Tgt Ion:240 Resp: 9270

Ion Ratio Lower Upper

240 100

120 22.8 11.5 17.3#

236 29.6 23.2 34.8



#31

Terphenyl-d14

Concen: 0.534 ng

RT: 19.614 min Scan# 2094

Delta R.T. -0.014 min

Lab File: BN034843.D

Acq: 04 Nov 2024 17:19

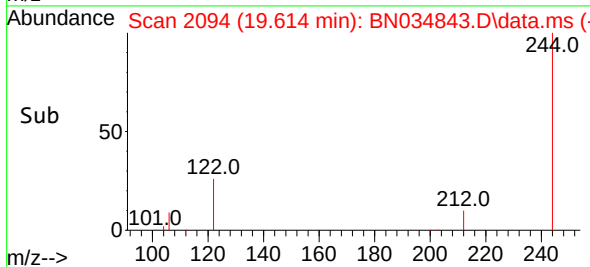
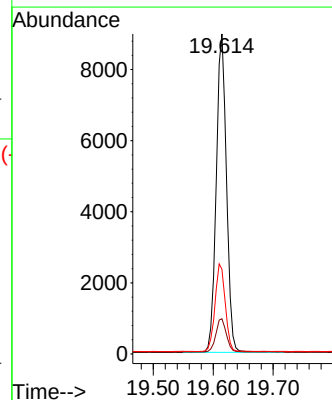
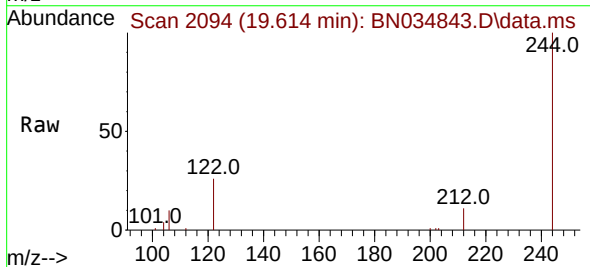
Tgt Ion:244 Resp: 10622

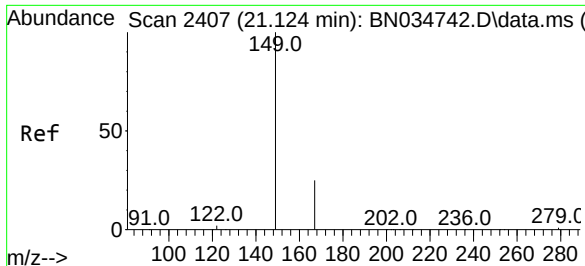
Ion Ratio Lower Upper

244 100

212 11.0 8.2 12.4

122 26.4 19.8 29.6

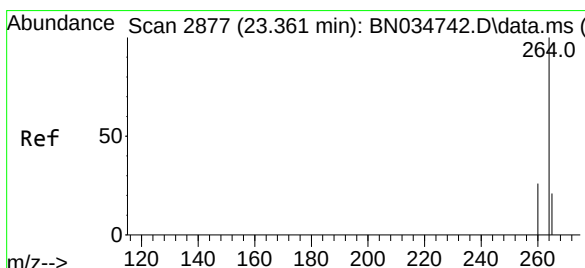
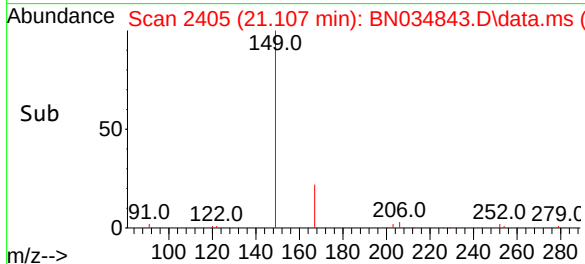
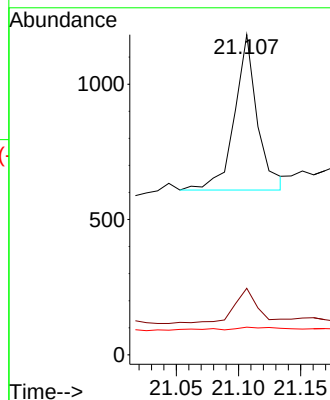
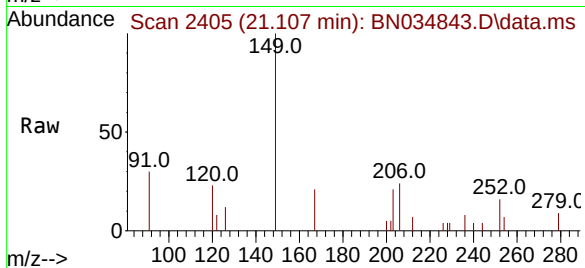




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.024 ng
RT: 21.107 min Scan# 2405
Delta R.T. -0.018 min
Lab File: BN034843.D
Acq: 04 Nov 2024 17:19

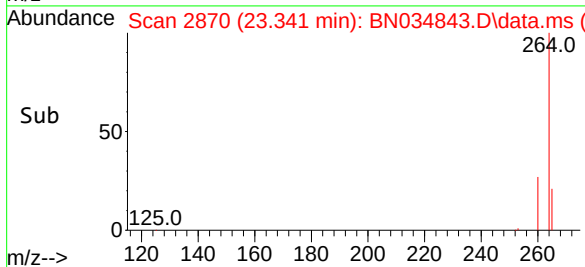
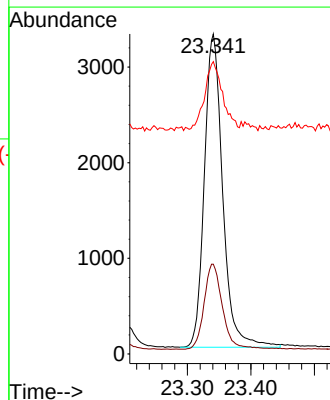
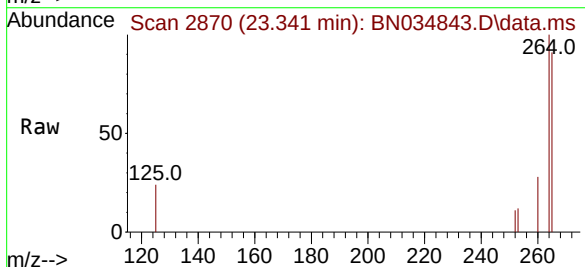
Instrument :
BNA_N
ClientSampleId :
RW5-SP201-90-20241030

Tgt Ion:149 Resp: 732
Ion Ratio Lower Upper
149 100
167 21.4 20.6 30.8
279 2.3 1.5 2.3#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.341 min Scan# 2870
Delta R.T. -0.020 min
Lab File: BN034843.D
Acq: 04 Nov 2024 17:19

Tgt Ion:264 Resp: 6568
Ion Ratio Lower Upper
264 100
260 28.1 21.5 32.3
265 91.4 47.5 71.3#



Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	10/30/24	
Project:	CTO WE13		Date Received:	10/31/24	
Client Sample ID:	RW5-SP301-303-90-20241030		SDG No.:	P4652	
Lab Sample ID:	P4652-06		Matrix:	Water	
Analytical Method:	SW8270SIM		% Solid:	0	
Sample Wt/Vol:	950	Units: mL	Final Vol:	1000	uL
Soil Aliquot Vol:		uL	Test:	SVOC-SIMGroup1	
Extraction Type :		Decanted : N	Level :	LOW	
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N	PH :
Prep Method :	SW3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN034844.D	1	11/01/24 09:35	11/04/24 17:54	PB164594

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.080	J	0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.31		30 - 150		76%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.38		30 - 150		94%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.34		55 - 111		84%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		53 - 106		87%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.49		58 - 132		122%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6790	7.589				
1146-65-2	Naphthalene-d8	20500	10.351				
15067-26-2	Acenaphthene-d10	10000	14.218				
1517-22-2	Phenanthrene-d10	19700	16.964				
1719-03-5	Chrysene-d12	10400	21.158				
1520-96-3	Perylene-d12	7680	23.342				

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\BN110424\
Data File : BN034844.D
Acq On : 04 Nov 2024 17:54
Operator : RC/JU
Sample : P4652-06
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW5-SP301-303-90-20241030

Quant Time: Nov 04 23:44:16 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 30 13:28:24 2024
Response via : Initial Calibration

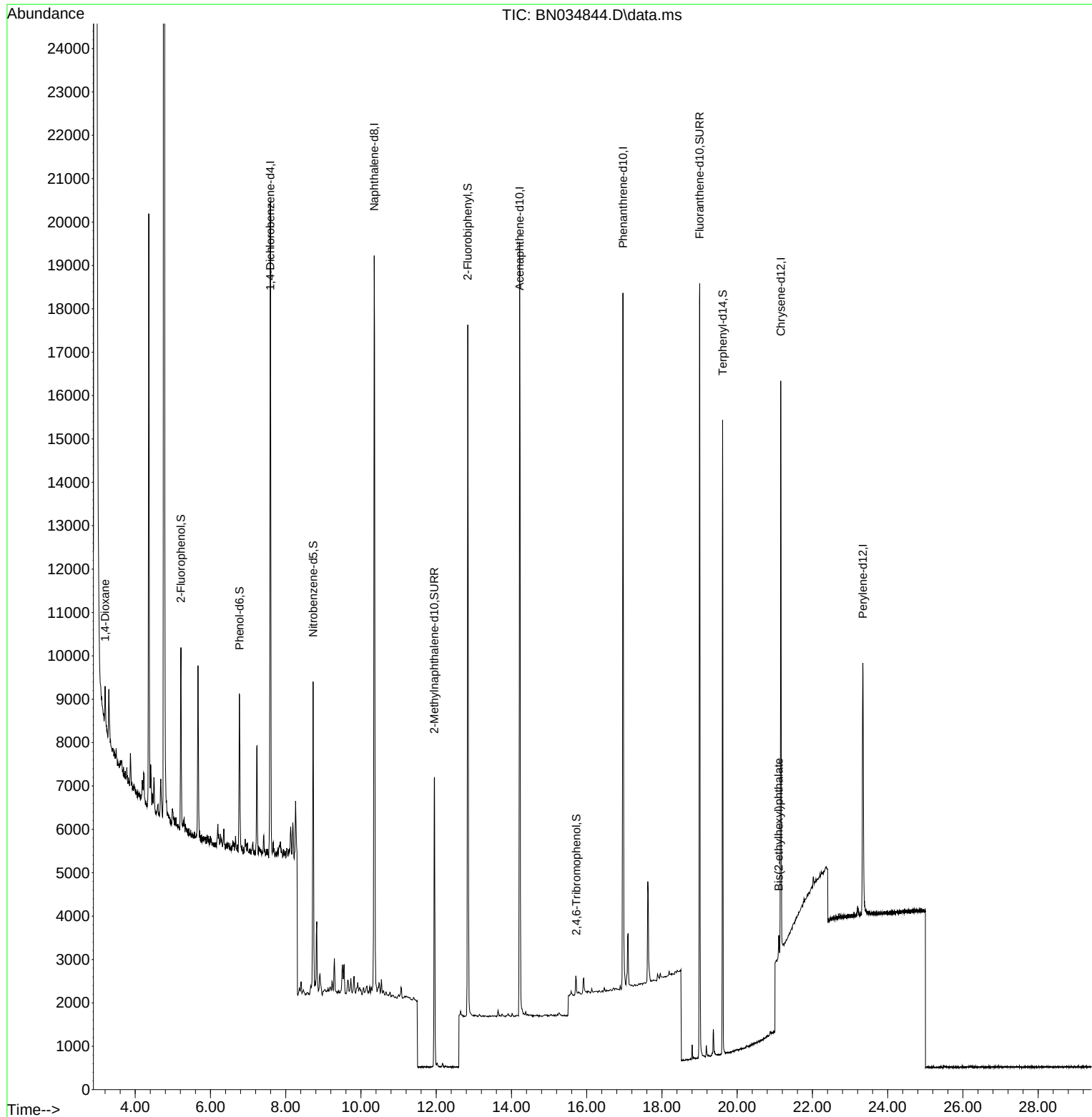
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.589	152	6786	0.400	ng	-0.01
7) Naphthalene-d8	10.351	136	20468	0.400	ng	#-0.02
13) Acenaphthene-d10	14.218	164	10029	0.400	ng	-0.01
19) Phenanthrene-d10	16.964	188	19743	0.400	ng	#-0.02
29) Chrysene-d12	21.158	240	10387	0.400	ng	#-0.02
35) Perylene-d12	23.342	264	7678	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.213	112	3226	0.157	ng	0.00
5) Phenol-d6	6.773	99	3396	0.127	ng	0.00
8) Nitrobenzene-d5	8.728	82	5400	0.336	ng	-0.01
11) 2-Methylnaphthalene-d10	11.950	152	9022	0.305	ng	-0.02
14) 2,4,6-Tribromophenol	15.723	330	255	0.051	ng	0.00
15) 2-Fluorobiphenyl	12.839	172	13715	0.347	ng	-0.03
27) Fluoranthene-d10	19.004	212	17411	0.376	ng	-0.01
31) Terphenyl-d14	19.612	244	10910	0.489	ng	-0.02
Target Compounds						
2) 1,4-Dioxane	3.198	88	560	0.075	ng	# 21
34) Bis(2-ethylhexyl)phtha...	21.104	149	701	0.020	ng	# 80

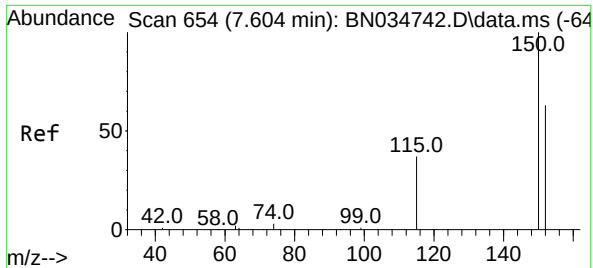
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110424\
Data File : BN034844.D
Acq On : 04 Nov 2024 17:54
Operator : RC/JU
Sample : P4652-06
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW5-SP301-303-90-20241030

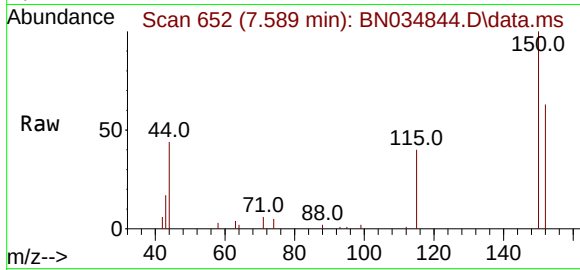
Quant Time: Nov 04 23:44:16 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 30 13:28:24 2024
Response via : Initial Calibration



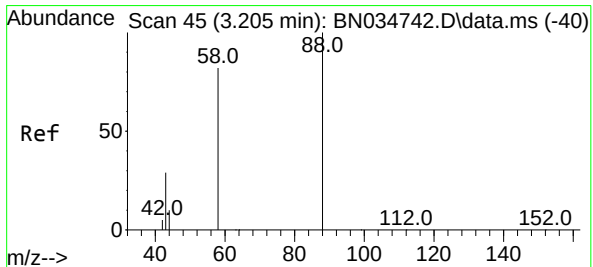
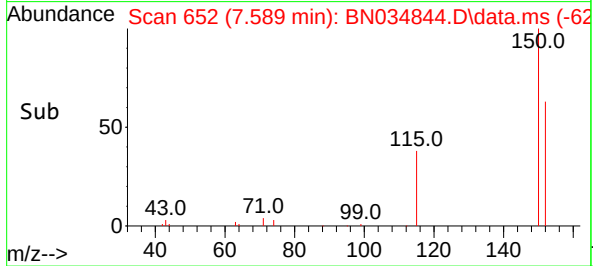
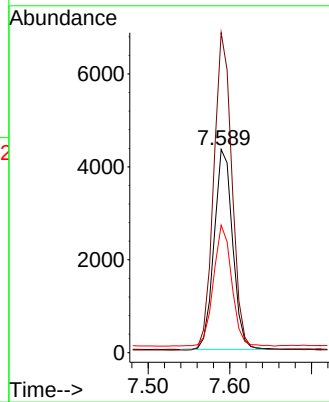


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.589 min Scan# 61
Delta R.T. -0.015 min
Lab File: BN034844.D
Acq: 04 Nov 2024 17:54

Instrument :
BNA_N
ClientSampleId :
RW5-SP301-303-90-20241030

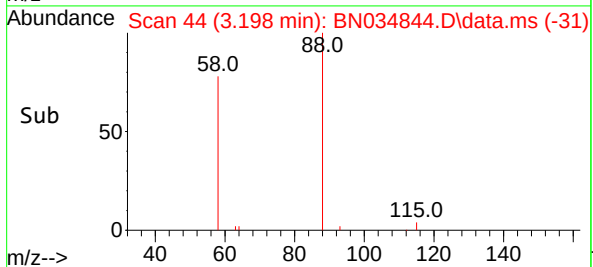
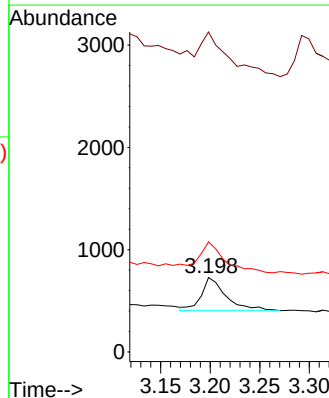
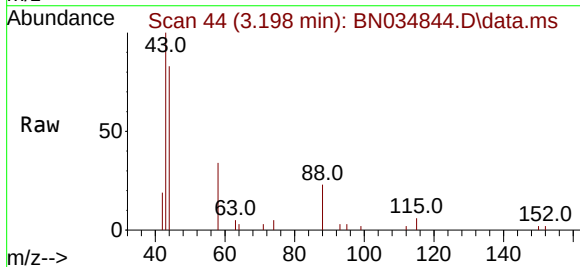


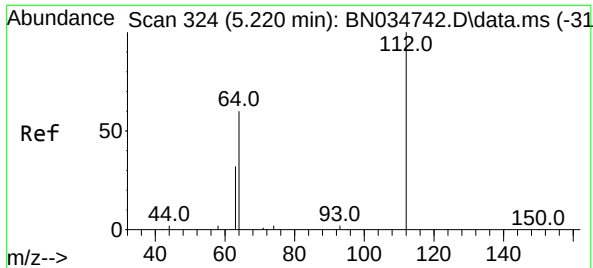
Tgt Ion: 152 Resp: 6786
Ion Ratio Lower Upper
152 100
150 157.5 124.9 187.3
115 62.8 50.2 75.2



#2
1,4-Dioxane
Concen: 0.075 ng
RT: 3.198 min Scan# 44
Delta R.T. -0.007 min
Lab File: BN034844.D
Acq: 04 Nov 2024 17:54

Tgt Ion: 88 Resp: 560
Ion Ratio Lower Upper
88 100
43 149.8 26.7 40.1#
58 92.7 59.3 88.9#

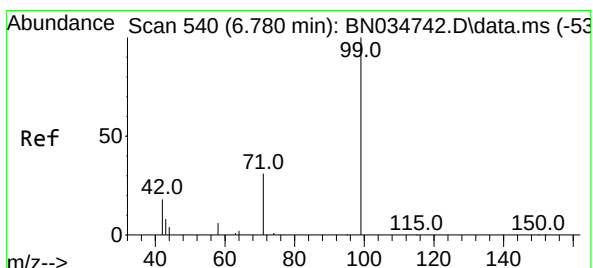
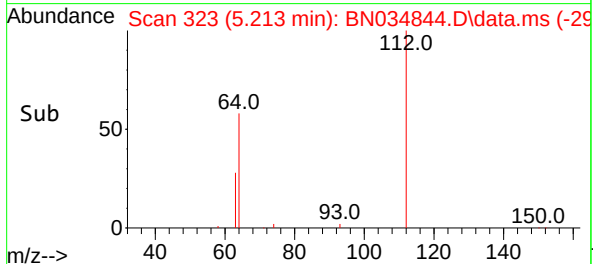
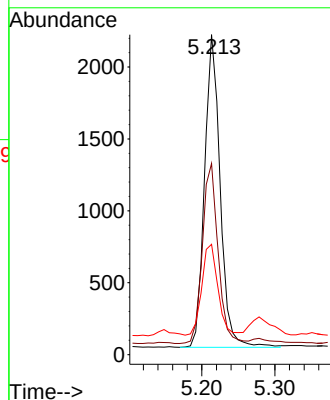
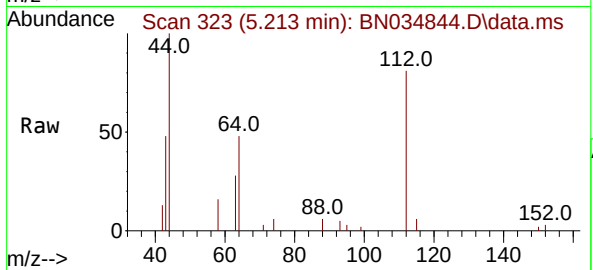




#4
2-Fluorophenol
Concen: 0.157 ng
RT: 5.213 min Scan# 31
Delta R.T. -0.007 min
Lab File: BN034844.D
Acq: 04 Nov 2024 17:54

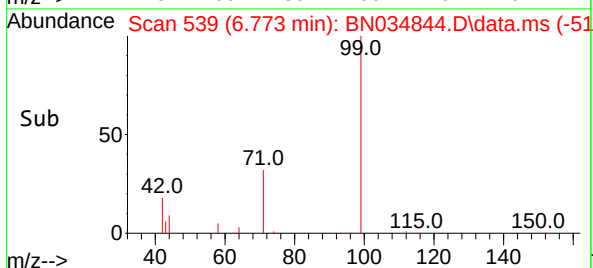
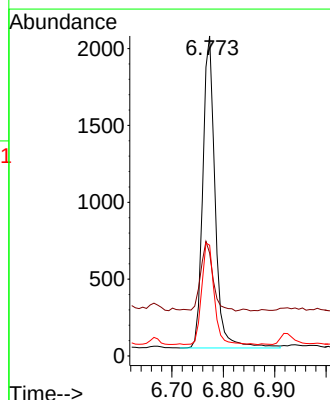
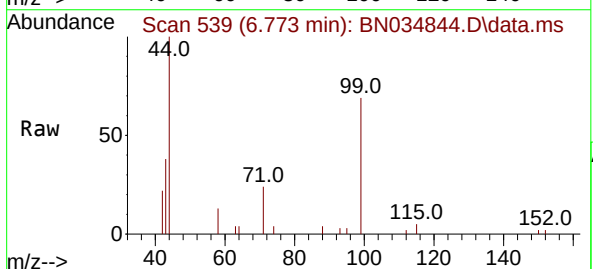
Instrument :
BNA_N
ClientSampleId :
RW5-SP301-303-90-20241030

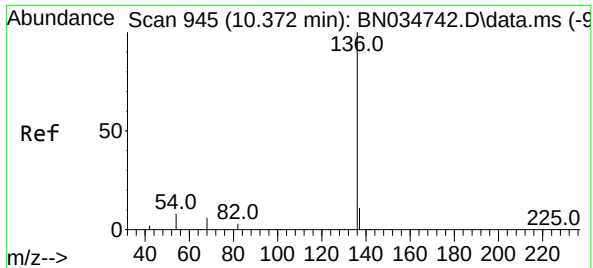
Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.8	44.9	67.3
63	30.1	23.5	35.3



#5
Phenol-d6
Concen: 0.127 ng
RT: 6.773 min Scan# 539
Delta R.T. -0.007 min
Lab File: BN034844.D
Acq: 04 Nov 2024 17:54

Tgt Ion	Ratio	Lower	Upper
99	100		
42	21.7	15.9	23.9
71	33.0	24.3	36.5

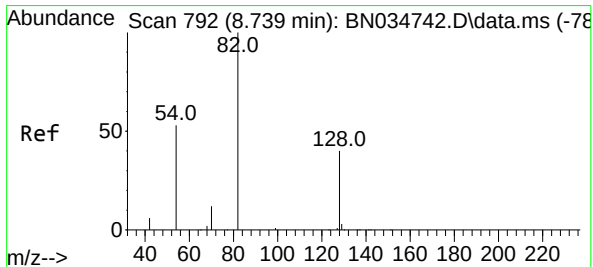
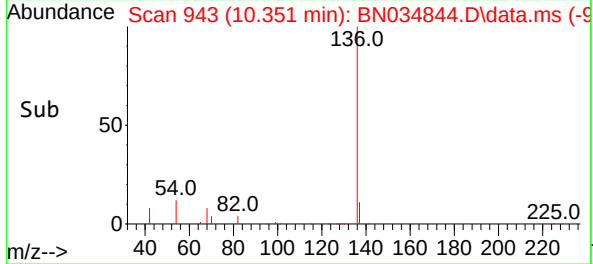
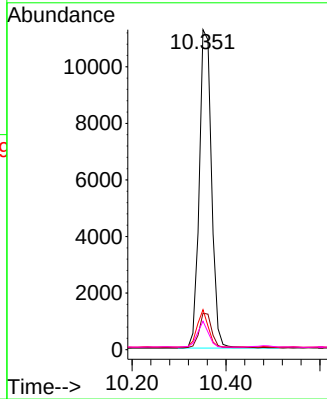
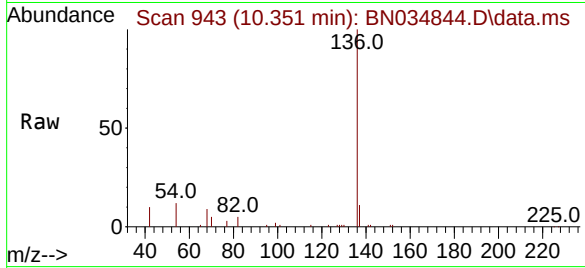




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 945
Delta R.T. -0.021 min
Lab File: BN034844.D
Acq: 04 Nov 2024 17:54

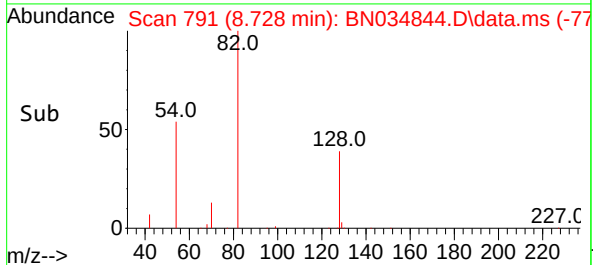
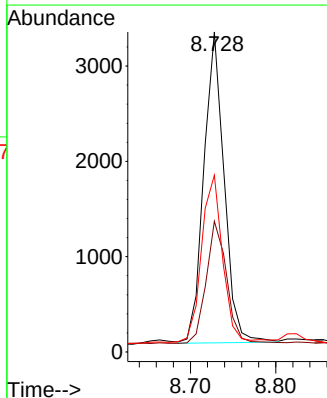
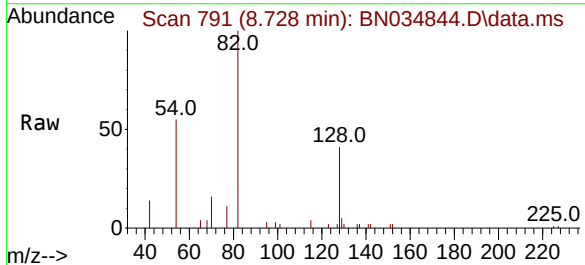
Instrument :
BNA_N
ClientSampleId :
RW5-SP301-303-90-20241030

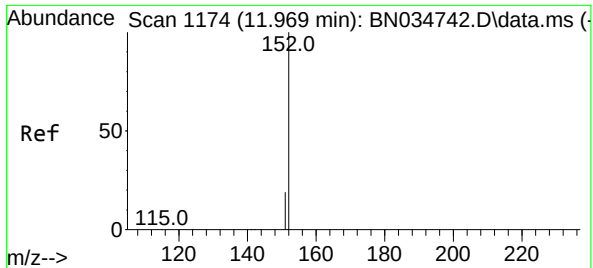
Tgt Ion:	136	Resp:	20468
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.2	13.8
54	12.5	7.0	10.4#
68	8.9	5.6	8.4#



#8
Nitrobenzene-d5
Concen: 0.336 ng
RT: 8.728 min Scan# 791
Delta R.T. -0.011 min
Lab File: BN034844.D
Acq: 04 Nov 2024 17:54

Tgt Ion:	82	Resp:	5400
Ion	Ratio	Lower	Upper
82	100		
128	40.9	33.7	50.5
54	55.3	44.4	66.6

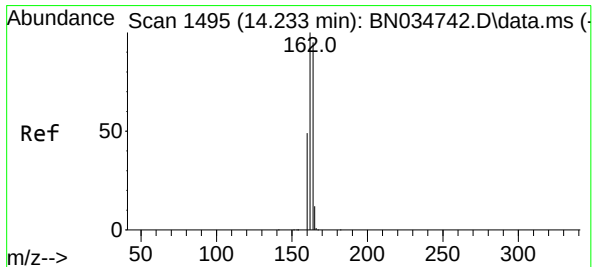
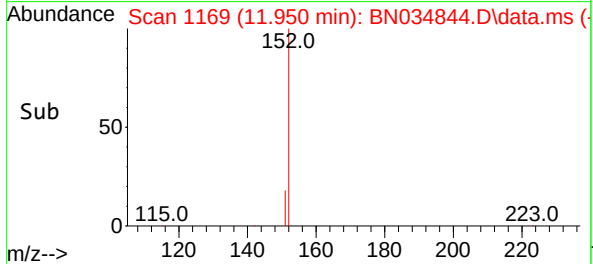
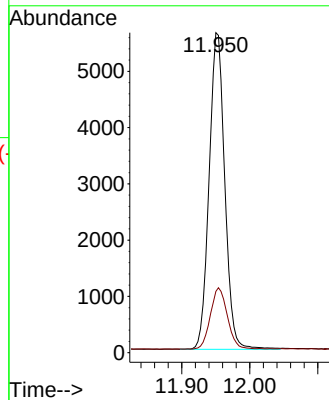
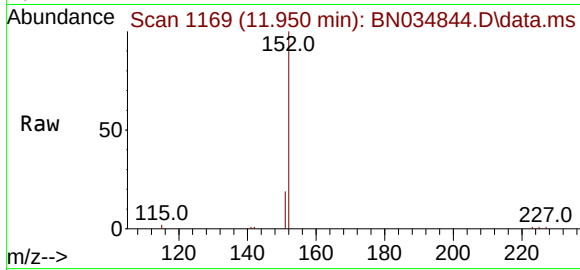




#11
2-Methylnaphthalene-d10
Concen: 0.305 ng
RT: 11.950 min Scan# 1174
Delta R.T. -0.019 min
Lab File: BN034844.D
Acq: 04 Nov 2024 17:54

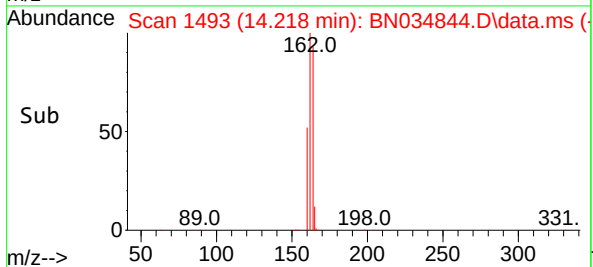
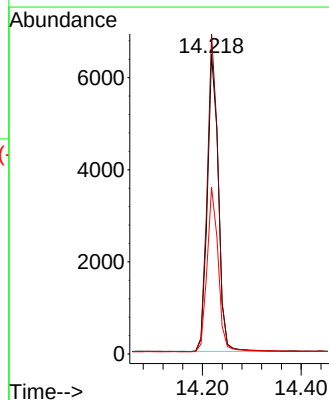
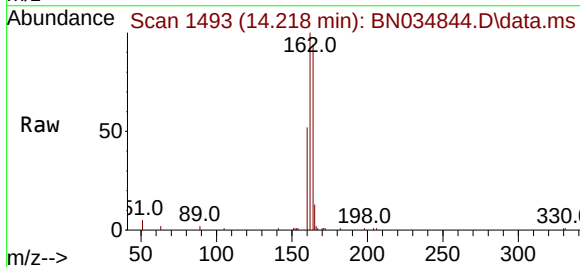
Instrument :
BNA_N
ClientSampleId :
RW5-SP301-303-90-20241030

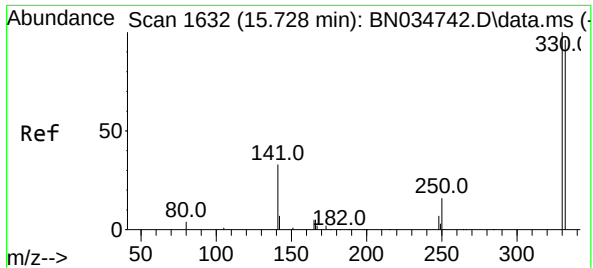
Tgt Ion:152 Resp: 9022
Ion Ratio Lower Upper
152 100
151 21.1 16.6 24.8



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.218 min Scan# 1493
Delta R.T. -0.014 min
Lab File: BN034844.D
Acq: 04 Nov 2024 17:54

Tgt Ion:164 Resp: 10029
Ion Ratio Lower Upper
164 100
162 106.8 84.3 126.5
160 55.6 41.7 62.5

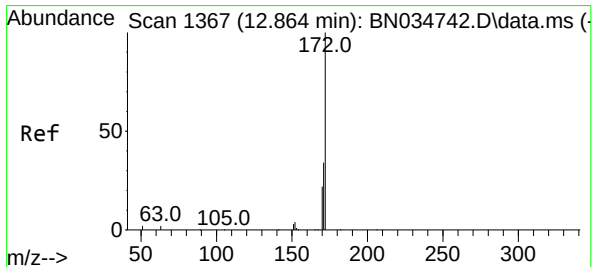
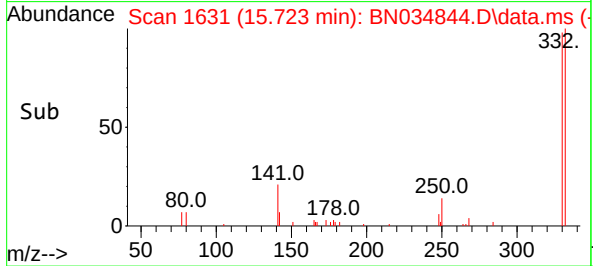
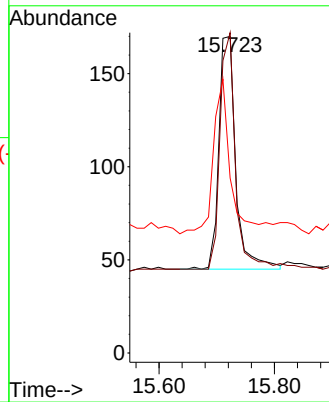
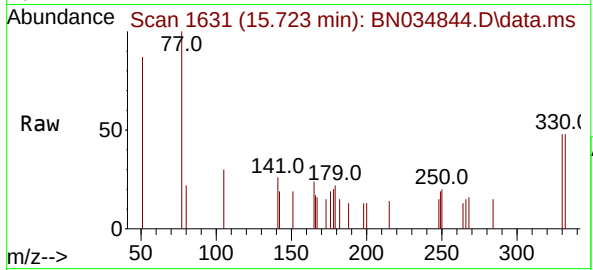




#14
2,4,6-Tribromophenol
Concen: 0.051 ng
RT: 15.723 min Scan# 1631
Delta R.T. -0.005 min
Lab File: BN034844.D
Acq: 04 Nov 2024 17:54

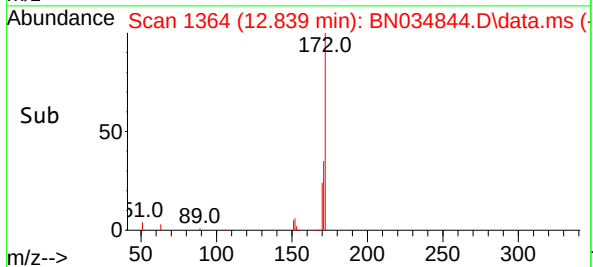
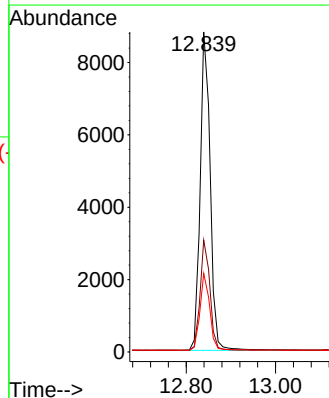
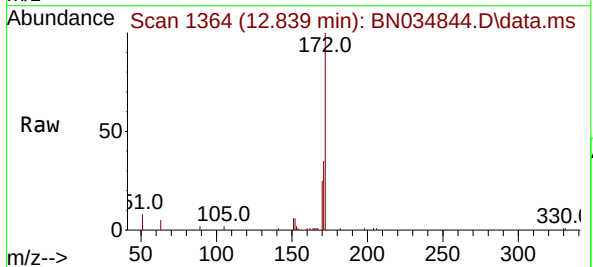
Instrument :
BNA_N
ClientSampleId :
RW5-SP301-303-90-20241030

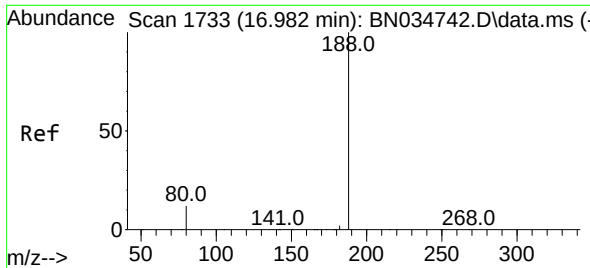
Tgt Ion	330	332	141
Resp:	255		
Ratio	100	93.7	64.7
Lower		77.8	41.0
Upper		116.6	61.4



#15
2-Fluorobiphenyl
Concen: 0.347 ng
RT: 12.839 min Scan# 1364
Delta R.T. -0.025 min
Lab File: BN034844.D
Acq: 04 Nov 2024 17:54

Tgt Ion	172	171	170
Resp:	13715		
Ratio	100	34.9	24.5
Lower		27.2	18.0
Upper		40.8	27.0

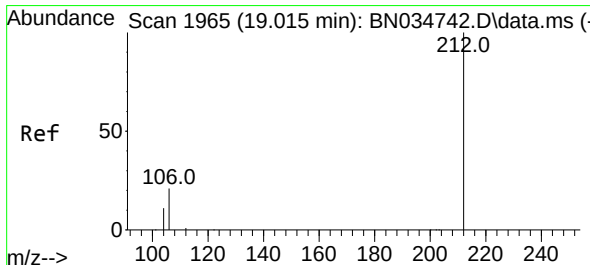
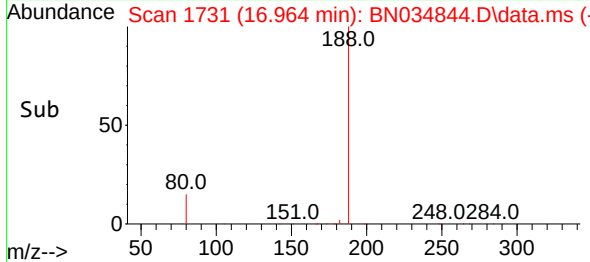
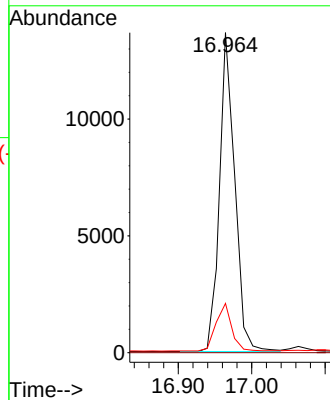
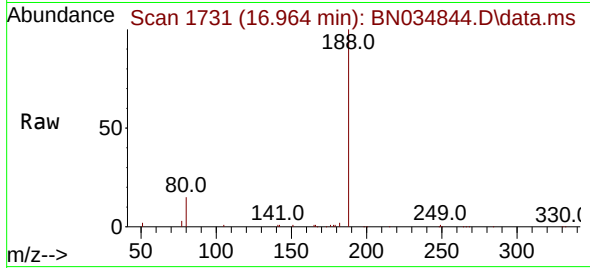




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.964 min Scan# 1731
Delta R.T. -0.018 min
Lab File: BN034844.D
Acq: 04 Nov 2024 17:54

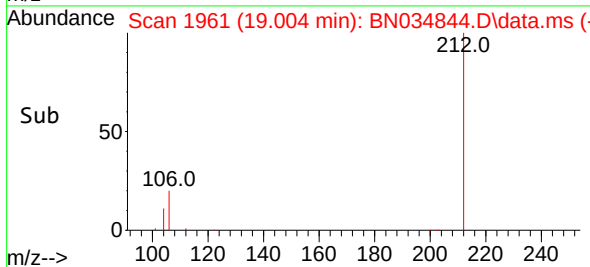
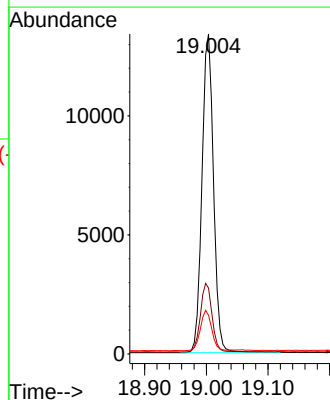
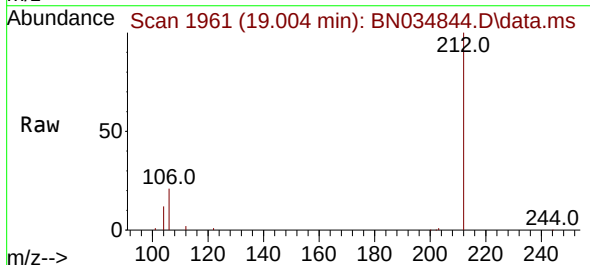
Instrument :
BNA_N
ClientSampleId :
RW5-SP301-303-90-20241030

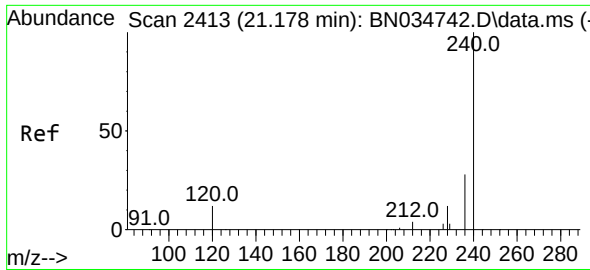
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	15.4	9.8	14.6



#27
Fluoranthene-d10
Concen: 0.376 ng
RT: 19.004 min Scan# 1961
Delta R.T. -0.012 min
Lab File: BN034844.D
Acq: 04 Nov 2024 17:54

Tgt Ion	Ratio	Lower	Upper
212	100		
106	21.7	16.1	24.1
104	12.5	9.2	13.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.158 min Scan# 2409

Delta R.T. -0.020 min

Lab File: BN034844.D

Acq: 04 Nov 2024 17:54

Instrument :

BNA_N

ClientSampleId :

RW5-SP301-303-90-20241030

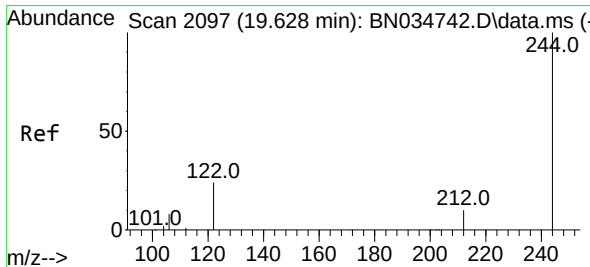
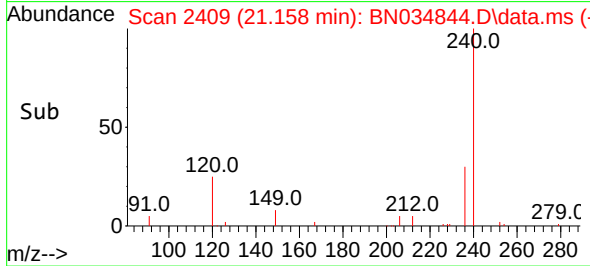
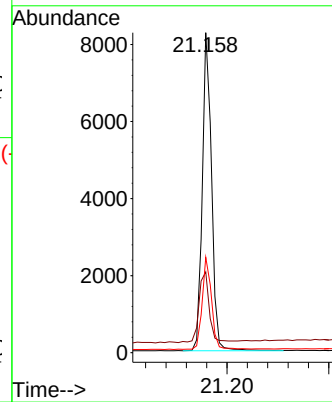
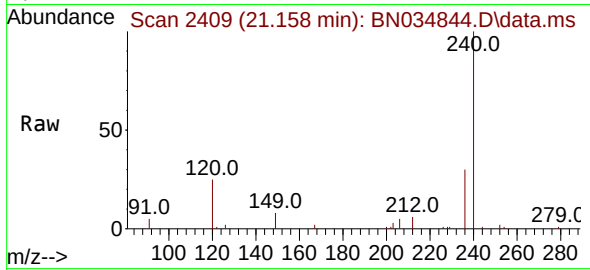
Tgt Ion:240 Resp: 10387

Ion Ratio Lower Upper

240 100

120 25.2 11.5 17.3#

236 29.8 23.2 34.8



#31

Terphenyl-d14

Concen: 0.489 ng

RT: 19.612 min Scan# 2092

Delta R.T. -0.016 min

Lab File: BN034844.D

Acq: 04 Nov 2024 17:54

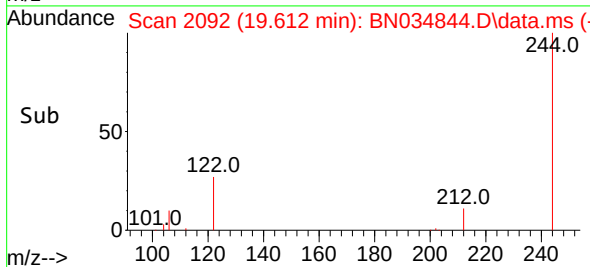
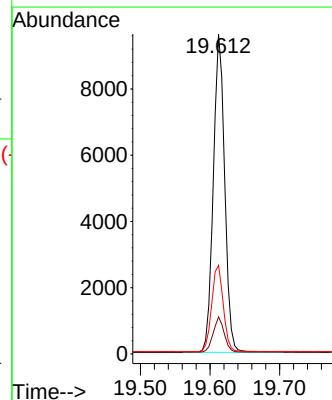
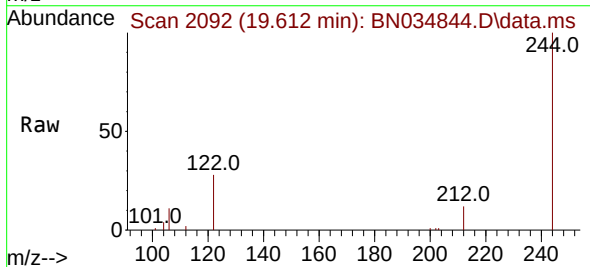
Tgt Ion:244 Resp: 10910

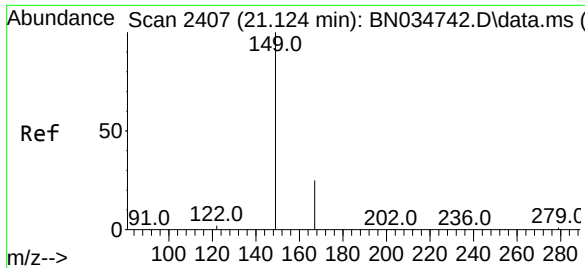
Ion Ratio Lower Upper

244 100

212 11.6 8.2 12.4

122 27.7 19.8 29.6

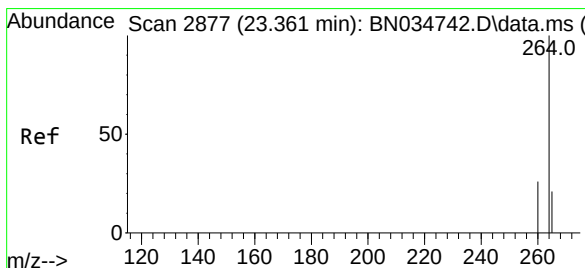
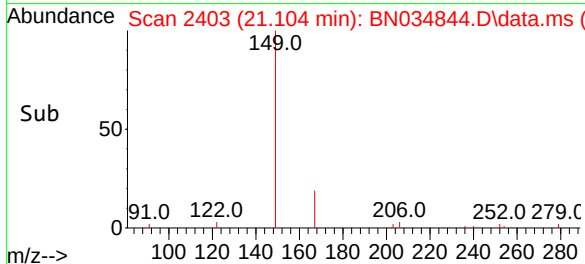
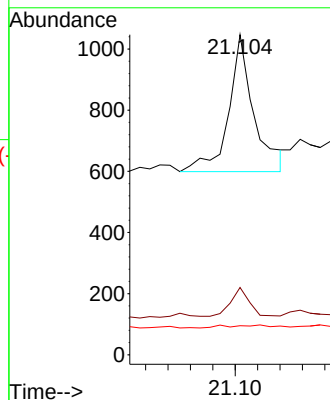
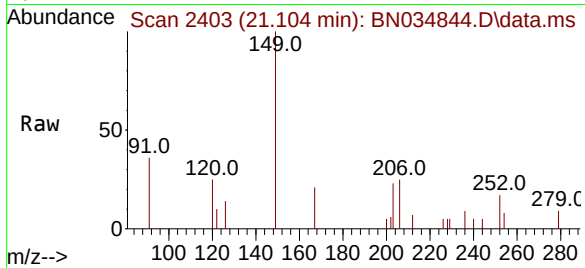




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.020 ng
RT: 21.104 min Scan# 2403
Delta R.T. -0.020 min
Lab File: BN034844.D
Acq: 04 Nov 2024 17:54

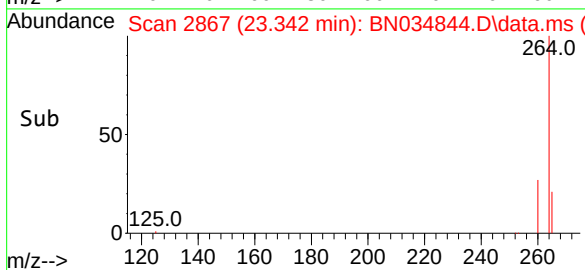
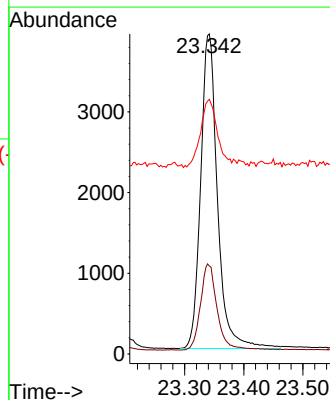
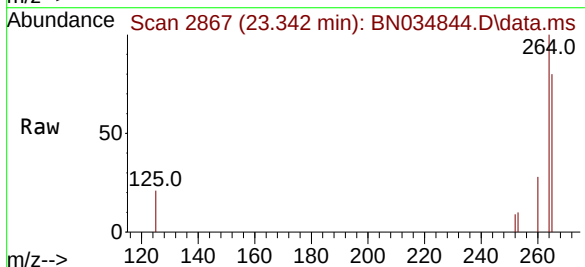
Instrument :
BNA_N
ClientSampleId :
RW5-SP301-303-90-20241030

Tgt Ion:149 Resp: 701
Ion Ratio Lower Upper
149 100
167 15.0 20.6 30.8#
279 1.1 1.5 2.3#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.342 min Scan# 2867
Delta R.T. -0.020 min
Lab File: BN034844.D
Acq: 04 Nov 2024 17:54

Tgt Ion:264 Resp: 7678
Ion Ratio Lower Upper
264 100
260 27.5 21.5 32.3
265 79.6 47.5 71.3#





CALIBRATION SUMMARY

1
2
3
4
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18

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN103024.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Oct 30 13:28:24 2024
Response Via : Initial Calibration

Calibration Files

0.1 =BN034740.D 0.2 =BN034741.D 0.4 =BN034742.D 0.8 =BN034743.D 1.6 =BN034744.D 3.2 =BN034745.D 5.0 =BN034746.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	0.498	0.441	0.407	0.462	0.438	0.418	0.405	0.439	7.62
3)	n-Nitrosodimet...	0.506	0.483	0.437	0.537	0.523	0.484	0.490	0.494	6.58
4) S	2-Fluorophenol	1.305	1.235	1.096	1.293	1.248	1.144	1.161	1.212	6.55
5) S	Phenol-d6	1.675	1.592	1.406	1.658	1.625	1.511	1.552	1.574	5.96
6)	bis(2-Chloroet...	1.155	1.134	1.057	1.247	1.211	1.115	1.124	1.149	5.51
7) I	Naphthalene-d8	-----ISTD-----								
8) S	Nitrobenzene-d5	0.320	0.305	0.278	0.338	0.328	0.308	0.323	0.314	6.25
9)	Naphthalene	1.150	1.096	0.996	1.191	1.153	1.069	1.087	1.106	5.87
10)	Hexachlorobuta...	0.191	0.182	0.165	0.197	0.190	0.173	0.177	0.182	6.17
11) SURR2	Methylnaphth...	0.577	0.560	0.519	0.628	0.617	0.569	0.584	0.579	6.27
12)	2-Methylnaphth...	0.719	0.708	0.649	0.785	0.769	0.709	0.725	0.723	6.16
13) I	Acenaphthene-d10	-----ISTD-----								
14) S	2,4,6-Tribromo...	0.199	0.178	0.158	0.204	0.213	0.206	0.224	0.198	11.32
15) S	2-Fluorobiphenyl	1.593	1.579	1.360	1.726	1.667	1.542	1.561	1.575	7.29
16)	Acenaphthylene	2.027	1.956	1.678	2.156	2.136	2.018	2.077	2.007	8.02
17)	Acenaphthene	1.338	1.292	1.133	1.458	1.440	1.332	1.368	1.337	8.07
18)	Fluorene	1.692	1.628	1.434	1.816	1.793	1.650	1.653	1.667	7.55
19) I	Phenanthrene-d10	-----ISTD-----								
20)	4,6-Dinitro-2-...	0.043	0.045	0.060	0.065	0.069	0.076	0.059		22.17
21)	4-Bromophenyl-...	0.235	0.234	0.210	0.246	0.238	0.229	0.229	0.231	4.76
22)	Hexachlorobenzene	0.265	0.262	0.238	0.278	0.267	0.254	0.250	0.259	5.10
23)	Atrazine	0.196	0.190	0.178	0.214	0.214	0.203	0.199	0.199	6.44
24)	Pentachlorophenol	0.102	0.088	0.091	0.114	0.122	0.127	0.138	0.112	16.80
25)	Phenanthrene	1.166	1.168	1.076	1.267	1.233	1.168	1.158	1.176	5.16
26)	Anthracene	1.080	1.074	0.990	1.163	1.177	1.108	1.114	1.101	5.67
27) SURR	Fluoranthene-d10	0.935	0.883	0.849	1.006	1.019	0.940	0.937	0.938	6.48
28)	Fluoranthene	1.282	1.221	1.174	1.404	1.416	1.296	1.283	1.297	6.82
29) I	Chrysene-d12	-----ISTD-----								
30)	Pyrene	2.207	2.148	1.926	2.280	2.091	2.001	1.987	2.091	6.12
31) S	Terphenyl-d14	0.911	0.869	0.788	0.931	0.867	0.825	0.822	0.859	5.92
32)	Benzo(a)anthra...	1.620	1.534	1.406	1.721	1.679	1.581	1.606	1.592	6.45
33)	Chrysene	1.596	1.522	1.406	1.688	1.644	1.519	1.538	1.559	5.98
34)	Bis(2-ethylhex...	1.487	1.243	1.291	1.388	1.332	1.237	1.342	1.331	6.57
35) I	Perylene-d12	-----ISTD-----								

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

Method File : 8270-SIM-BN103024.M

36)	Indeno(1,2,3-c...	1.517	1.552	1.332	1.572	1.482	1.423	1.421	1.471	5.76
37)	Benzo(b)fluora...	1.589	1.500	1.450	1.753	1.730	1.619	1.632	1.610	6.87
38)	Benzo(k)fluora...	1.562	1.491	1.396	1.704	1.653	1.605	1.588	1.571	6.52
39) C	Benzo(a)pyrene	1.315	1.277	1.181	1.434	1.404	1.336	1.355	1.329	6.31
40)	Dibenzo(a,h)an...	1.189	1.210	1.035	1.230	1.152	1.110	1.107	1.147	5.98
41)	Benzo(g,h,i)pe...	1.302	1.335	1.138	1.329	1.223	1.185	1.170	1.240	6.54

(#) = Out of Range

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN103024\
 Data File : BN034740.D
 Acq On : 30 Oct 2024 09:20
 Operator : RC/JU
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

Quant Time: Oct 30 13:31:29 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 30 13:28:24 2024
 Response via : Initial Calibration

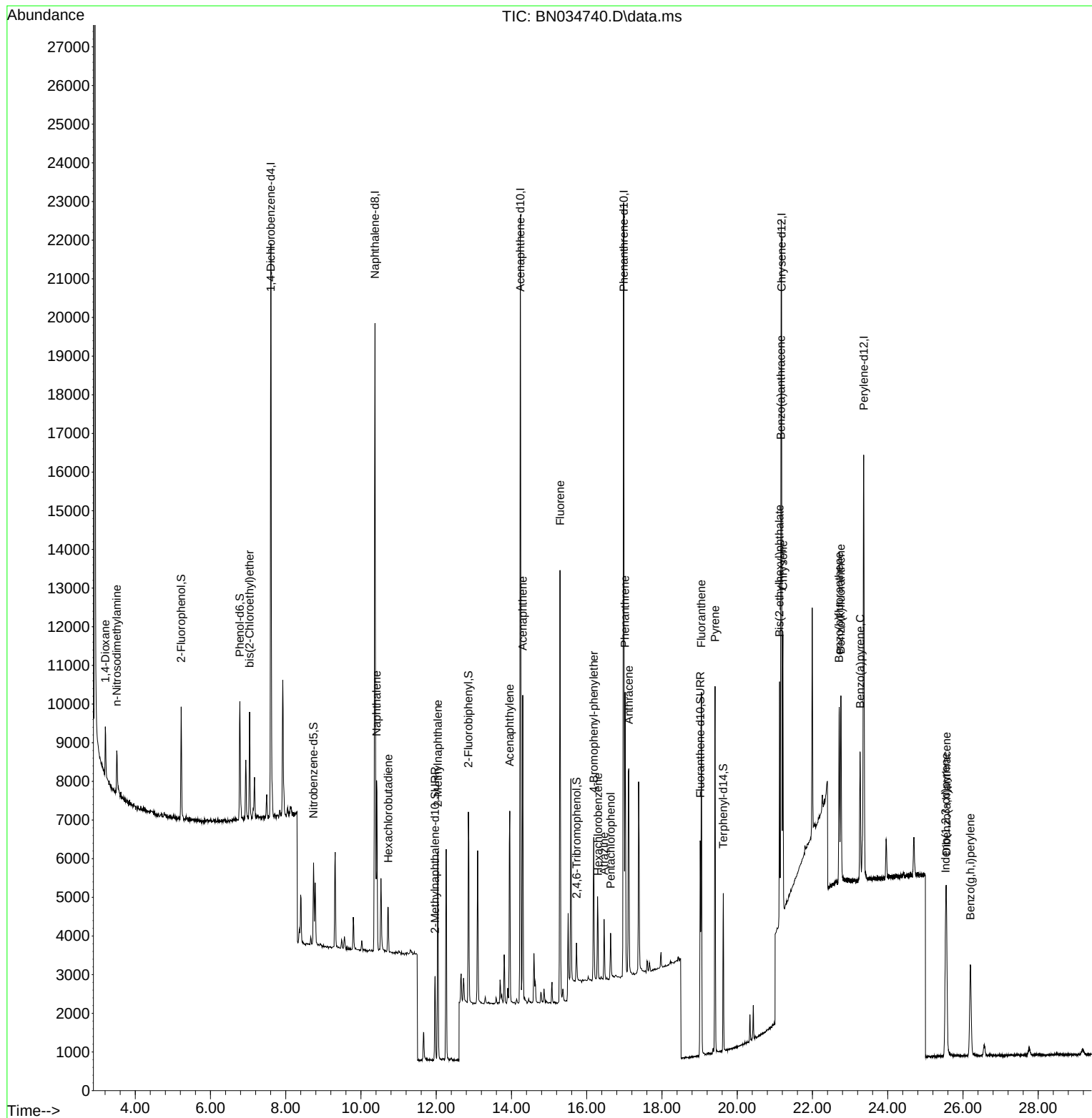
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.604	152	6966	0.400	ng	0.00
7) Naphthalene-d8	10.372	136	20732	0.400	ng	0.00
13) Acenaphthene-d10	14.233	164	11210	0.400	ng	0.00
19) Phenanthrene-d10	16.982	188	24788	0.400	ng	0.00
29) Chrysene-d12	21.178	240	14730	0.400	ng	0.00
35) Perylene-d12	23.361	264	13293	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.221	112	2272	0.108	ng	0.00
5) Phenol-d6	6.781	99	2917	0.106	ng	0.00
8) Nitrobenzene-d5	8.739	82	1657	0.102	ng	0.00
11) 2-Methylnaphthalene-d10	11.965	152	2990	0.100	ng	0.00
14) 2,4,6-Tribromophenol	15.728	330	557	0.101	ng	0.00
15) 2-Fluorobiphenyl	12.854	172	4463	0.101	ng	-0.01
27) Fluoranthene-d10	19.020	212	5792	0.100	ng	0.00
31) Terphenyl-d14	19.628	244	3356	0.106	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.205	88	868	0.114	ng	95
3) n-Nitrosodimethylamine	3.509	42	881	0.102	ng	98
6) bis(2-Chloroethyl)ether	7.040	93	2012	0.101	ng	97
9) Naphthalene	10.415	128	5961	0.104	ng	# 94
10) Hexachlorobutadiene	10.725	225	990	0.105	ng	# 99
12) 2-Methylnaphthalene	12.041	142	3724	0.099	ng	# 94
16) Acenaphthylene	13.955	152	5681	0.101	ng	99
17) Acenaphthene	14.297	154	3749	0.100	ng	98
18) Fluorene	15.291	166	4743	0.102	ng	99
21) 4-Bromophenyl-phenylether	16.188	248	1457	0.102	ng	95
22) Hexachlorobenzene	16.299	284	1642	0.102	ng	99
23) Atrazine	16.461	200	1214	0.098	ng	93
24) Pentachlorophenol	16.635	266	629	0.091	ng	94
25) Phenanthrene	17.019	178	7224	0.099	ng	99
26) Anthracene	17.119	178	6694	0.098	ng	99
28) Fluoranthene	19.048	202	7945	0.099	ng	100
30) Pyrene	19.410	202	8126	0.106	ng	99
32) Benzo(a)anthracene	21.160	228	5965	0.102	ng	99
33) Chrysene	21.214	228	5879	0.102	ng	98
34) Bis(2-ethylhexyl)phtha...	21.125	149	5476	0.112	ng	99
36) Indeno(1,2,3-cd)pyrene	25.537	276	5041	0.103	ng	# 85
37) Benzo(b)fluoranthene	22.709	252	5282	0.099	ng	# 71
38) Benzo(k)fluoranthene	22.753	252	5191	0.099	ng	# 61
39) Benzo(a)pyrene	23.268	252	4369	0.099	ng	# 62
40) Dibenzo(a,h)anthracene	25.560	278	3951	0.104	ng	# 71
41) Benzo(g,h,i)perylene	26.197	276	4327	0.105	ng	# 82

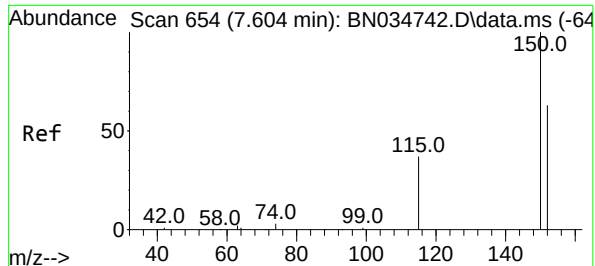
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Data File : BN034740.D
Acq On : 30 Oct 2024 09:20
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Quant Time: Oct 30 13:31:29 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 30 13:28:24 2024
Response via : Initial Calibration

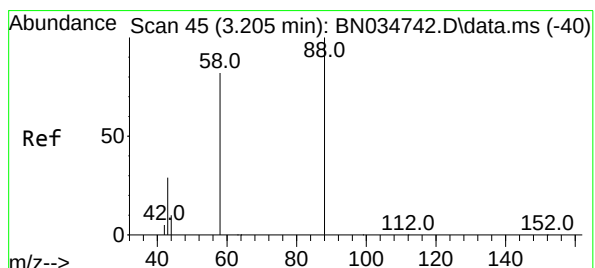
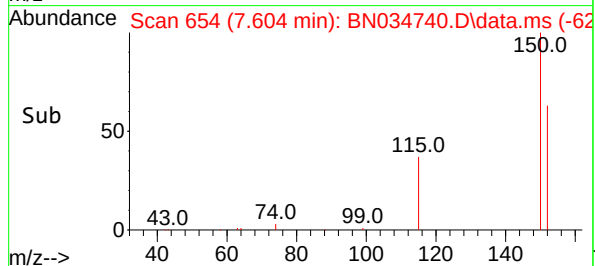
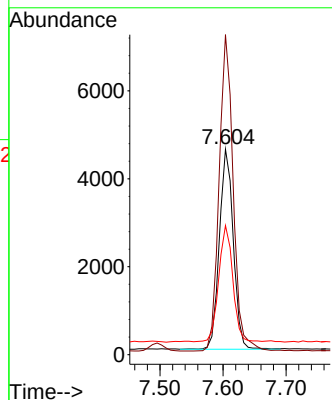
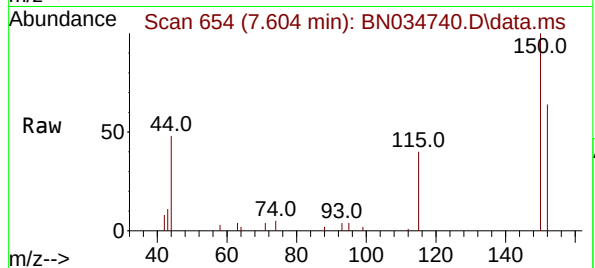




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.604 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN034740.D
Acq: 30 Oct 2024 09:20

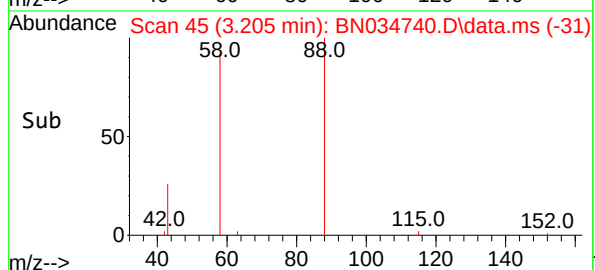
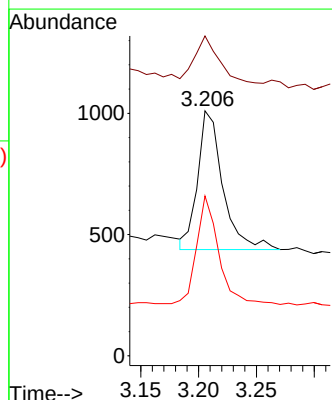
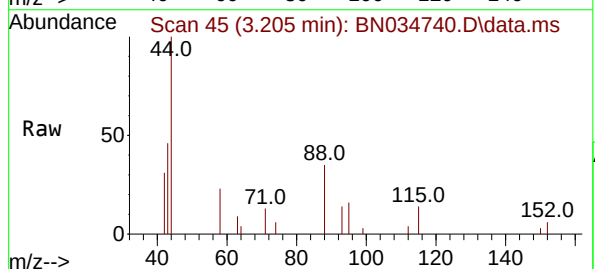
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

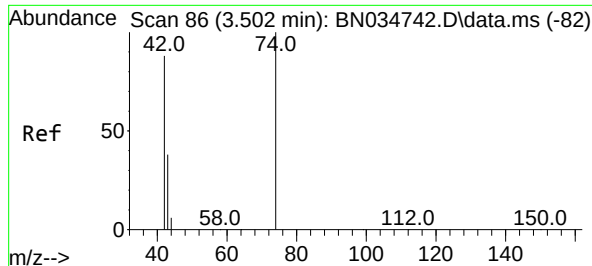
Tgt Ion:152 Resp: 6966
Ion Ratio Lower Upper
152 100
150 155.8 124.9 187.3
115 62.9 50.2 75.2



#2
1,4-Dioxane
Concen: 0.114 ng
RT: 3.205 min Scan# 45
Delta R.T. 0.000 min
Lab File: BN034740.D
Acq: 30 Oct 2024 09:20

Tgt Ion: 88 Resp: 868
Ion Ratio Lower Upper
88 100
43 32.4 26.7 40.1
58 68.7 59.3 88.9

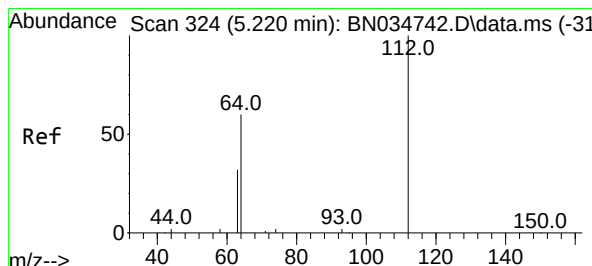
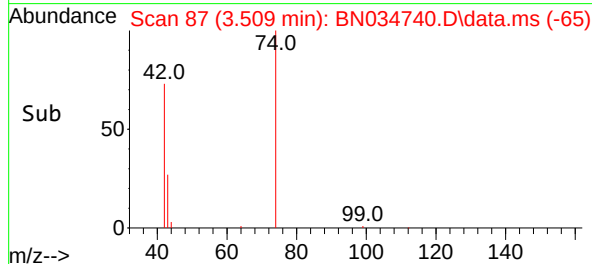
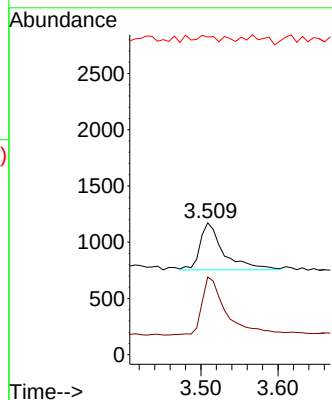
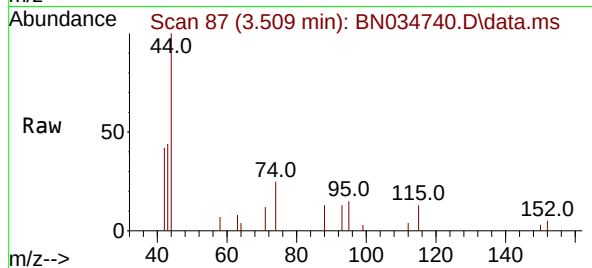




#3
n-Nitrosodimethylamine
Concen: 0.102 ng
RT: 3.509 min Scan# 81
Delta R.T. 0.007 min
Lab File: BN034740.D
Acq: 30 Oct 2024 09:20

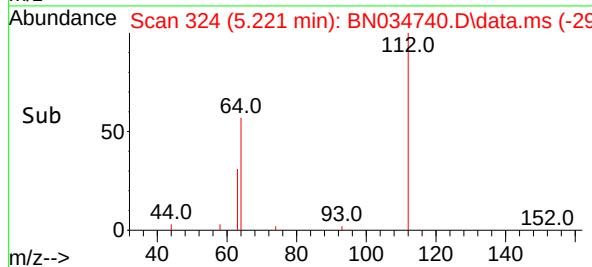
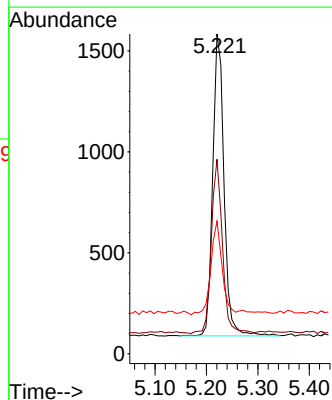
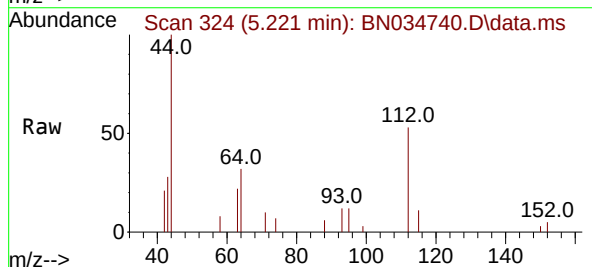
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

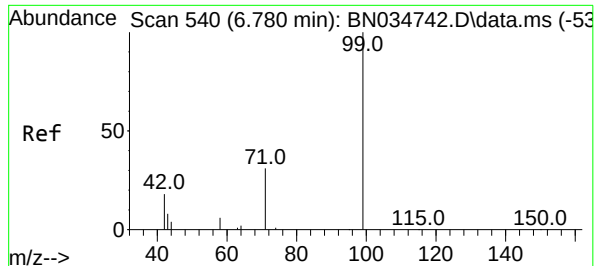
Tgt Ion: 42 Resp: 881
Ion Ratio Lower Upper
42 100
74 130.9 103.1 154.7
44 8.7 6.7 10.1



#4
2-Fluorophenol
Concen: 0.108 ng
RT: 5.221 min Scan# 324
Delta R.T. 0.000 min
Lab File: BN034740.D
Acq: 30 Oct 2024 09:20

Tgt Ion: 112 Resp: 2272
Ion Ratio Lower Upper
112 100
64 56.6 44.9 67.3
63 30.6 23.5 35.3

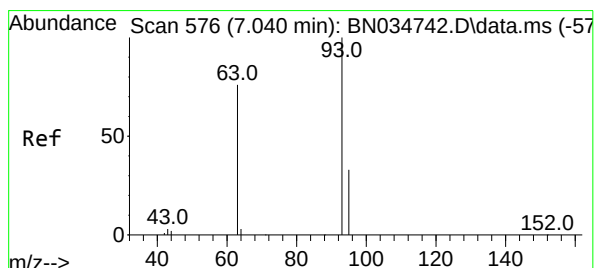
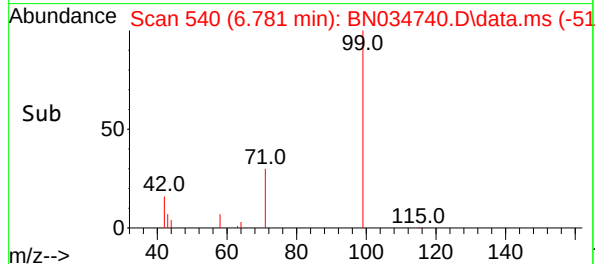
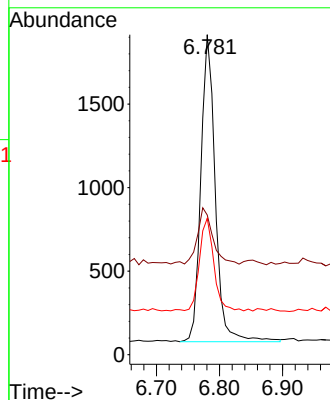
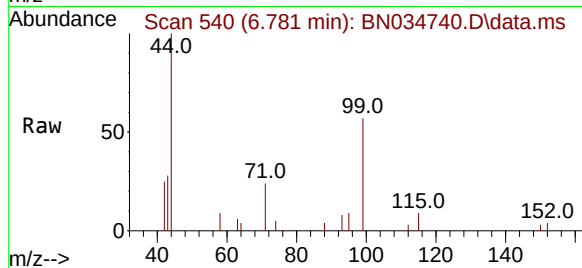




#5
Phenol-d6
Concen: 0.106 ng
RT: 6.781 min Scan# 540
Delta R.T. 0.000 min
Lab File: BN034740.D
Acq: 30 Oct 2024 09:20

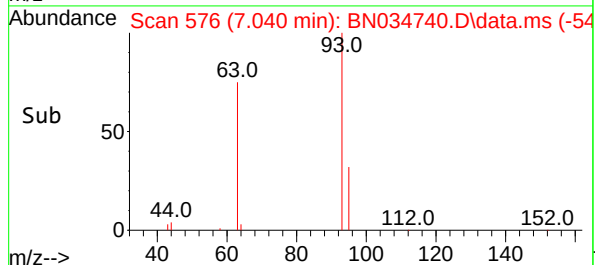
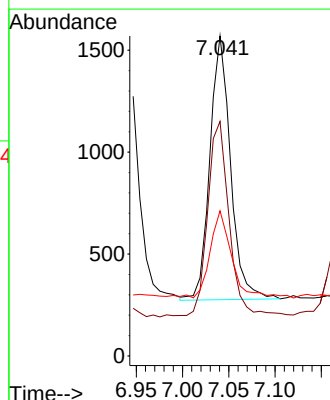
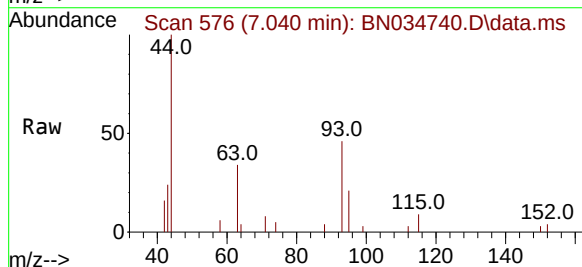
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

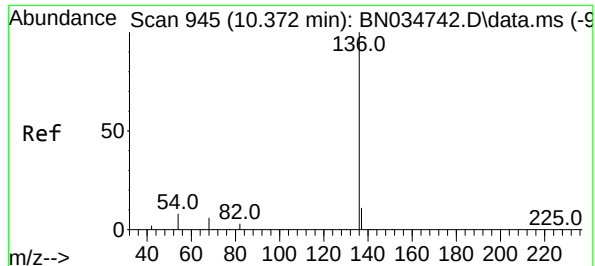
Tgt Ion: 99 Resp: 2917
Ion Ratio Lower Upper
99 100
42 19.5 15.9 23.9
71 30.0 24.3 36.5



#6
bis(2-Chloroethyl)ether
Concen: 0.101 ng
RT: 7.040 min Scan# 576
Delta R.T. 0.000 min
Lab File: BN034740.D
Acq: 30 Oct 2024 09:20

Tgt Ion: 93 Resp: 2012
Ion Ratio Lower Upper
93 100
63 78.1 61.2 91.8
95 34.7 25.8 38.8

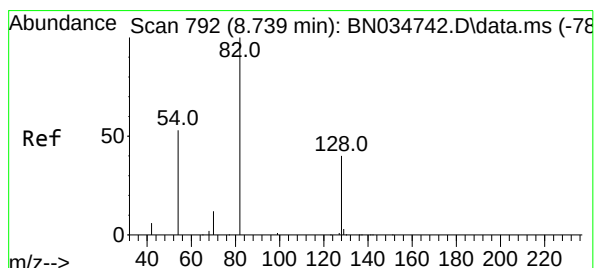
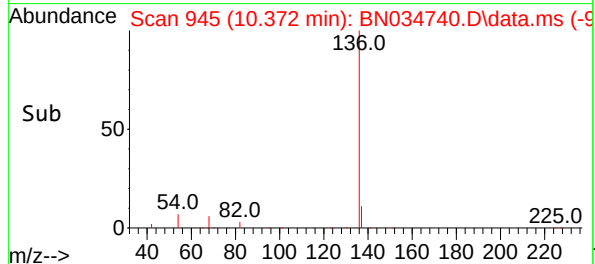
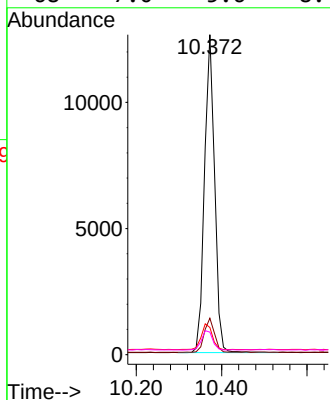
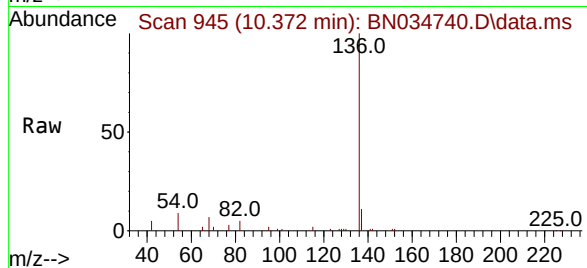




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.372 min Scan# 945
Delta R.T. 0.000 min
Lab File: BN034740.D
Acq: 30 Oct 2024 09:20

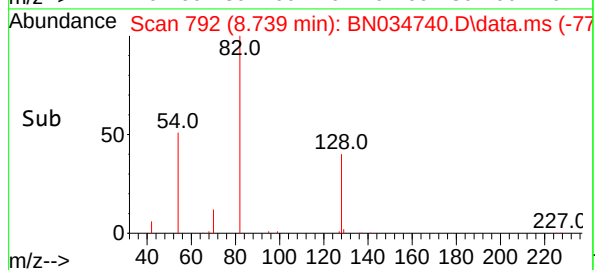
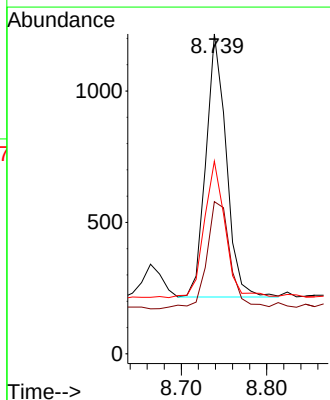
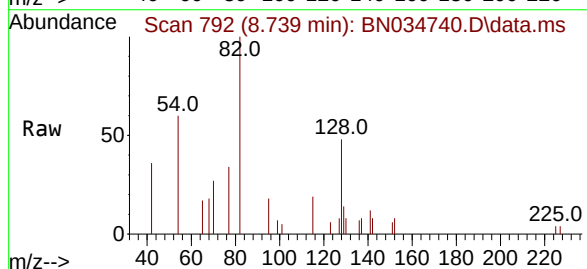
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

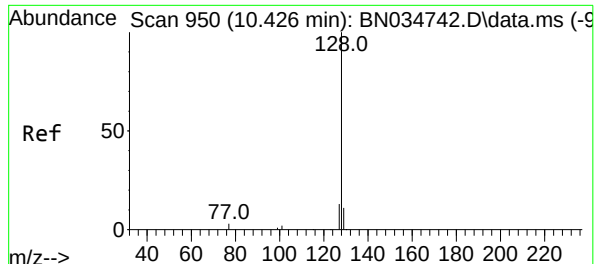
Tgt Ion:	136	Resp:	20732
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.2	13.8
54	8.5	7.0	10.4
68	7.0	5.6	8.4



#8
Nitrobenzene-d5
Concen: 0.102 ng
RT: 8.739 min Scan# 792
Delta R.T. 0.000 min
Lab File: BN034740.D
Acq: 30 Oct 2024 09:20

Tgt Ion:	82	Resp:	1657
Ion	Ratio	Lower	Upper
82	100		
128	47.6	33.7	50.5
54	60.2	44.4	66.6

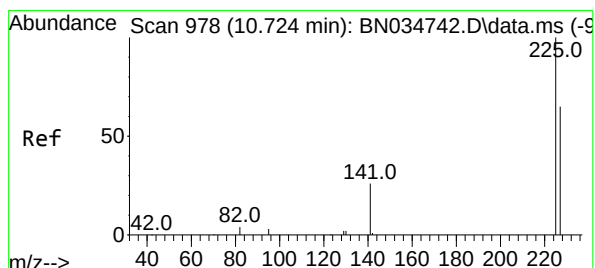
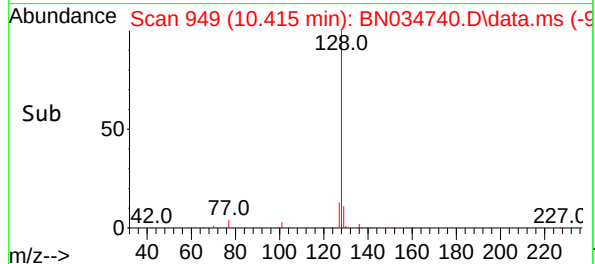
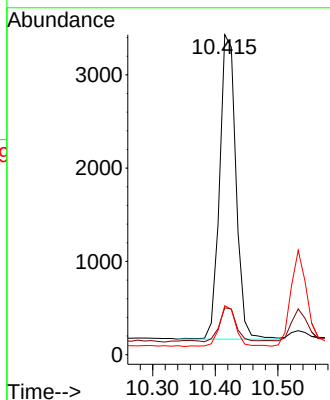
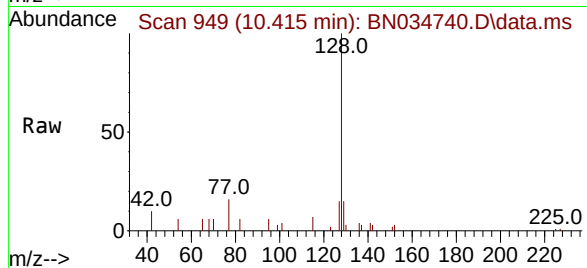




#9
Naphthalene
Concen: 0.104 ng
RT: 10.415 min Scan# 949
Delta R.T. -0.011 min
Lab File: BN034740.D
Acq: 30 Oct 2024 09:20

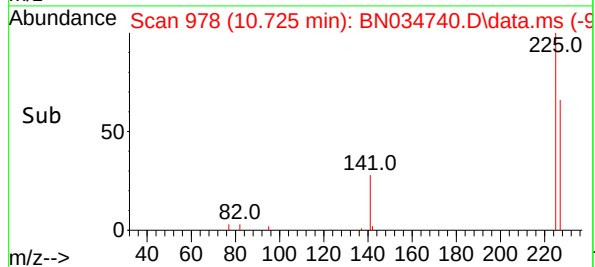
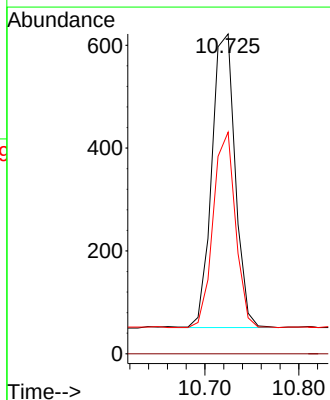
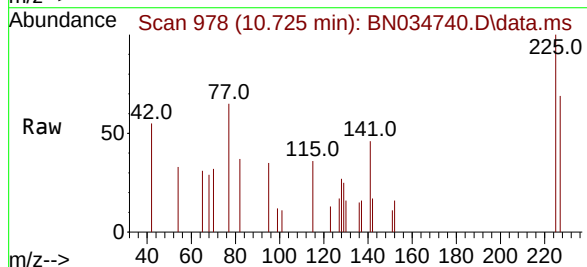
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

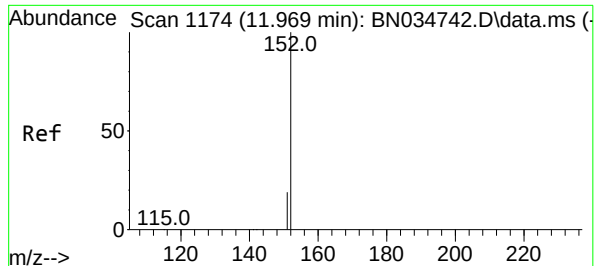
Tgt Ion:128 Resp: 5961
Ion Ratio Lower Upper
128 100
129 14.6 9.4 14.0#
127 15.3 10.6 15.8



#10
Hexachlorobutadiene
Concen: 0.105 ng
RT: 10.725 min Scan# 978
Delta R.T. 0.000 min
Lab File: BN034740.D
Acq: 30 Oct 2024 09:20

Tgt Ion:225 Resp: 990
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.4 51.4 77.2

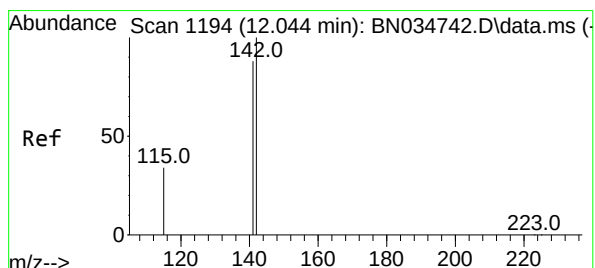
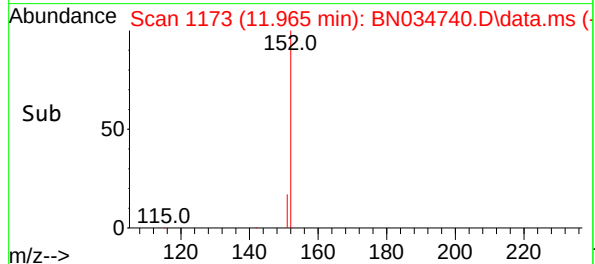
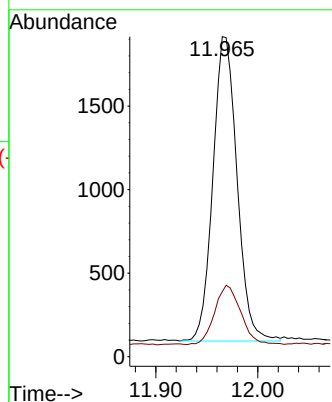
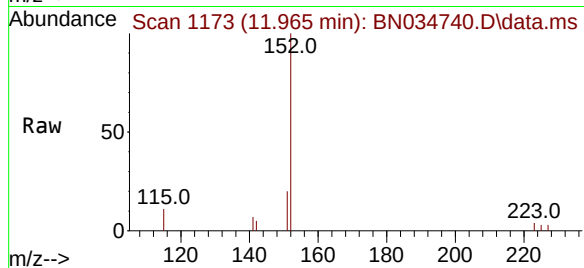




#11
2-Methylnaphthalene-d10
Concen: 0.100 ng
RT: 11.965 min Scan# 1173
Delta R.T. -0.004 min
Lab File: BN034740.D
Acq: 30 Oct 2024 09:20

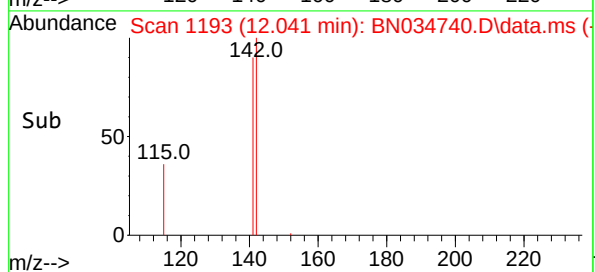
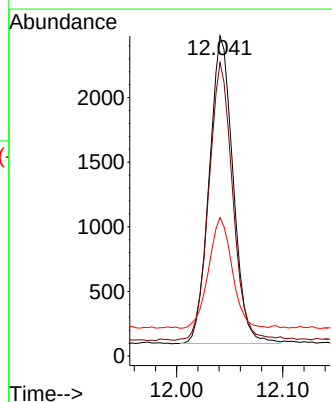
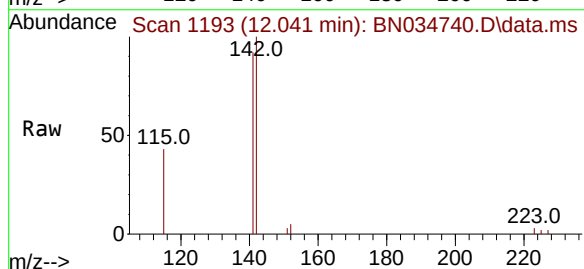
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

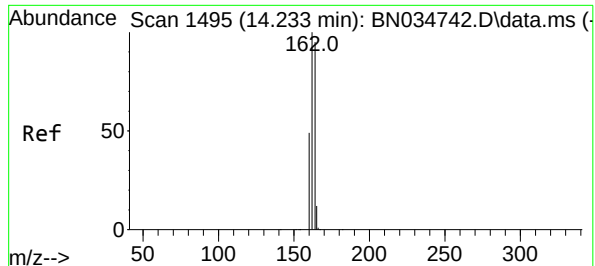
Tgt Ion:152 Resp: 2990
Ion Ratio Lower Upper
152 100
151 21.0 16.6 24.8



#12
2-Methylnaphthalene
Concen: 0.099 ng
RT: 12.041 min Scan# 1193
Delta R.T. -0.004 min
Lab File: BN034740.D
Acq: 30 Oct 2024 09:20

Tgt Ion:142 Resp: 3724
Ion Ratio Lower Upper
142 100
141 91.7 70.6 106.0
115 43.2 28.6 42.8#

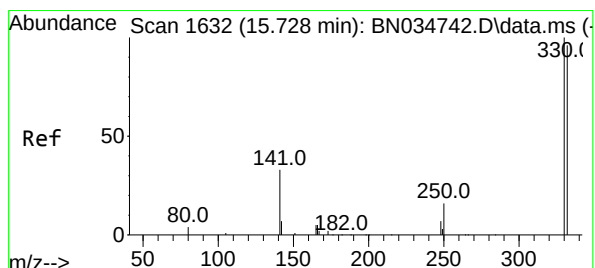
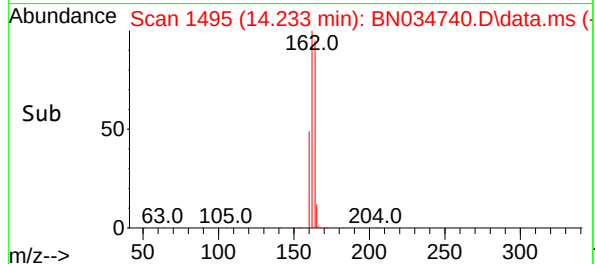
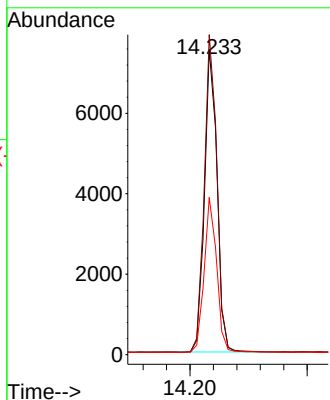
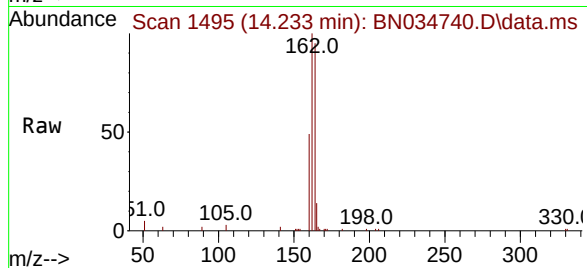




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.233 min Scan# 1495
Delta R.T. 0.000 min
Lab File: BN034740.D
Acq: 30 Oct 2024 09:20

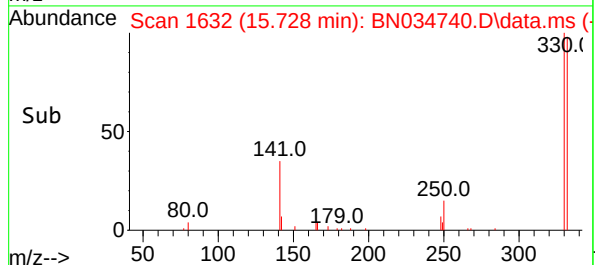
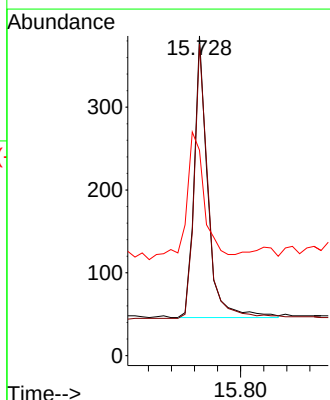
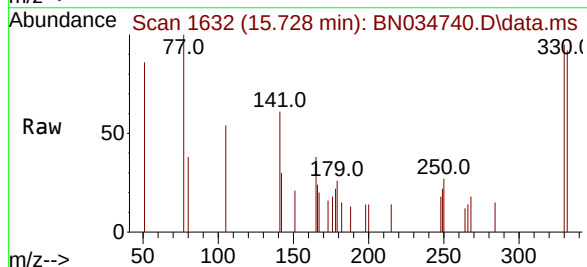
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

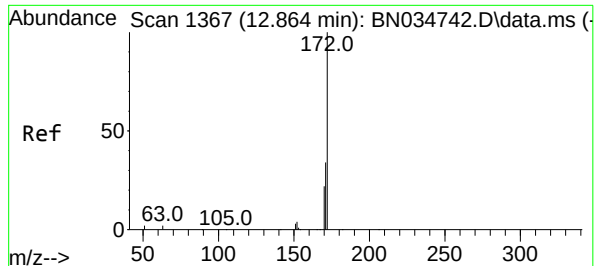
Tgt Ion:164 Resp: 11210
Ion Ratio Lower Upper
164 100
162 104.8 84.3 126.5
160 51.5 41.7 62.5



#14
2,4,6-Tribromophenol
Concen: 0.101 ng
RT: 15.728 min Scan# 1632
Delta R.T. 0.000 min
Lab File: BN034740.D
Acq: 30 Oct 2024 09:20

Tgt Ion:330 Resp: 557
Ion Ratio Lower Upper
330 100
332 99.5 77.8 116.6
141 60.5 41.0 61.4





#15

2-Fluorobiphenyl

Concen: 0.101 ng

RT: 12.854 min Scan# 1366

Delta R.T. -0.011 min

Lab File: BN034740.D

Acq: 30 Oct 2024 09:20

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

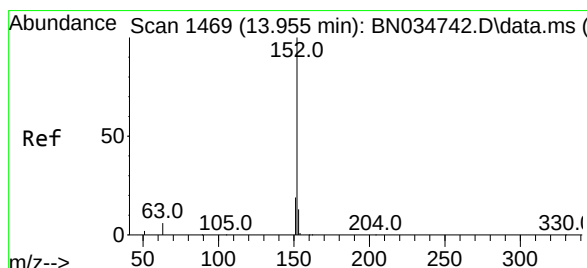
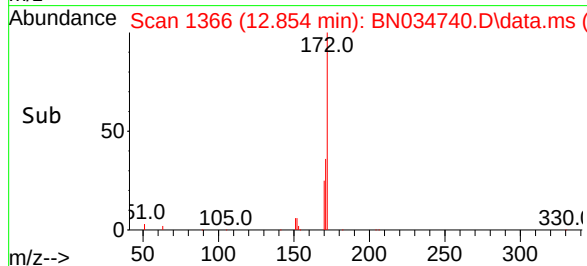
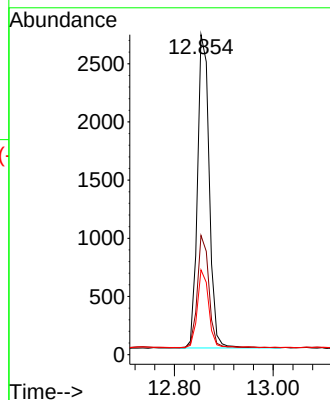
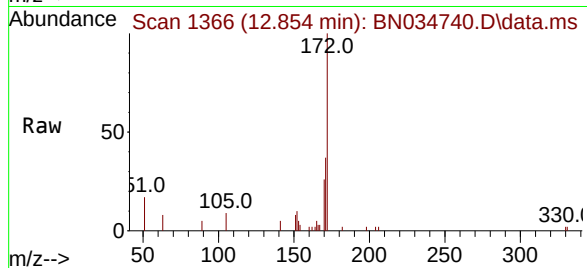
Tgt Ion:172 Resp: 4463

Ion Ratio Lower Upper

172 100

171 37.2 27.2 40.8

170 26.5 18.0 27.0



#16

Acenaphthylene

Concen: 0.101 ng

RT: 13.955 min Scan# 1469

Delta R.T. 0.000 min

Lab File: BN034740.D

Acq: 30 Oct 2024 09:20

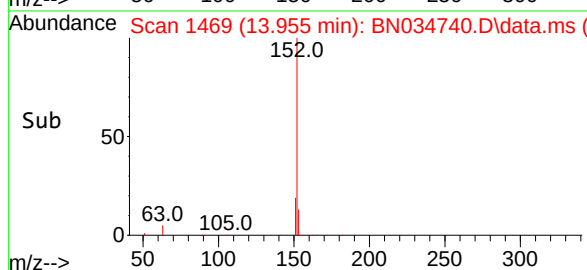
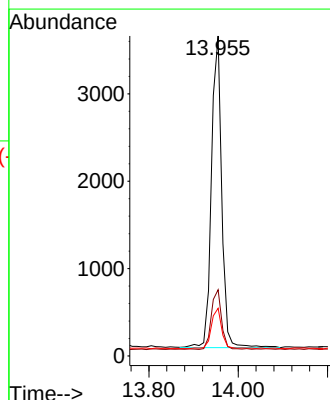
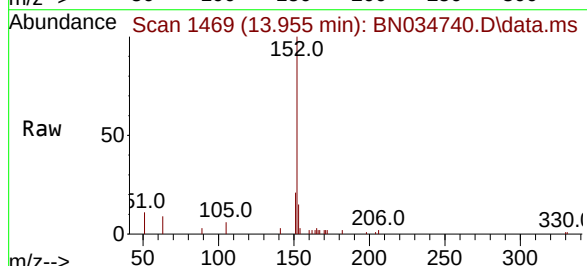
Tgt Ion:152 Resp: 5681

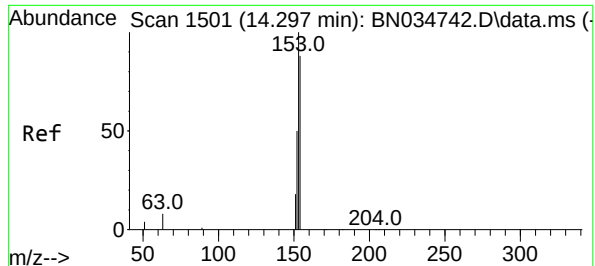
Ion Ratio Lower Upper

152 100

151 18.9 15.4 23.2

153 13.1 10.2 15.4

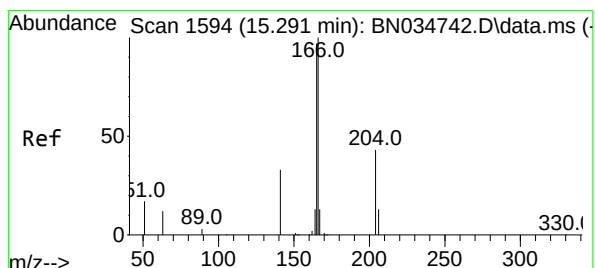
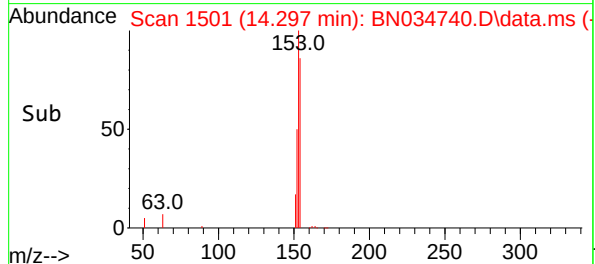
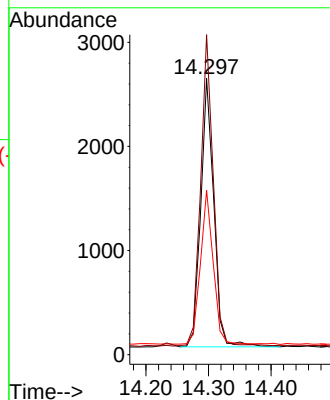
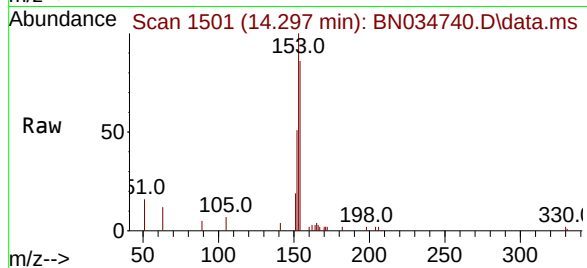




#17
Acenaphthene
Concen: 0.100 ng
RT: 14.297 min Scan# 1501
Delta R.T. 0.000 min
Lab File: BN034740.D
Acq: 30 Oct 2024 09:20

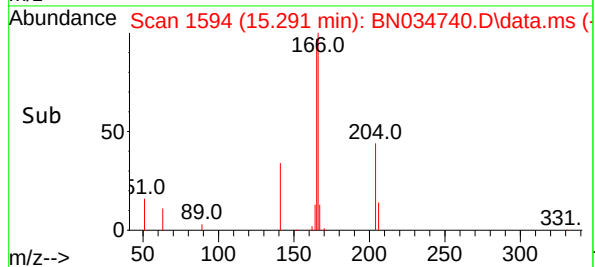
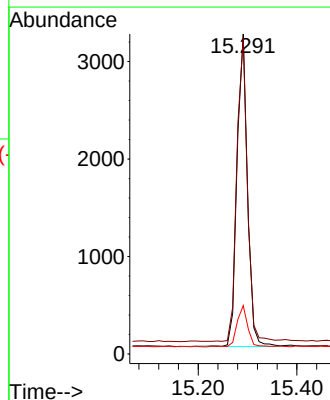
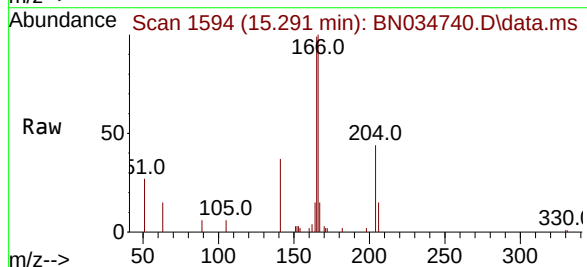
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

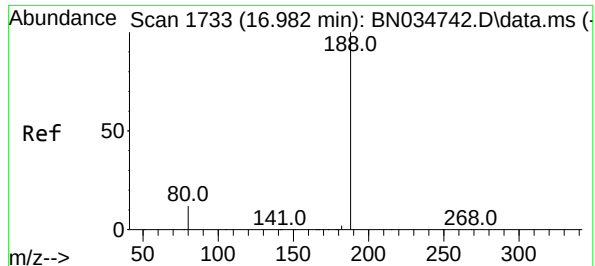
Tgt Ion:154 Resp: 3749
Ion Ratio Lower Upper
154 100
153 113.1 87.8 131.6
152 55.8 44.6 67.0



#18
Fluorene
Concen: 0.102 ng
RT: 15.291 min Scan# 1594
Delta R.T. 0.000 min
Lab File: BN034740.D
Acq: 30 Oct 2024 09:20

Tgt Ion:166 Resp: 4743
Ion Ratio Lower Upper
166 100
165 97.2 78.5 117.7
167 13.8 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.982 min Scan# 1733

Delta R.T. 0.000 min

Lab File: BN034740.D

Acq: 30 Oct 2024 09:20

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

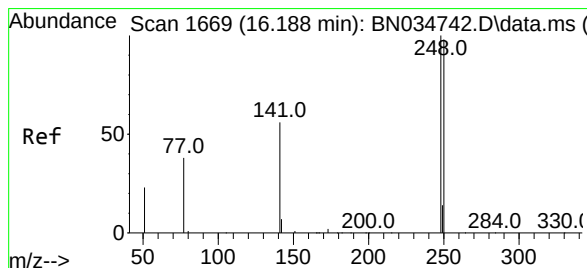
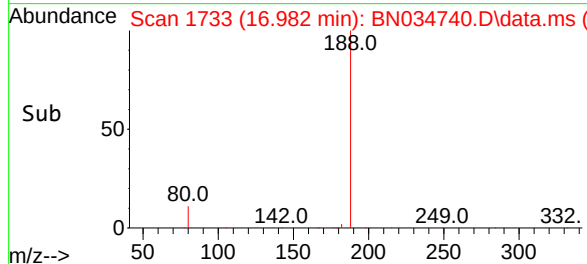
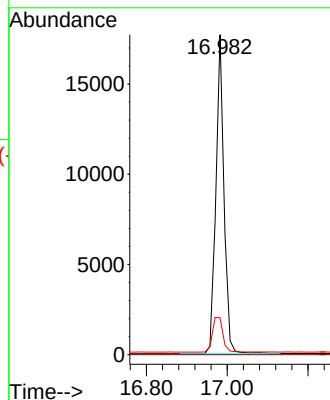
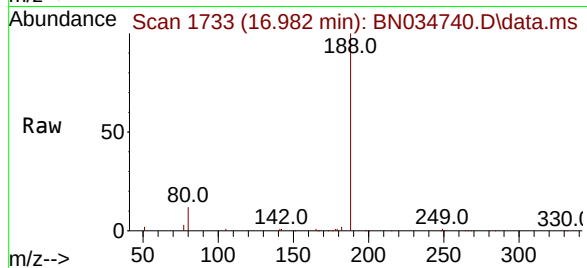
Tgt Ion:188 Resp: 24788

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.6 9.8 14.6



#21

4-Bromophenyl-phenylether

Concen: 0.102 ng

RT: 16.188 min Scan# 1669

Delta R.T. 0.000 min

Lab File: BN034740.D

Acq: 30 Oct 2024 09:20

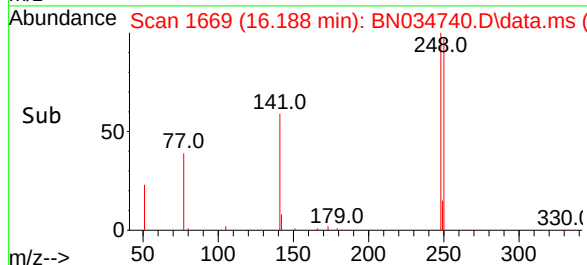
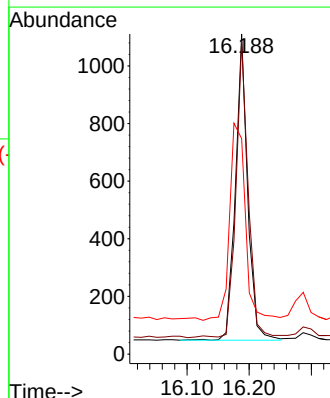
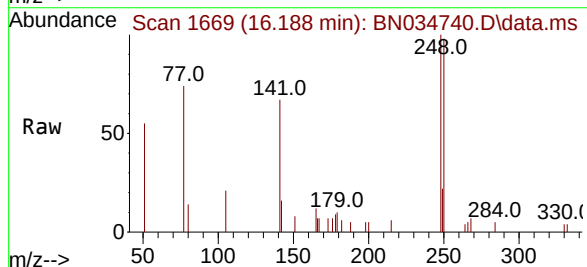
Tgt Ion:248 Resp: 1457

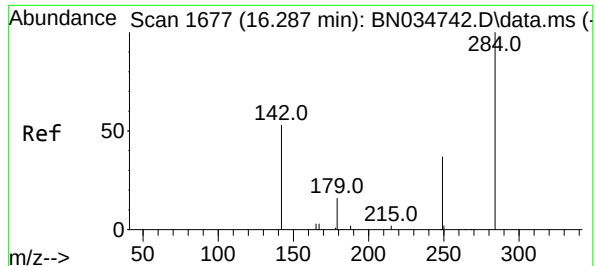
Ion Ratio Lower Upper

248 100

250 97.7 78.7 118.1

141 67.3 46.4 69.6





#22

Hexachlorobenzene

Concen: 0.102 ng

RT: 16.299 min Scan# 1678

Delta R.T. 0.013 min

Lab File: BN034740.D

Acq: 30 Oct 2024 09:20

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

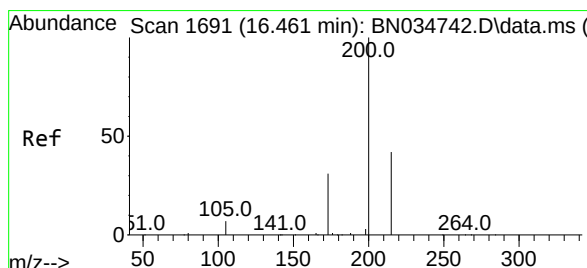
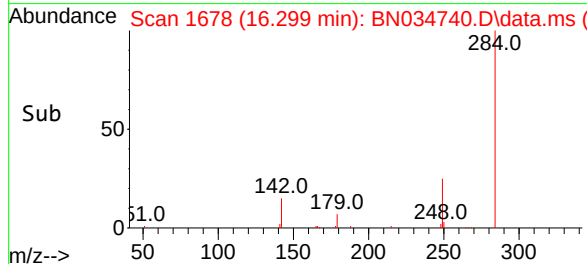
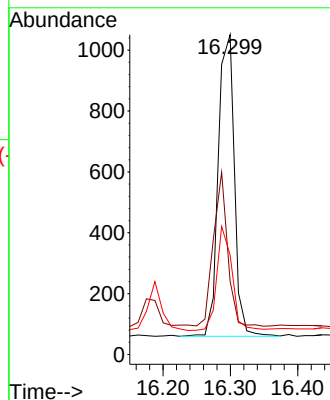
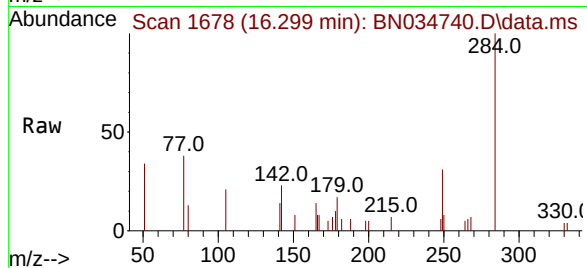
Tgt Ion:284 Resp: 1642

Ion Ratio Lower Upper

284 100

142 44.9 35.4 53.0

249 32.5 25.7 38.5



#23

Atrazine

Concen: 0.098 ng

RT: 16.461 min Scan# 1691

Delta R.T. 0.000 min

Lab File: BN034740.D

Acq: 30 Oct 2024 09:20

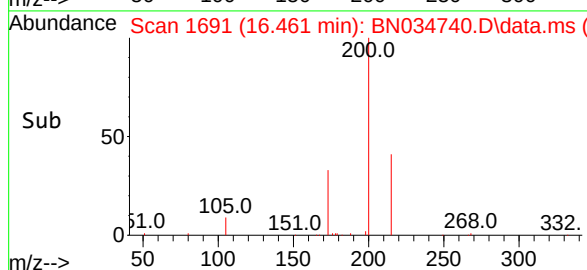
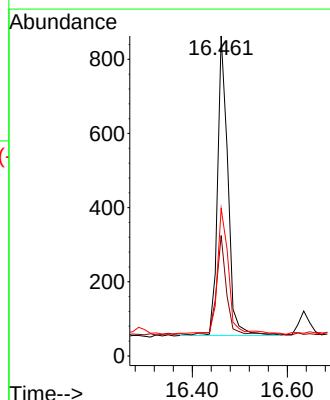
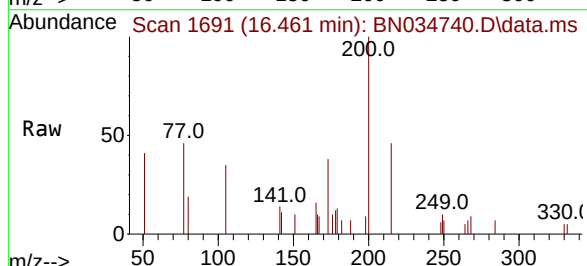
Tgt Ion:200 Resp: 1214

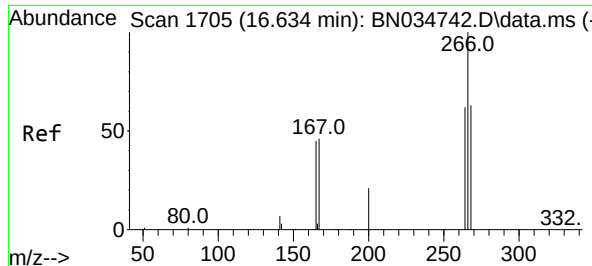
Ion Ratio Lower Upper

200 100

173 37.7 25.8 38.6

215 46.1 34.2 51.4





#24

Pentachlorophenol

Concen: 0.091 ng

RT: 16.635 min Scan# 1705

Delta R.T. 0.001 min

Lab File: BN034740.D

Acq: 30 Oct 2024 09:20

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

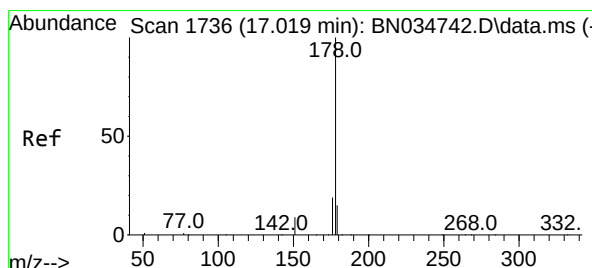
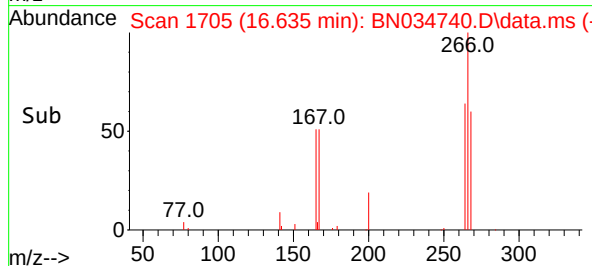
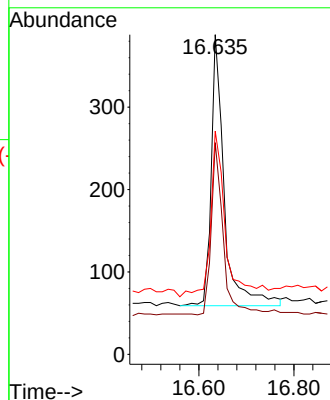
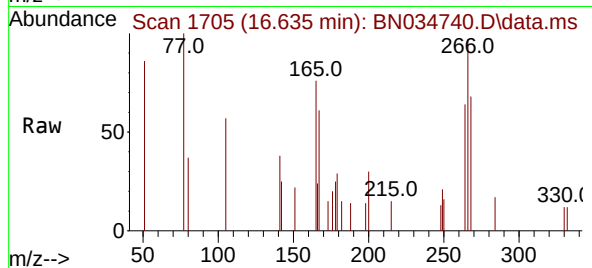
Tgt Ion:266 Resp: 629

Ion Ratio Lower Upper

266 100

264 58.2 48.7 73.1

268 69.6 50.2 75.4



#25

Phenanthrene

Concen: 0.099 ng

RT: 17.019 min Scan# 1736

Delta R.T. 0.000 min

Lab File: BN034740.D

Acq: 30 Oct 2024 09:20

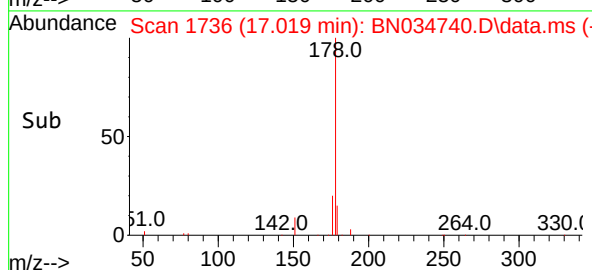
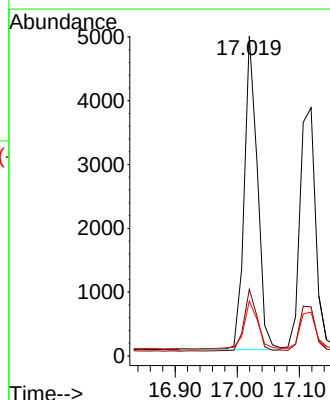
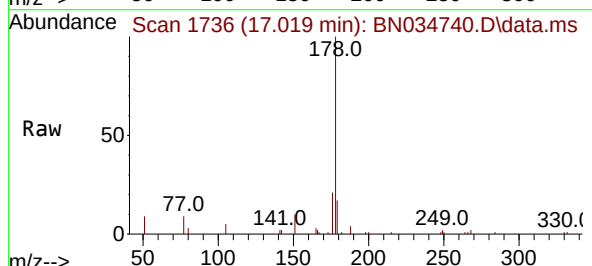
Tgt Ion:178 Resp: 7224

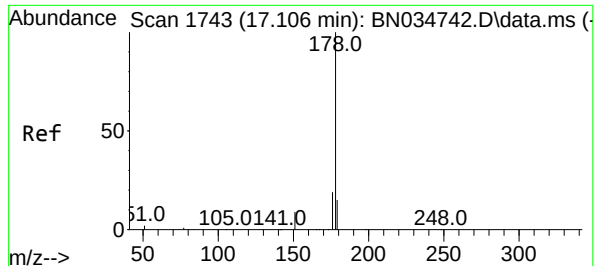
Ion Ratio Lower Upper

178 100

176 19.4 15.4 23.0

179 16.4 12.2 18.4





#26

Anthracene

Concen: 0.098 ng

RT: 17.119 min Scan# 1744

Delta R.T. 0.013 min

Lab File: BN034740.D

Acq: 30 Oct 2024 09:20

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

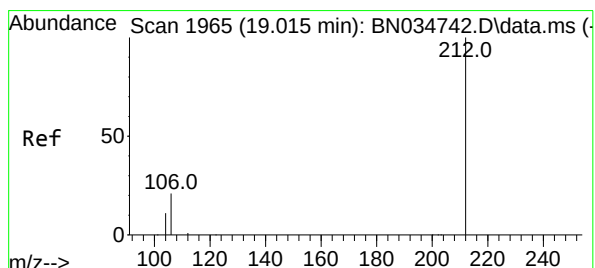
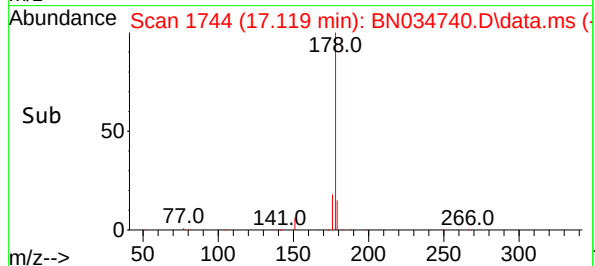
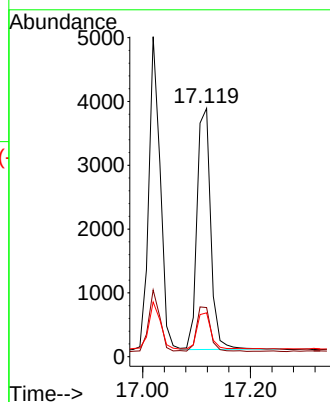
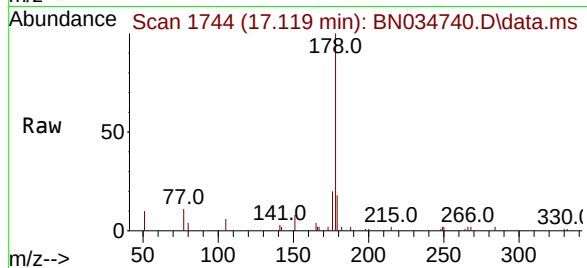
Tgt Ion:178 Resp: 6694

Ion Ratio Lower Upper

178 100

176 18.7 15.0 22.6

179 15.8 12.2 18.2



#27

Fluoranthene-d10

Concen: 0.100 ng

RT: 19.020 min Scan# 1966

Delta R.T. 0.005 min

Lab File: BN034740.D

Acq: 30 Oct 2024 09:20

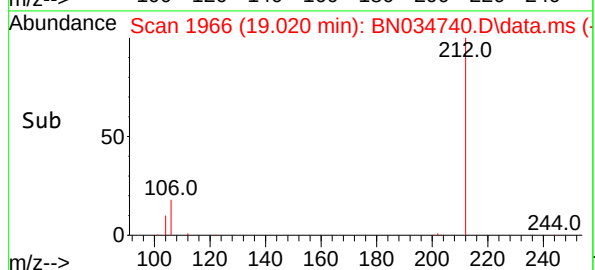
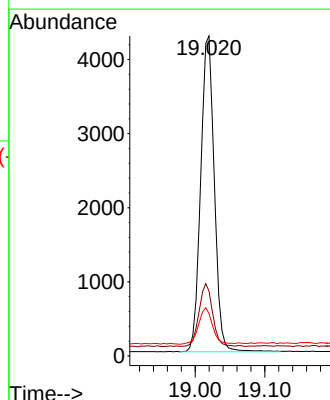
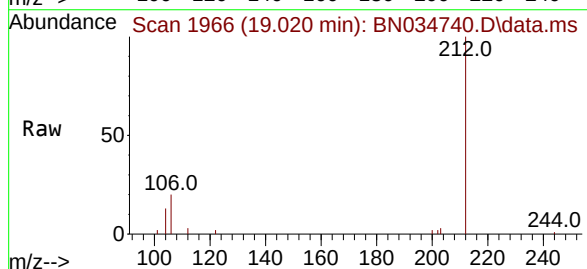
Tgt Ion:212 Resp: 5792

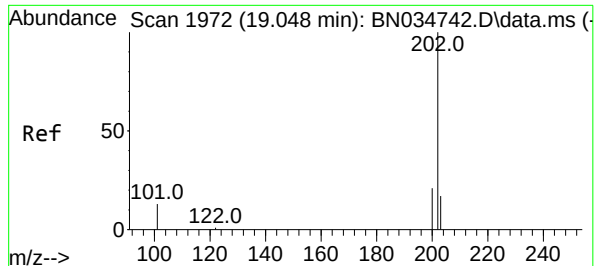
Ion Ratio Lower Upper

212 100

106 19.6 16.1 24.1

104 11.7 9.2 13.8

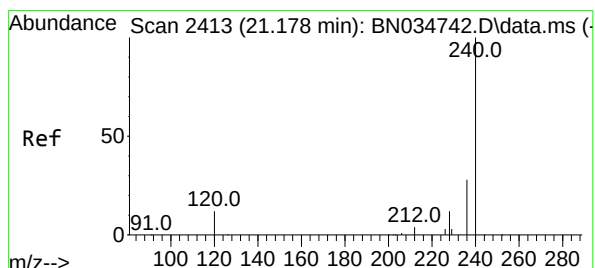
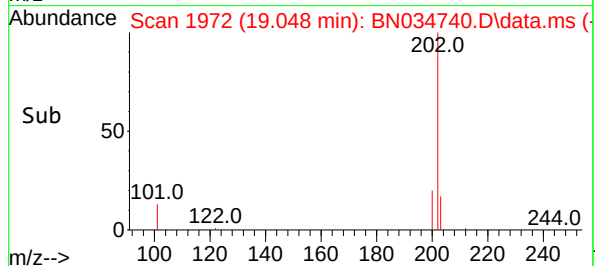
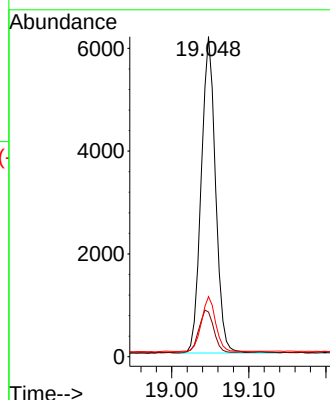
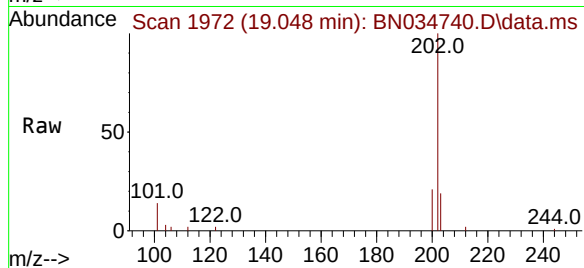




#28
Fluoranthene
Concen: 0.099 ng
RT: 19.048 min Scan# 1972
Delta R.T. 0.000 min
Lab File: BN034740.D
Acq: 30 Oct 2024 09:20

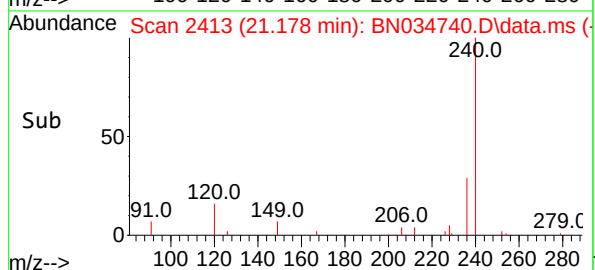
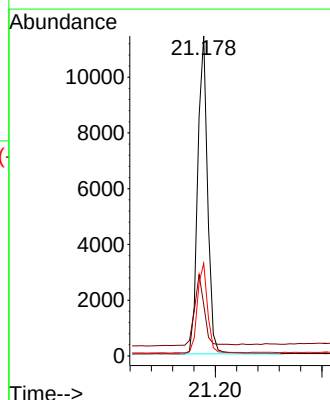
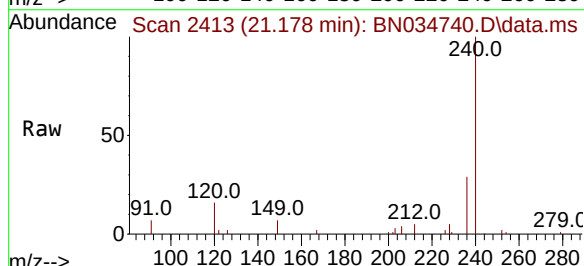
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

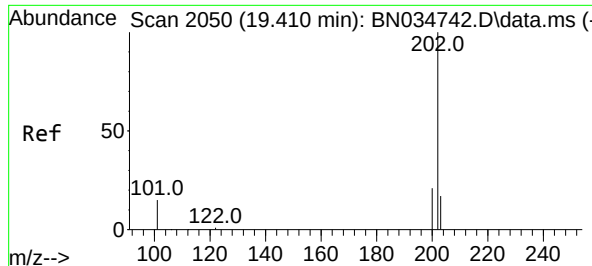
Tgt Ion	Ratio	Lower	Upper
202	100		
101	14.1	11.4	17.0
203	17.1	13.7	20.5



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.178 min Scan# 2413
Delta R.T. 0.000 min
Lab File: BN034740.D
Acq: 30 Oct 2024 09:20

Tgt Ion	Ratio	Lower	Upper
240	100		
120	16.1	11.5	17.3
236	28.9	23.2	34.8





#30

Pyrene

Concen: 0.106 ng

RT: 19.410 min Scan# 2050

Delta R.T. 0.000 min

Lab File: BN034740.D

Acq: 30 Oct 2024 09:20

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

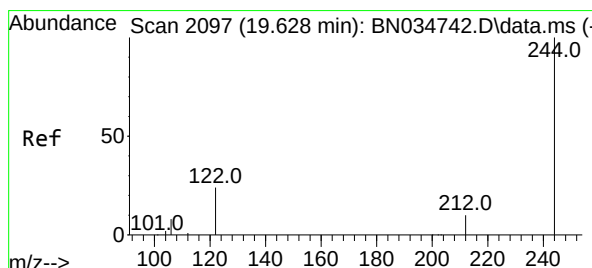
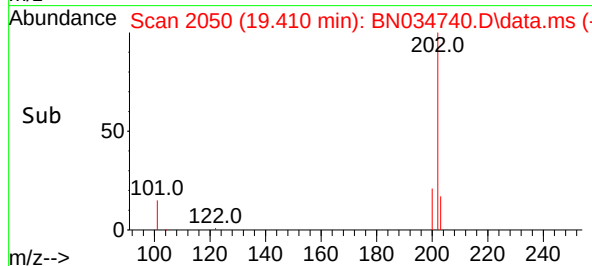
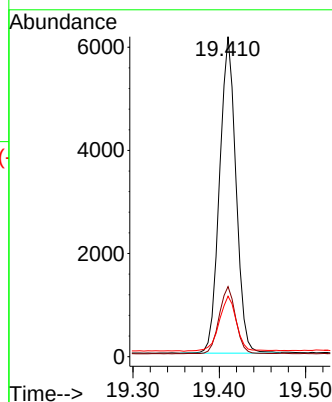
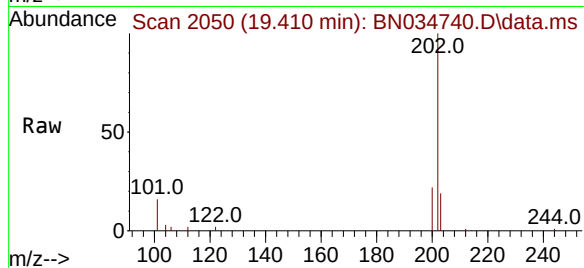
Tgt Ion:202 Resp: 8126

Ion Ratio Lower Upper

202 100

200 21.4 17.0 25.4

203 18.3 14.2 21.2



#31

Terphenyl-d14

Concen: 0.106 ng

RT: 19.628 min Scan# 2097

Delta R.T. 0.000 min

Lab File: BN034740.D

Acq: 30 Oct 2024 09:20

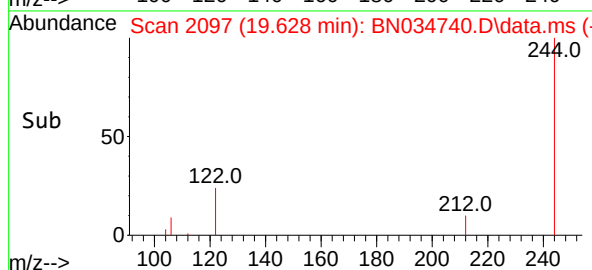
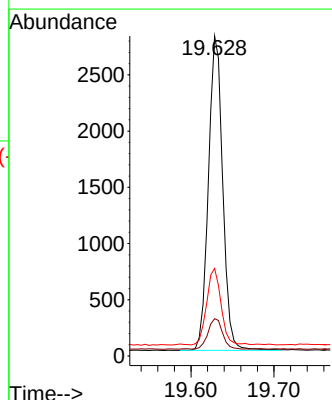
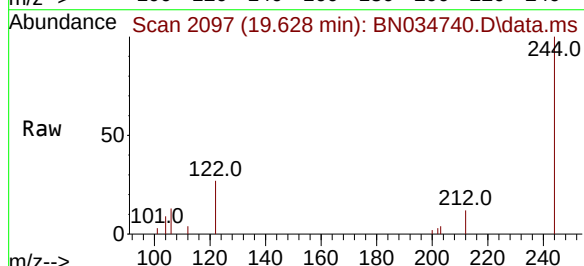
Tgt Ion:244 Resp: 3356

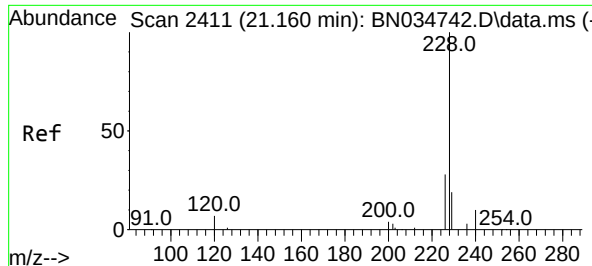
Ion Ratio Lower Upper

244 100

212 11.7 8.2 12.4

122 27.3 19.8 29.6





#32

Benzo(a)anthracene

Concen: 0.102 ng

RT: 21.160 min Scan# 2411

Delta R.T. 0.000 min

Lab File: BN034740.D

Acq: 30 Oct 2024 09:20

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

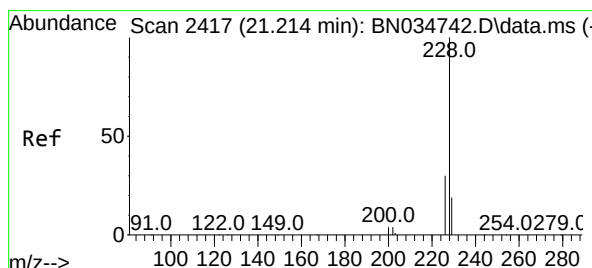
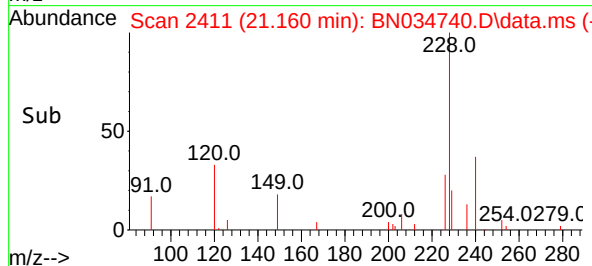
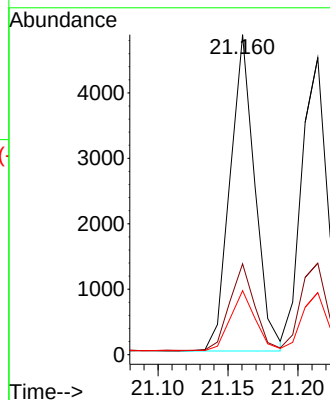
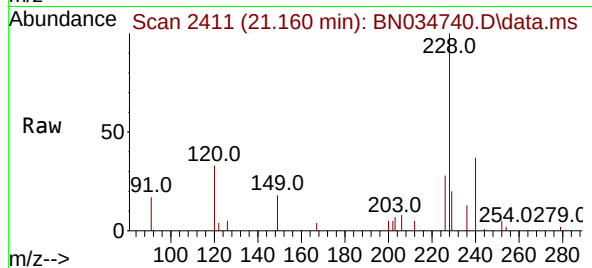
Tgt Ion:228 Resp: 5965

Ion Ratio Lower Upper

228 100

226 28.4 22.6 33.8

229 20.0 15.7 23.5



#33

Chrysene

Concen: 0.102 ng

RT: 21.214 min Scan# 2417

Delta R.T. 0.000 min

Lab File: BN034740.D

Acq: 30 Oct 2024 09:20

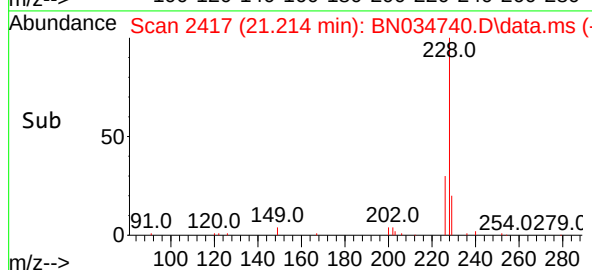
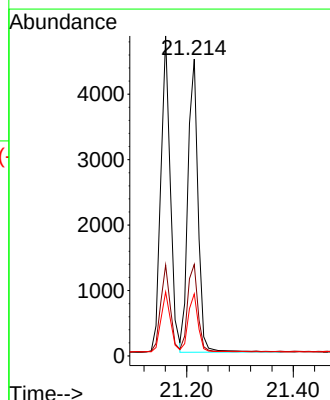
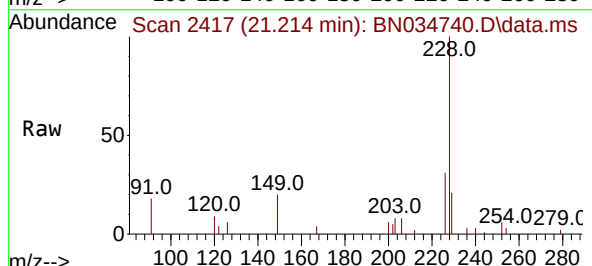
Tgt Ion:228 Resp: 5879

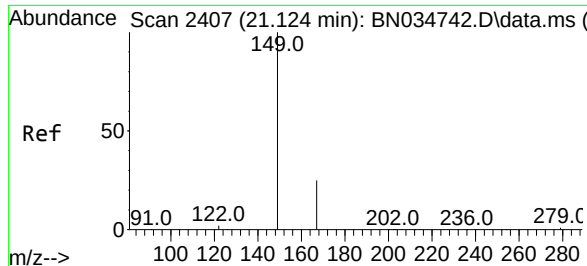
Ion Ratio Lower Upper

228 100

226 30.8 24.4 36.6

229 20.9 15.6 23.4

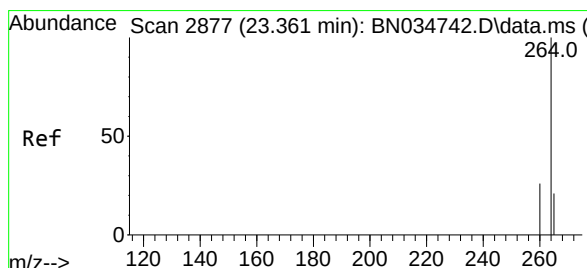
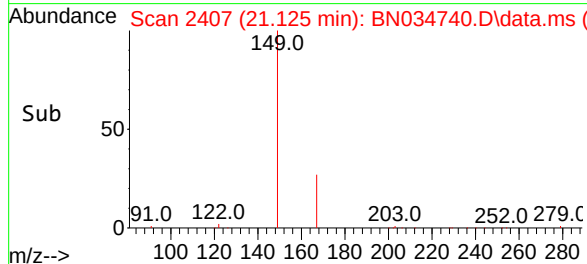
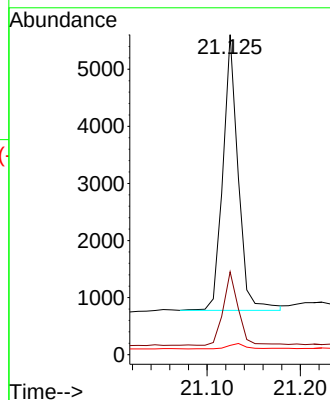
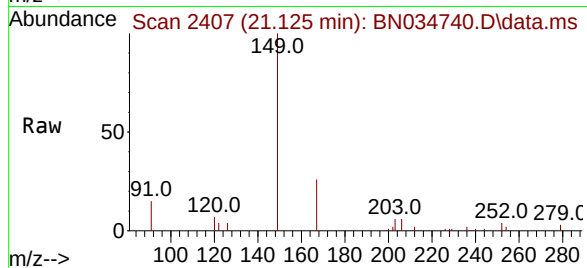




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.112 ng
RT: 21.125 min Scan# 2407
Delta R.T. 0.000 min
Lab File: BN034740.D
Acq: 30 Oct 2024 09:20

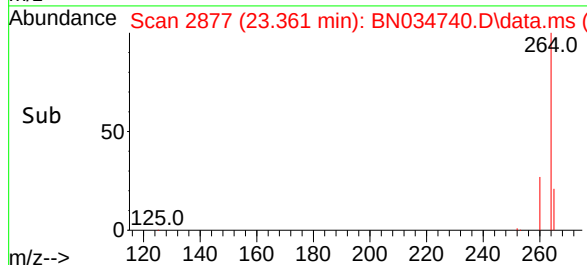
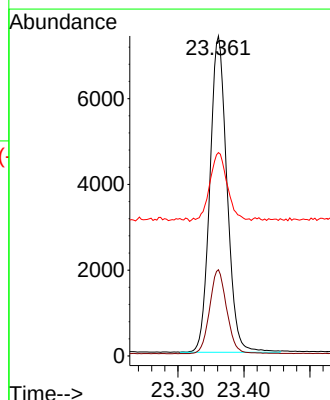
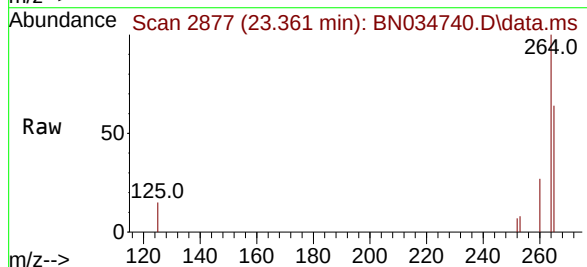
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

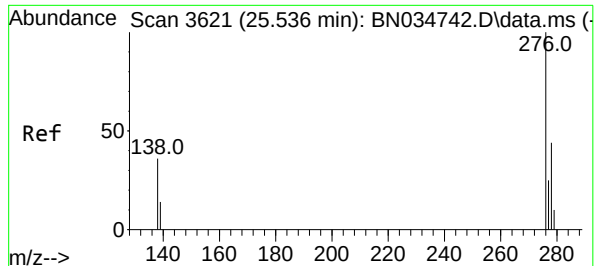
Tgt Ion:149 Resp: 5476
Ion Ratio Lower Upper
149 100
167 26.2 20.6 30.8
279 2.2 1.5 2.3



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.361 min Scan# 2877
Delta R.T. 0.000 min
Lab File: BN034740.D
Acq: 30 Oct 2024 09:20

Tgt Ion:264 Resp: 13293
Ion Ratio Lower Upper
264 100
260 27.0 21.5 32.3
265 63.5 47.5 71.3





#36

Indeno(1,2,3-cd)pyrene

Concen: 0.103 ng

RT: 25.537 min Scan# 3621

Delta R.T. 0.000 min

Lab File: BN034740.D

Acq: 30 Oct 2024 09:20

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

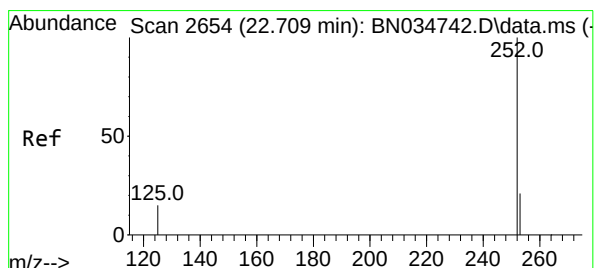
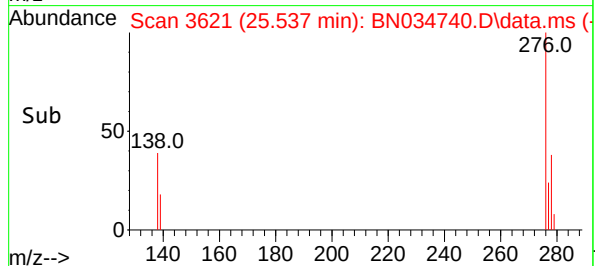
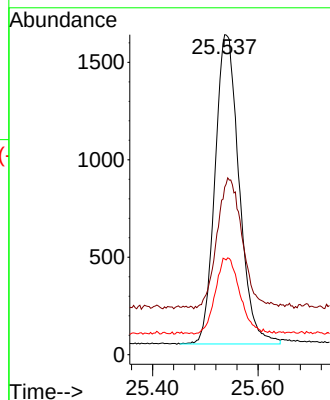
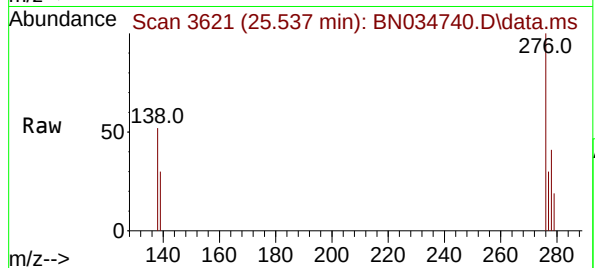
Tgt Ion:276 Resp: 5041

Ion Ratio Lower Upper

276 100

138 44.1 31.5 47.3

277 11.6 19.7 29.5#



#37

Benzo(b)fluoranthene

Concen: 0.099 ng

RT: 22.709 min Scan# 2654

Delta R.T. 0.000 min

Lab File: BN034740.D

Acq: 30 Oct 2024 09:20

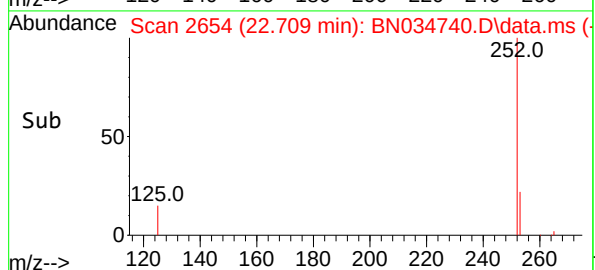
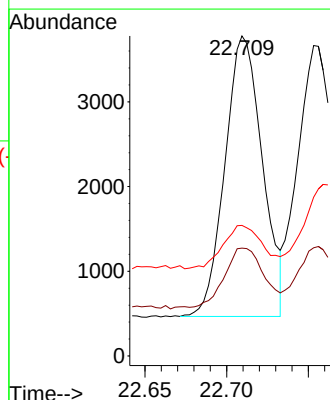
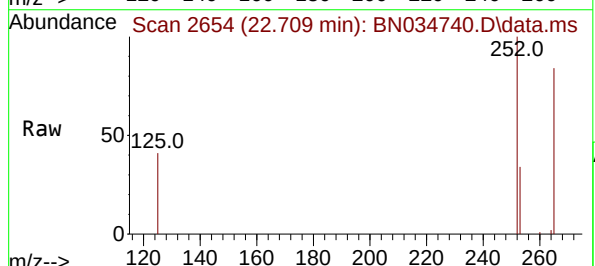
Tgt Ion:252 Resp: 5282

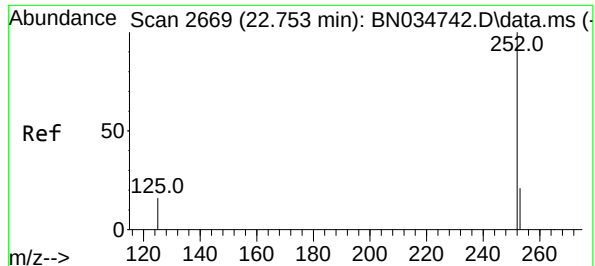
Ion Ratio Lower Upper

252 100

253 33.7 19.7 29.5#

125 40.8 17.1 25.7#





#38

Benzo(k)fluoranthene

Concen: 0.099 ng

RT: 22.753 min Scan# 2

Delta R.T. 0.000 min

Lab File: BN034740.D

Acq: 30 Oct 2024 09:20

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

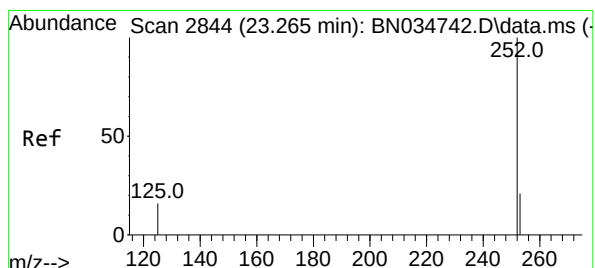
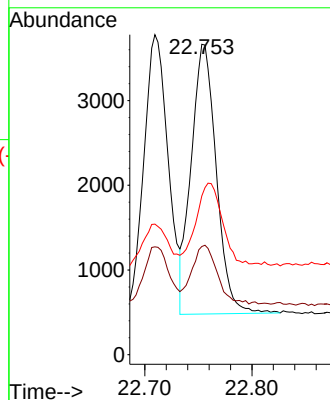
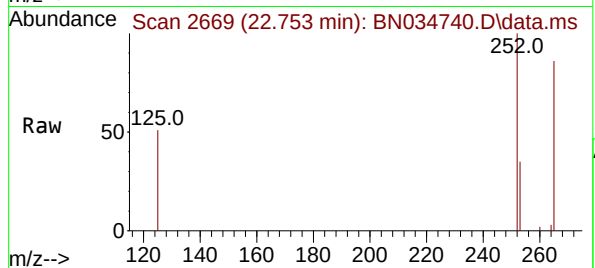
Tgt Ion:252 Resp: 5191

Ion Ratio Lower Upper

252 100

253 34.9 19.8 29.6#

125 51.1 18.2 27.2#



#39

Benzo(a)pyrene

Concen: 0.099 ng

RT: 23.268 min Scan# 2845

Delta R.T. 0.003 min

Lab File: BN034740.D

Acq: 30 Oct 2024 09:20

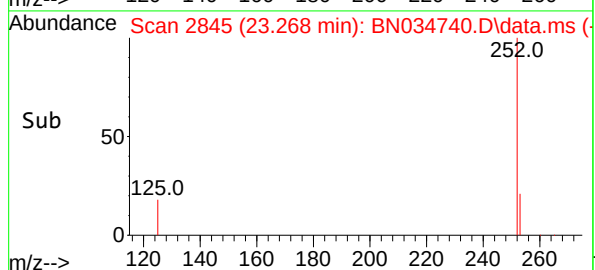
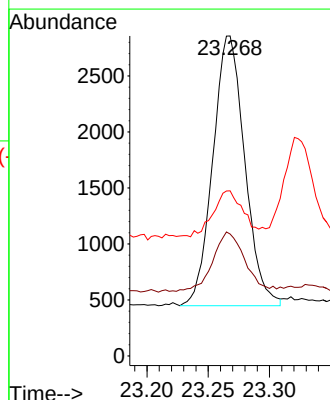
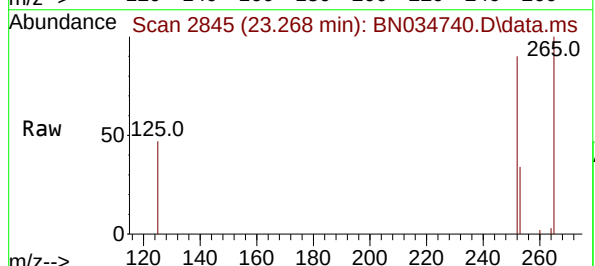
Tgt Ion:252 Resp: 4369

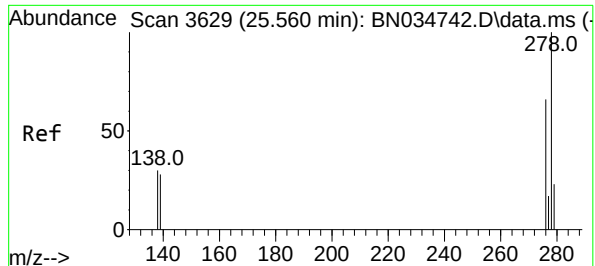
Ion Ratio Lower Upper

252 100

253 38.1 20.7 31.1#

125 51.6 20.3 30.5#





#40

Dibenzo(a,h)anthracene

Concen: 0.104 ng

RT: 25.560 min Scan# 3629

Delta R.T. 0.000 min

Lab File: BN034740.D

Acq: 30 Oct 2024 09:20

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

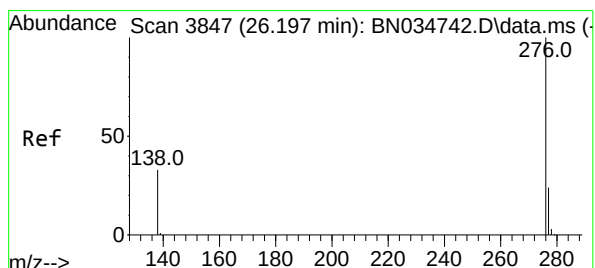
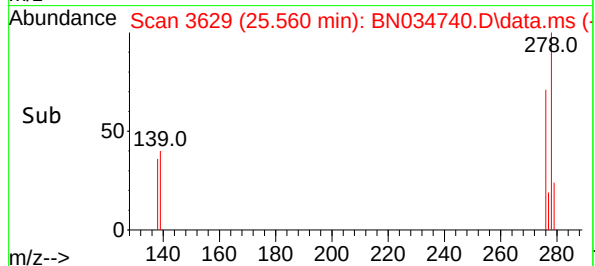
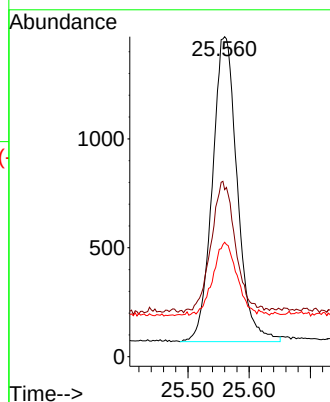
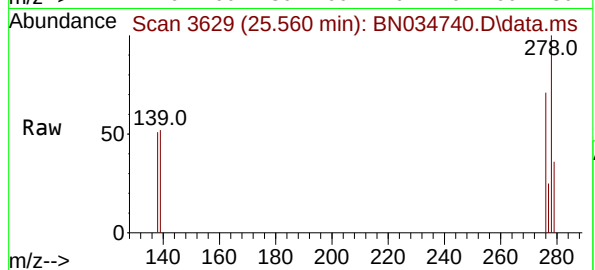
Tgt Ion:278 Resp: 3951

Ion Ratio Lower Upper

278 100

139 52.2 24.9 37.3#

279 35.7 21.0 31.4#



#41

Benzo(g,h,i)perylene

Concen: 0.105 ng

RT: 26.197 min Scan# 3847

Delta R.T. 0.000 min

Lab File: BN034740.D

Acq: 30 Oct 2024 09:20

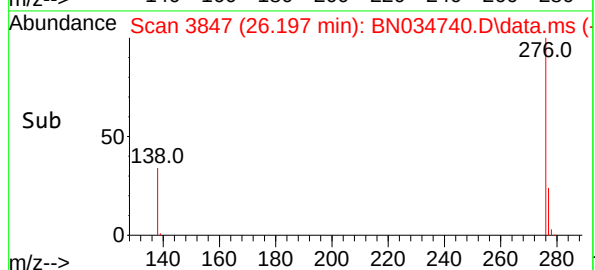
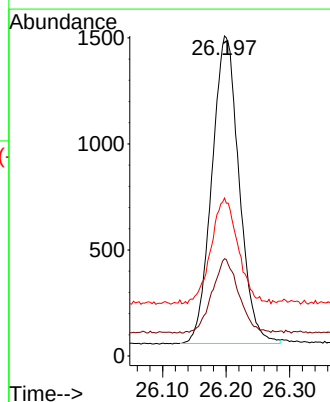
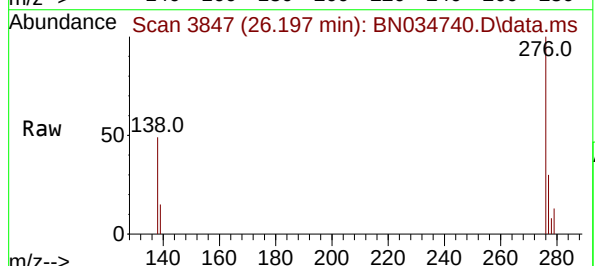
Tgt Ion:276 Resp: 4327

Ion Ratio Lower Upper

276 100

277 30.4 20.2 30.2#

138 49.4 28.7 43.1#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN103024\
 Data File : BN034741.D
 Acq On : 30 Oct 2024 09:56
 Operator : RC/JU
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

Quant Time: Oct 30 13:31:55 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 30 13:28:24 2024
 Response via : Initial Calibration

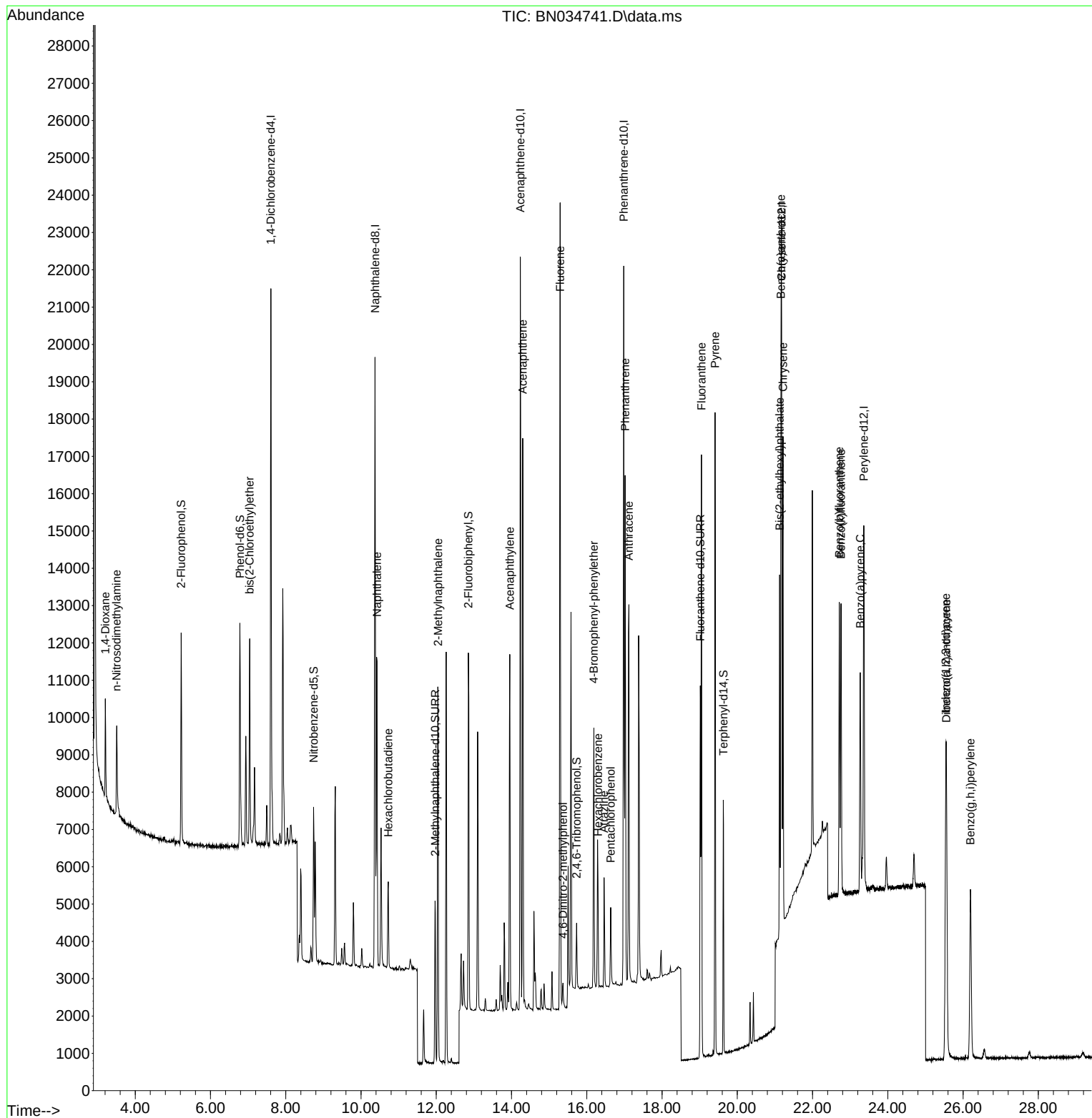
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.604	152	6983	0.400	ng	0.00
7) Naphthalene-d8	10.372	136	20698	0.400	ng	0.00
13) Acenaphthene-d10	14.233	164	10998	0.400	ng	0.00
19) Phenanthrene-d10	16.982	188	22797	0.400	ng	0.00
29) Chrysene-d12	21.178	240	13184	0.400	ng	0.00
35) Perylene-d12	23.361	264	12265	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.221	112	4312	0.204	ng	0.00
5) Phenol-d6	6.781	99	5560	0.202	ng	0.00
8) Nitrobenzene-d5	8.739	82	3152	0.194	ng	0.00
11) 2-Methylnaphthalene-d10	11.969	152	5800	0.194	ng	0.00
14) 2,4,6-Tribromophenol	15.729	330	981	0.181	ng	0.00
15) 2-Fluorobiphenyl	12.854	172	8685	0.200	ng	-0.01
27) Fluoranthene-d10	19.015	212	10060	0.188	ng	0.00
31) Terphenyl-d14	19.629	244	5727	0.202	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.206	88	1539	0.201	ng	99
3) n-Nitrosodimethylamine	3.502	42	1688	0.196	ng	98
6) bis(2-Chloroethyl)ether	7.041	93	3960	0.197	ng	100
9) Naphthalene	10.426	128	11339	0.198	ng	98
10) Hexachlorobutadiene	10.725	225	1887	0.200	ng	# 99
12) 2-Methylnaphthalene	12.045	142	7323	0.196	ng	98
16) Acenaphthylene	13.955	152	10758	0.195	ng	100
17) Acenaphthene	14.297	154	7103	0.193	ng	99
18) Fluorene	15.291	166	8950	0.195	ng	99
20) 4,6-Dinitro-2-methylph...	15.366	198	490	0.292	ng	# 42
21) 4-Bromophenyl-phenylether	16.188	248	2662	0.202	ng	97
22) Hexachlorobenzene	16.300	284	2986	0.202	ng	99
23) Atrazine	16.461	200	2167	0.191	ng	97
24) Pentachlorophenol	16.635	266	1008	0.159	ng	96
25) Phenanthrene	17.019	178	13315	0.199	ng	99
26) Anthracene	17.119	178	12243	0.195	ng	100
28) Fluoranthene	19.048	202	13922	0.188	ng	100
30) Pyrene	19.410	202	14157	0.205	ng	100
32) Benzo(a)anthracene	21.161	228	10110	0.193	ng	100
33) Chrysene	21.214	228	10033	0.195	ng	99
34) Bis(2-ethylhexyl)phtha...	21.125	149	8191	0.187	ng	99
36) Indeno(1,2,3-cd)pyrene	25.543	276	9518	0.211	ng	98
37) Benzo(b)fluoranthene	22.712	252	9196	0.186	ng	# 87
38) Benzo(k)fluoranthene	22.756	252	9145	0.190	ng	# 82
39) Benzo(a)pyrene	23.268	252	7834	0.192	ng	# 84
40) Dibenzo(a,h)anthracene	25.557	278	7423	0.211	ng	# 88
41) Benzo(g,h,i)perylene	26.197	276	8184	0.215	ng	95

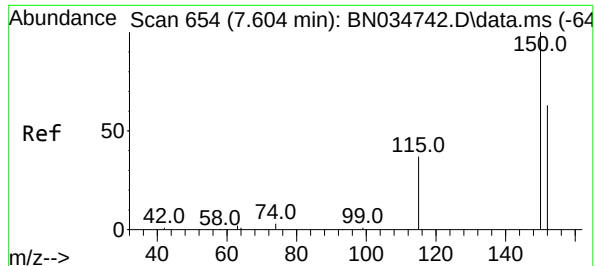
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN034741.D
Acq On : 30 Oct 2024 09:56
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Oct 30 13:31:55 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 30 13:28:24 2024
Response via : Initial Calibration

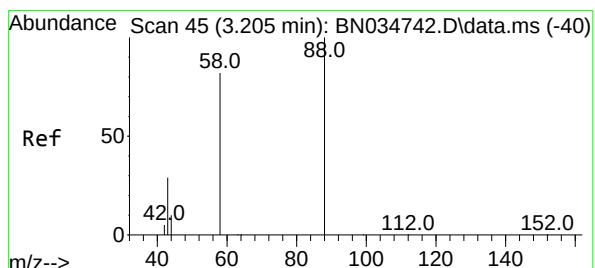
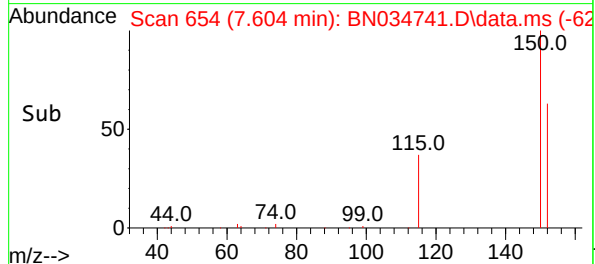
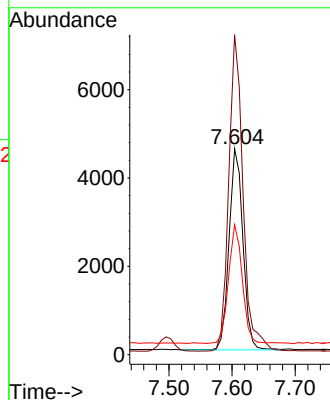
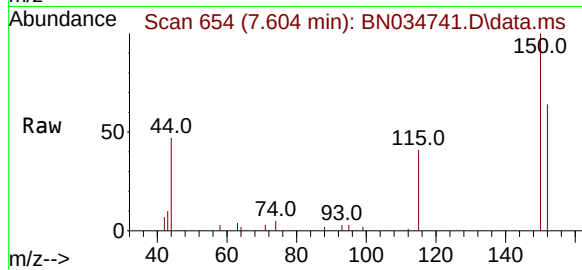




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.604 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN034741.D
Acq: 30 Oct 2024 09:56

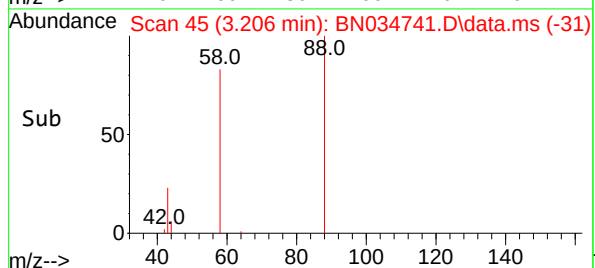
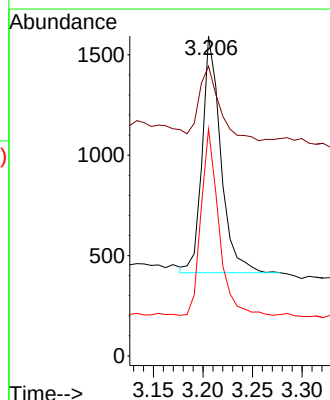
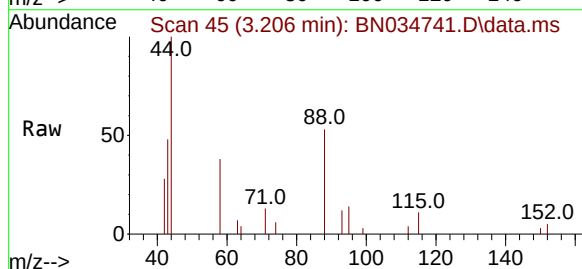
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

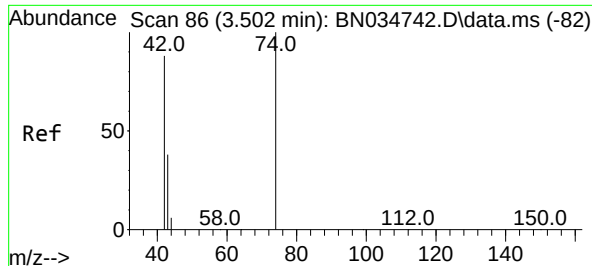
Tgt Ion:152 Resp: 6983
Ion Ratio Lower Upper
152 100
150 155.4 124.9 187.3
115 63.1 50.2 75.2



#2
1,4-Dioxane
Concen: 0.201 ng
RT: 3.206 min Scan# 45
Delta R.T. 0.000 min
Lab File: BN034741.D
Acq: 30 Oct 2024 09:56

Tgt Ion: 88 Resp: 1539
Ion Ratio Lower Upper
88 100
43 33.0 26.7 40.1
58 75.1 59.3 88.9

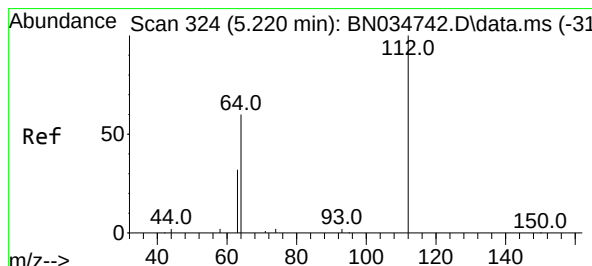
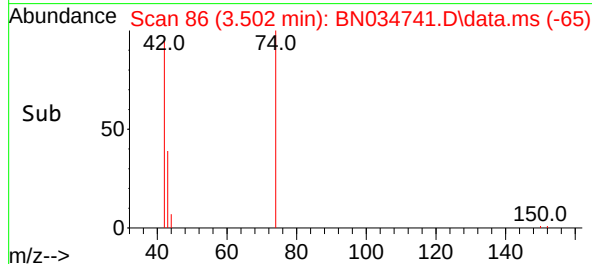
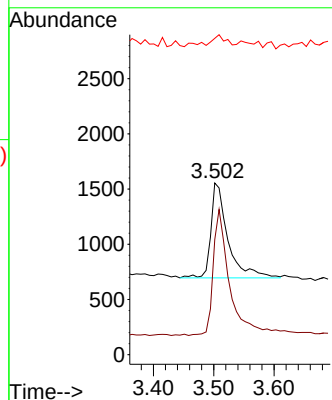
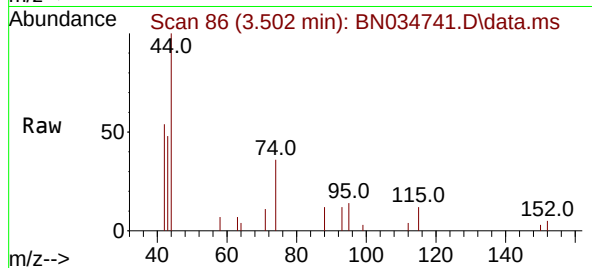




#3
n-Nitrosodimethylamine
Concen: 0.196 ng
RT: 3.502 min Scan# 86
Delta R.T. 0.000 min
Lab File: BN034741.D
Acq: 30 Oct 2024 09:56

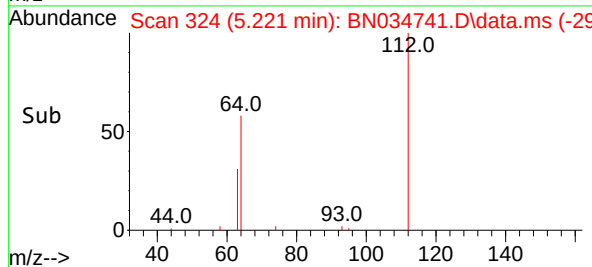
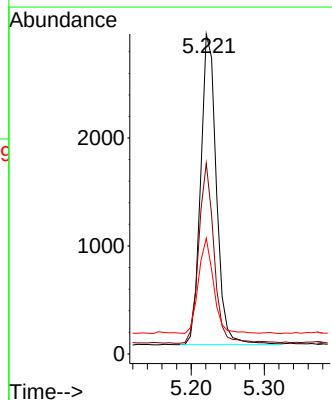
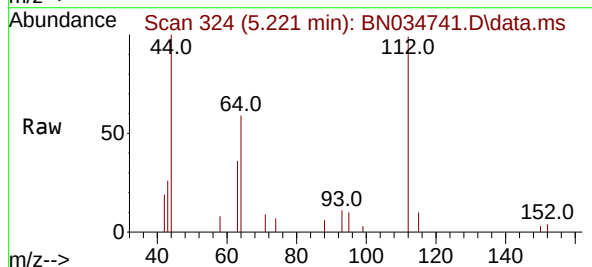
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BNA_N
ClientSampleId :
SSTDICC0.2

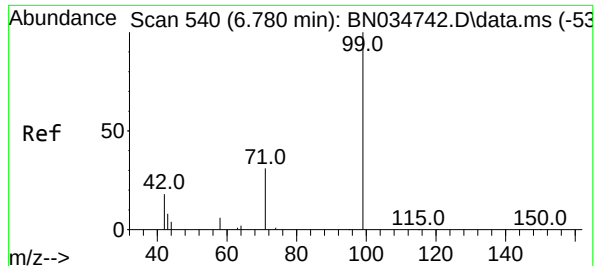
Tgt Ion: 42 Resp: 1688
Ion Ratio Lower Upper
42 100
74 131.2 103.1 154.7
44 9.5 6.7 10.1



#4
2-Fluorophenol
Concen: 0.204 ng
RT: 5.221 min Scan# 324
Delta R.T. 0.000 min
Lab File: BN034741.D
Acq: 30 Oct 2024 09:56

Tgt Ion: 112 Resp: 4312
Ion Ratio Lower Upper
112 100
64 56.3 44.9 67.3
63 28.8 23.5 35.3

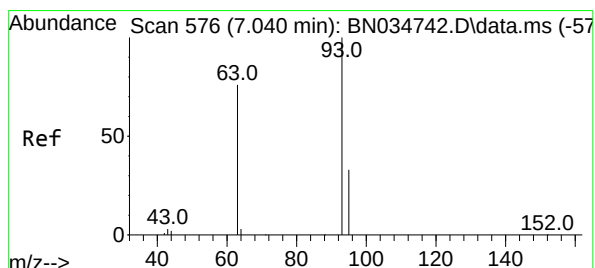
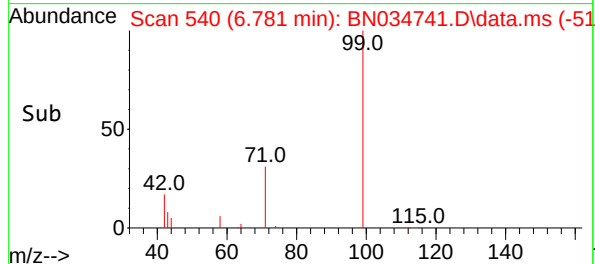
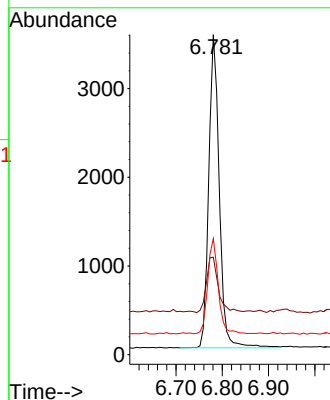
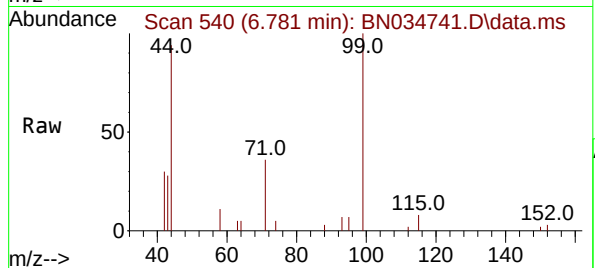




#5
Phenol-d6
Concen: 0.202 ng
RT: 6.781 min Scan# 540
Delta R.T. 0.000 min
Lab File: BN034741.D
Acq: 30 Oct 2024 09:56

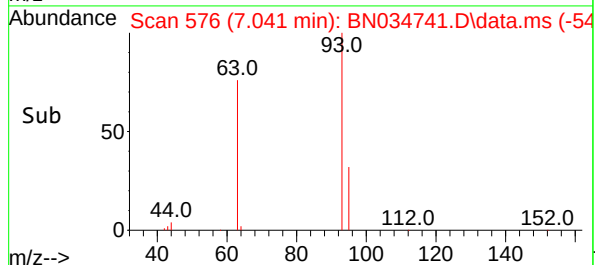
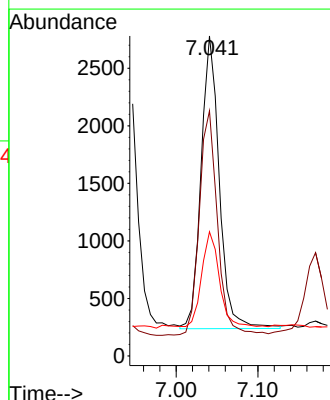
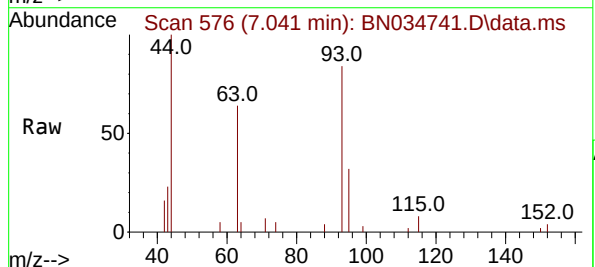
Instrument :
BNA_N
ClientSampleId :
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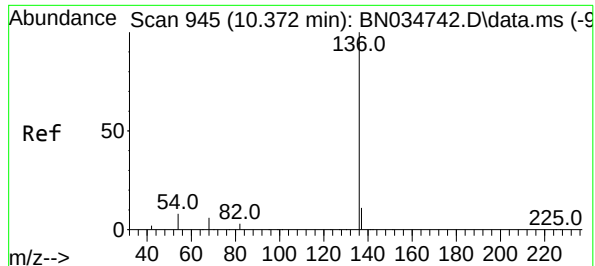
Tgt Ion: 99 Resp: 5560
Ion Ratio Lower Upper
99 100
42 20.1 15.9 23.9
71 30.2 24.3 36.5



#6
bis(2-Chloroethyl)ether
Concen: 0.197 ng
RT: 7.041 min Scan# 576
Delta R.T. 0.000 min
Lab File: BN034741.D
Acq: 30 Oct 2024 09:56

Tgt Ion: 93 Resp: 3960
Ion Ratio Lower Upper
93 100
63 76.6 61.2 91.8
95 32.2 25.8 38.8

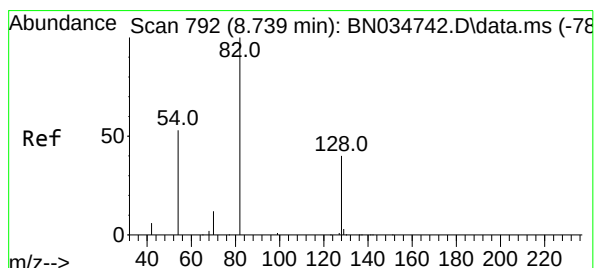
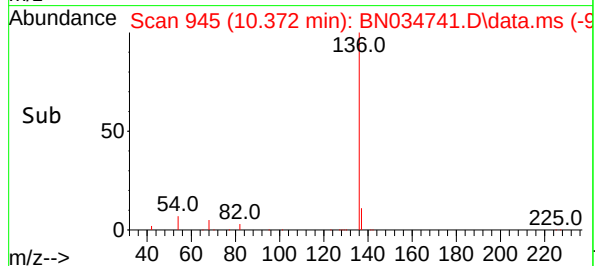
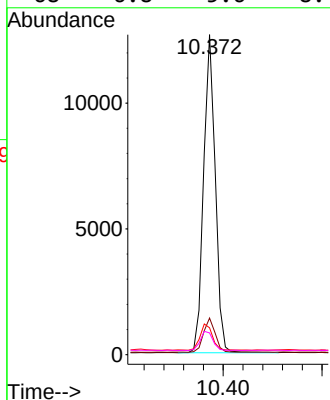
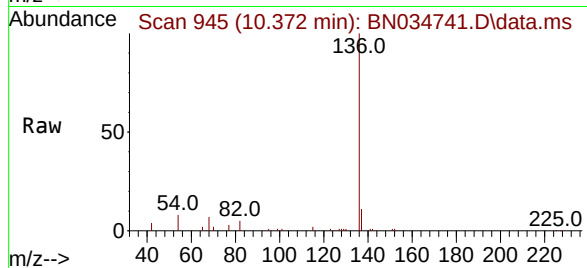




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.372 min Scan# 945
Delta R.T. 0.000 min
Lab File: BN034741.D
Acq: 30 Oct 2024 09:56

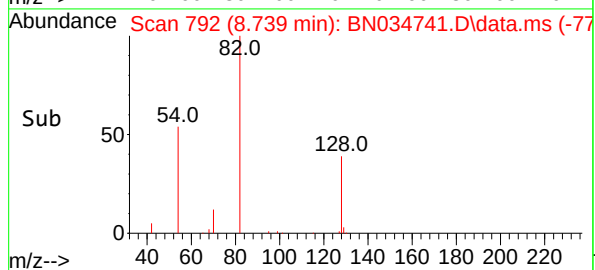
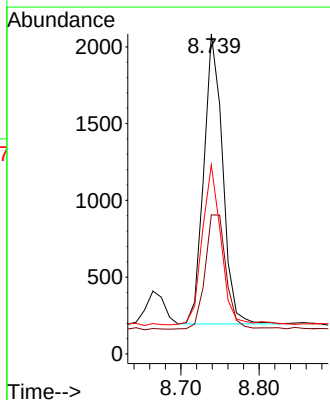
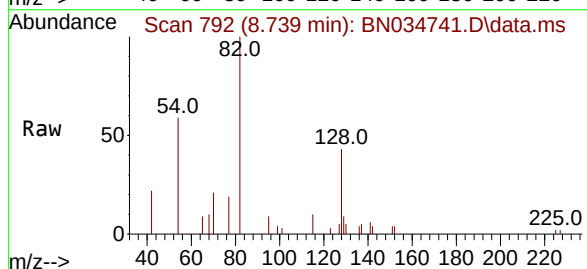
Instrument :
BNA_N
ClientSampleId :
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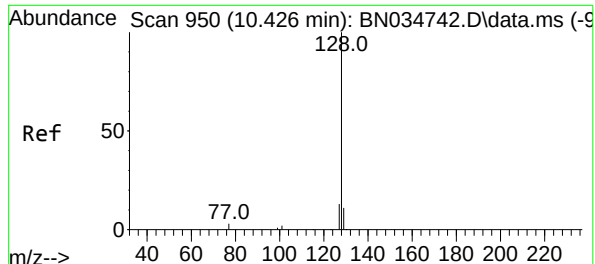
Tgt Ion:	136	Resp:	20698
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.2	13.8
54	8.4	7.0	10.4
68	6.8	5.6	8.4



#8
Nitrobenzene-d5
Concen: 0.194 ng
RT: 8.739 min Scan# 792
Delta R.T. 0.000 min
Lab File: BN034741.D
Acq: 30 Oct 2024 09:56

Tgt Ion:	82	Resp:	3152
Ion	Ratio	Lower	Upper
82	100		
128	43.4	33.7	50.5
54	59.1	44.4	66.6





#9

Naphthalene

Concen: 0.198 ng

RT: 10.426 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN034741.D

Acq: 30 Oct 2024 09:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

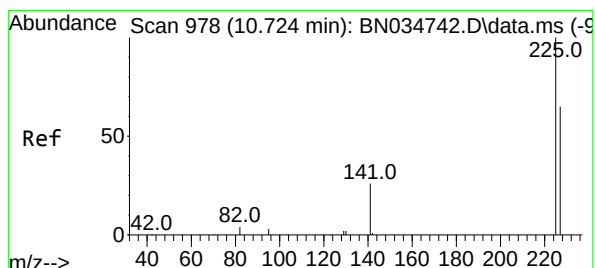
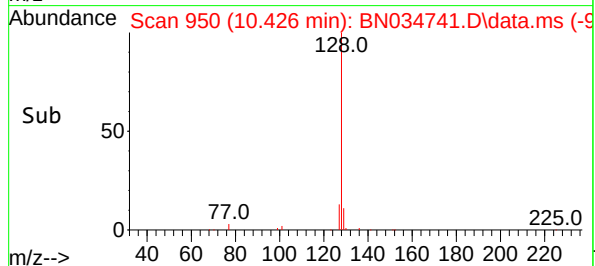
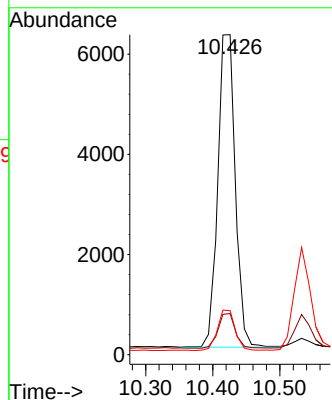
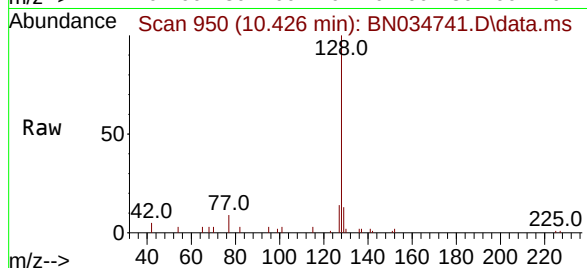
Tgt Ion:128 Resp: 11339

Ion Ratio Lower Upper

128 100

129 12.9 9.4 14.0

127 13.7 10.6 15.8



#10

Hexachlorobutadiene

Concen: 0.200 ng

RT: 10.725 min Scan# 978

Delta R.T. 0.000 min

Lab File: BN034741.D

Acq: 30 Oct 2024 09:56

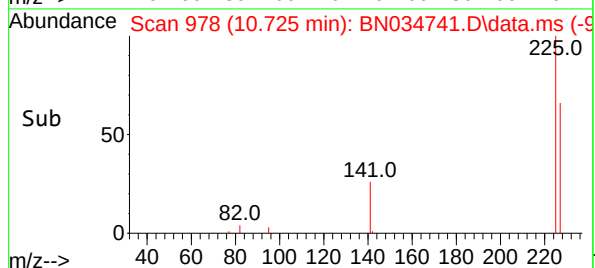
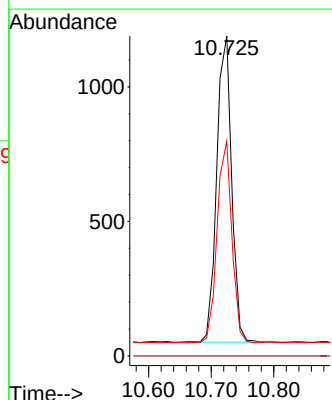
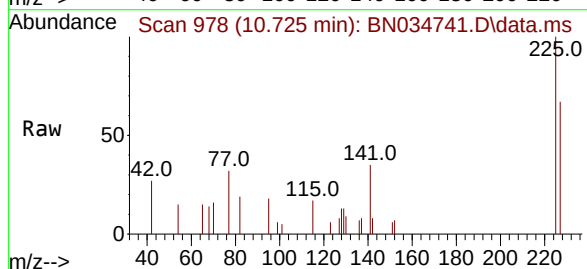
Tgt Ion:225 Resp: 1887

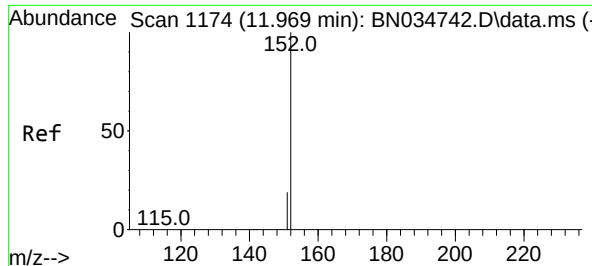
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 65.0 51.4 77.2

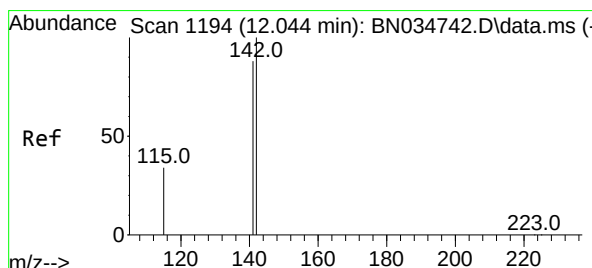
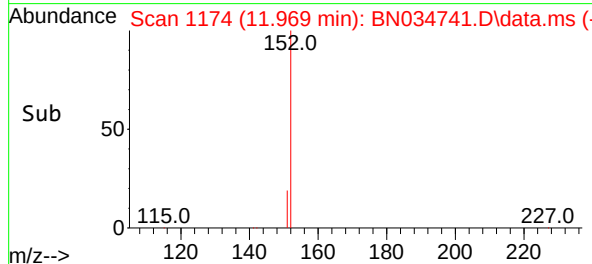
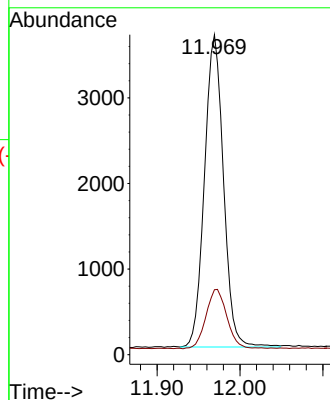
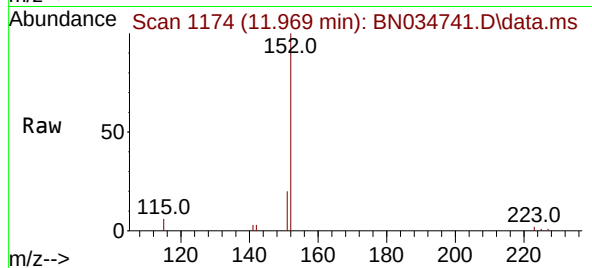




#11
2-Methylnaphthalene-d10
Concen: 0.194 ng
RT: 11.969 min Scan# 1174
Delta R.T. 0.000 min
Lab File: BN034741.D
Acq: 30 Oct 2024 09:56

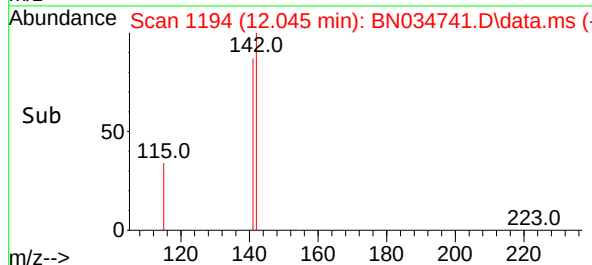
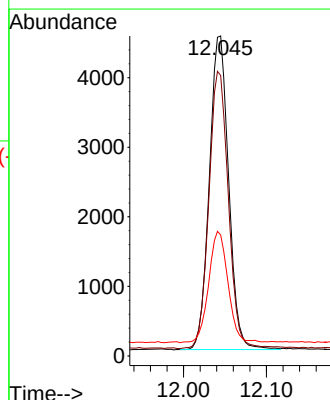
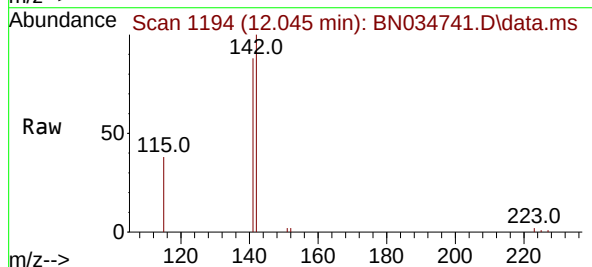
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

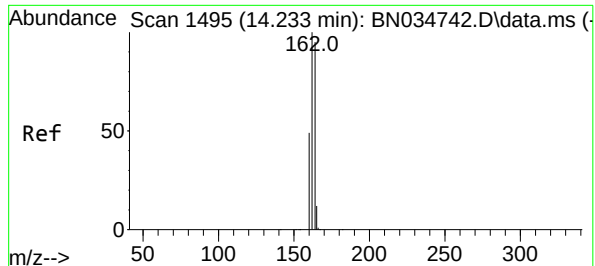
Tgt Ion:152 Resp: 5800
Ion Ratio Lower Upper
152 100
151 20.9 16.6 24.8



#12
2-Methylnaphthalene
Concen: 0.196 ng
RT: 12.045 min Scan# 1194
Delta R.T. 0.000 min
Lab File: BN034741.D
Acq: 30 Oct 2024 09:56

Tgt Ion:142 Resp: 7323
Ion Ratio Lower Upper
142 100
141 87.6 70.6 106.0
115 37.8 28.6 42.8

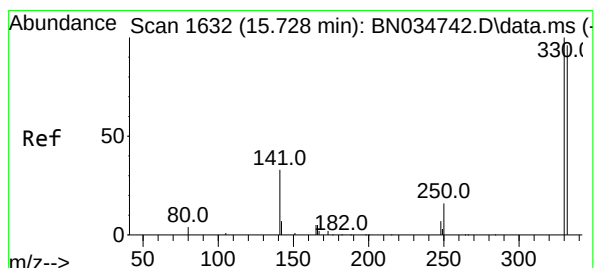
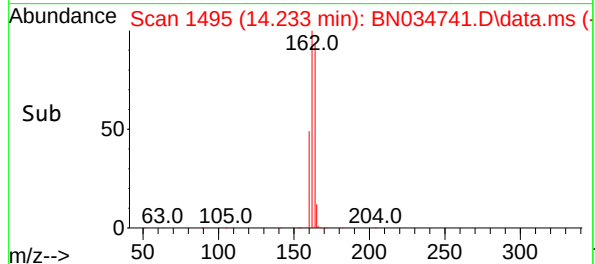
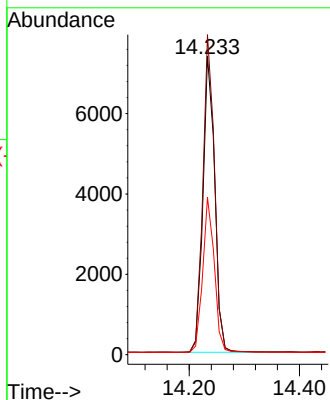
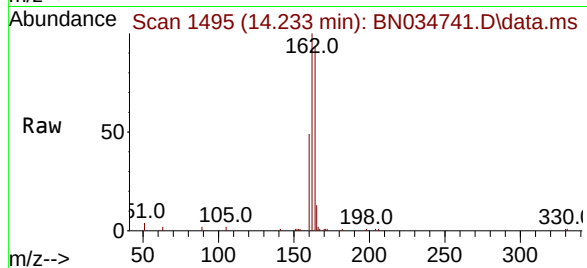




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.233 min Scan# 1495
Delta R.T. 0.000 min
Lab File: BN034741.D
Acq: 30 Oct 2024 09:56

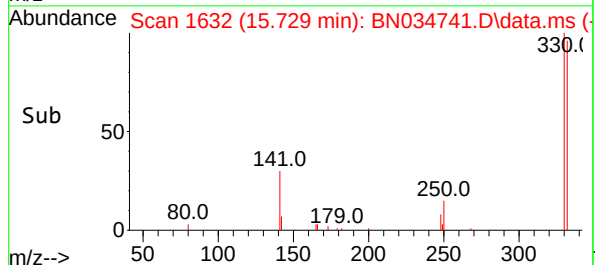
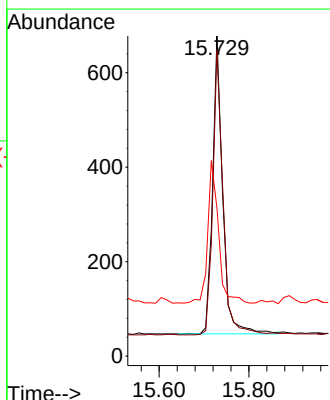
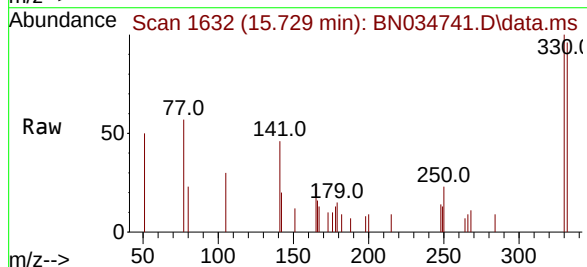
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

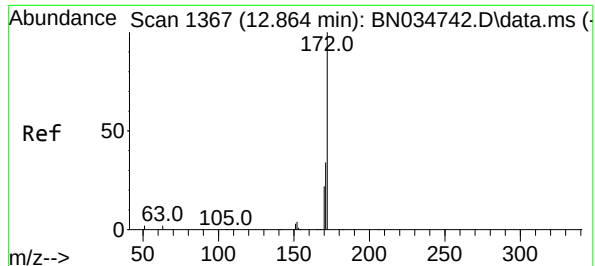
Tgt Ion:164 Resp: 10998
Ion Ratio Lower Upper
164 100
162 107.1 84.3 126.5
160 52.6 41.7 62.5



#14
2,4,6-Tribromophenol
Concen: 0.181 ng
RT: 15.729 min Scan# 1632
Delta R.T. 0.000 min
Lab File: BN034741.D
Acq: 30 Oct 2024 09:56

Tgt Ion:330 Resp: 981
Ion Ratio Lower Upper
330 100
332 96.8 77.8 116.6
141 50.6 41.0 61.4

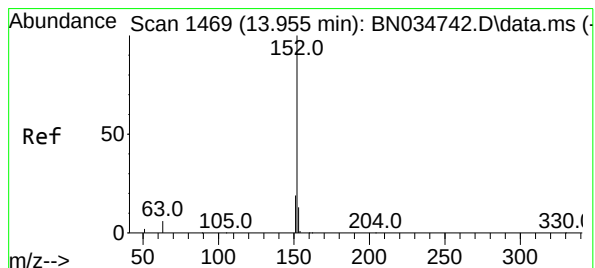
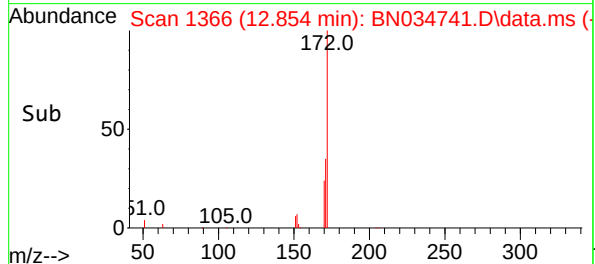
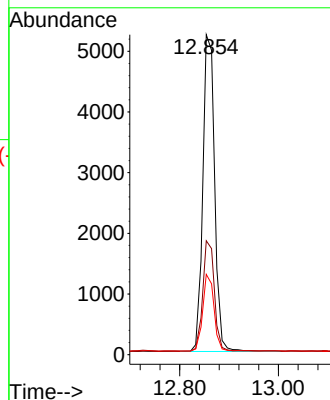
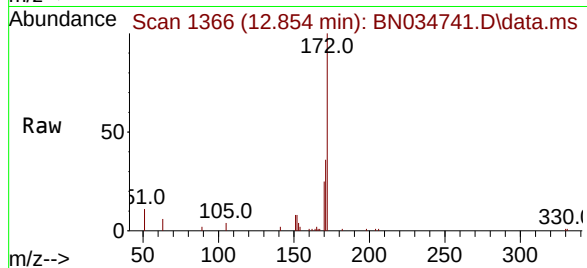




#15
2-Fluorobiphenyl
Concen: 0.200 ng
RT: 12.854 min Scan# 1366
Delta R.T. -0.010 min
Lab File: BN034741.D
Acq: 30 Oct 2024 09:56

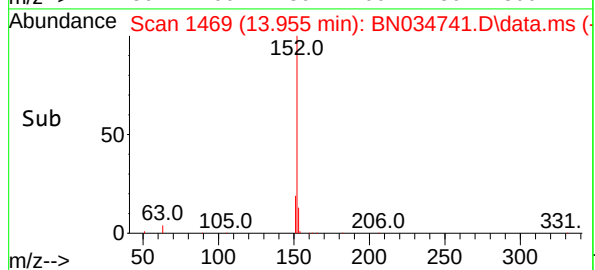
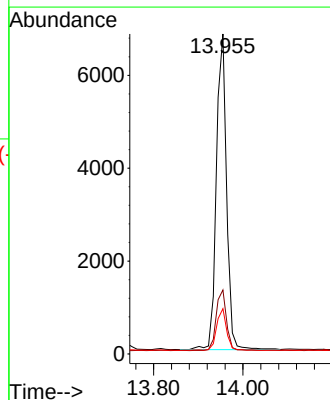
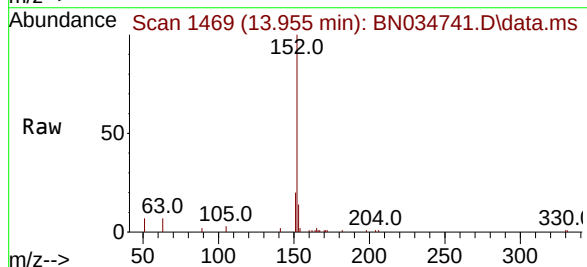
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

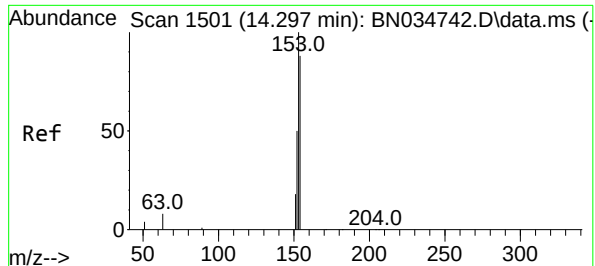
Tgt Ion:172 Resp: 8685
Ion Ratio Lower Upper
172 100
171 35.6 27.2 40.8
170 25.1 18.0 27.0



#16
Acenaphthylene
Concen: 0.195 ng
RT: 13.955 min Scan# 1469
Delta R.T. 0.000 min
Lab File: BN034741.D
Acq: 30 Oct 2024 09:56

Tgt Ion:152 Resp: 10758
Ion Ratio Lower Upper
152 100
151 19.3 15.4 23.2
153 13.0 10.2 15.4

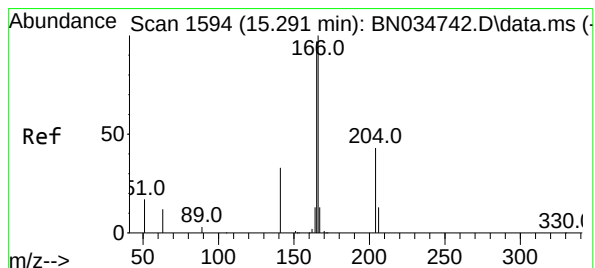
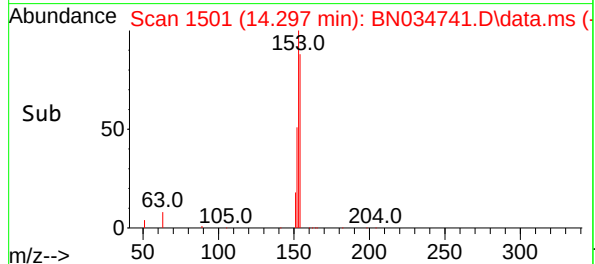
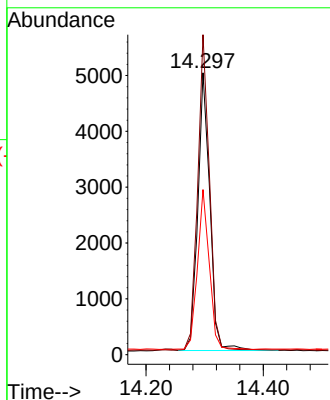
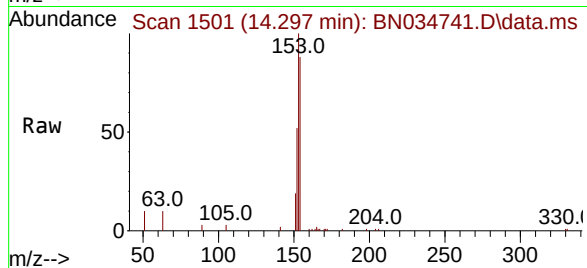




#17
Acenaphthene
Concen: 0.193 ng
RT: 14.297 min Scan# 1501
Delta R.T. 0.000 min
Lab File: BN034741.D
Acq: 30 Oct 2024 09:56

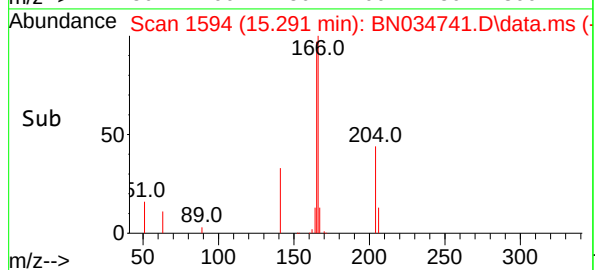
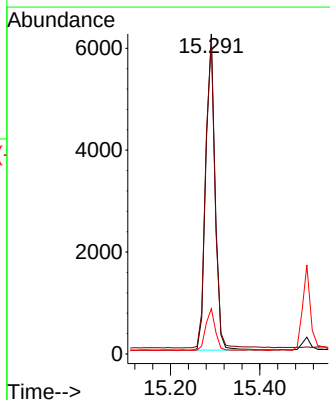
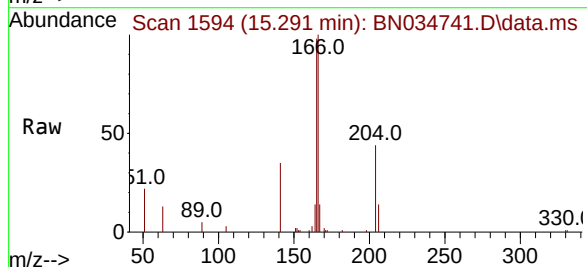
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

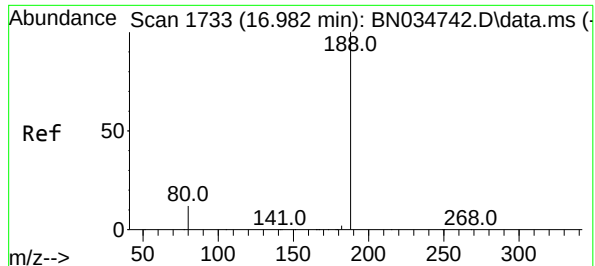
Tgt Ion:154 Resp: 7103
Ion Ratio Lower Upper
154 100
153 111.4 87.8 131.6
152 56.7 44.6 67.0



#18
Fluorene
Concen: 0.195 ng
RT: 15.291 min Scan# 1594
Delta R.T. 0.000 min
Lab File: BN034741.D
Acq: 30 Oct 2024 09:56

Tgt Ion:166 Resp: 8950
Ion Ratio Lower Upper
166 100
165 98.8 78.5 117.7
167 13.8 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.982 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN034741.D

Acq: 30 Oct 2024 09:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

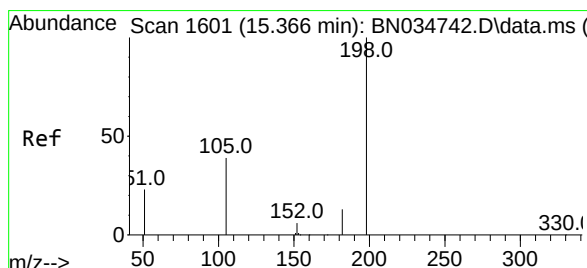
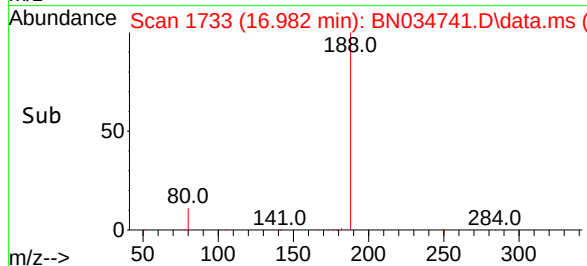
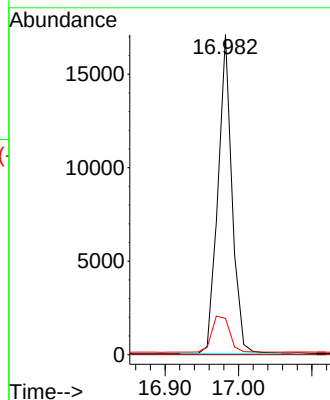
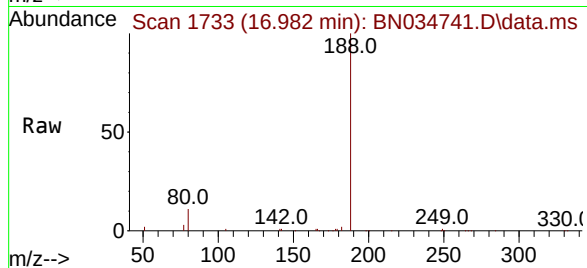
Tgt Ion:188 Resp: 22797

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.4 9.8 14.6



#20

4,6-Dinitro-2-methylphenol

Concen: 0.292 ng

RT: 15.366 min Scan# 1601

Delta R.T. 0.000 min

Lab File: BN034741.D

Acq: 30 Oct 2024 09:56

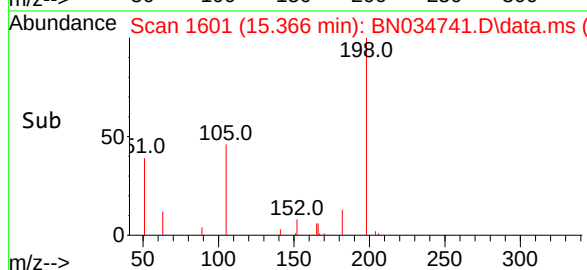
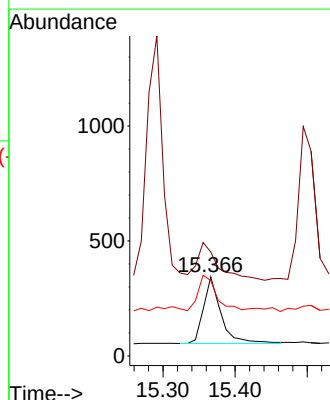
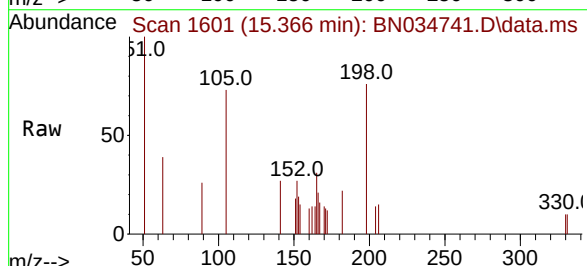
Tgt Ion:198 Resp: 490

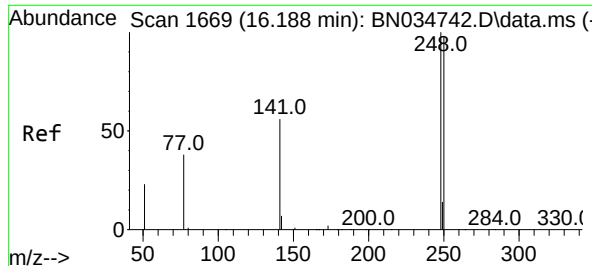
Ion Ratio Lower Upper

198 100

51 131.4 58.0 87.0#

105 95.3 49.1 73.7#

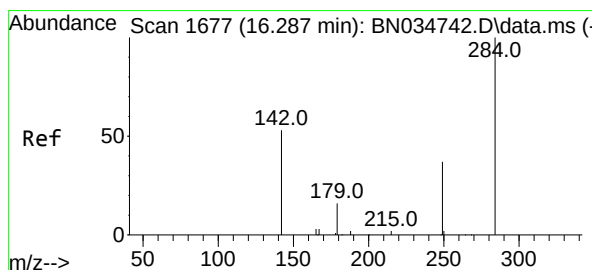
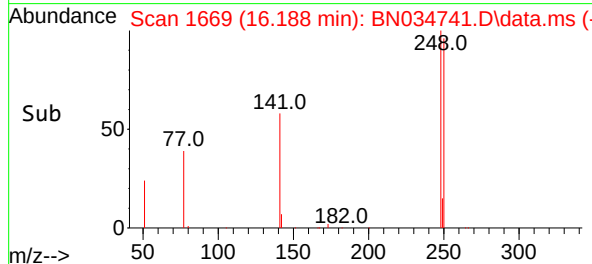
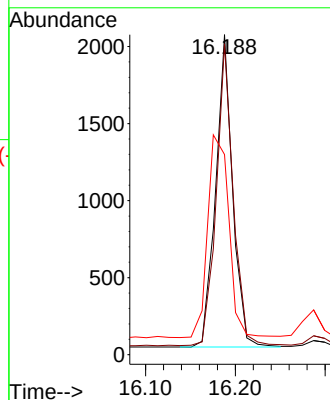
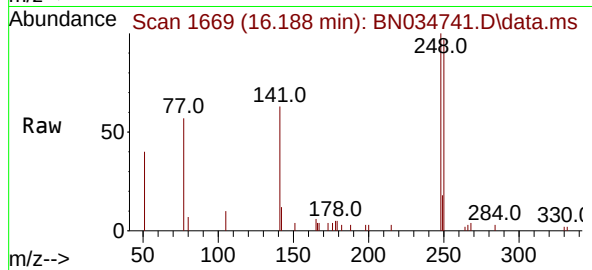




#21
4-Bromophenyl-phenylether
Concen: 0.202 ng
RT: 16.188 min Scan# 1669
Delta R.T. 0.000 min
Lab File: BN034741.D
Acq: 30 Oct 2024 09:56

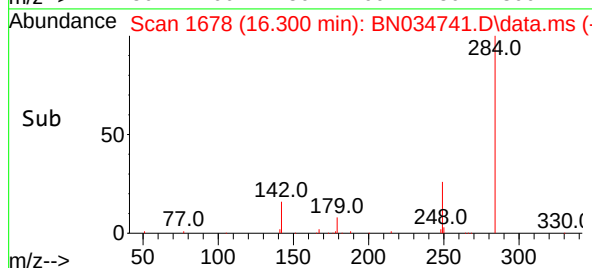
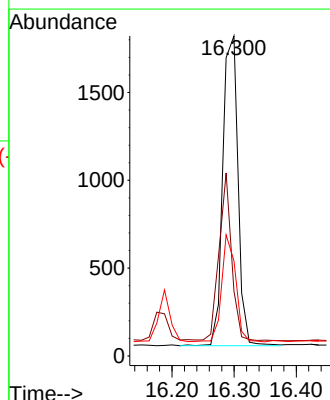
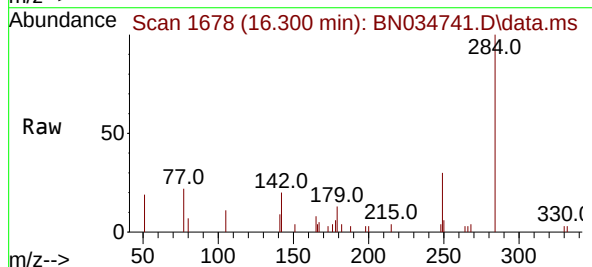
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

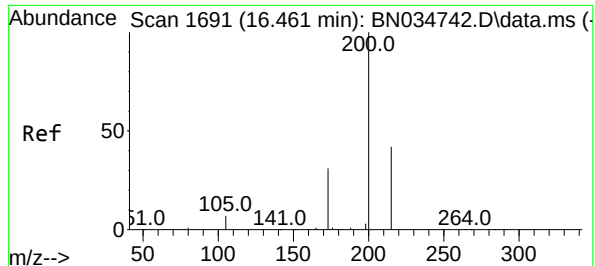
Tgt Ion	Ratio	Lower	Upper
248	100		
250	97.2	78.7	118.1
141	62.5	46.4	69.6



#22
Hexachlorobenzene
Concen: 0.202 ng
RT: 16.300 min Scan# 1678
Delta R.T. 0.013 min
Lab File: BN034741.D
Acq: 30 Oct 2024 09:56

Tgt Ion	Ratio	Lower	Upper
284	100		
142	44.9	35.4	53.0
249	32.0	25.7	38.5

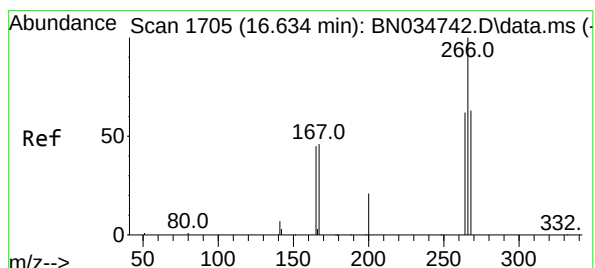
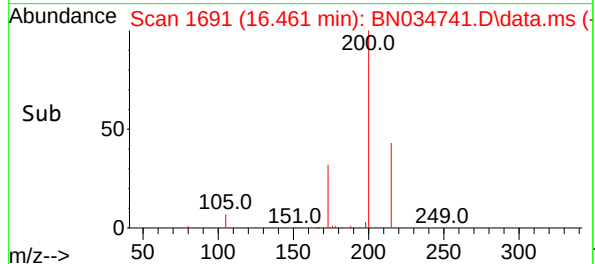
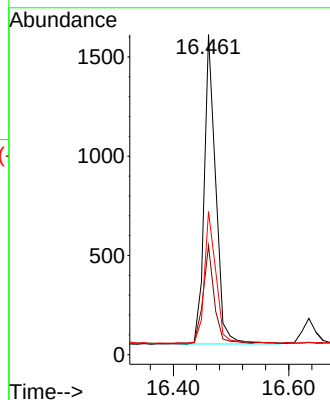
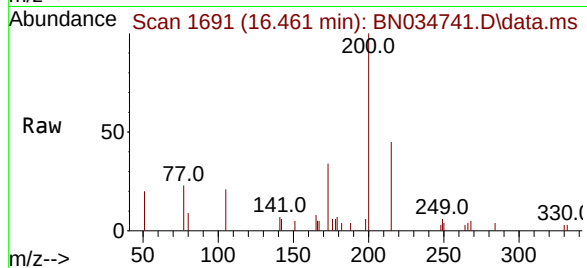




#23
Atrazine
Concen: 0.191 ng
RT: 16.461 min Scan# 1691
Delta R.T. 0.000 min
Lab File: BN034741.D
Acq: 30 Oct 2024 09:56

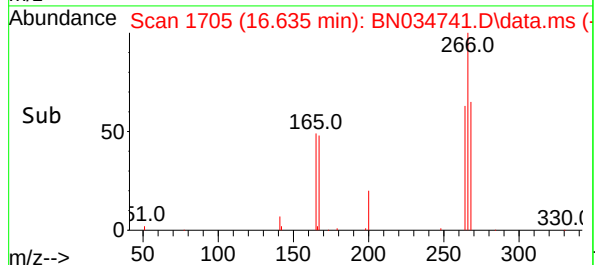
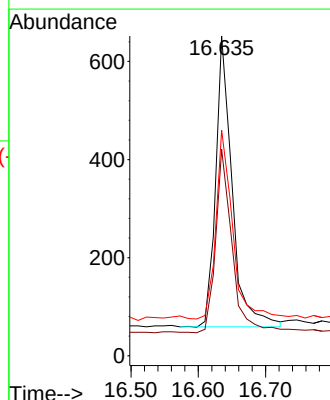
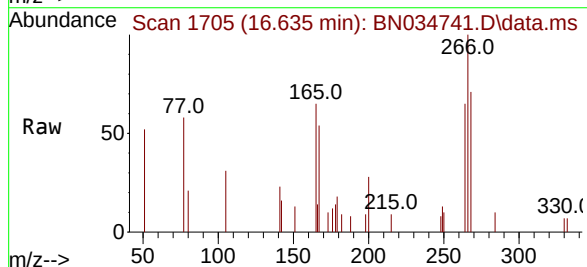
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

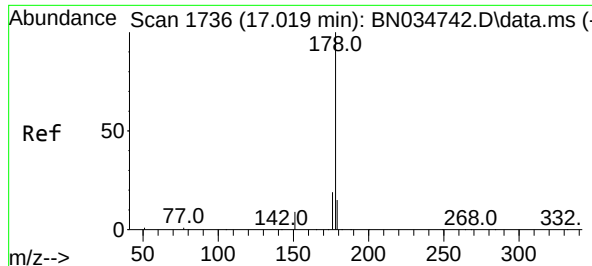
Tgt Ion	Ratio	Lower	Upper
200	100		
173	34.1	25.8	38.6
215	44.7	34.2	51.4



#24
Pentachlorophenol
Concen: 0.159 ng
RT: 16.635 min Scan# 1705
Delta R.T. 0.001 min
Lab File: BN034741.D
Acq: 30 Oct 2024 09:56

Tgt Ion	Ratio	Lower	Upper
266	100		
264	63.5	48.7	73.1
268	67.1	50.2	75.4





#25

Phenanthrene

Concen: 0.199 ng

RT: 17.019 min Scan# 1736

Delta R.T. 0.000 min

Lab File: BN034741.D

Acq: 30 Oct 2024 09:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

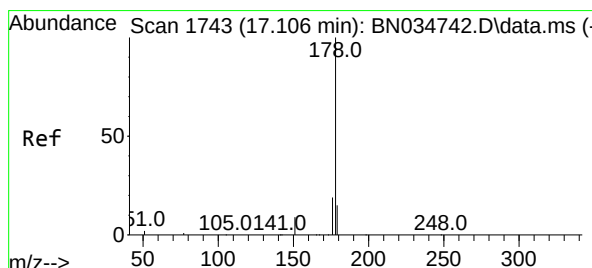
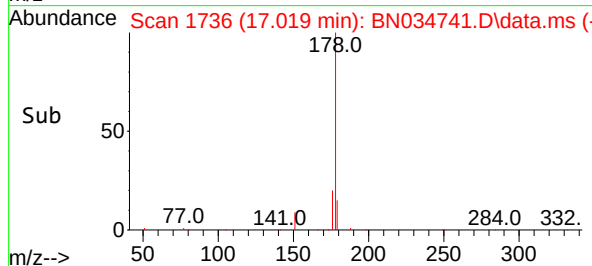
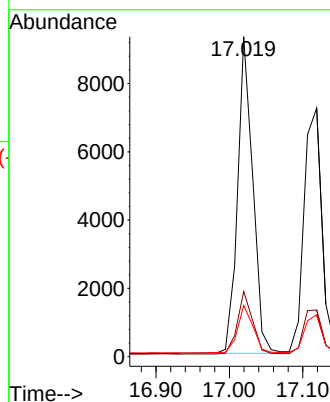
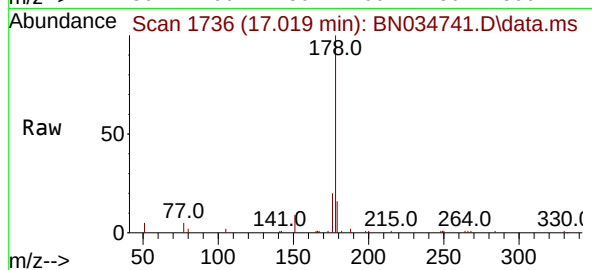
Tgt Ion:178 Resp: 13315

Ion Ratio Lower Upper

178 100

176 19.8 15.4 23.0

179 15.3 12.2 18.4



#26

Anthracene

Concen: 0.195 ng

RT: 17.119 min Scan# 1744

Delta R.T. 0.013 min

Lab File: BN034741.D

Acq: 30 Oct 2024 09:56

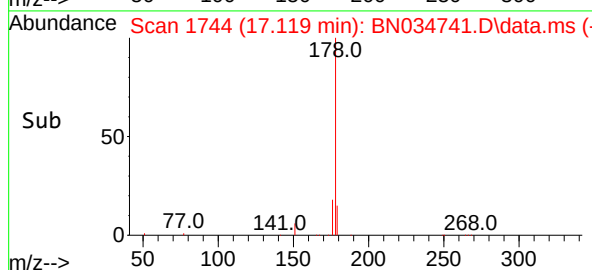
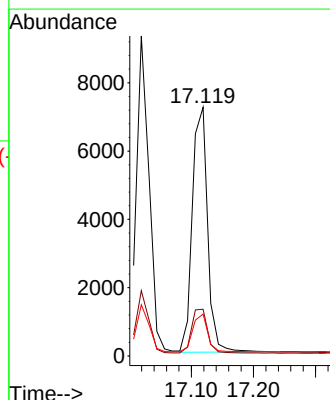
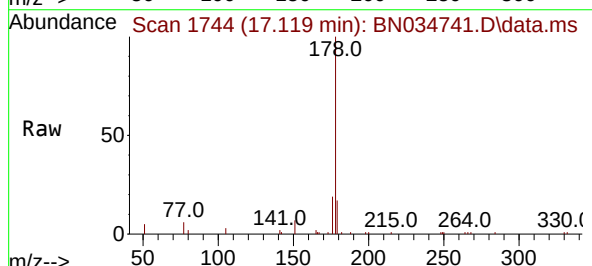
Tgt Ion:178 Resp: 12243

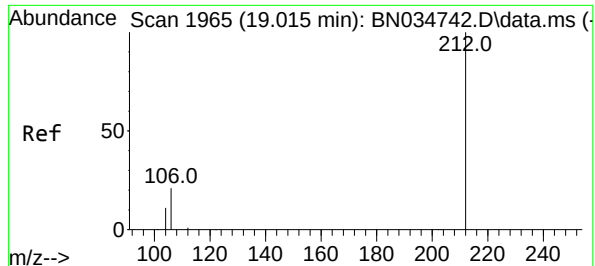
Ion Ratio Lower Upper

178 100

176 19.0 15.0 22.6

179 15.4 12.2 18.2





#27

Fluoranthene-d10

Concen: 0.188 ng

RT: 19.015 min Scan# 1965

Delta R.T. 0.000 min

Lab File: BN034741.D

Acq: 30 Oct 2024 09:56

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

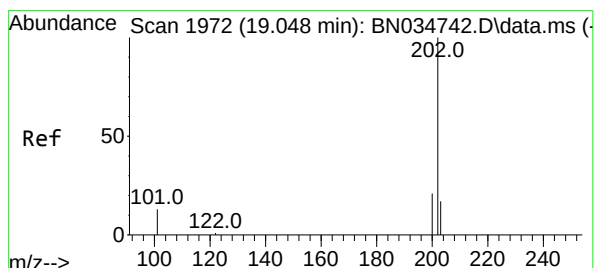
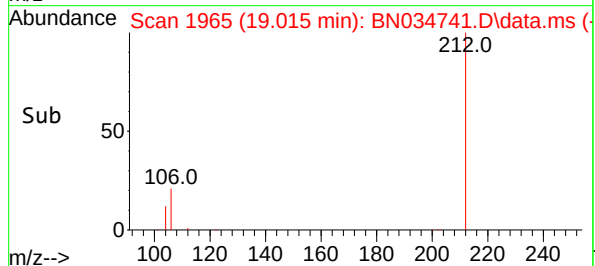
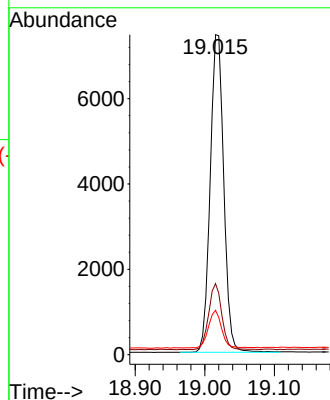
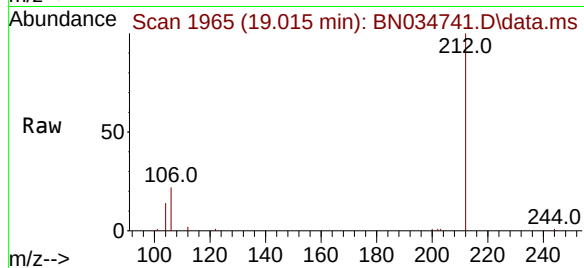
Tgt Ion:212 Resp: 10060

Ion Ratio Lower Upper

212 100

106 20.1 16.1 24.1

104 11.5 9.2 13.8



#28

Fluoranthene

Concen: 0.188 ng

RT: 19.048 min Scan# 1972

Delta R.T. 0.000 min

Lab File: BN034741.D

Acq: 30 Oct 2024 09:56

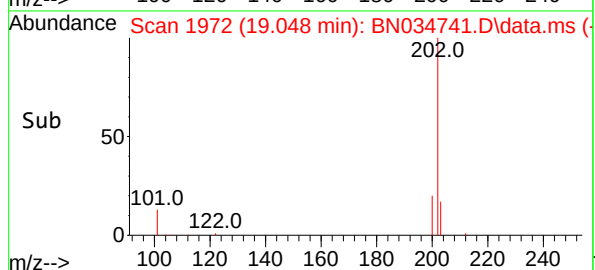
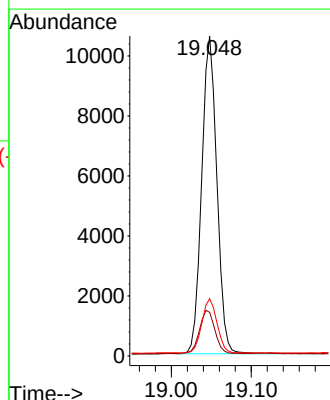
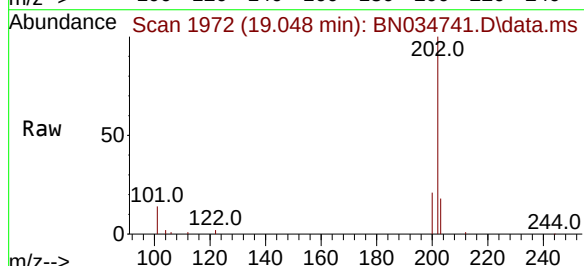
Tgt Ion:202 Resp: 13922

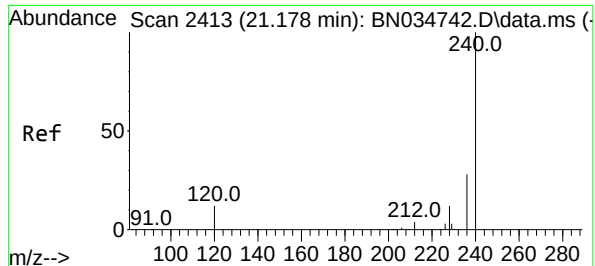
Ion Ratio Lower Upper

202 100

101 14.2 11.4 17.0

203 17.0 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.178 min Scan# 2413

Delta R.T. 0.000 min

Lab File: BN034741.D

Acq: 30 Oct 2024 09:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

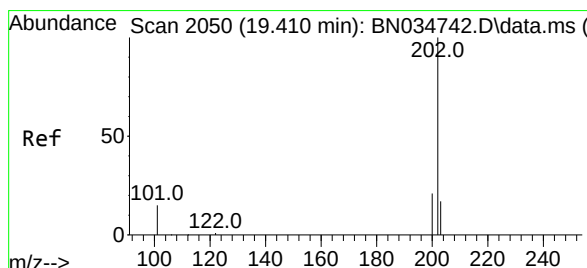
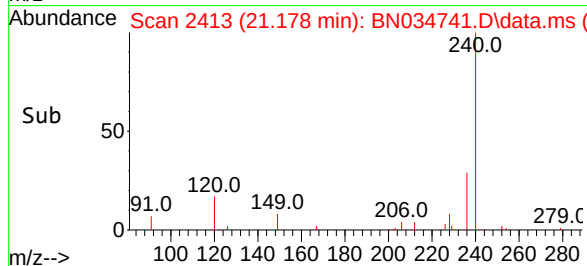
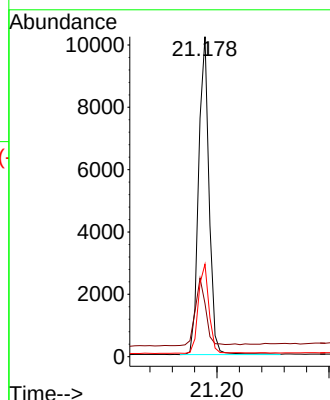
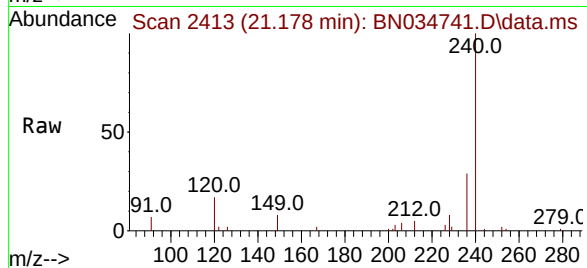
Tgt Ion:240 Resp: 13184

Ion Ratio Lower Upper

240 100

120 16.6 11.5 17.3

236 28.9 23.2 34.8



#30

Pyrene

Concen: 0.205 ng

RT: 19.410 min Scan# 2050

Delta R.T. 0.000 min

Lab File: BN034741.D

Acq: 30 Oct 2024 09:56

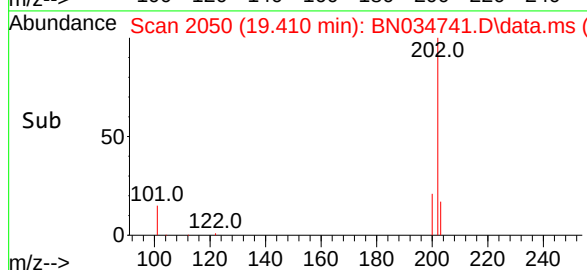
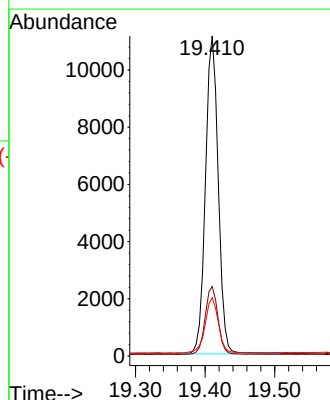
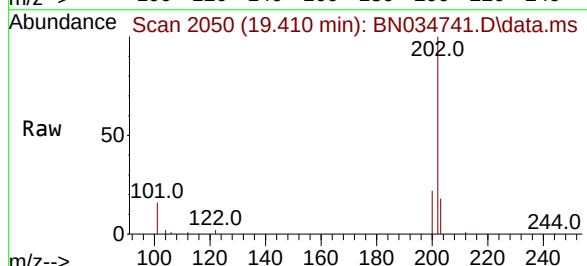
Tgt Ion:202 Resp: 14157

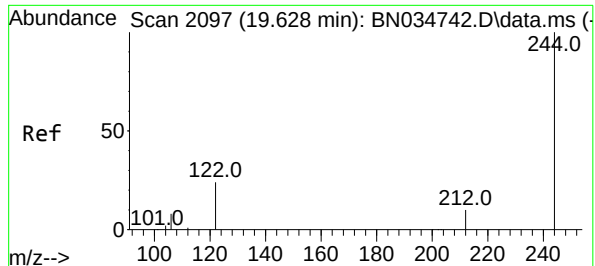
Ion Ratio Lower Upper

202 100

200 21.2 17.0 25.4

203 18.1 14.2 21.2

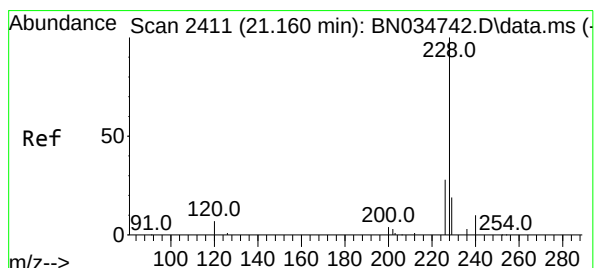
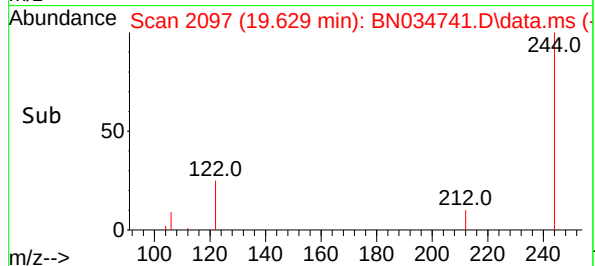
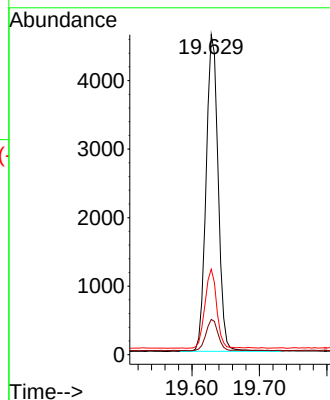
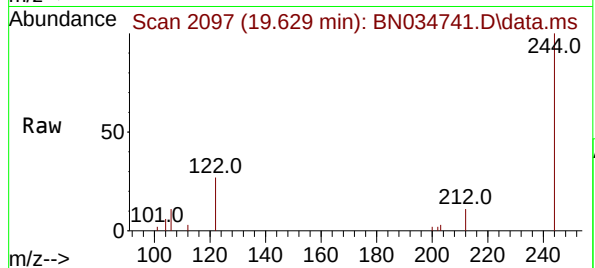




#31
Terphenyl-d14
Concen: 0.202 ng
RT: 19.629 min Scan# 2097
Delta R.T. 0.000 min
Lab File: BN034741.D
Acq: 30 Oct 2024 09:56

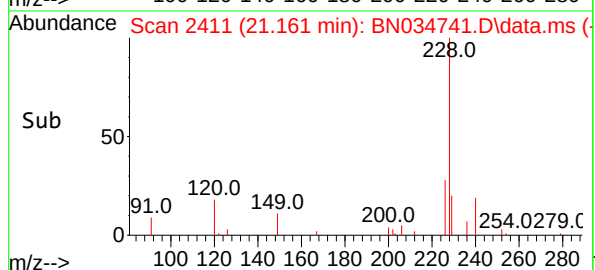
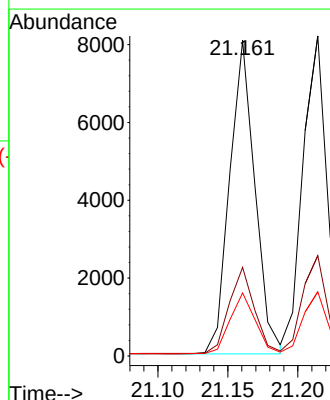
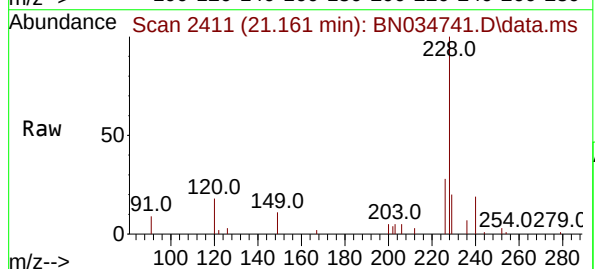
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

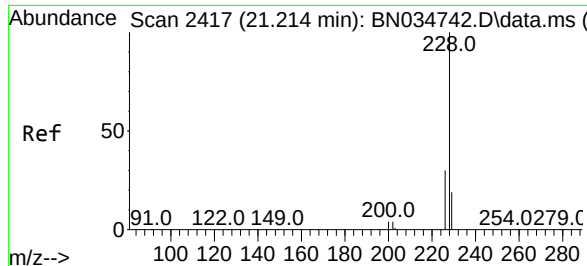
Tgt Ion:244 Resp: 5727
Ion Ratio Lower Upper
244 100
212 11.0 8.2 12.4
122 26.7 19.8 29.6



#32
Benzo(a)anthracene
Concen: 0.193 ng
RT: 21.161 min Scan# 2411
Delta R.T. 0.000 min
Lab File: BN034741.D
Acq: 30 Oct 2024 09:56

Tgt Ion:228 Resp: 10110
Ion Ratio Lower Upper
228 100
226 28.1 22.6 33.8
229 20.0 15.7 23.5





#33

Chrysene

Concen: 0.195 ng

RT: 21.214 min Scan# 2417

Delta R.T. 0.000 min

Lab File: BN034741.D

Acq: 30 Oct 2024 09:56

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

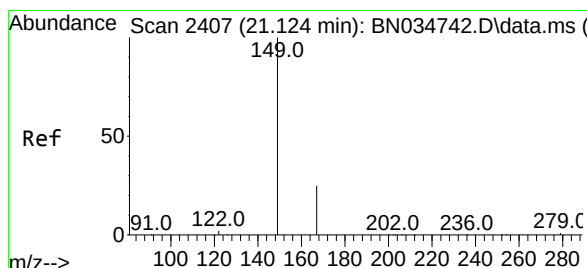
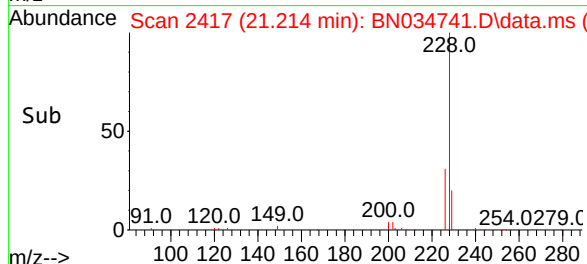
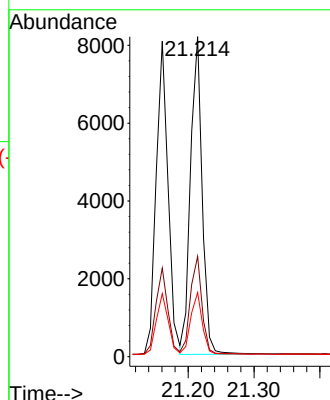
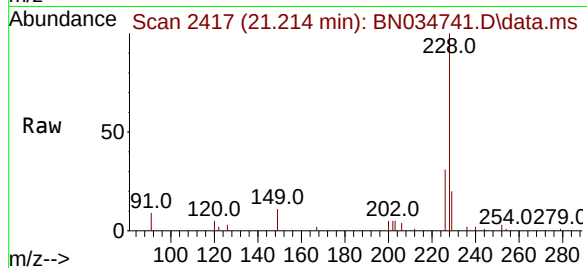
Tgt Ion:228 Resp: 10033

Ion Ratio Lower Upper

228 100

226 31.4 24.4 36.6

229 20.1 15.6 23.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.187 ng

RT: 21.125 min Scan# 2407

Delta R.T. 0.000 min

Lab File: BN034741.D

Acq: 30 Oct 2024 09:56

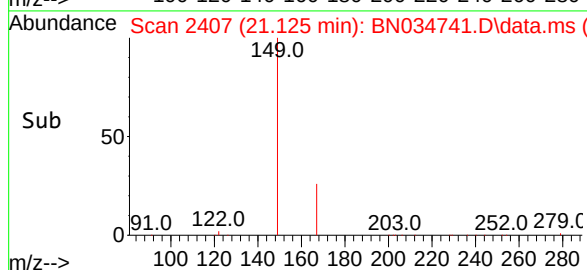
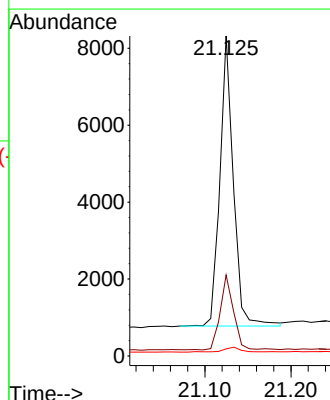
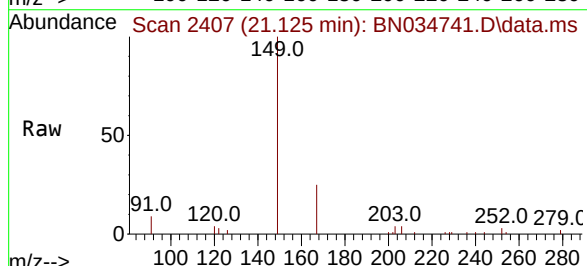
Tgt Ion:149 Resp: 8191

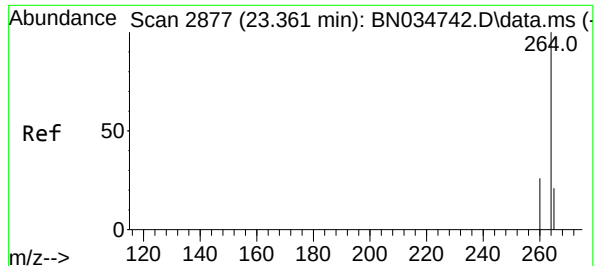
Ion Ratio Lower Upper

149 100

167 25.3 20.6 30.8

279 2.1 1.5 2.3





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.361 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN034741.D

Acq: 30 Oct 2024 09:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

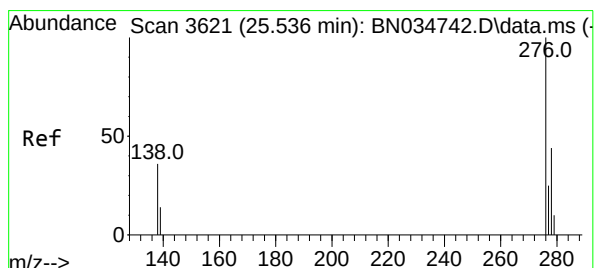
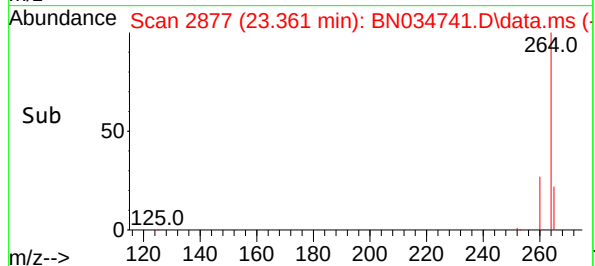
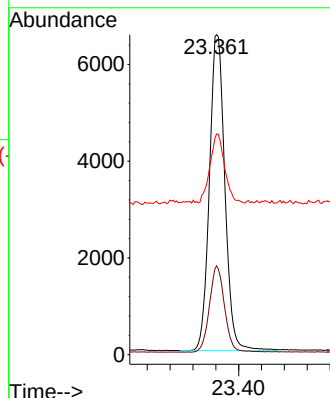
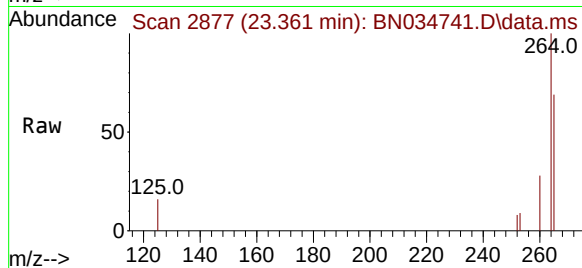
Tgt Ion:264 Resp: 12265

Ion Ratio Lower Upper

264 100

260 27.7 21.5 32.3

265 69.0 47.5 71.3



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.211 ng

RT: 25.543 min Scan# 3623

Delta R.T. 0.006 min

Lab File: BN034741.D

Acq: 30 Oct 2024 09:56

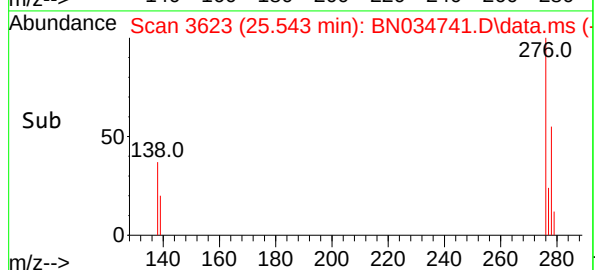
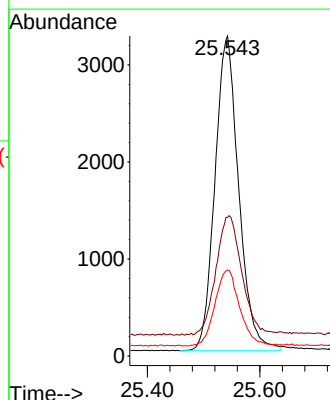
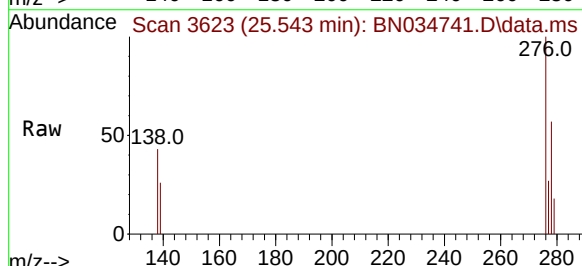
Tgt Ion:276 Resp: 9518

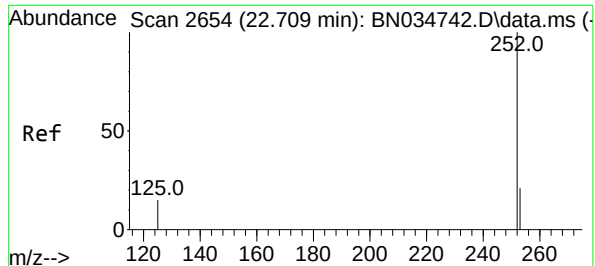
Ion Ratio Lower Upper

276 100

138 41.2 31.5 47.3

277 25.4 19.7 29.5





#37

Benzo(b)fluoranthene

Concen: 0.186 ng

RT: 22.712 min Scan# 2655

Delta R.T. 0.003 min

Lab File: BN034741.D

Acq: 30 Oct 2024 09:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

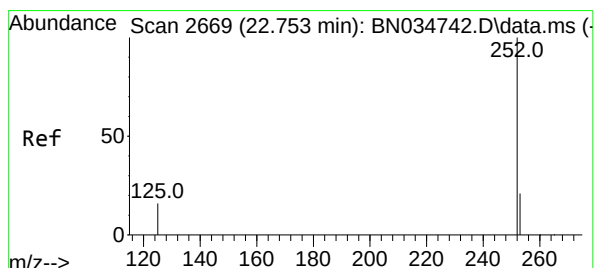
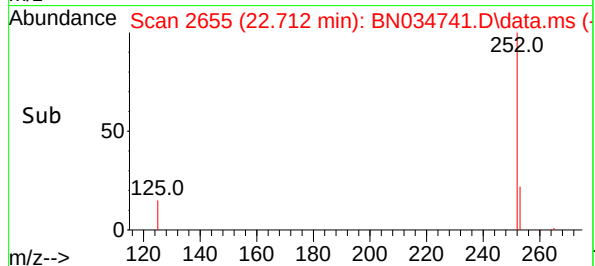
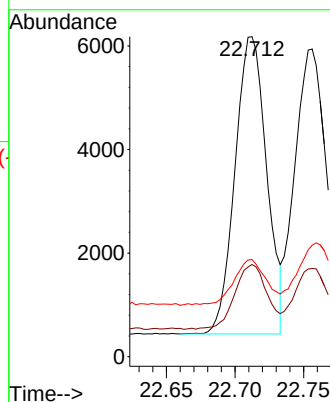
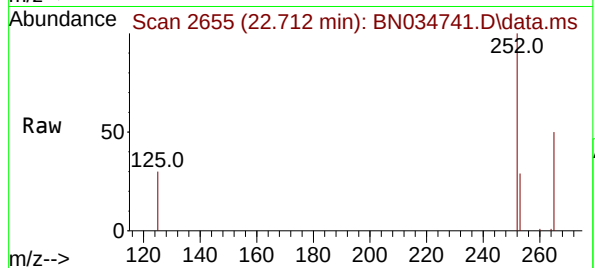
Tgt Ion:252 Resp: 9196

Ion Ratio Lower Upper

252 100

253 28.8 19.7 29.5

125 30.4 17.1 25.7#



#38

Benzo(k)fluoranthene

Concen: 0.190 ng

RT: 22.756 min Scan# 2670

Delta R.T. 0.003 min

Lab File: BN034741.D

Acq: 30 Oct 2024 09:56

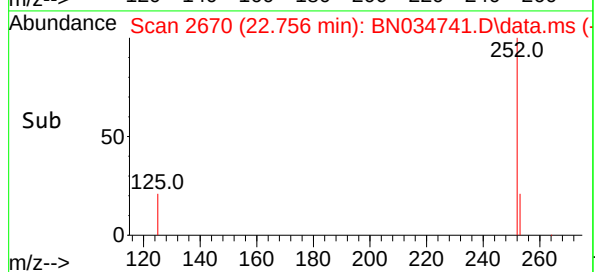
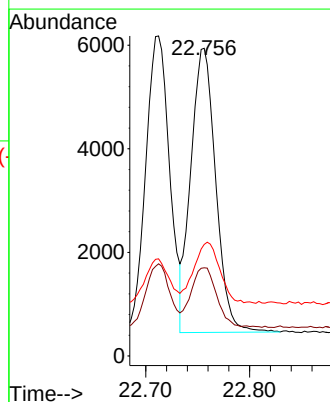
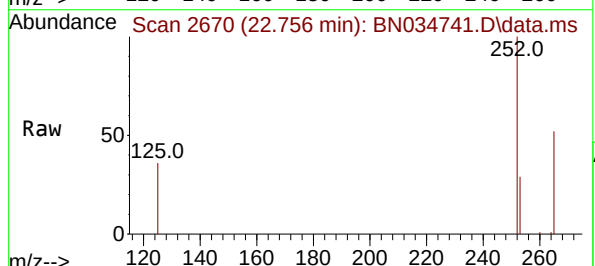
Tgt Ion:252 Resp: 9145

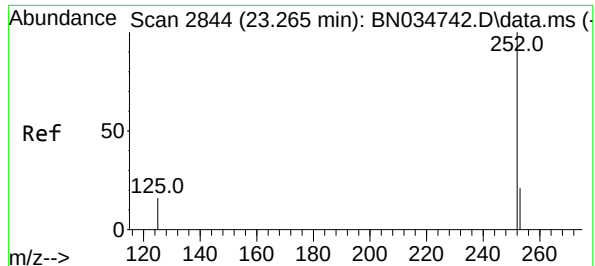
Ion Ratio Lower Upper

252 100

253 28.7 19.8 29.6

125 36.3 18.2 27.2#





#39

Benzo(a)pyrene

Concen: 0.192 ng

RT: 23.268 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN034741.D

Acq: 30 Oct 2024 09:56

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

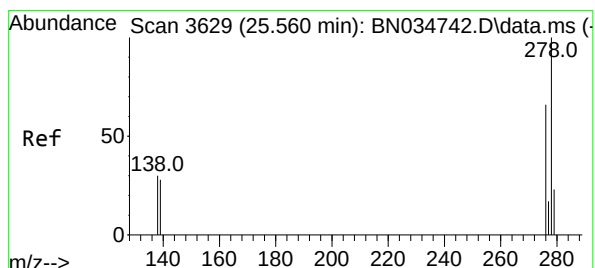
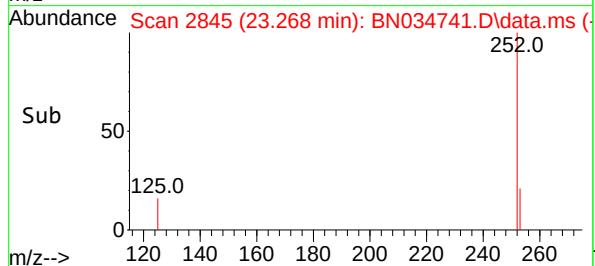
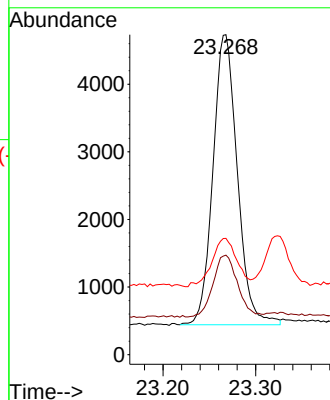
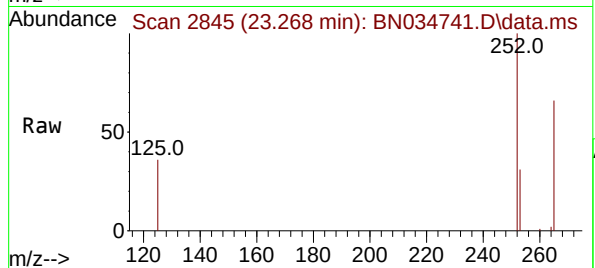
Tgt Ion:252 Resp: 7834

Ion Ratio Lower Upper

252 100

253 31.1 20.7 31.1

125 36.4 20.3 30.5#



#40

Dibenzo(a,h)anthracene

Concen: 0.211 ng

RT: 25.557 min Scan# 3628

Delta R.T. -0.003 min

Lab File: BN034741.D

Acq: 30 Oct 2024 09:56

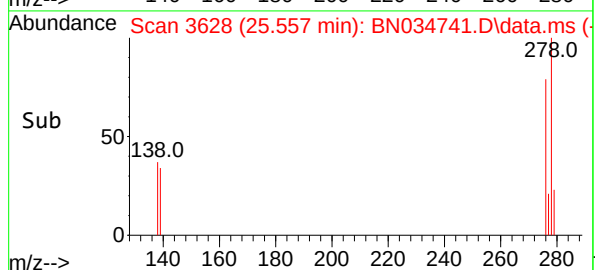
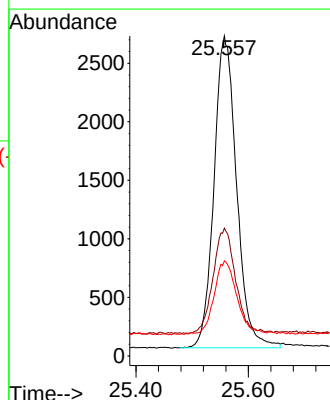
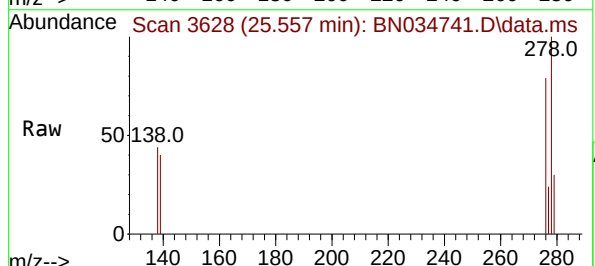
Tgt Ion:278 Resp: 7423

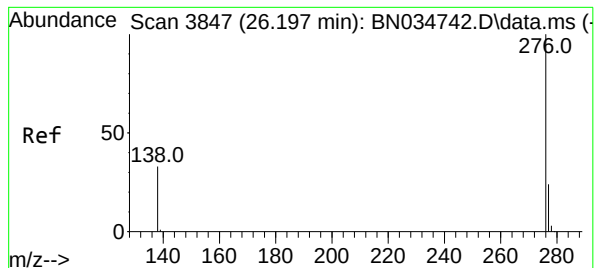
Ion Ratio Lower Upper

278 100

139 40.0 24.9 37.3#

279 29.7 21.0 31.4





#41

Benzo(g,h,i)perylene

Concen: 0.215 ng

RT: 26.197 min Scan# 3847

Delta R.T. 0.000 min

Lab File: BN034741.D

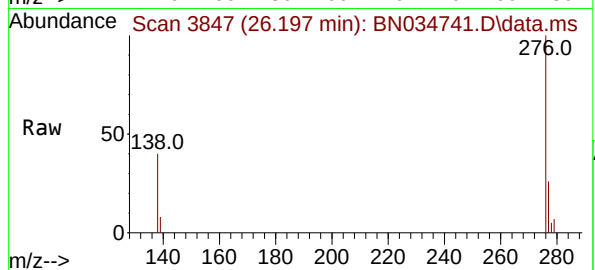
Acq: 30 Oct 2024 09:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



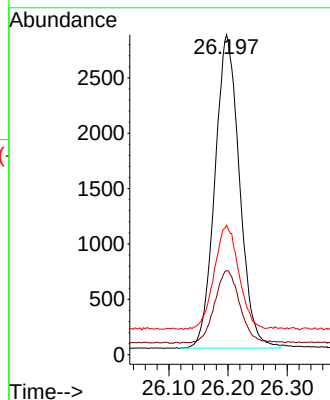
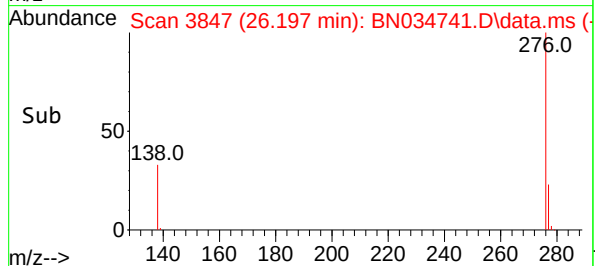
Tgt Ion:276 Resp: 8184

Ion Ratio Lower Upper

276 100

277 26.2 20.2 30.2

138 40.4 28.7 43.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN103024\
 Data File : BN034742.D
 Acq On : 30 Oct 2024 10:32
 Operator : RC/JU
 Sample : SSTDICCC0.4
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCC0.4

Quant Time: Oct 30 13:32:20 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 30 13:28:24 2024
 Response via : Initial Calibration

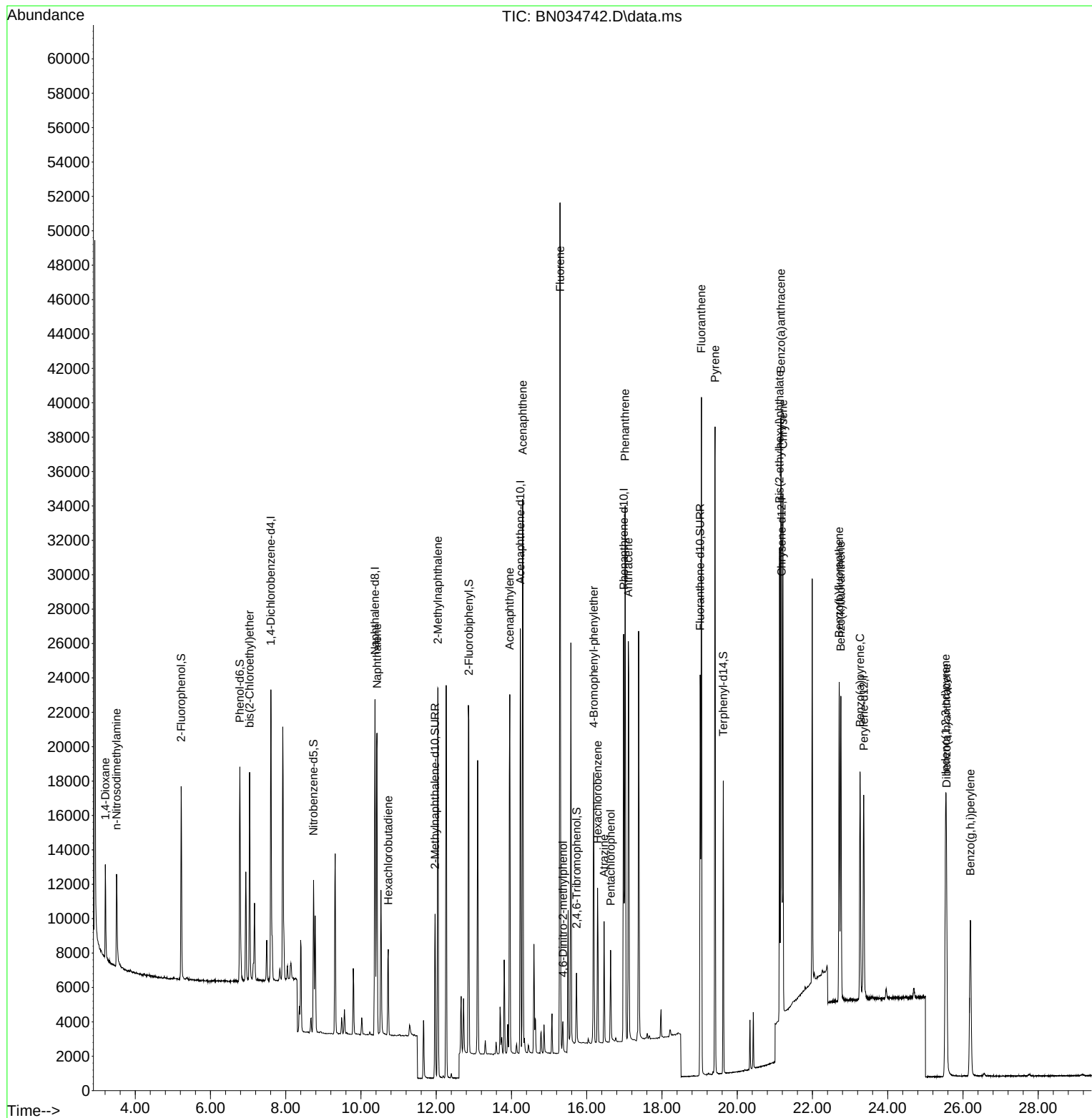
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.604	152	8011	0.400	ng	0.00
7) Naphthalene-d8	10.372	136	24120	0.400	ng	0.00
13) Acenaphthene-d10	14.233	164	13699	0.400	ng	0.00
19) Phenanthrene-d10	16.982	188	27882	0.400	ng	0.00
29) Chrysene-d12	21.178	240	17310	0.400	ng	0.00
35) Perylene-d12	23.361	264	14673	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.220	112	8777	0.362	ng	0.00
5) Phenol-d6	6.780	99	11267	0.357	ng	0.00
8) Nitrobenzene-d5	8.739	82	6709	0.354	ng	0.00
11) 2-Methylnaphthalene-d10	11.969	152	12514	0.358	ng	0.00
14) 2,4,6-Tribromophenol	15.728	330	2165	0.320	ng	0.00
15) 2-Fluorobiphenyl	12.864	172	18632	0.345	ng	0.00
27) Fluoranthene-d10	19.015	212	23668	0.362	ng	0.00
31) Terphenyl-d14	19.628	244	13647	0.367	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.205	88	3258	0.371	ng	99
3) n-Nitrosodimethylamine	3.502	42	3497	0.353	ng	96
6) bis(2-Chloroethyl)ether	7.040	93	8465	0.368	ng	100
9) Naphthalene	10.426	128	24029	0.360	ng	100
10) Hexachlorobutadiene	10.724	225	3973	0.362	ng	# 100
12) 2-Methylnaphthalene	12.044	142	15657	0.359	ng	100
16) Acenaphthylene	13.955	152	22981	0.334	ng	100
17) Acenaphthene	14.297	154	15518	0.339	ng	100
18) Fluorene	15.291	166	19646	0.344	ng	100
20) 4,6-Dinitro-2-methylph...	15.366	198	1243	0.413	ng	100
21) 4-Bromophenyl-phenylether	16.188	248	5857	0.363	ng	100
22) Hexachlorobenzene	16.287	284	6629	0.367	ng	100
23) Atrazine	16.461	200	4975	0.358	ng	100
24) Pentachlorophenol	16.634	266	2536	0.326	ng	100
25) Phenanthrene	17.019	178	30001	0.366	ng	100
26) Anthracene	17.106	178	27599	0.360	ng	100
28) Fluoranthene	19.048	202	32726	0.362	ng	100
30) Pyrene	19.410	202	33335	0.368	ng	100
32) Benzo(a)anthracene	21.160	228	24331	0.353	ng	100
33) Chrysene	21.214	228	24332	0.361	ng	100
34) Bis(2-ethylhexyl)phtha...	21.124	149	22344	0.388	ng	100
36) Indeno(1,2,3-cd)pyrene	25.536	276	19549	0.362	ng	100
37) Benzo(b)fluoranthene	22.709	252	21276	0.360	ng	100
38) Benzo(k)fluoranthene	22.753	252	20480	0.355	ng	100
39) Benzo(a)pyrene	23.265	252	17327	0.355	ng	100
40) Dibenzo(a,h)anthracene	25.560	278	15182	0.361	ng	100
41) Benzo(g,h,i)perylene	26.197	276	16694	0.367	ng	100

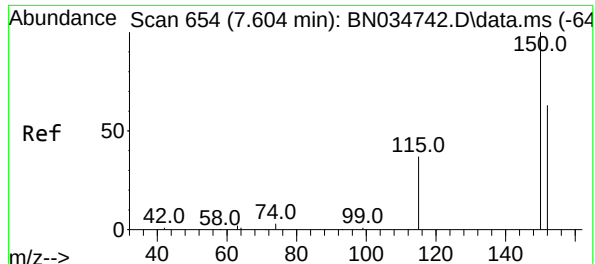
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN103024\
Data File : BN034742.D
Acq On : 30 Oct 2024 10:32
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Oct 30 13:32:20 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 30 13:28:24 2024
Response via : Initial Calibration

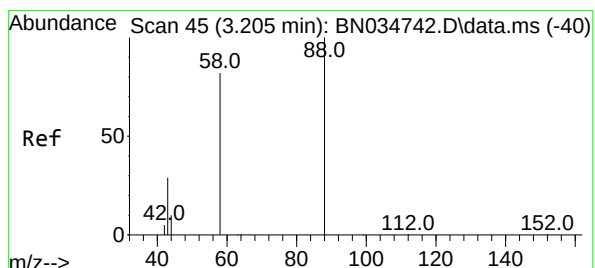
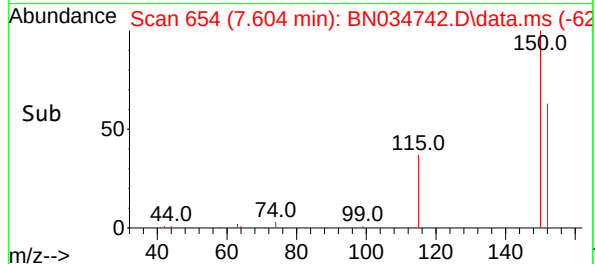
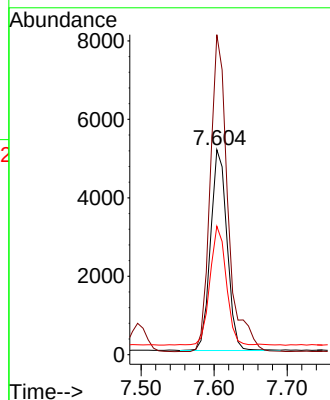
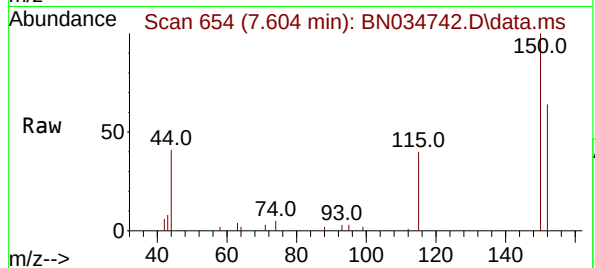




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.604 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN034742.D
Acq: 30 Oct 2024 10:32

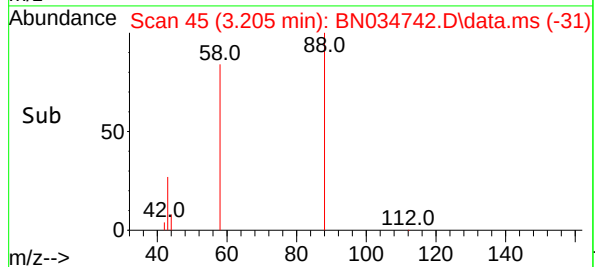
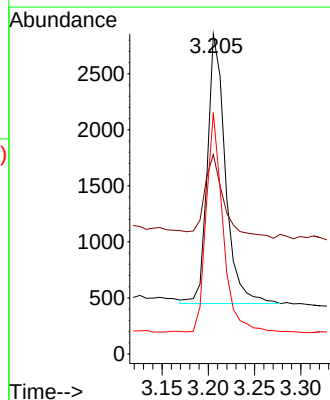
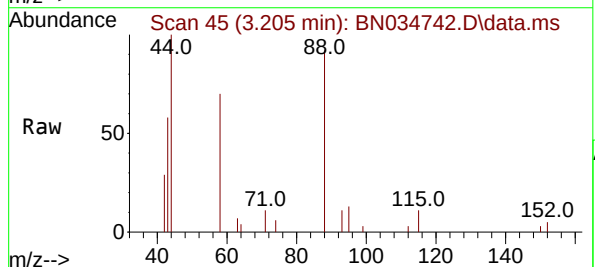
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

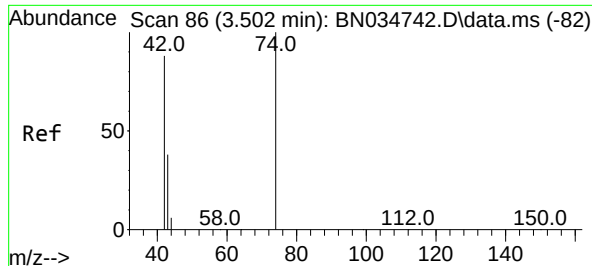
Tgt Ion:152 Resp: 8011
Ion Ratio Lower Upper
152 100
150 156.1 124.9 187.3
115 62.7 50.2 75.2



#2
1,4-Dioxane
Concen: 0.371 ng
RT: 3.205 min Scan# 45
Delta R.T. 0.000 min
Lab File: BN034742.D
Acq: 30 Oct 2024 10:32

Tgt Ion: 88 Resp: 3258
Ion Ratio Lower Upper
88 100
43 33.7 26.7 40.1
58 74.8 59.3 88.9

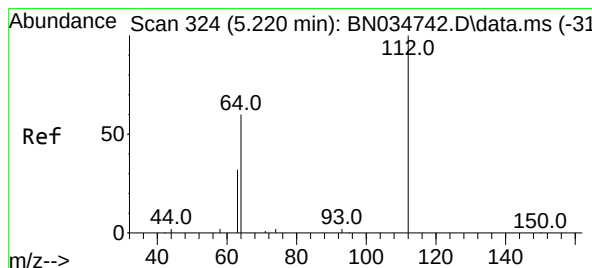
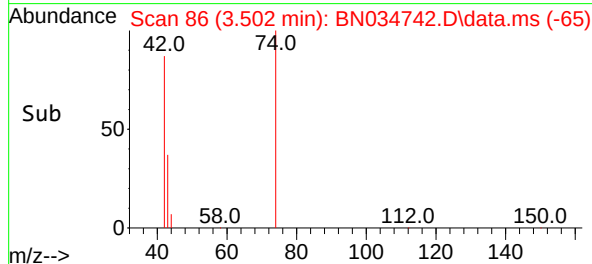
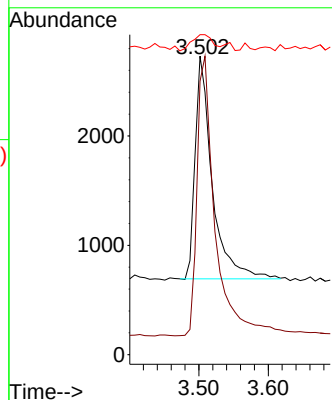
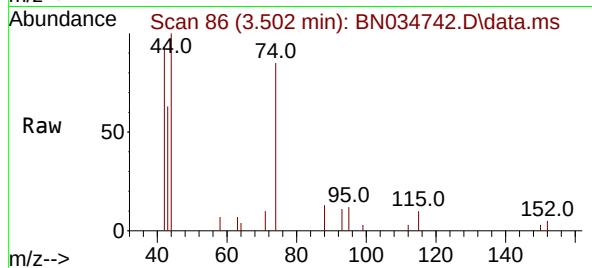




#3
n-Nitrosodimethylamine
Concen: 0.353 ng
RT: 3.502 min Scan# 86
Delta R.T. 0.000 min
Lab File: BN034742.D
Acq: 30 Oct 2024 10:32

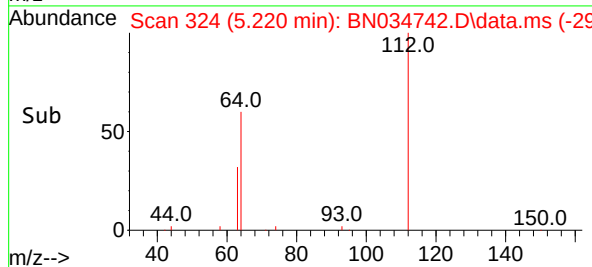
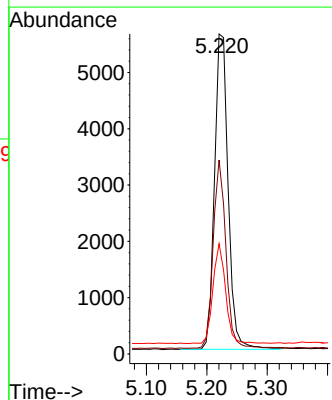
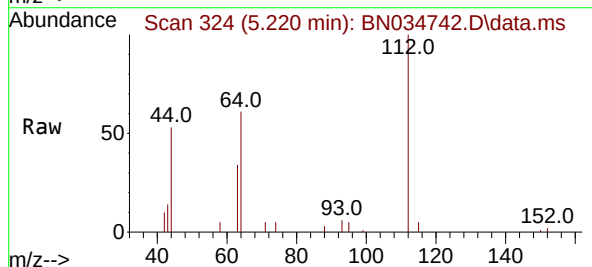
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

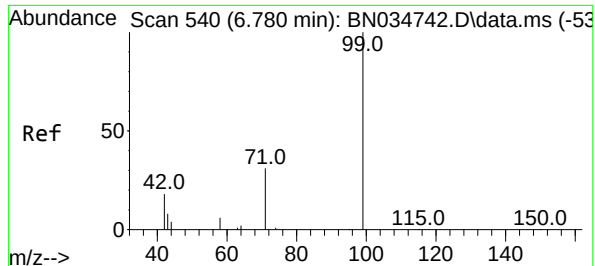
Tgt Ion: 42 Resp: 3497
Ion Ratio Lower Upper
42 100
74 133.2 103.1 154.7
44 8.8 6.7 10.1



#4
2-Fluorophenol
Concen: 0.362 ng
RT: 5.220 min Scan# 324
Delta R.T. 0.000 min
Lab File: BN034742.D
Acq: 30 Oct 2024 10:32

Tgt Ion: 112 Resp: 8777
Ion Ratio Lower Upper
112 100
64 56.1 44.9 67.3
63 29.4 23.5 35.3

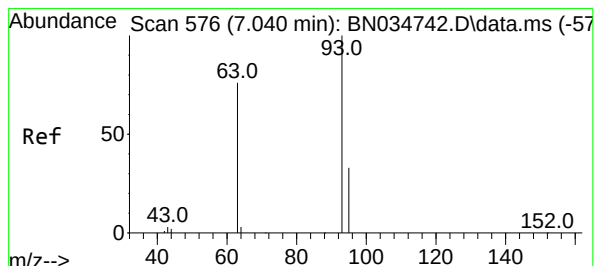
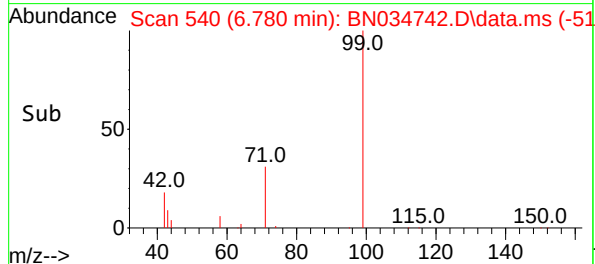
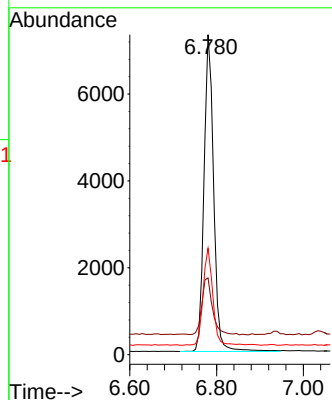
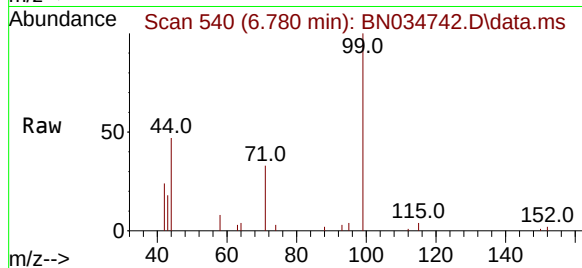




#5
Phenol-d6
Concen: 0.357 ng
RT: 6.780 min Scan# 540
Delta R.T. 0.000 min
Lab File: BN034742.D
Acq: 30 Oct 2024 10:32

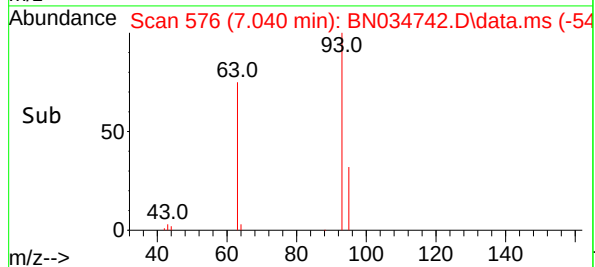
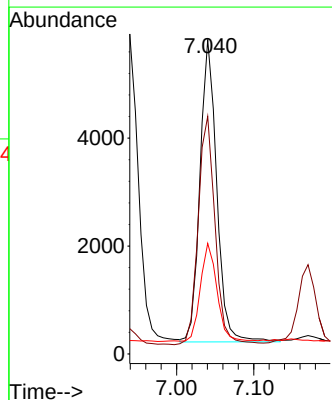
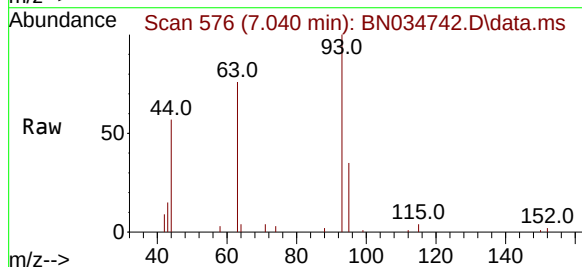
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

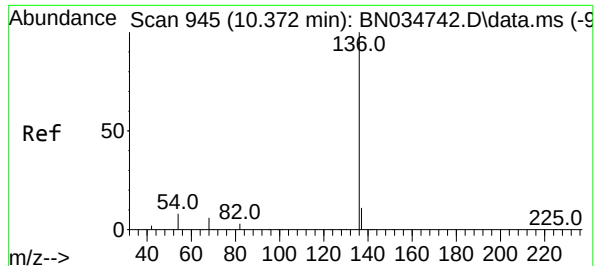
Tgt Ion: 99 Resp: 11267
Ion Ratio Lower Upper
99 100
42 19.9 15.9 23.9
71 30.4 24.3 36.5



#6
bis(2-Chloroethyl)ether
Concen: 0.368 ng
RT: 7.040 min Scan# 576
Delta R.T. 0.000 min
Lab File: BN034742.D
Acq: 30 Oct 2024 10:32

Tgt Ion: 93 Resp: 8465
Ion Ratio Lower Upper
93 100
63 76.5 61.2 91.8
95 32.3 25.8 38.8

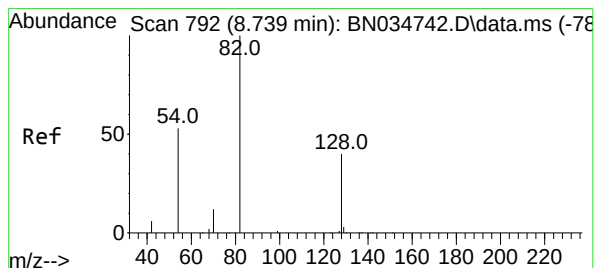
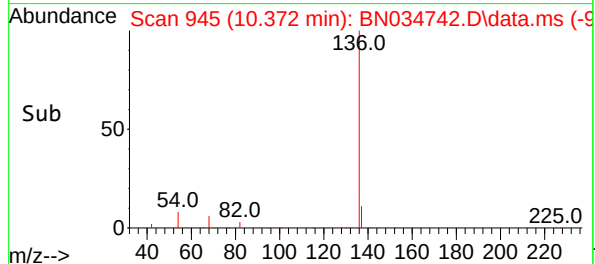
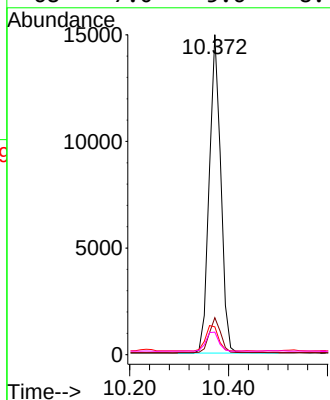
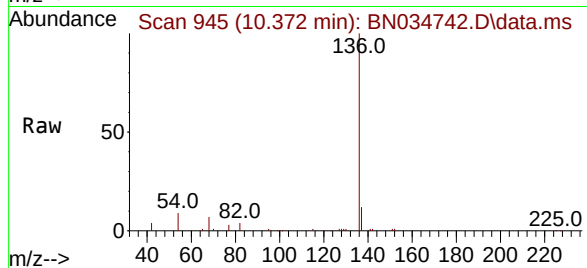




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.372 min Scan# 945
Delta R.T. 0.000 min
Lab File: BN034742.D
Acq: 30 Oct 2024 10:32

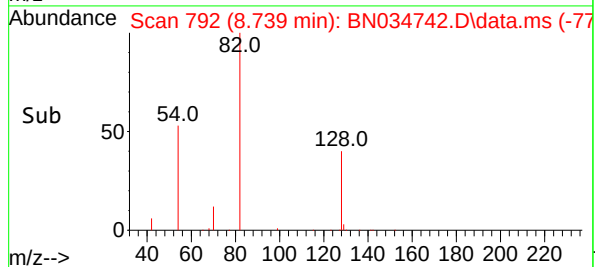
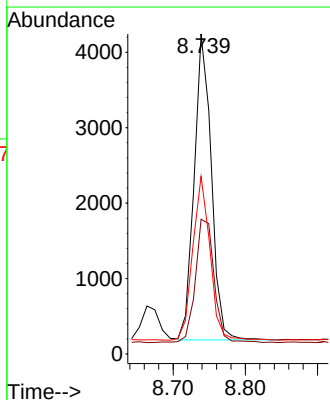
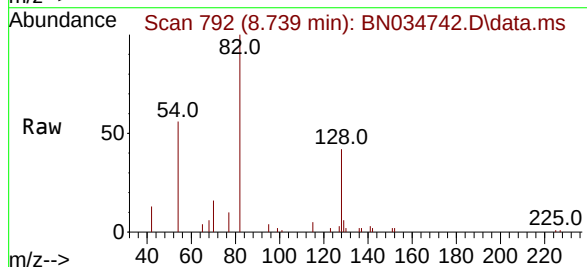
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

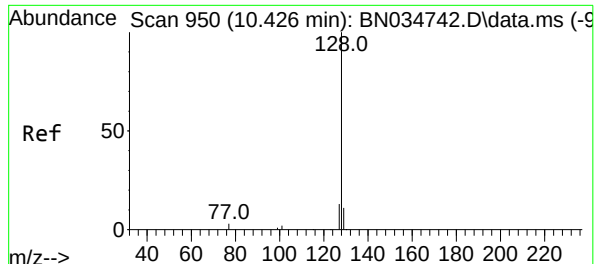
Tgt Ion:	136	Resp:	24120
Ion	Ratio	Lower	Upper
136	100		
137	11.5	9.2	13.8
54	8.7	7.0	10.4
68	7.0	5.6	8.4



#8
Nitrobenzene-d5
Concen: 0.354 ng
RT: 8.739 min Scan# 792
Delta R.T. 0.000 min
Lab File: BN034742.D
Acq: 30 Oct 2024 10:32

Tgt Ion:	82	Resp:	6709
Ion	Ratio	Lower	Upper
82	100		
128	42.1	33.7	50.5
54	55.5	44.4	66.6





#9

Naphthalene

Concen: 0.360 ng

RT: 10.426 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN034742.D

Acq: 30 Oct 2024 10:32

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

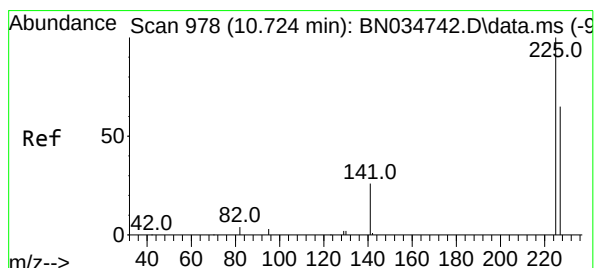
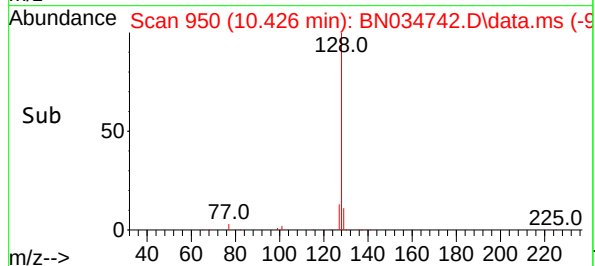
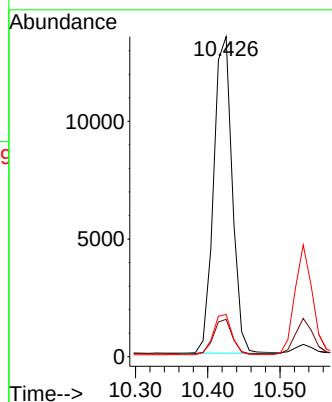
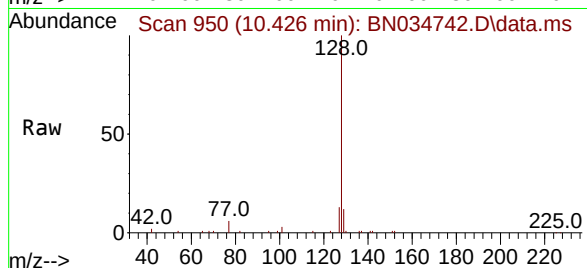
Tgt Ion:128 Resp: 24029

Ion Ratio Lower Upper

128 100

129 11.7 9.4 14.0

127 13.2 10.6 15.8



#10

Hexachlorobutadiene

Concen: 0.362 ng

RT: 10.724 min Scan# 978

Delta R.T. 0.000 min

Lab File: BN034742.D

Acq: 30 Oct 2024 10:32

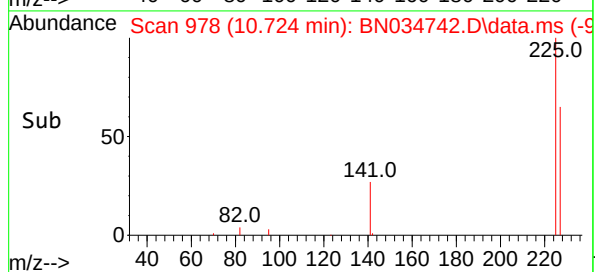
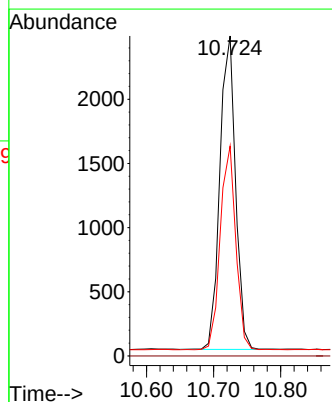
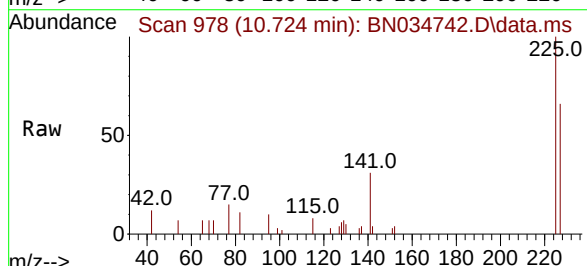
Tgt Ion:225 Resp: 3973

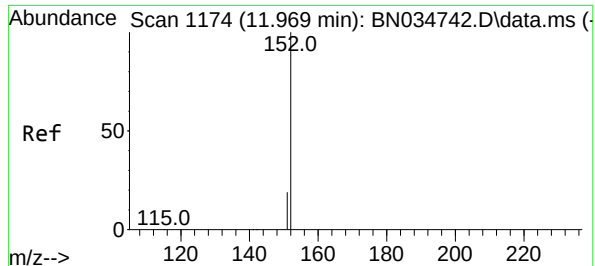
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 64.3 51.4 77.2

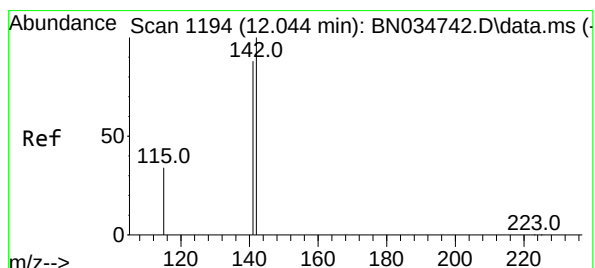
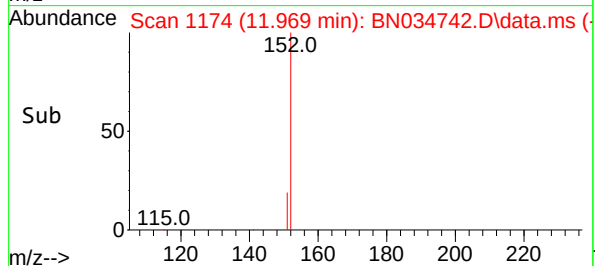
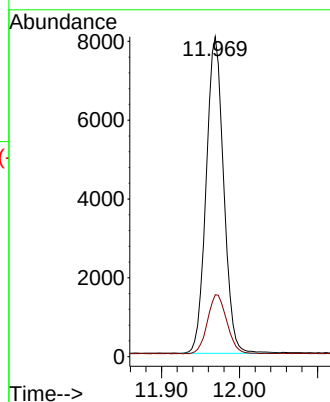
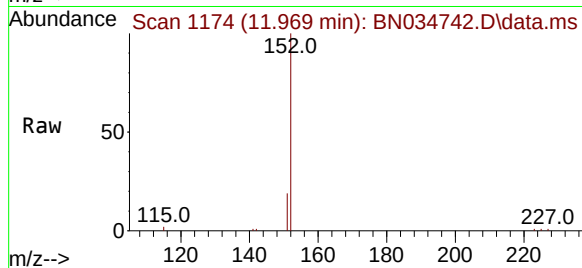




#11
2-Methylnaphthalene-d10
Concen: 0.358 ng
RT: 11.969 min Scan# 1174
Delta R.T. 0.000 min
Lab File: BN034742.D
Acq: 30 Oct 2024 10:32

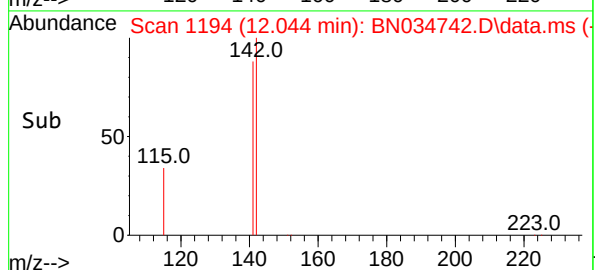
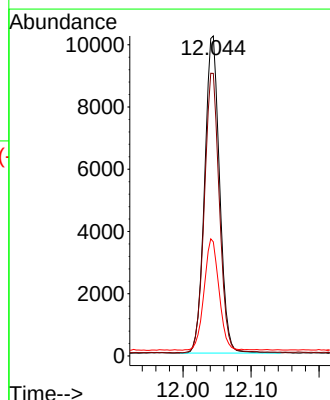
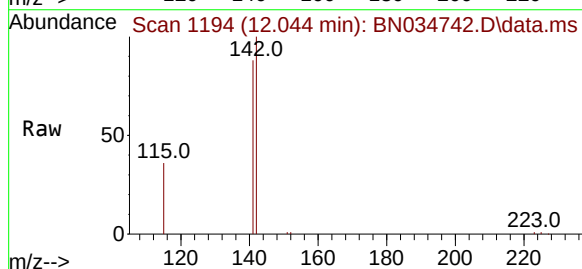
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

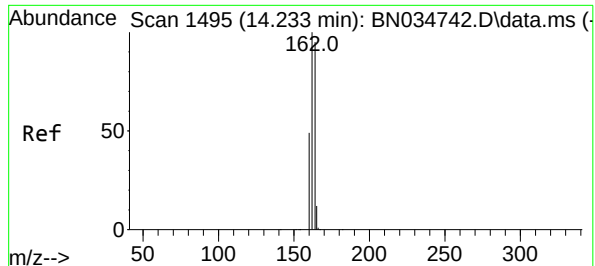
Tgt Ion:152 Resp: 12514
Ion Ratio Lower Upper
152 100
151 20.7 16.6 24.8



#12
2-Methylnaphthalene
Concen: 0.359 ng
RT: 12.044 min Scan# 1194
Delta R.T. 0.000 min
Lab File: BN034742.D
Acq: 30 Oct 2024 10:32

Tgt Ion:142 Resp: 15657
Ion Ratio Lower Upper
142 100
141 88.3 70.6 106.0
115 35.7 28.6 42.8

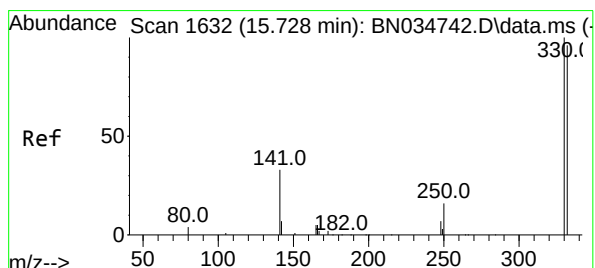
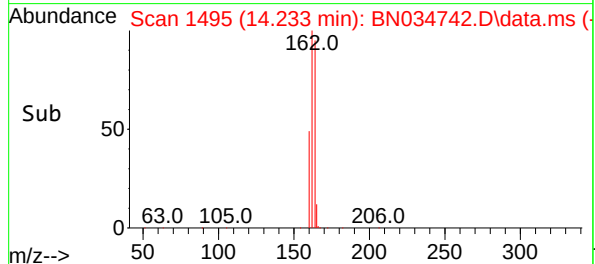
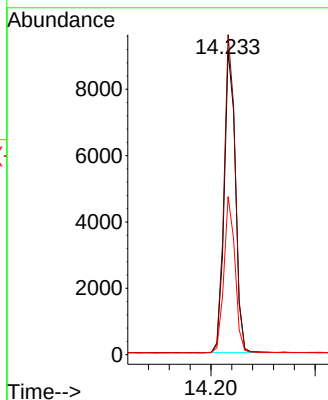
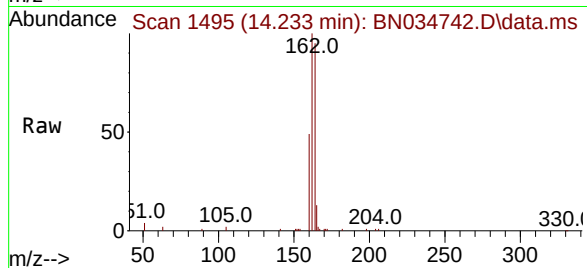




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.233 min Scan# 1495
Delta R.T. 0.000 min
Lab File: BN034742.D
Acq: 30 Oct 2024 10:32

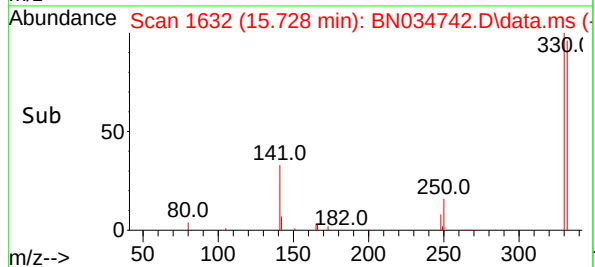
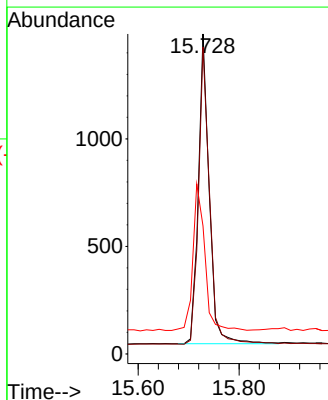
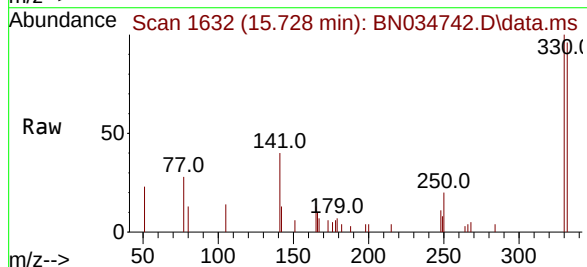
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

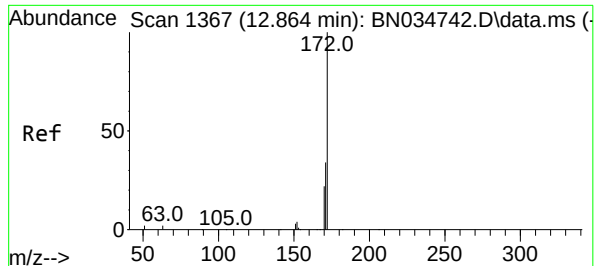
Tgt Ion:164 Resp: 13699
Ion Ratio Lower Upper
164 100
162 105.4 84.3 126.5
160 52.1 41.7 62.5



#14
2,4,6-Tribromophenol
Concen: 0.320 ng
RT: 15.728 min Scan# 1632
Delta R.T. 0.000 min
Lab File: BN034742.D
Acq: 30 Oct 2024 10:32

Tgt Ion:330 Resp: 2165
Ion Ratio Lower Upper
330 100
332 97.2 77.8 116.6
141 51.2 41.0 61.4





#15

2-Fluorobiphenyl

Concen: 0.345 ng

RT: 12.864 min Scan# 1367

Delta R.T. 0.000 min

Lab File: BN034742.D

Acq: 30 Oct 2024 10:32

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

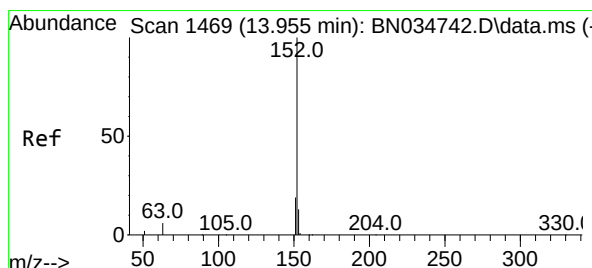
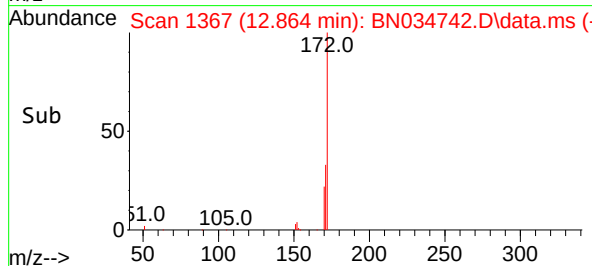
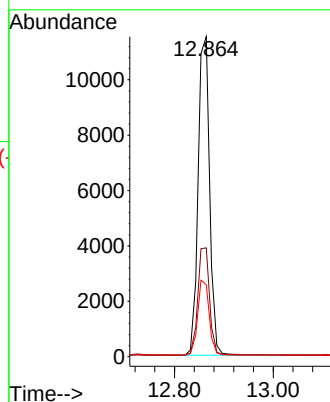
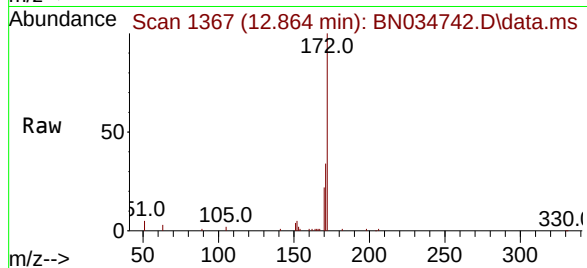
Tgt Ion:172 Resp: 18632

Ion Ratio Lower Upper

172 100

171 34.0 27.2 40.8

170 22.5 18.0 27.0



#16

Acenaphthylene

Concen: 0.334 ng

RT: 13.955 min Scan# 1469

Delta R.T. 0.000 min

Lab File: BN034742.D

Acq: 30 Oct 2024 10:32

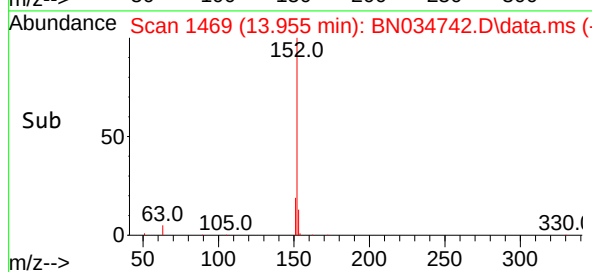
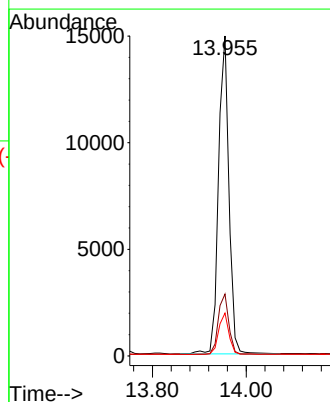
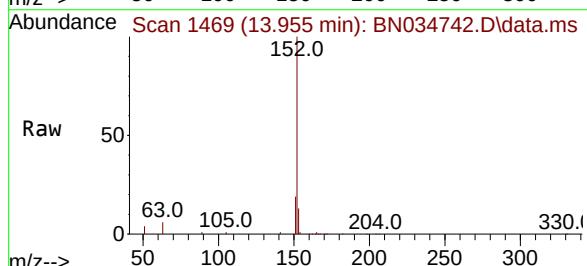
Tgt Ion:152 Resp: 22981

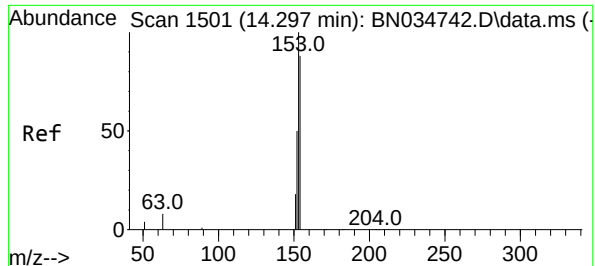
Ion Ratio Lower Upper

152 100

151 19.3 15.4 23.2

153 12.8 10.2 15.4





#17

Acenaphthene

Concen: 0.339 ng

RT: 14.297 min Scan# 1501

Delta R.T. 0.000 min

Lab File: BN034742.D

Acq: 30 Oct 2024 10:32

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

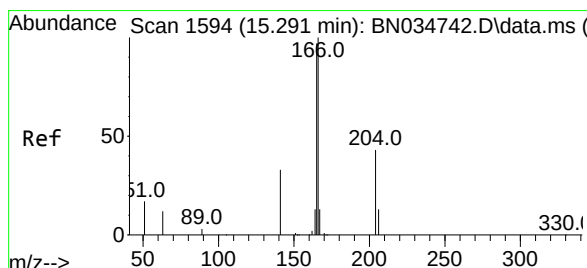
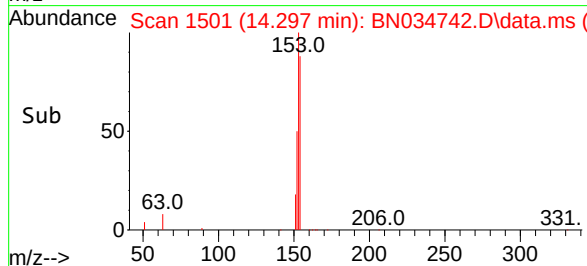
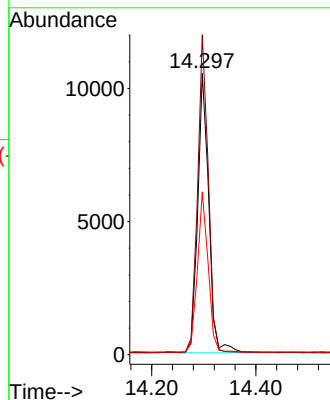
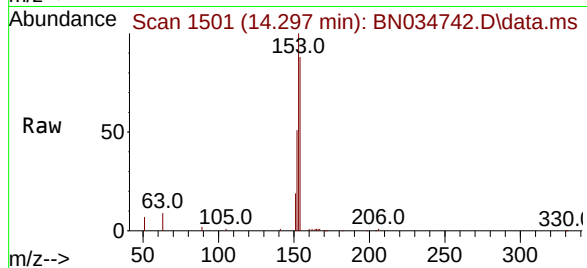
Tgt Ion:154 Resp: 15518

Ion Ratio Lower Upper

154 100

153 109.7 87.8 131.6

152 55.8 44.6 67.0



#18

Fluorene

Concen: 0.344 ng

RT: 15.291 min Scan# 1594

Delta R.T. 0.000 min

Lab File: BN034742.D

Acq: 30 Oct 2024 10:32

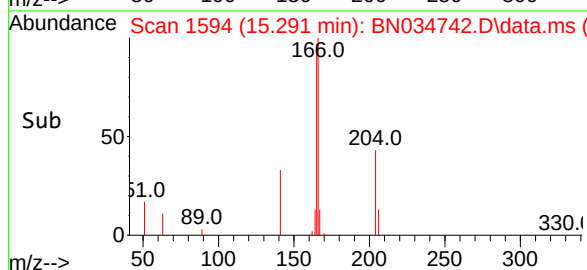
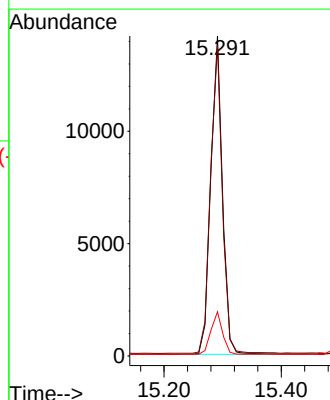
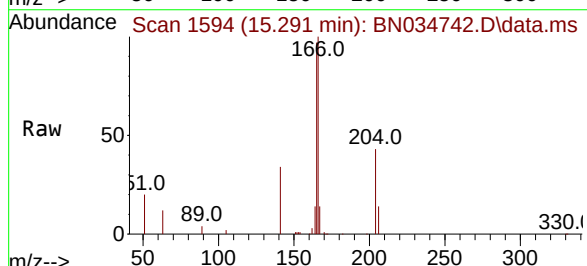
Tgt Ion:166 Resp: 19646

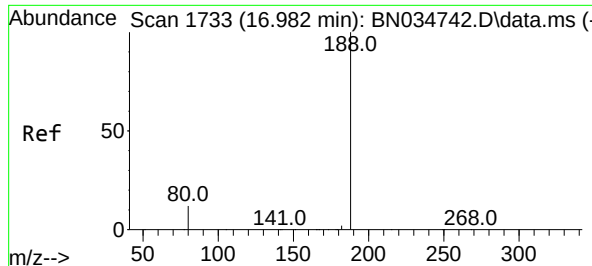
Ion Ratio Lower Upper

166 100

165 98.1 78.5 117.7

167 13.5 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.982 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN034742.D

Acq: 30 Oct 2024 10:32

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

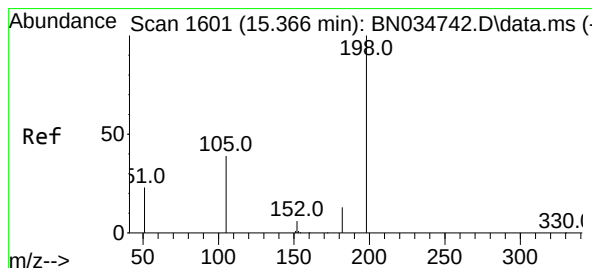
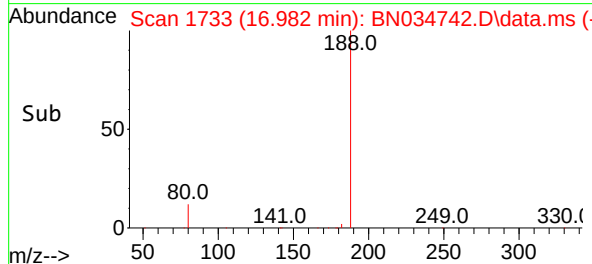
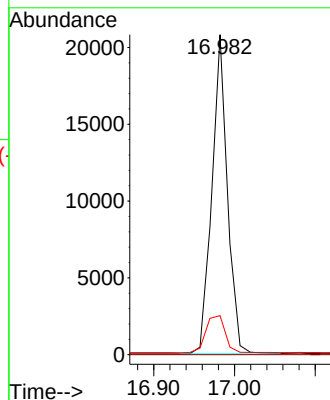
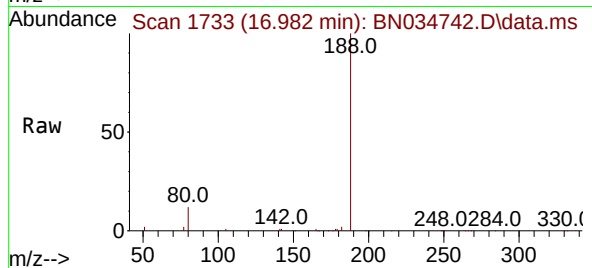
Tgt Ion:188 Resp: 27882

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 12.2 9.8 14.6



#20

4,6-Dinitro-2-methylphenol

Concen: 0.413 ng

RT: 15.366 min Scan# 1601

Delta R.T. -0.000 min

Lab File: BN034742.D

Acq: 30 Oct 2024 10:32

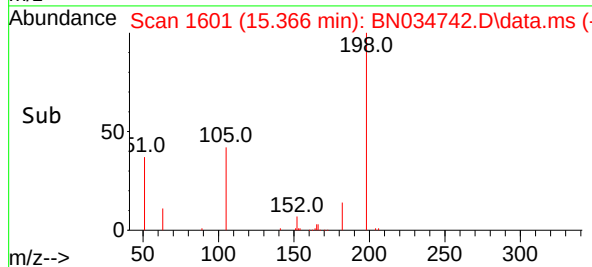
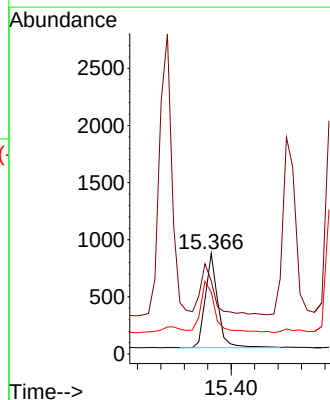
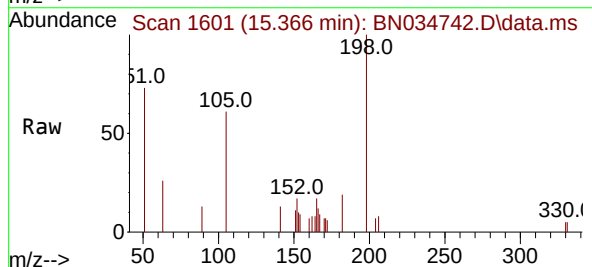
Tgt Ion:198 Resp: 1243

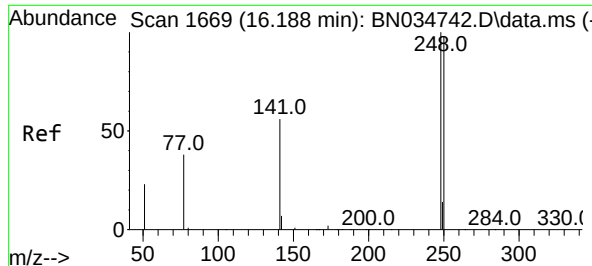
Ion Ratio Lower Upper

198 100

51 72.5 58.0 87.0

105 61.4 49.1 73.7

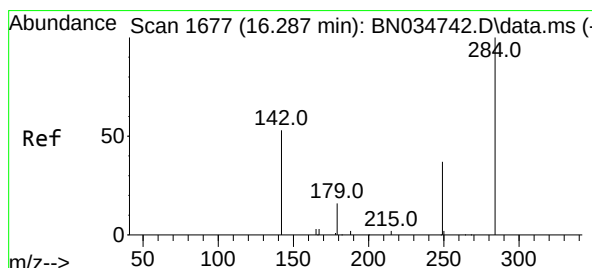
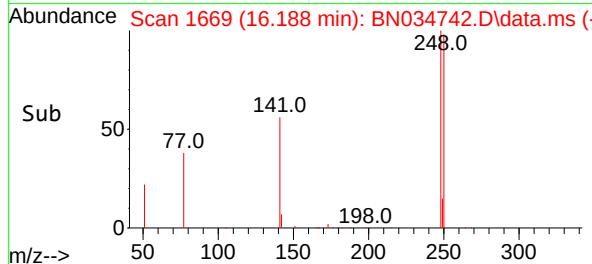
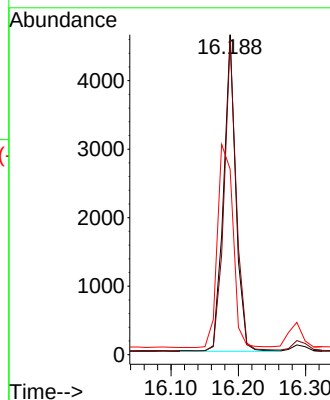
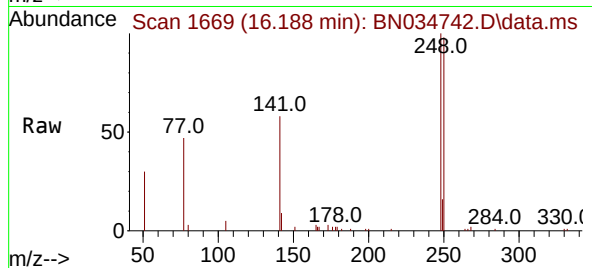




#21
4-Bromophenyl-phenylether
Concen: 0.363 ng
RT: 16.188 min Scan# 1669
Delta R.T. 0.000 min
Lab File: BN034742.D
Acq: 30 Oct 2024 10:32

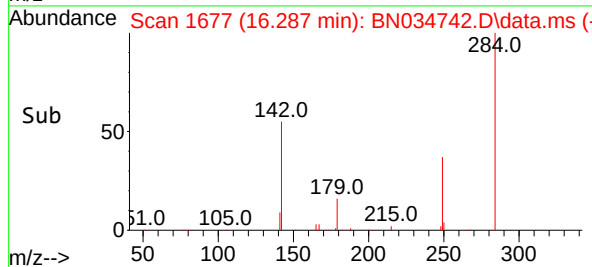
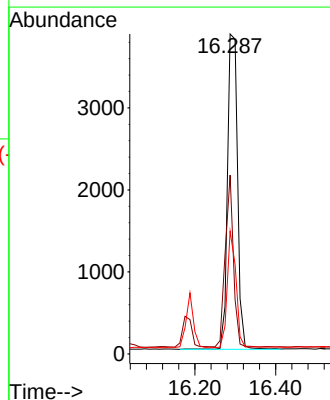
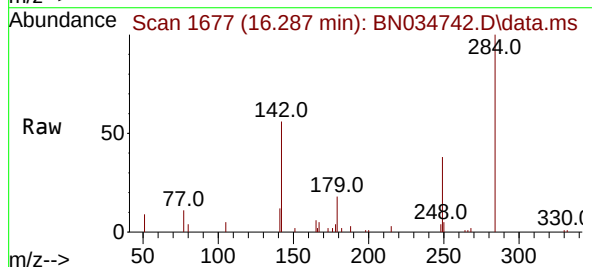
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

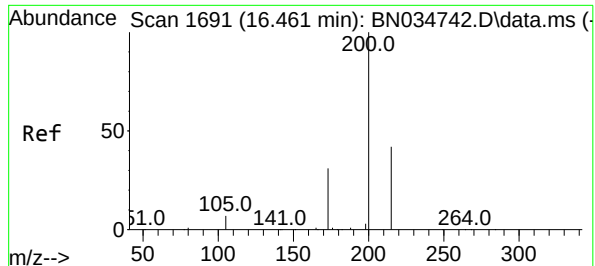
Tgt Ion	Ratio	Lower	Upper
248	100		
250	98.4	78.7	118.1
141	58.0	46.4	69.6



#22
Hexachlorobenzene
Concen: 0.367 ng
RT: 16.287 min Scan# 1677
Delta R.T. 0.000 min
Lab File: BN034742.D
Acq: 30 Oct 2024 10:32

Tgt Ion	Ratio	Lower	Upper
284	100		
142	44.2	35.4	53.0
249	32.1	25.7	38.5

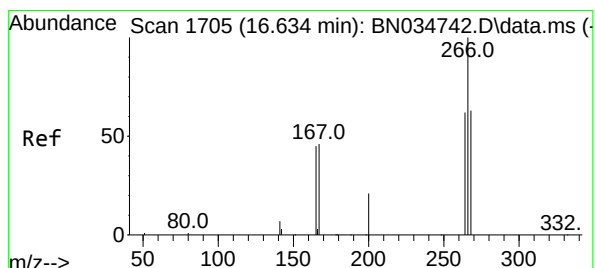
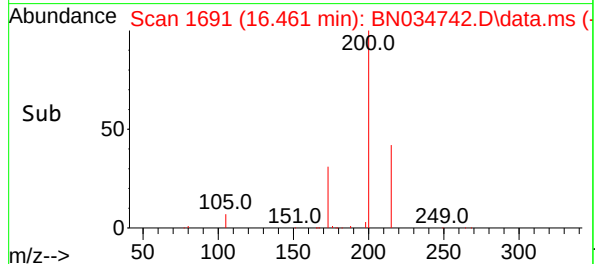
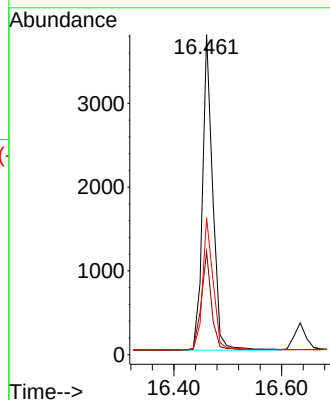
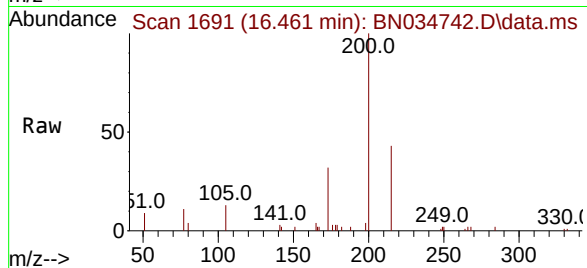




#23
Atrazine
Concen: 0.358 ng
RT: 16.461 min Scan# 1691
Delta R.T. 0.000 min
Lab File: BN034742.D
Acq: 30 Oct 2024 10:32

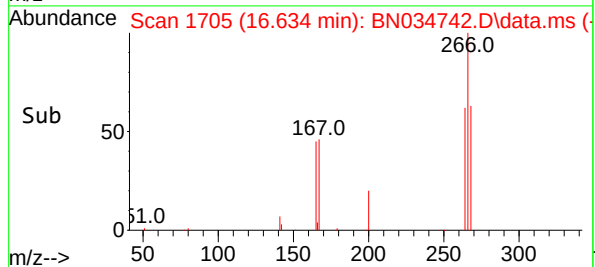
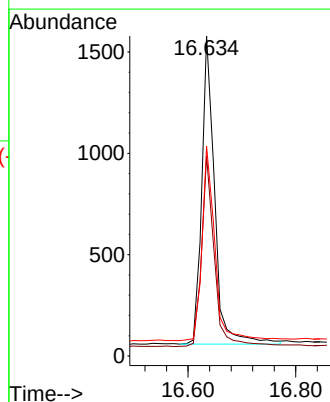
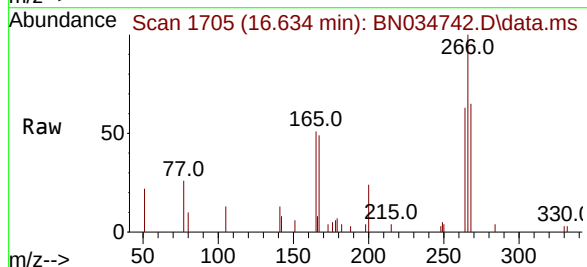
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

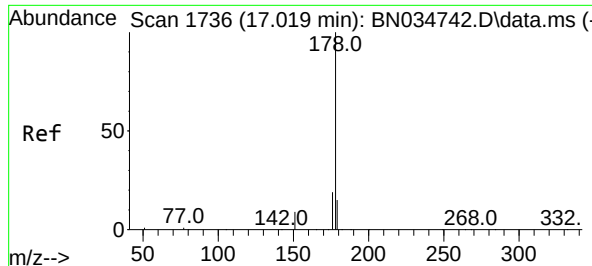
Tgt Ion:200 Resp: 4975
Ion Ratio Lower Upper
200 100
173 32.2 25.8 38.6
215 42.8 34.2 51.4



#24
Pentachlorophenol
Concen: 0.326 ng
RT: 16.634 min Scan# 1705
Delta R.T. 0.000 min
Lab File: BN034742.D
Acq: 30 Oct 2024 10:32

Tgt Ion:266 Resp: 2536
Ion Ratio Lower Upper
266 100
264 61.2 48.7 73.1
268 62.9 50.2 75.4





#25

Phenanthrene

Concen: 0.366 ng

RT: 17.019 min Scan# 1736

Delta R.T. 0.000 min

Lab File: BN034742.D

Acq: 30 Oct 2024 10:32

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

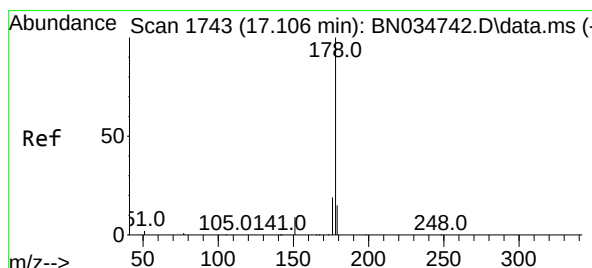
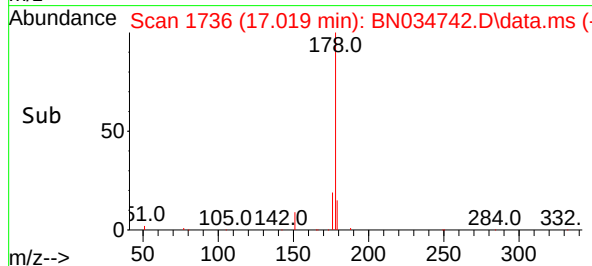
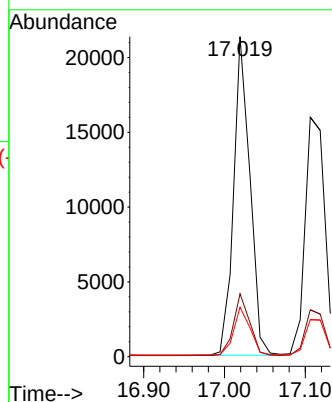
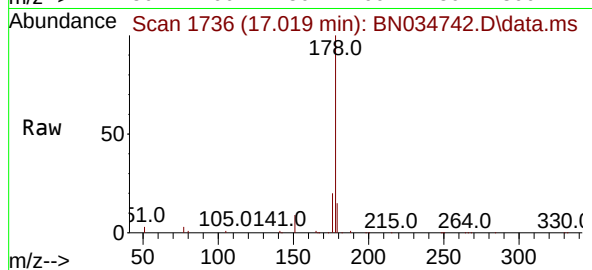
Tgt Ion:178 Resp: 30001

Ion Ratio Lower Upper

178 100

176 19.2 15.4 23.0

179 15.3 12.2 18.4



#26

Anthracene

Concen: 0.360 ng

RT: 17.106 min Scan# 1743

Delta R.T. 0.000 min

Lab File: BN034742.D

Acq: 30 Oct 2024 10:32

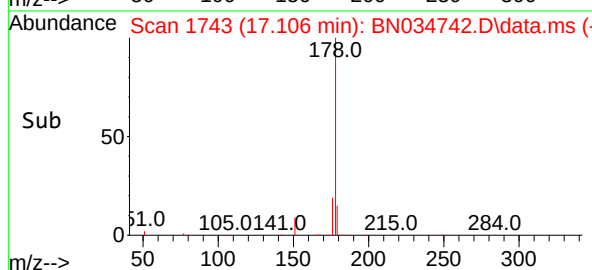
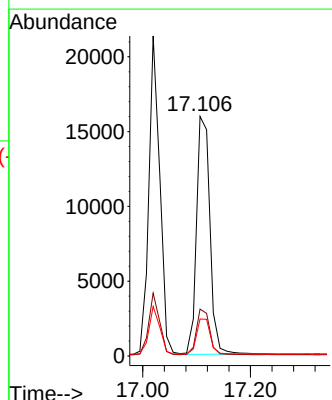
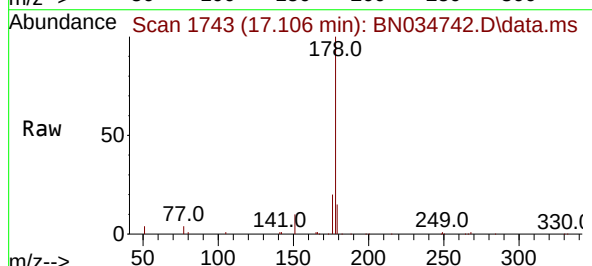
Tgt Ion:178 Resp: 27599

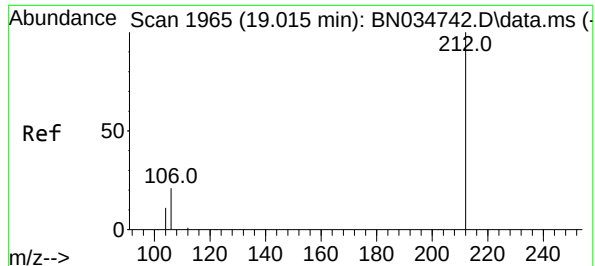
Ion Ratio Lower Upper

178 100

176 18.9 15.0 22.6

179 15.2 12.2 18.2





#27

Fluoranthene-d10

Concen: 0.362 ng

RT: 19.015 min Scan# 1965

Delta R.T. 0.000 min

Lab File: BN034742.D

Acq: 30 Oct 2024 10:32

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

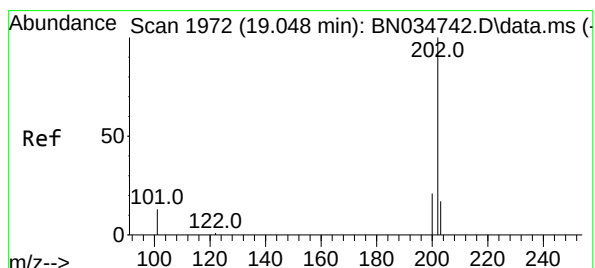
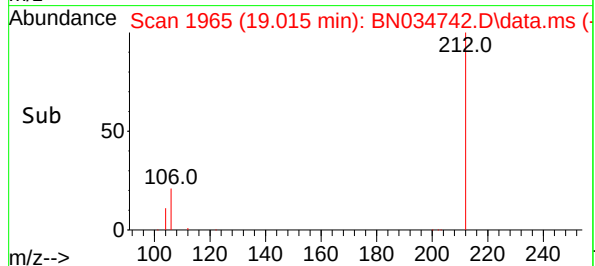
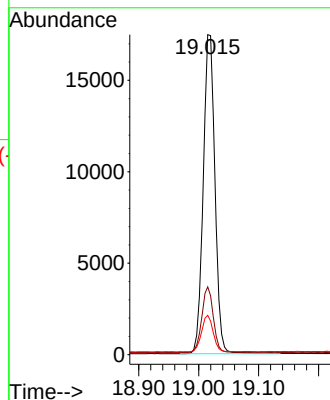
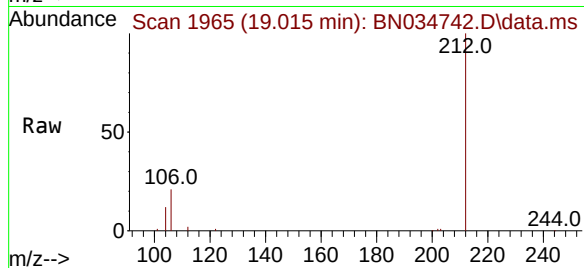
Tgt Ion:212 Resp: 23668

Ion Ratio Lower Upper

212 100

106 20.1 16.1 24.1

104 11.5 9.2 13.8



#28

Fluoranthene

Concen: 0.362 ng

RT: 19.048 min Scan# 1972

Delta R.T. 0.000 min

Lab File: BN034742.D

Acq: 30 Oct 2024 10:32

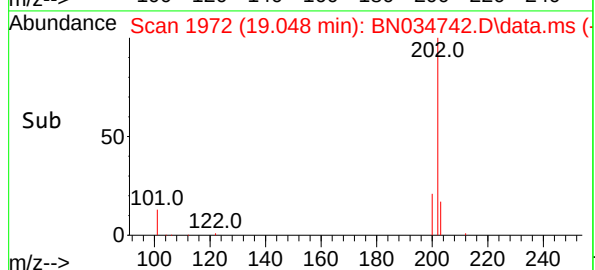
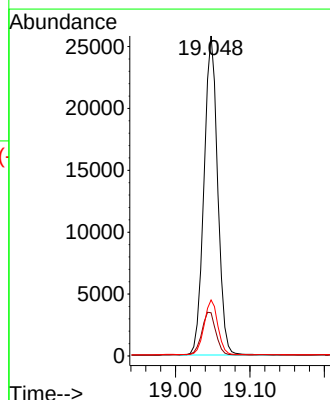
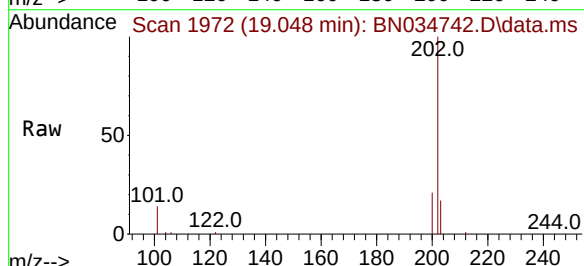
Tgt Ion:202 Resp: 32726

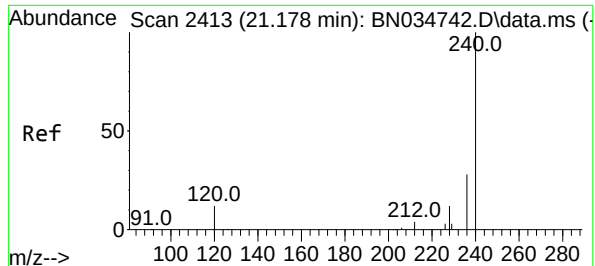
Ion Ratio Lower Upper

202 100

101 14.2 11.4 17.0

203 17.1 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.178 min Scan# 2413

Delta R.T. 0.000 min

Lab File: BN034742.D

Acq: 30 Oct 2024 10:32

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

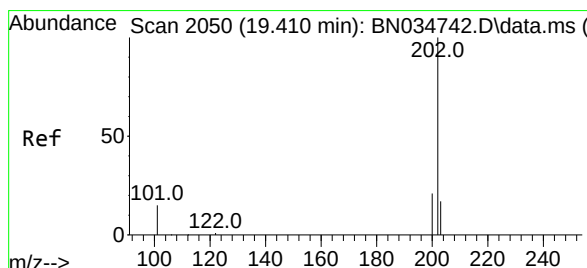
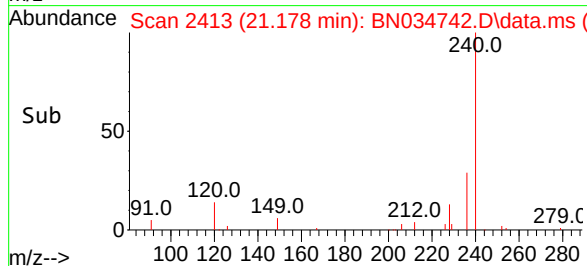
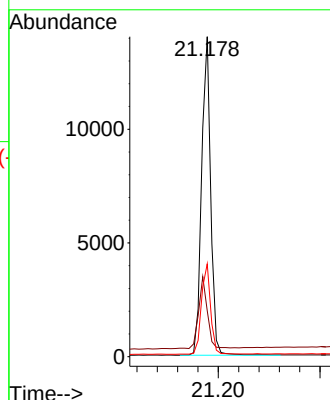
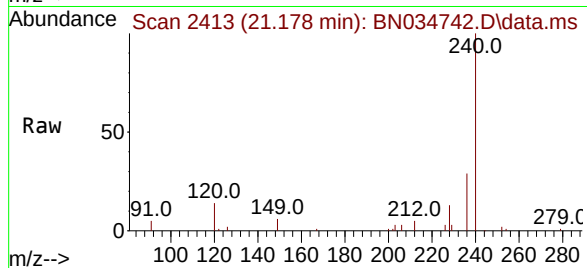
Tgt Ion:240 Resp: 17310

Ion Ratio Lower Upper

240 100

120 14.4 11.5 17.3

236 29.0 23.2 34.8



#30

Pyrene

Concen: 0.368 ng

RT: 19.410 min Scan# 2050

Delta R.T. 0.000 min

Lab File: BN034742.D

Acq: 30 Oct 2024 10:32

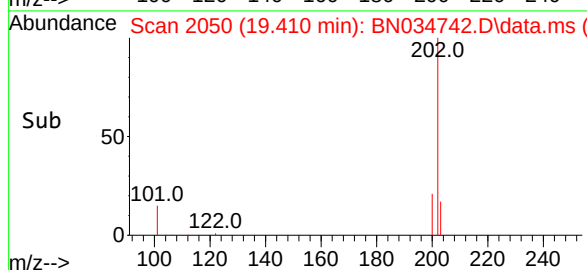
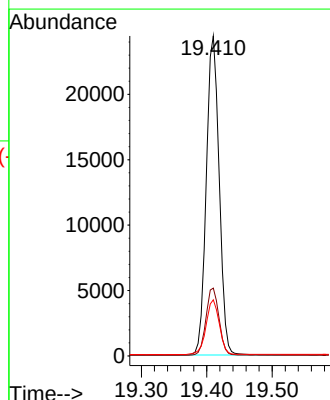
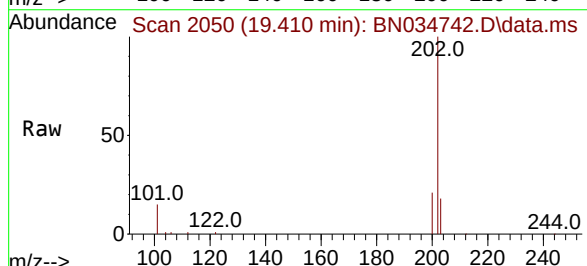
Tgt Ion:202 Resp: 33335

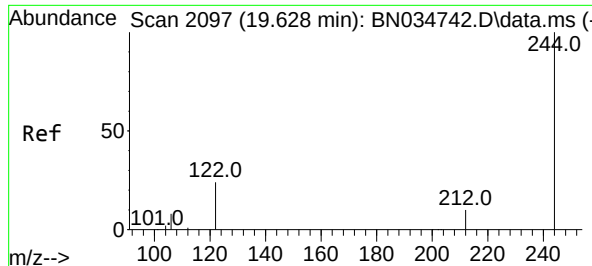
Ion Ratio Lower Upper

202 100

200 21.2 17.0 25.4

203 17.7 14.2 21.2

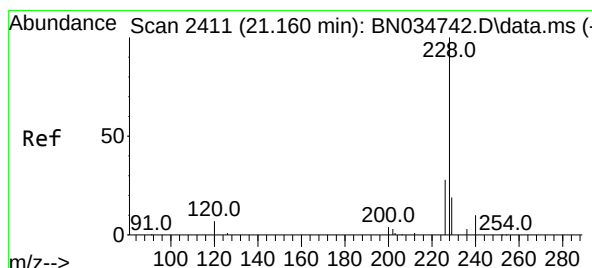
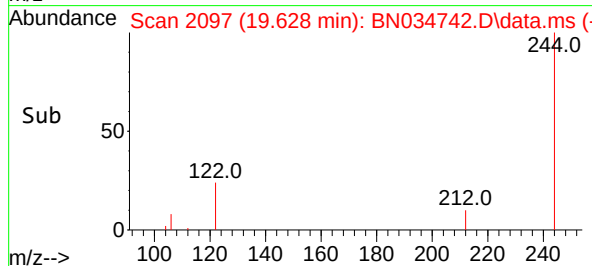
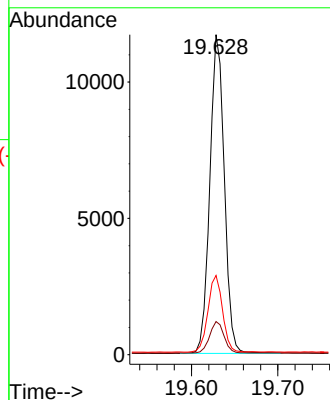
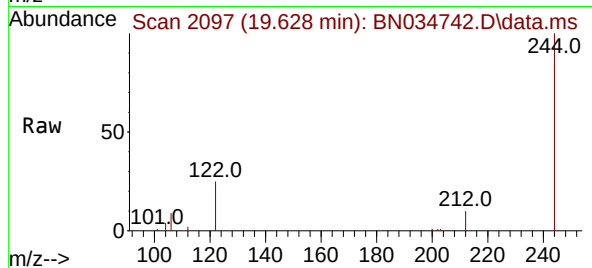




#31
Terphenyl-d14
Concen: 0.367 ng
RT: 19.628 min Scan# 2097
Delta R.T. 0.000 min
Lab File: BN034742.D
Acq: 30 Oct 2024 10:32

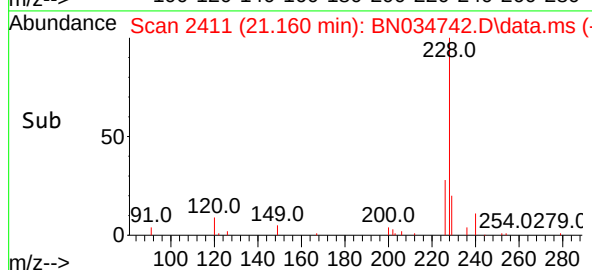
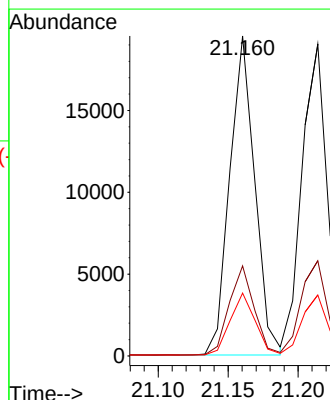
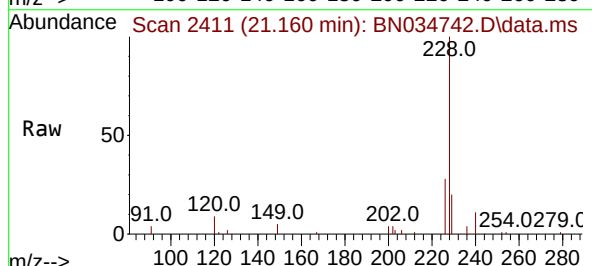
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

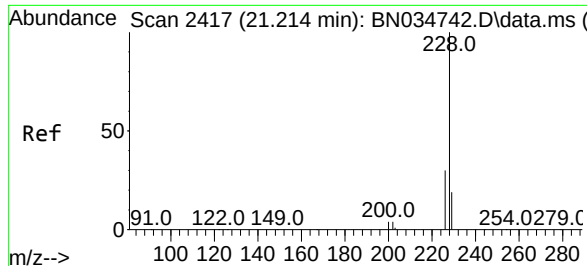
Tgt Ion:244 Resp: 13647
Ion Ratio Lower Upper
244 100
212 10.3 8.2 12.4
122 24.7 19.8 29.6



#32
Benzo(a)anthracene
Concen: 0.353 ng
RT: 21.160 min Scan# 2411
Delta R.T. 0.000 min
Lab File: BN034742.D
Acq: 30 Oct 2024 10:32

Tgt Ion:228 Resp: 24331
Ion Ratio Lower Upper
228 100
226 28.2 22.6 33.8
229 19.6 15.7 23.5





#33

Chrysene

Concen: 0.361 ng

RT: 21.214 min Scan# 2417

Delta R.T. 0.000 min

Lab File: BN034742.D

Acq: 30 Oct 2024 10:32

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

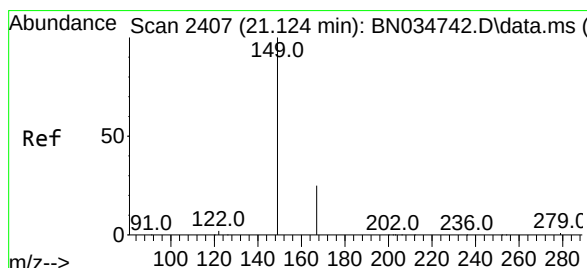
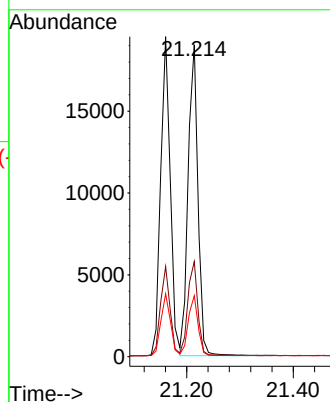
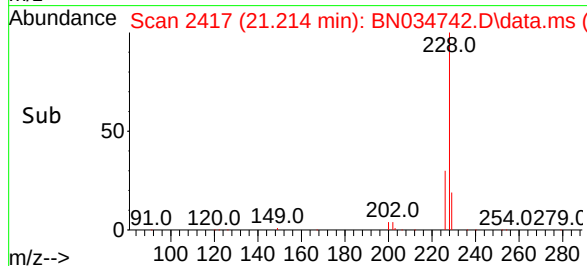
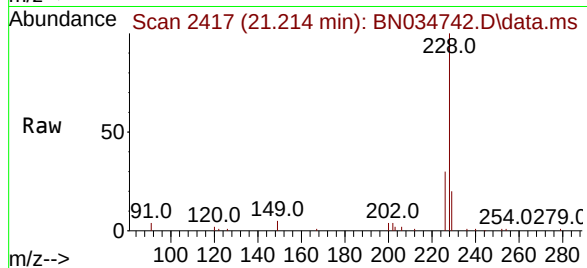
Tgt Ion:228 Resp: 24332

Ion Ratio Lower Upper

228 100

226 30.5 24.4 36.6

229 19.5 15.6 23.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.388 ng

RT: 21.124 min Scan# 2407

Delta R.T. 0.000 min

Lab File: BN034742.D

Acq: 30 Oct 2024 10:32

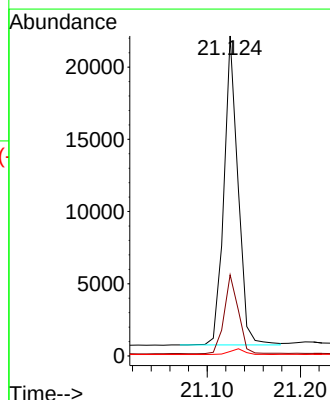
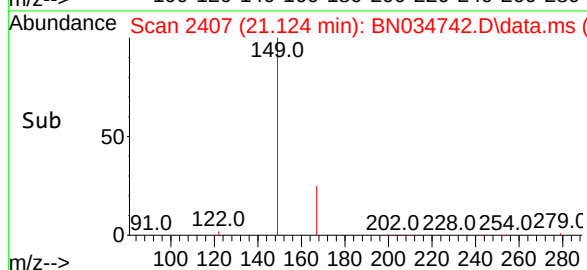
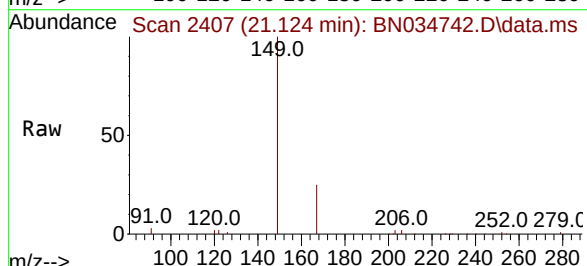
Tgt Ion:149 Resp: 22344

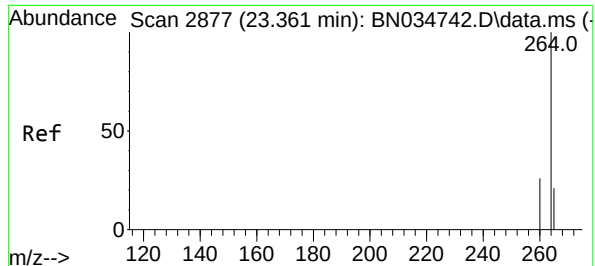
Ion Ratio Lower Upper

149 100

167 25.7 20.6 30.8

279 1.9 1.5 2.3





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.361 min Scan# 2877

Delta R.T. 0.000 min

Lab File: BN034742.D

Acq: 30 Oct 2024 10:32

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

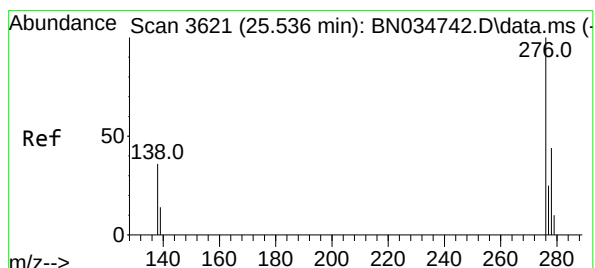
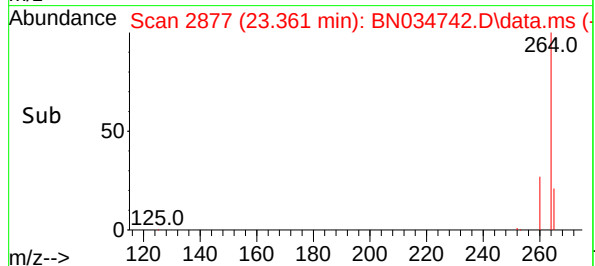
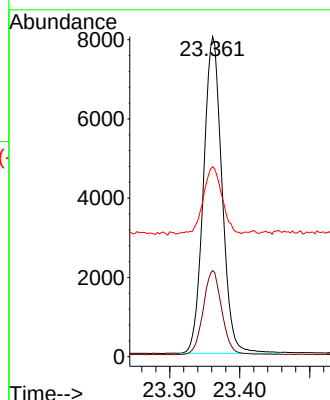
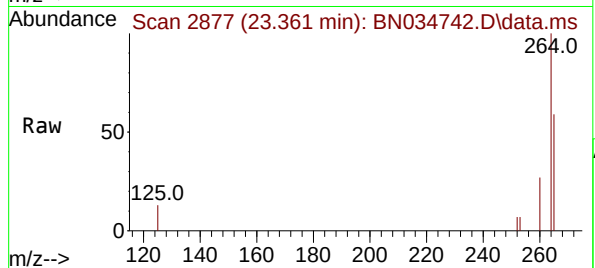
Tgt Ion:264 Resp: 14673

Ion Ratio Lower Upper

264 100

260 26.9 21.5 32.3

265 59.4 47.5 71.3



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.362 ng

RT: 25.536 min Scan# 3621

Delta R.T. 0.000 min

Lab File: BN034742.D

Acq: 30 Oct 2024 10:32

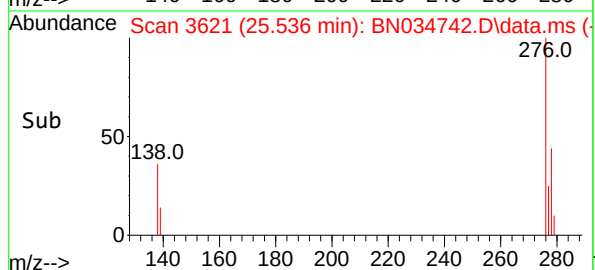
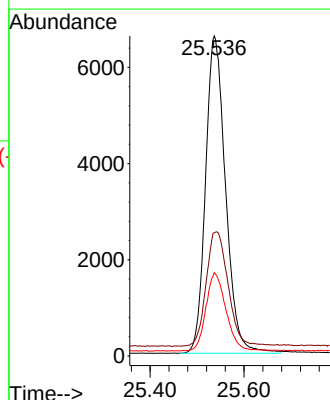
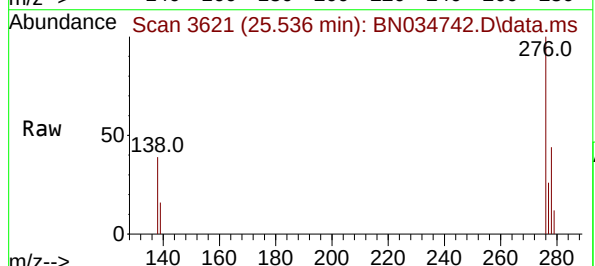
Tgt Ion:276 Resp: 19549

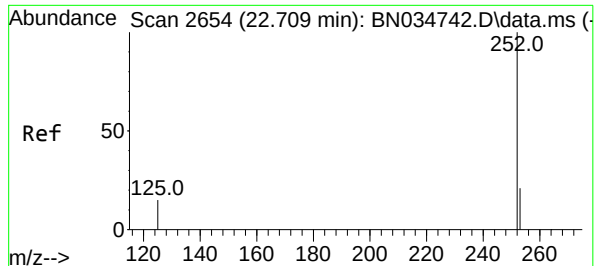
Ion Ratio Lower Upper

276 100

138 39.4 31.5 47.3

277 24.6 19.7 29.5





#37

Benzo(b)fluoranthene

Concen: 0.360 ng

RT: 22.709 min Scan# 2654

Delta R.T. 0.000 min

Lab File: BN034742.D

Acq: 30 Oct 2024 10:32

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

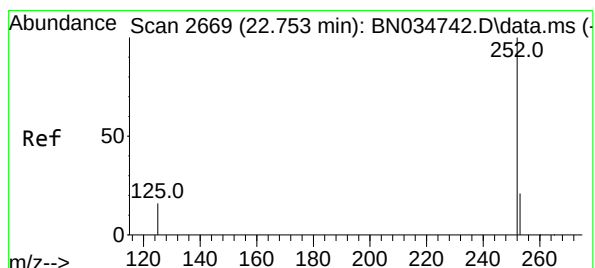
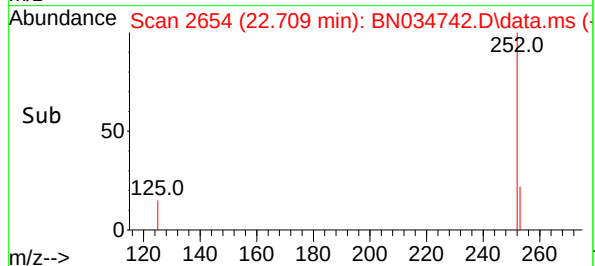
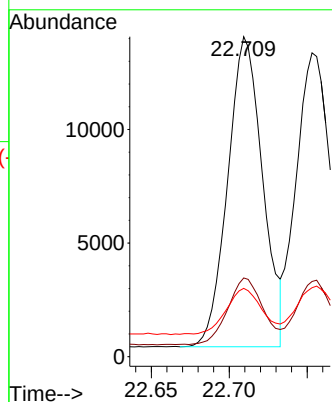
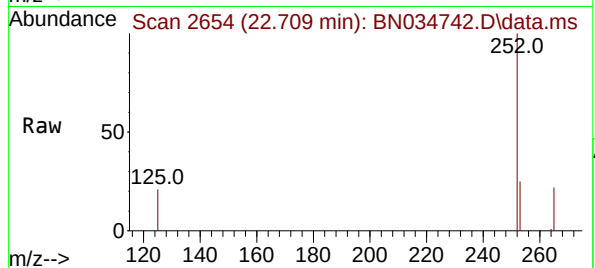
Tgt Ion:252 Resp: 21276

Ion Ratio Lower Upper

252 100

253 24.6 19.7 29.5

125 21.4 17.1 25.7



#38

Benzo(k)fluoranthene

Concen: 0.355 ng

RT: 22.753 min Scan# 2669

Delta R.T. 0.000 min

Lab File: BN034742.D

Acq: 30 Oct 2024 10:32

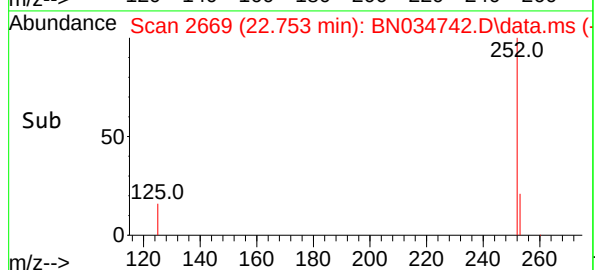
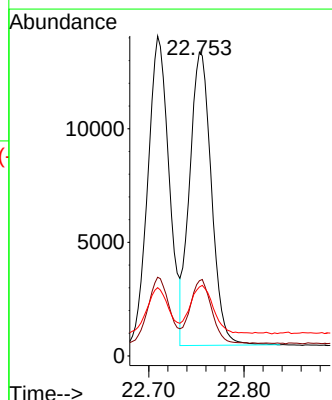
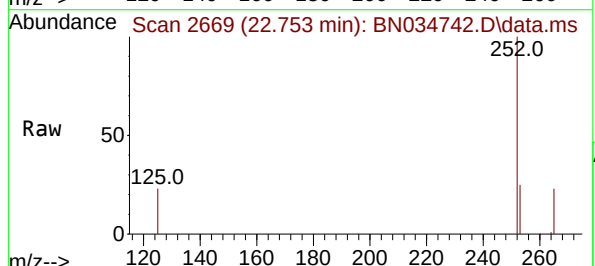
Tgt Ion:252 Resp: 20480

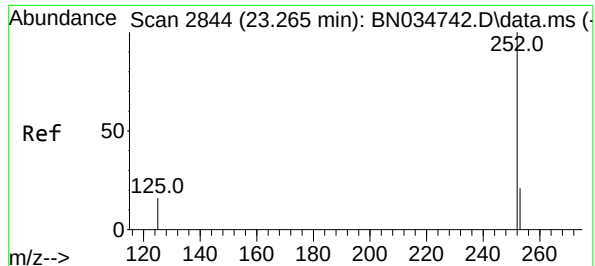
Ion Ratio Lower Upper

252 100

253 24.7 19.8 29.6

125 22.7 18.2 27.2





#39

Benzo(a)pyrene

Concen: 0.355 ng

RT: 23.265 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN034742.D

Acq: 30 Oct 2024 10:32

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

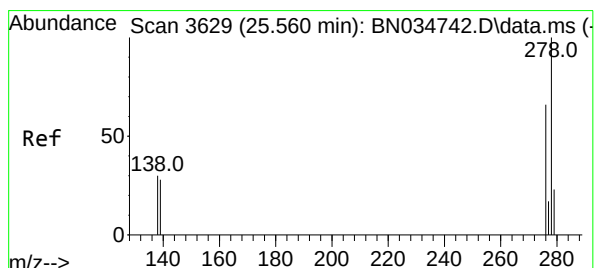
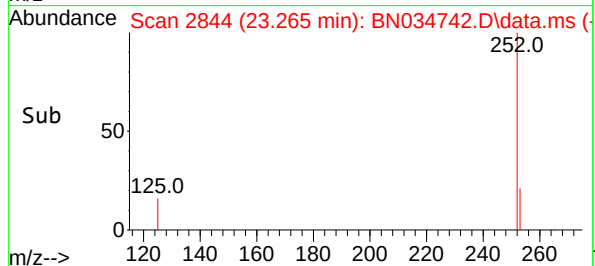
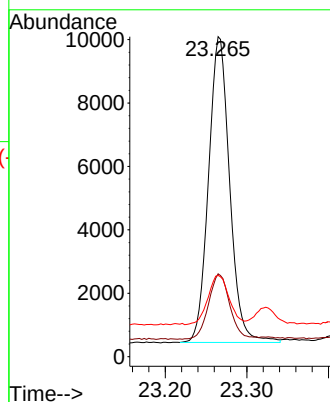
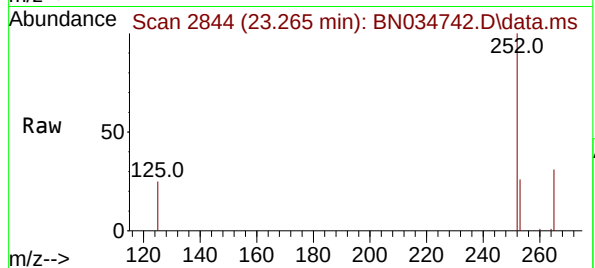
Tgt Ion:252 Resp: 17327

Ion Ratio Lower Upper

252 100

253 25.9 20.7 31.1

125 25.4 20.3 30.5



#40

Dibenzo(a,h)anthracene

Concen: 0.361 ng

RT: 25.560 min Scan# 3629

Delta R.T. 0.000 min

Lab File: BN034742.D

Acq: 30 Oct 2024 10:32

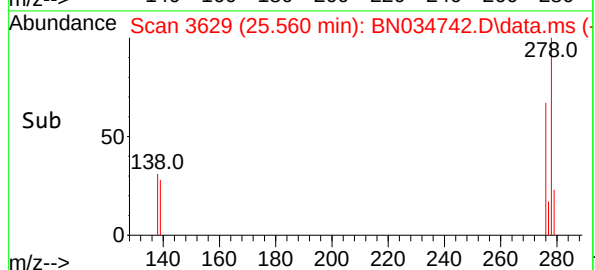
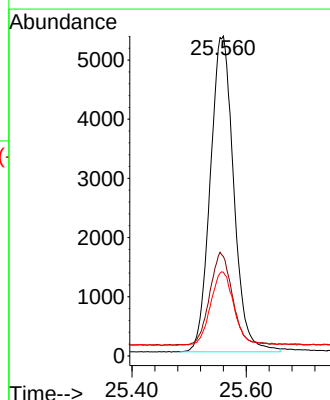
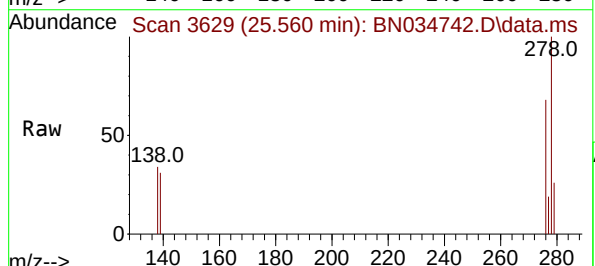
Tgt Ion:278 Resp: 15182

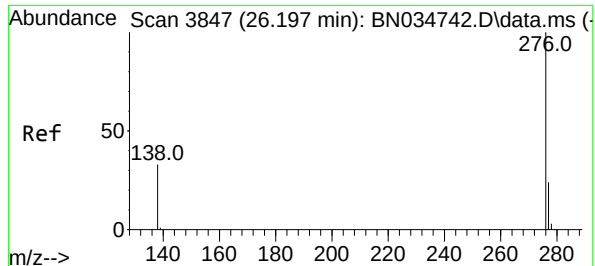
Ion Ratio Lower Upper

278 100

139 31.1 24.9 37.3

279 26.2 21.0 31.4





#41

Benzo(g,h,i)perylene

Concen: 0.367 ng

RT: 26.197 min Scan# 3847

Delta R.T. 0.000 min

Lab File: BN034742.D

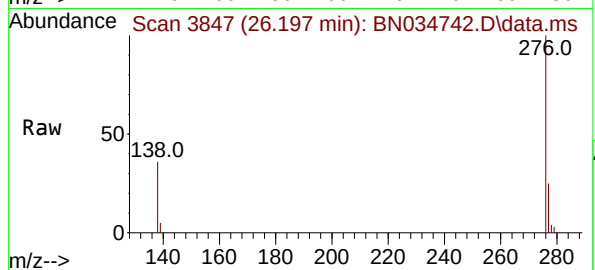
Acq: 30 Oct 2024 10:32

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4



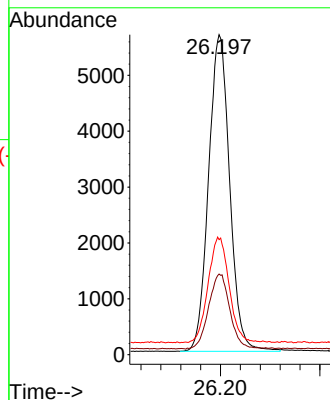
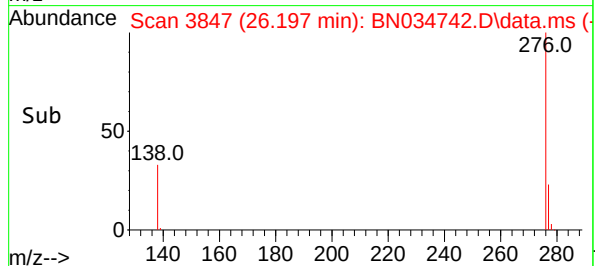
Tgt Ion:276 Resp: 16694

Ion Ratio Lower Upper

276 100

277 25.2 20.2 30.2

138 35.9 28.7 43.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN103024\
 Data File : BN034743.D
 Acq On : 30 Oct 2024 11:08
 Operator : RC/JU
 Sample : SSTDICC0.8
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.8

Quant Time: Oct 30 13:32:45 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 30 13:28:24 2024
 Response via : Initial Calibration

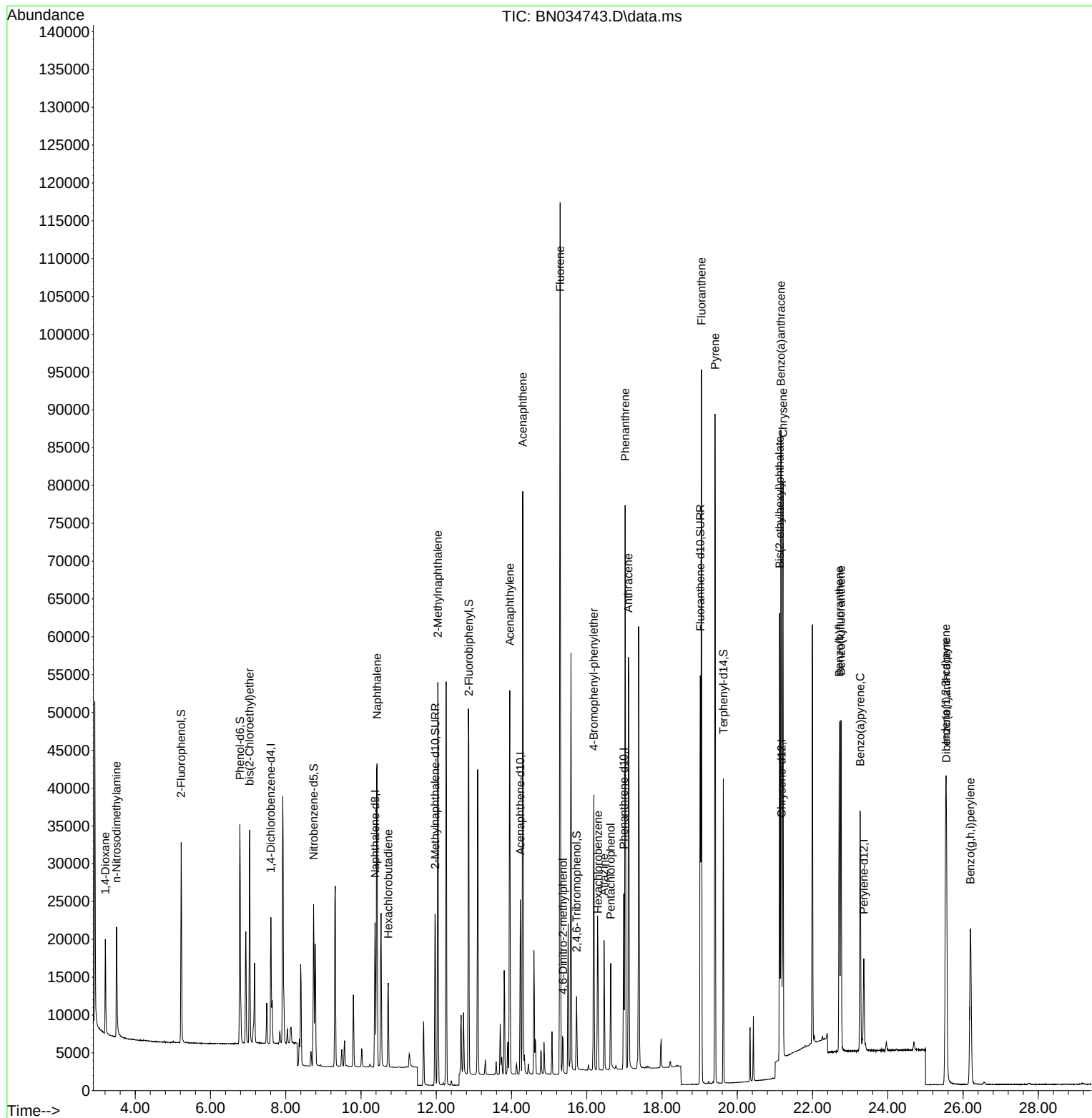
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.604	152	7844	0.400	ng	0.00
7) Naphthalene-d8	10.372	136	23416	0.400	ng	0.00
13) Acenaphthene-d10	14.233	164	12641	0.400	ng	0.00
19) Phenanthrene-d10	16.982	188	27616	0.400	ng	0.00
29) Chrysene-d12	21.178	240	17392	0.400	ng	0.00
35) Perylene-d12	23.361	264	14751	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.220	112	20290	0.854	ng	0.00
5) Phenol-d6	6.780	99	26015	0.843	ng	0.00
8) Nitrobenzene-d5	8.739	82	15848	0.861	ng	0.00
11) 2-Methylnaphthalene-d10	11.969	152	29411	0.868	ng	0.00
14) 2,4,6-Tribromophenol	15.728	330	5165	0.827	ng	0.00
15) 2-Fluorobiphenyl	12.864	172	43648	0.877	ng	0.00
27) Fluoranthene-d10	19.015	212	55546	0.858	ng	0.00
31) Terphenyl-d14	19.628	244	32374	0.867	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.205	88	7250	0.843	ng	95
3) n-Nitrosodimethylamine	3.502	42	8426	0.869	ng	100
6) bis(2-Chloroethyl)ether	7.040	93	19568	0.868	ng	100
9) Naphthalene	10.426	128	55797	0.862	ng	99
10) Hexachlorobutadiene	10.725	225	9215	0.864	ng	# 99
12) 2-Methylnaphthalene	12.041	142	36777	0.868	ng	99
16) Acenaphthylene	13.955	152	54517	0.860	ng	100
17) Acenaphthene	14.297	154	36855	0.872	ng	99
18) Fluorene	15.291	166	45912	0.872	ng	99
20) 4,6-Dinitro-2-methylph...	15.366	198	3291	0.802	ng	# 69
21) 4-Bromophenyl-phenylether	16.188	248	13565	0.849	ng	100
22) Hexachlorobenzene	16.299	284	15374	0.859	ng	99
23) Atrazine	16.461	200	11835	0.860	ng	99
24) Pentachlorophenol	16.635	266	6270	0.814	ng	98
25) Phenanthrene	17.019	178	70004	0.862	ng	100
26) Anthracene	17.106	178	64216	0.845	ng	100
28) Fluoranthene	19.048	202	77562	0.866	ng	100
30) Pyrene	19.410	202	79305	0.872	ng	100
32) Benzo(a)anthracene	21.160	228	59862	0.865	ng	99
33) Chrysene	21.214	228	58705	0.866	ng	100
34) Bis(2-ethylhexyl)phtha...	21.125	149	48274	0.834	ng	100
36) Indeno(1,2,3-cd)pyrene	25.539	276	46389	0.855	ng	100
37) Benzo(b)fluoranthene	22.709	252	51704	0.871	ng	94
38) Benzo(k)fluoranthene	22.753	252	50258	0.867	ng	94
39) Benzo(a)pyrene	23.265	252	42305	0.863	ng	# 92
40) Dibenzo(a,h)anthracene	25.557	278	36275	0.857	ng	96
41) Benzo(g,h,i)perylene	26.194	276	39205	0.857	ng	99

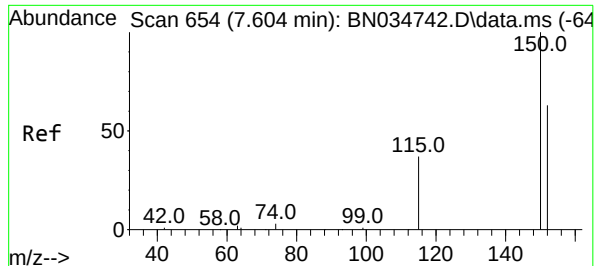
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN103024\
Data File : BN034743.D
Acq On : 30 Oct 2024 11:08
Operator : RC/JU
Sample : SSTDIC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDIC0.8

Quant Time: Oct 30 13:32:45 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 30 13:28:24 2024
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.604 min Scan# 61

Delta R.T. -0.000 min

Lab File: BN034743.D

Acq: 30 Oct 2024 11:08

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

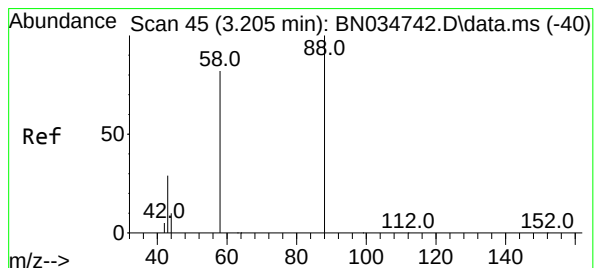
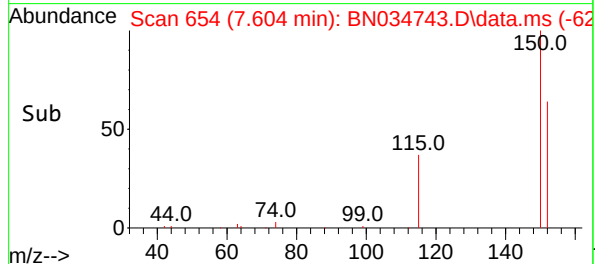
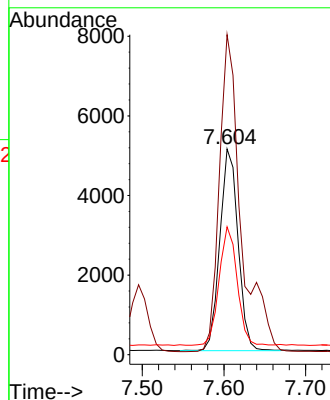
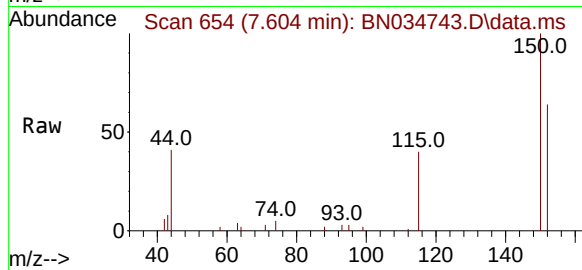
Tgt Ion:152 Resp: 7844

Ion Ratio Lower Upper

152 100

150 155.5 124.9 187.3

115 62.1 50.2 75.2



#2

1,4-Dioxane

Concen: 0.843 ng

RT: 3.205 min Scan# 45

Delta R.T. 0.000 min

Lab File: BN034743.D

Acq: 30 Oct 2024 11:08

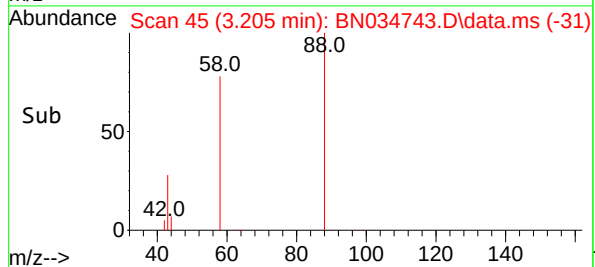
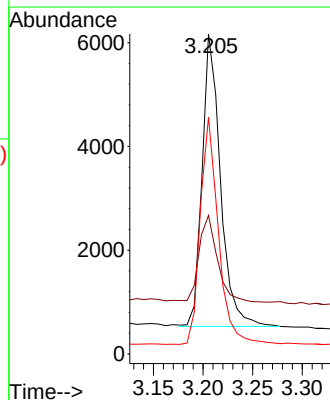
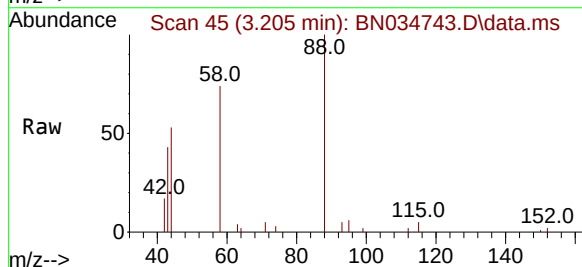
Tgt Ion: 88 Resp: 7250

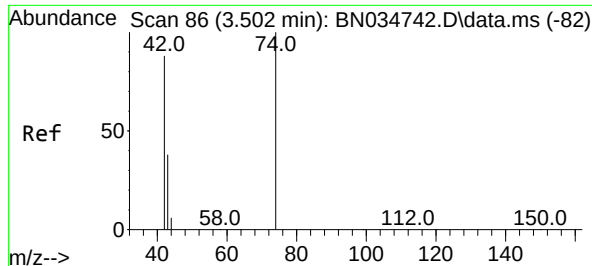
Ion Ratio Lower Upper

88 100

43 29.6 26.7 40.1

58 77.2 59.3 88.9

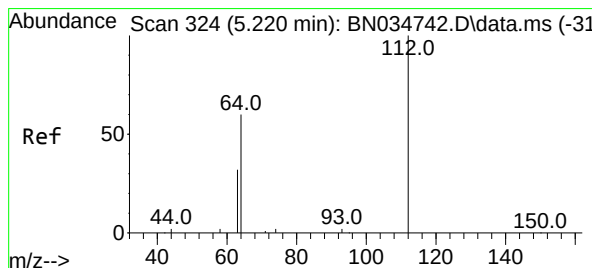
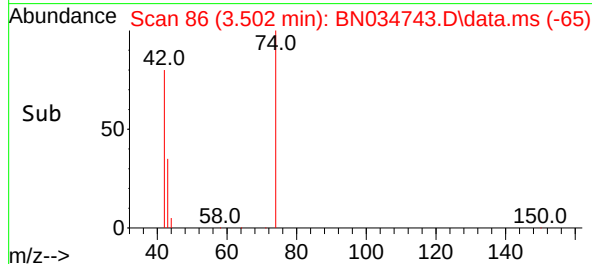
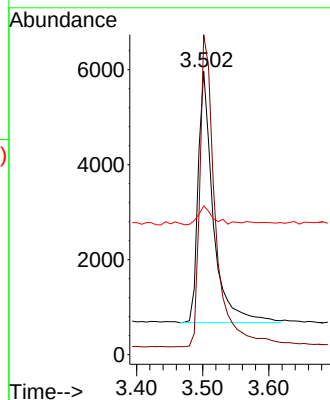
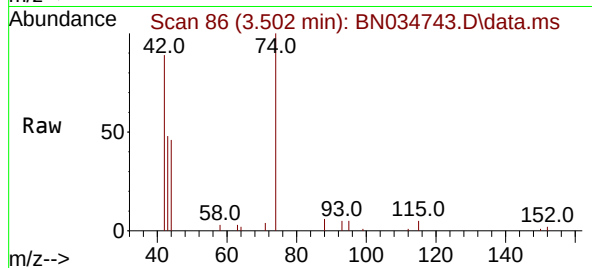




#3
n-Nitrosodimethylamine
Concen: 0.869 ng
RT: 3.502 min Scan# 86
Delta R.T. 0.000 min
Lab File: BN034743.D
Acq: 30 Oct 2024 11:08

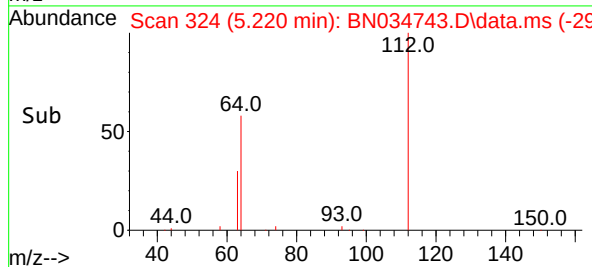
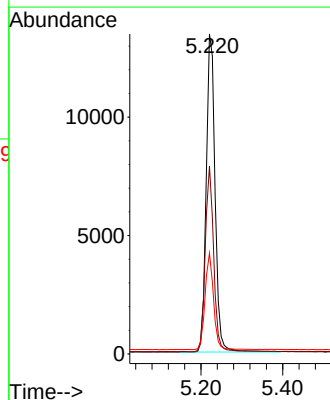
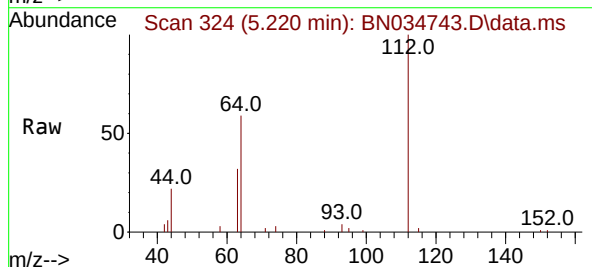
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

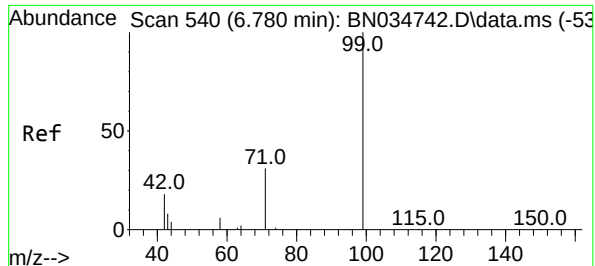
Tgt Ion: 42 Resp: 8426
Ion Ratio Lower Upper
42 100
74 129.0 103.1 154.7
44 7.4 6.7 10.1



#4
2-Fluorophenol
Concen: 0.854 ng
RT: 5.220 min Scan# 324
Delta R.T. 0.000 min
Lab File: BN034743.D
Acq: 30 Oct 2024 11:08

Tgt Ion: 112 Resp: 20290
Ion Ratio Lower Upper
112 100
64 55.8 44.9 67.3
63 29.2 23.5 35.3

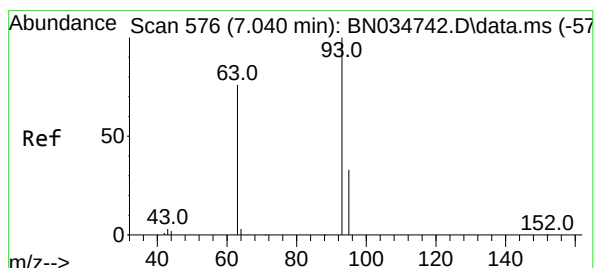
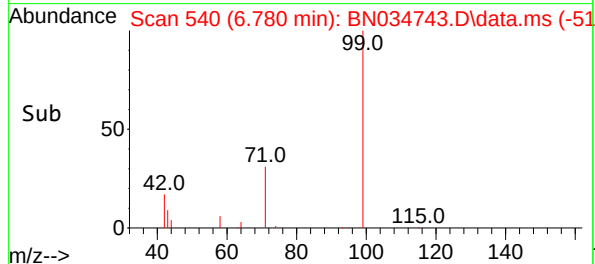
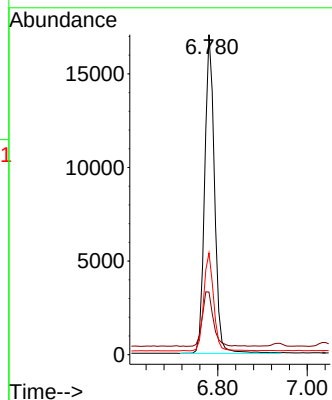
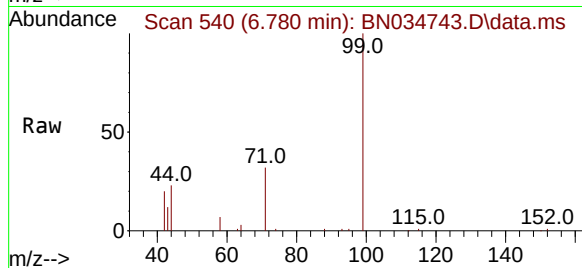




#5
Phenol-d6
Concen: 0.843 ng
RT: 6.780 min Scan# 540
Delta R.T. 0.000 min
Lab File: BN034743.D
Acq: 30 Oct 2024 11:08

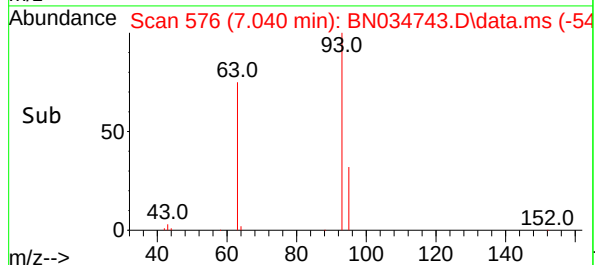
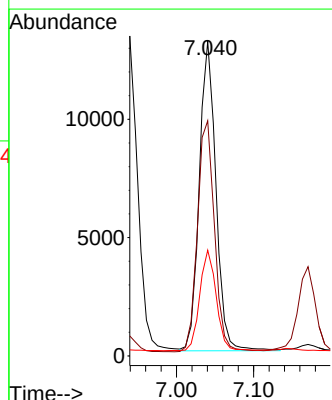
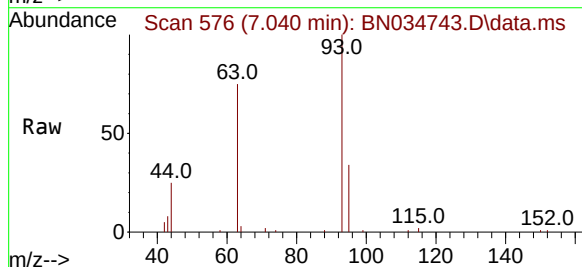
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

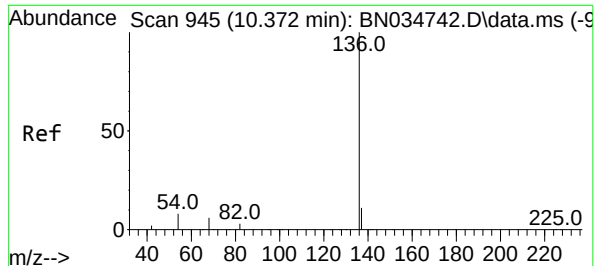
Tgt Ion: 99 Resp: 26015
Ion Ratio Lower Upper
99 100
42 19.2 15.9 23.9
71 31.1 24.3 36.5



#6
bis(2-Chloroethyl)ether
Concen: 0.868 ng
RT: 7.040 min Scan# 576
Delta R.T. 0.000 min
Lab File: BN034743.D
Acq: 30 Oct 2024 11:08

Tgt Ion: 93 Resp: 19568
Ion Ratio Lower Upper
93 100
63 76.8 61.2 91.8
95 32.2 25.8 38.8

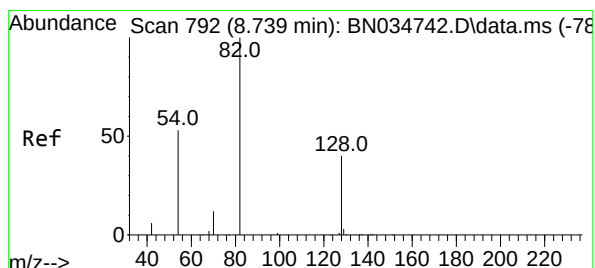
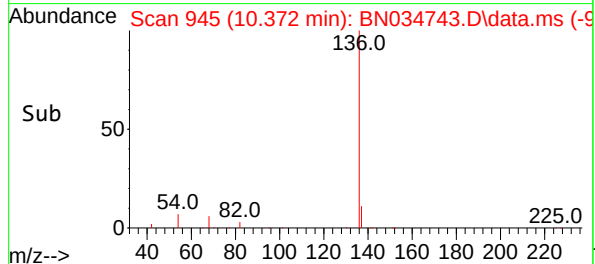
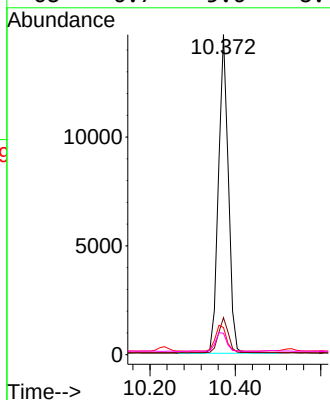
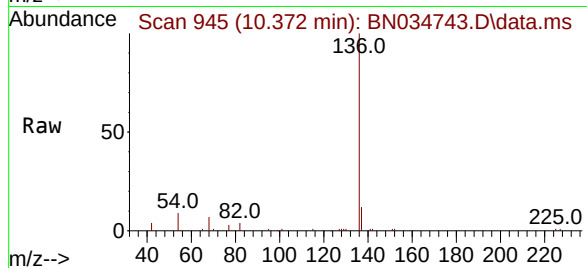




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.372 min Scan# 945
Delta R.T. 0.000 min
Lab File: BN034743.D
Acq: 30 Oct 2024 11:08

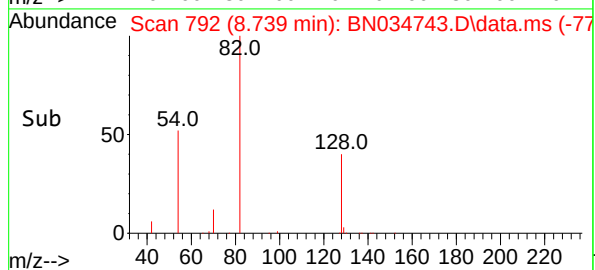
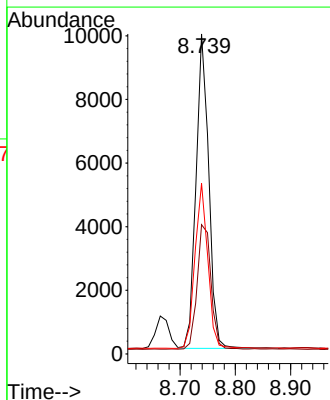
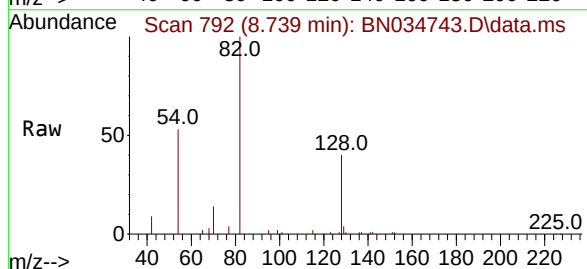
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

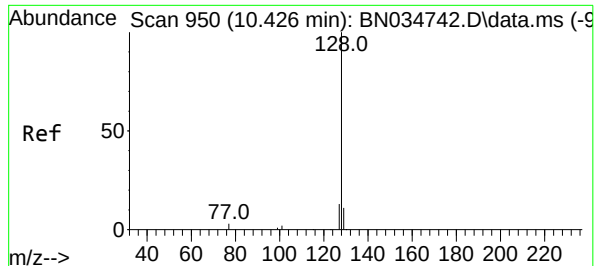
Tgt Ion:	136	Resp:	23416
Ion	Ratio	Lower	Upper
136	100		
137	11.5	9.2	13.8
54	8.5	7.0	10.4
68	6.7	5.6	8.4



#8
Nitrobenzene-d5
Concen: 0.861 ng
RT: 8.739 min Scan# 792
Delta R.T. 0.000 min
Lab File: BN034743.D
Acq: 30 Oct 2024 11:08

Tgt Ion:	82	Resp:	15848
Ion	Ratio	Lower	Upper
82	100		
128	40.4	33.7	50.5
54	53.3	44.4	66.6





#9

Naphthalene

Concen: 0.862 ng

RT: 10.426 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN034743.D

Acq: 30 Oct 2024 11:08

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

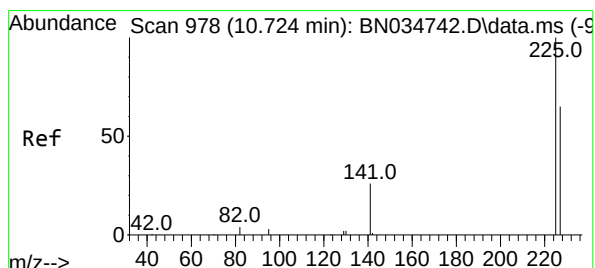
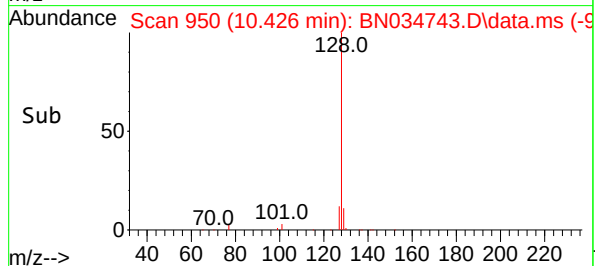
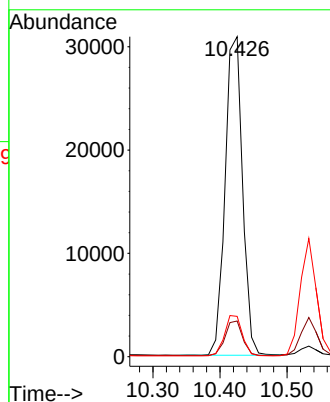
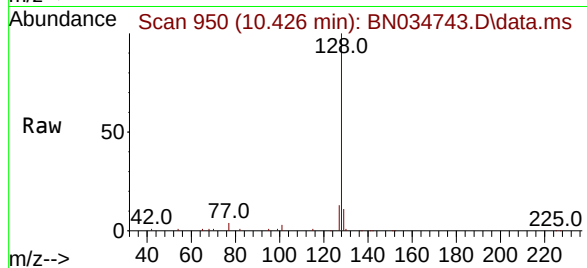
Tgt Ion:128 Resp: 55797

Ion Ratio Lower Upper

128 100

129 11.1 9.4 14.0

127 12.6 10.6 15.8



#10

Hexachlorobutadiene

Concen: 0.864 ng

RT: 10.725 min Scan# 978

Delta R.T. 0.000 min

Lab File: BN034743.D

Acq: 30 Oct 2024 11:08

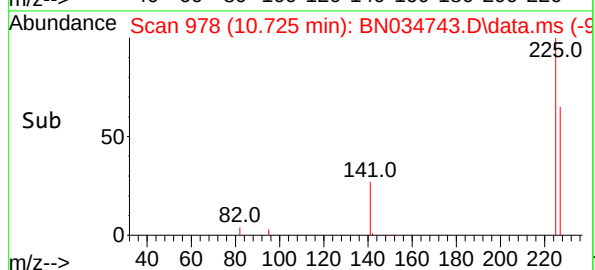
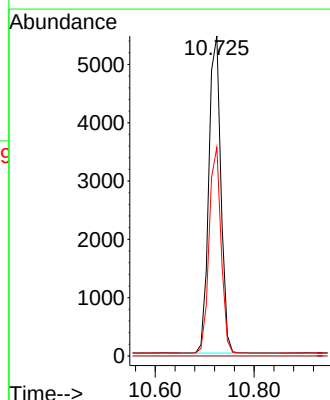
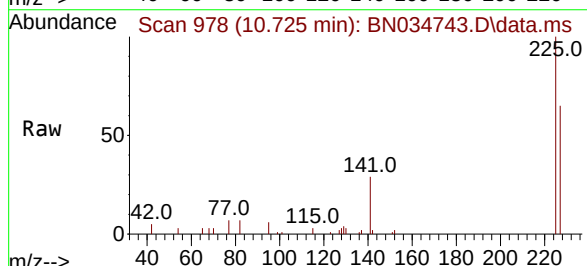
Tgt Ion:225 Resp: 9215

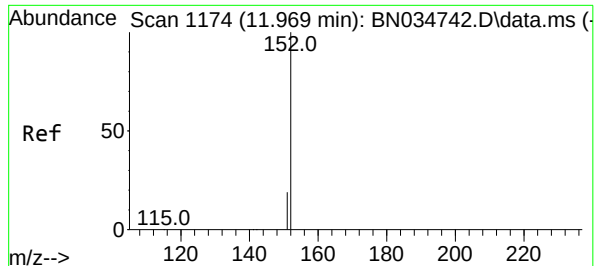
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.9 51.4 77.2

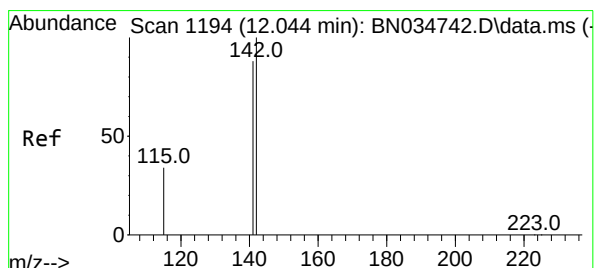
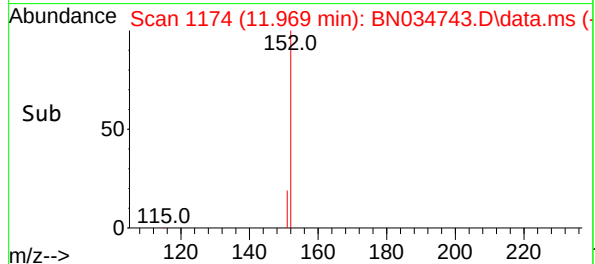
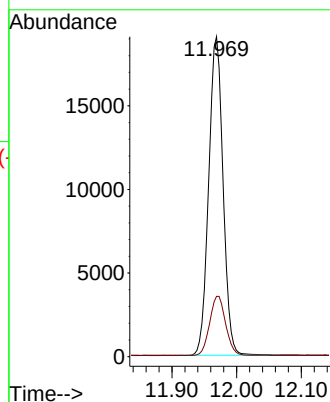
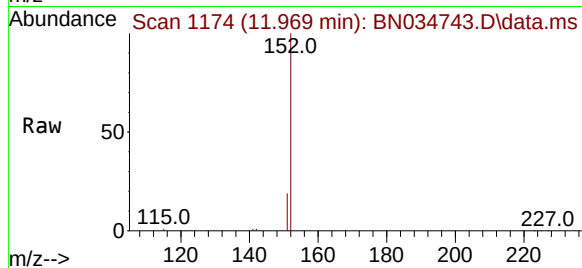




#11
2-Methylnaphthalene-d10
Concen: 0.868 ng
RT: 11.969 min Scan# 1174
Delta R.T. 0.000 min
Lab File: BN034743.D
Acq: 30 Oct 2024 11:08

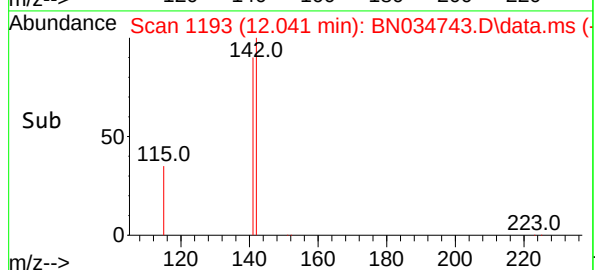
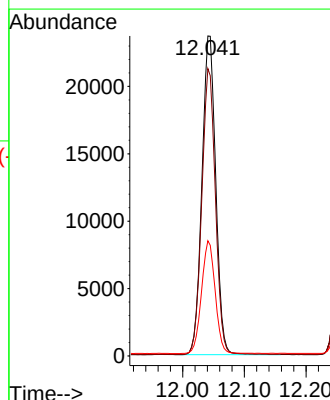
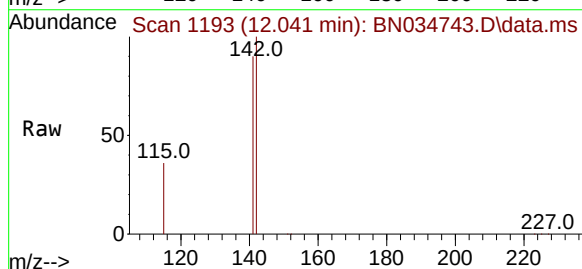
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

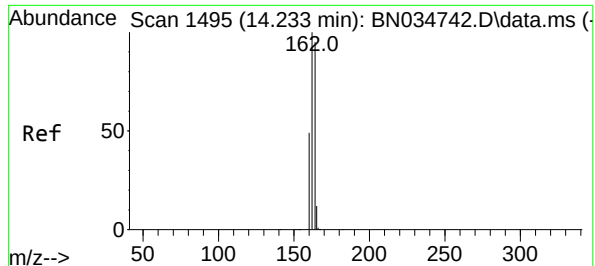
Tgt Ion:152 Resp: 29411
Ion Ratio Lower Upper
152 100
151 20.6 16.6 24.8



#12
2-Methylnaphthalene
Concen: 0.868 ng
RT: 12.041 min Scan# 1193
Delta R.T. -0.004 min
Lab File: BN034743.D
Acq: 30 Oct 2024 11:08

Tgt Ion:142 Resp: 36777
Ion Ratio Lower Upper
142 100
141 89.8 70.6 106.0
115 36.0 28.6 42.8

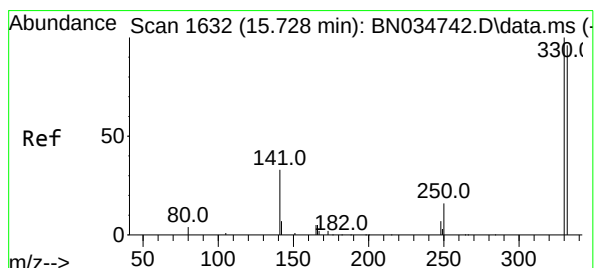
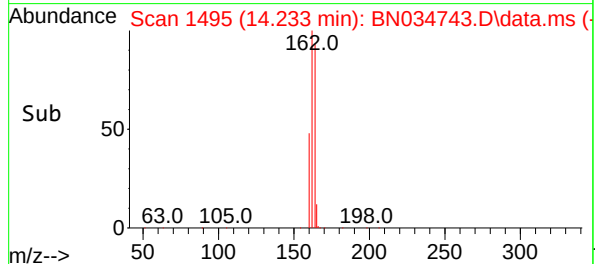
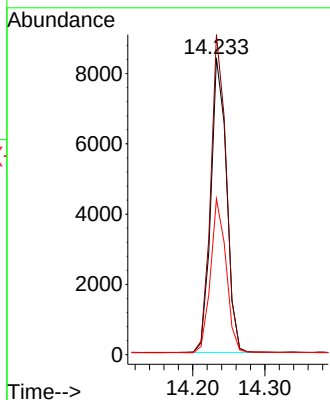
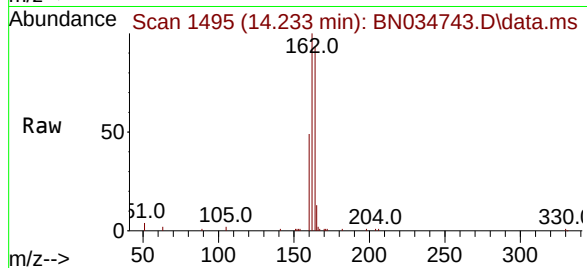




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.233 min Scan# 1495
Delta R.T. 0.000 min
Lab File: BN034743.D
Acq: 30 Oct 2024 11:08

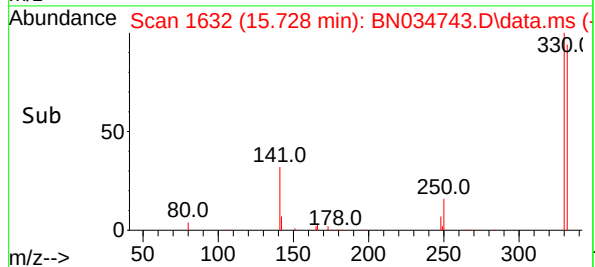
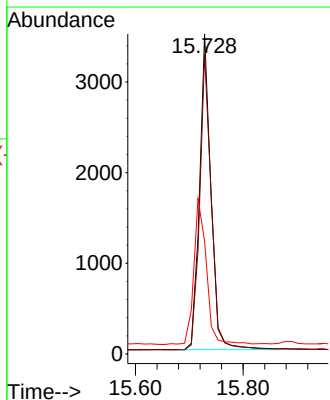
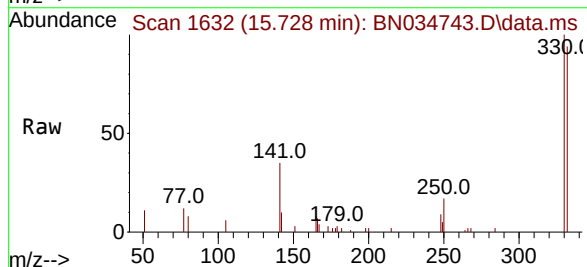
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.8

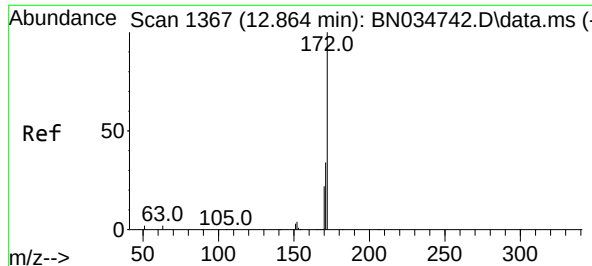
Tgt Ion:164 Resp: 12641
Ion Ratio Lower Upper
164 100
162 107.8 84.3 126.5
160 52.5 41.7 62.5



#14
2,4,6-Tribromophenol
Concen: 0.827 ng
RT: 15.728 min Scan# 1632
Delta R.T. 0.000 min
Lab File: BN034743.D
Acq: 30 Oct 2024 11:08

Tgt Ion:330 Resp: 5165
Ion Ratio Lower Upper
330 100
332 95.5 77.8 116.6
141 50.6 41.0 61.4

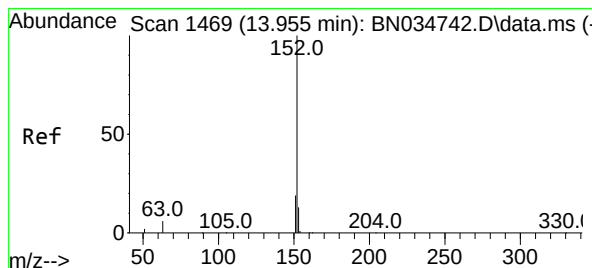
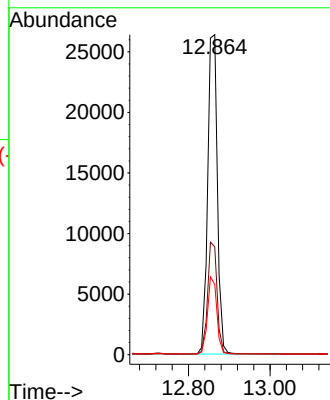
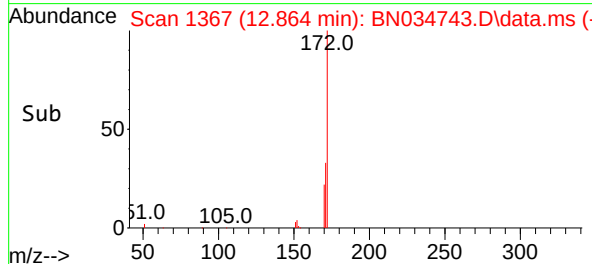
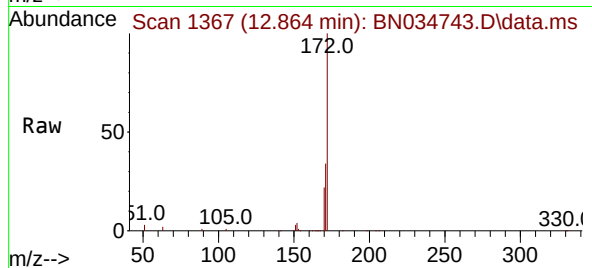




#15
2-Fluorobiphenyl
Concen: 0.877 ng
RT: 12.864 min Scan# 1367
Delta R.T. 0.000 min
Lab File: BN034743.D
Acq: 30 Oct 2024 11:08

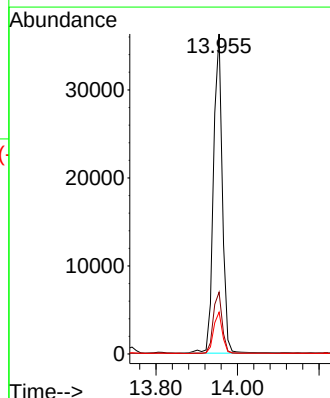
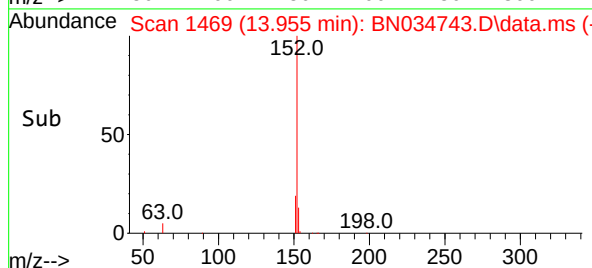
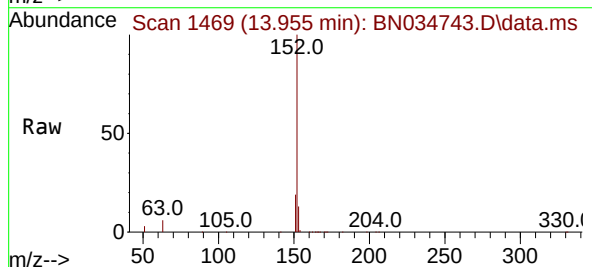
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

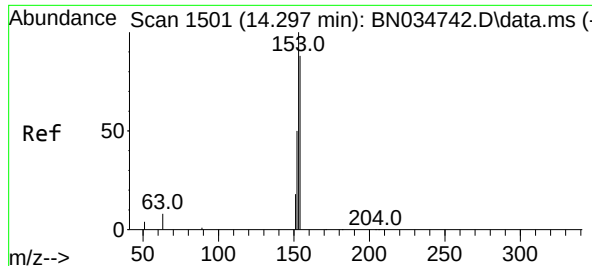
Tgt Ion:172 Resp: 43648
Ion Ratio Lower Upper
172 100
171 33.7 27.2 40.8
170 22.0 18.0 27.0



#16
Acenaphthylene
Concen: 0.860 ng
RT: 13.955 min Scan# 1469
Delta R.T. 0.000 min
Lab File: BN034743.D
Acq: 30 Oct 2024 11:08

Tgt Ion:152 Resp: 54517
Ion Ratio Lower Upper
152 100
151 19.3 15.4 23.2
153 12.8 10.2 15.4

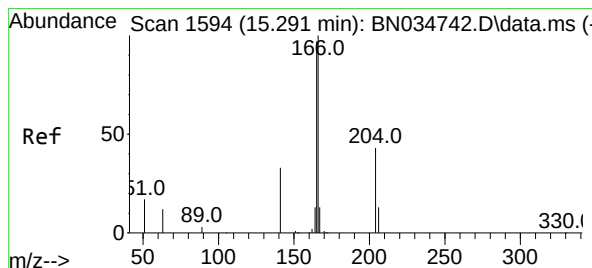
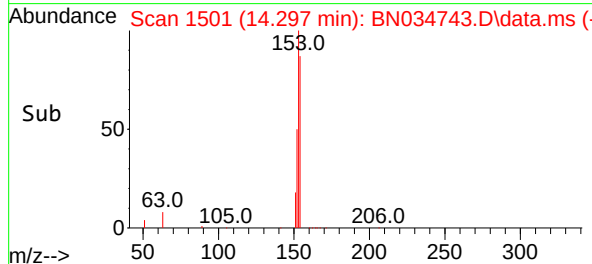
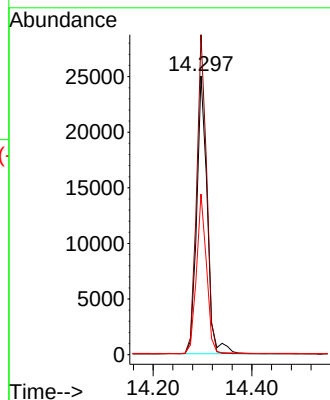
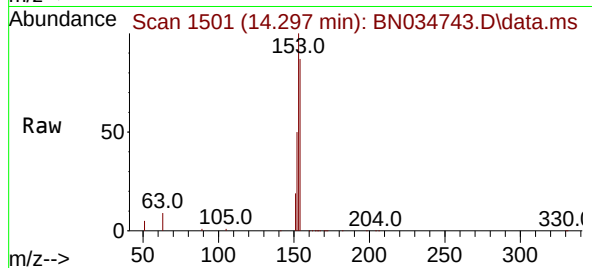




#17
Acenaphthene
Concen: 0.872 ng
RT: 14.297 min Scan# 1501
Delta R.T. 0.000 min
Lab File: BN034743.D
Acq: 30 Oct 2024 11:08

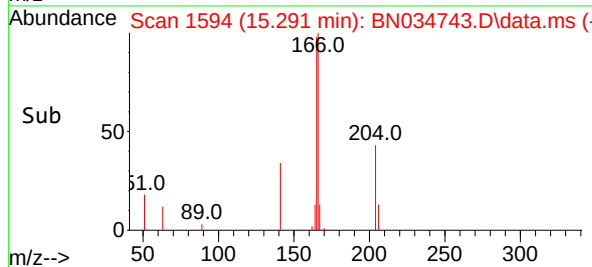
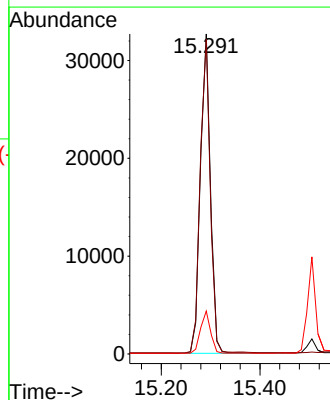
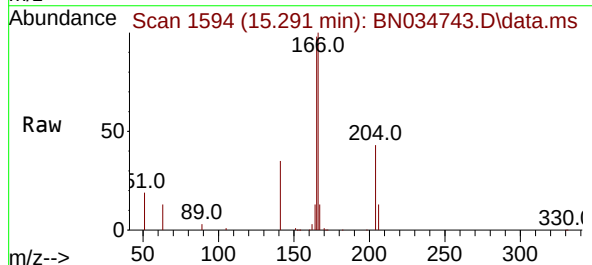
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

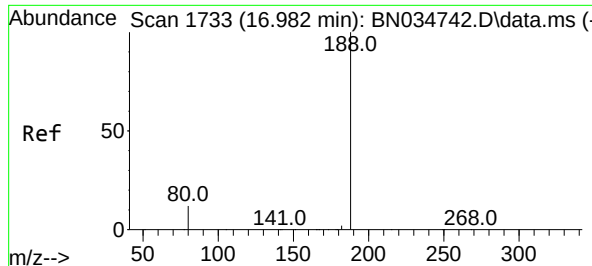
Tgt Ion:154 Resp: 36855
Ion Ratio Lower Upper
154 100
153 109.4 87.8 131.6
152 54.9 44.6 67.0



#18
Fluorene
Concen: 0.872 ng
RT: 15.291 min Scan# 1594
Delta R.T. 0.000 min
Lab File: BN034743.D
Acq: 30 Oct 2024 11:08

Tgt Ion:166 Resp: 45912
Ion Ratio Lower Upper
166 100
165 98.8 78.5 117.7
167 13.3 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.982 min Scan# 1733

Delta R.T. 0.000 min

Lab File: BN034743.D

Acq: 30 Oct 2024 11:08

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

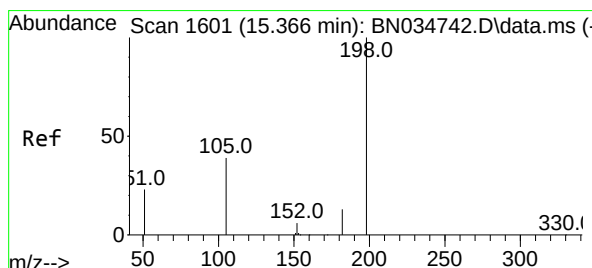
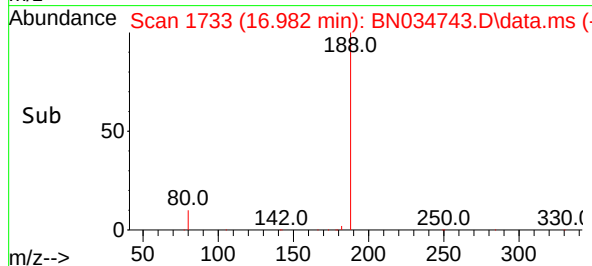
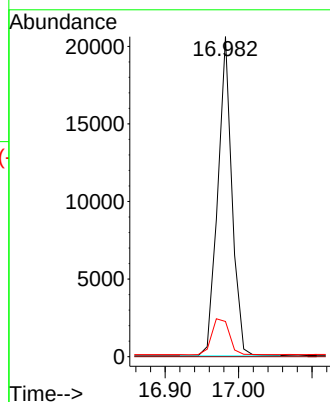
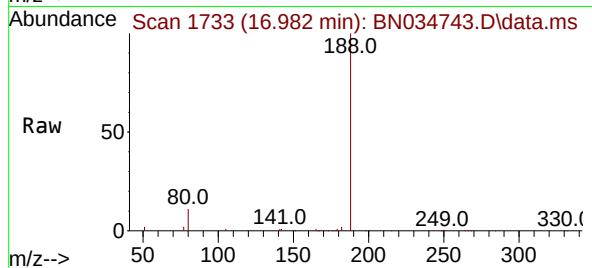
Tgt Ion:188 Resp: 27616

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.0 9.8 14.6



#20

4,6-Dinitro-2-methylphenol

Concen: 0.802 ng

RT: 15.366 min Scan# 1601

Delta R.T. 0.000 min

Lab File: BN034743.D

Acq: 30 Oct 2024 11:08

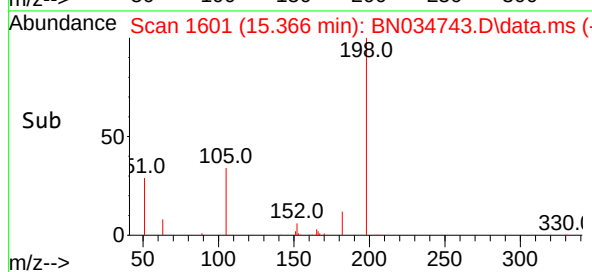
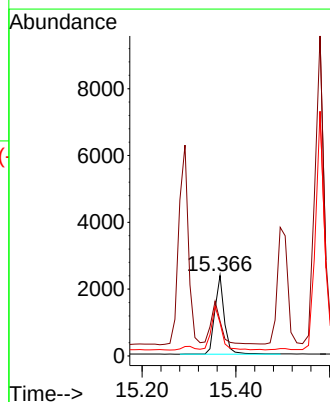
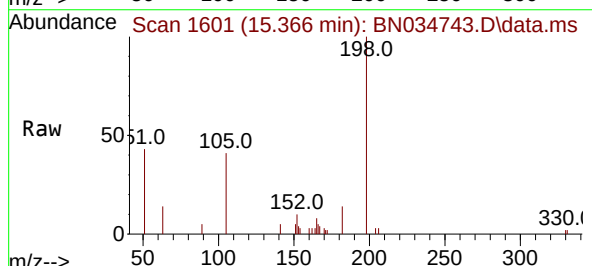
Tgt Ion:198 Resp: 3291

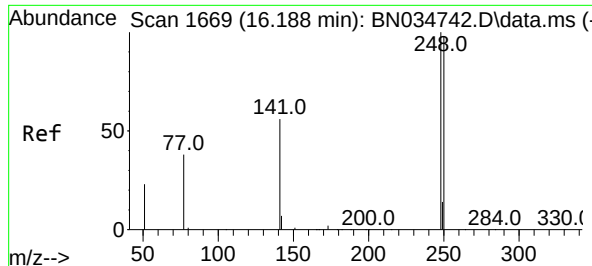
Ion Ratio Lower Upper

198 100

51 43.4 58.0 87.0#

105 41.2 49.1 73.7#





#21

4-Bromophenyl-phenylether

Concen: 0.849 ng

RT: 16.188 min Scan# 1669

Delta R.T. 0.000 min

Lab File: BN034743.D

Acq: 30 Oct 2024 11:08

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

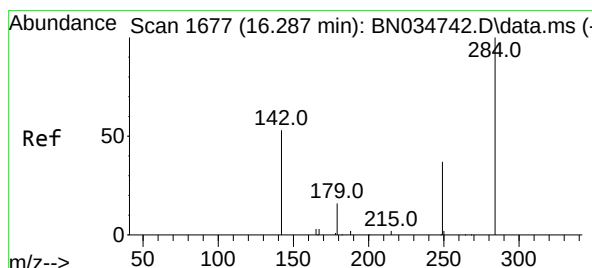
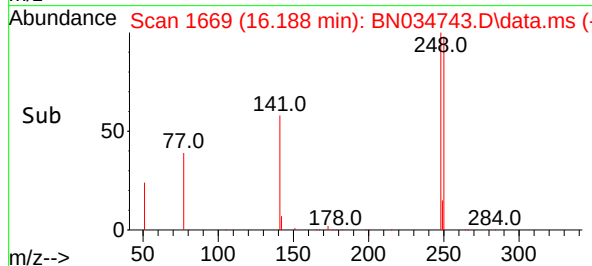
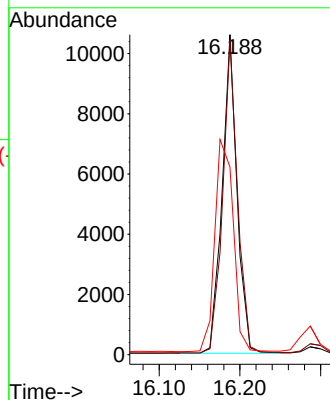
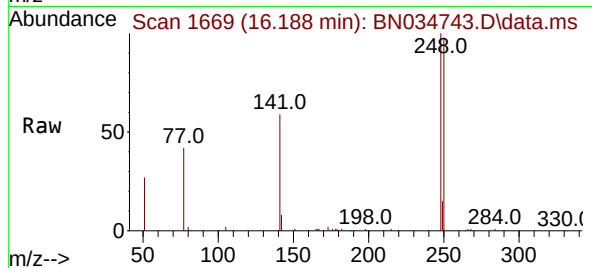
Tgt Ion:248 Resp: 13565

Ion Ratio Lower Upper

248 100

250 98.2 78.7 118.1

141 58.7 46.4 69.6



#22

Hexachlorobenzene

Concen: 0.859 ng

RT: 16.299 min Scan# 1678

Delta R.T. 0.012 min

Lab File: BN034743.D

Acq: 30 Oct 2024 11:08

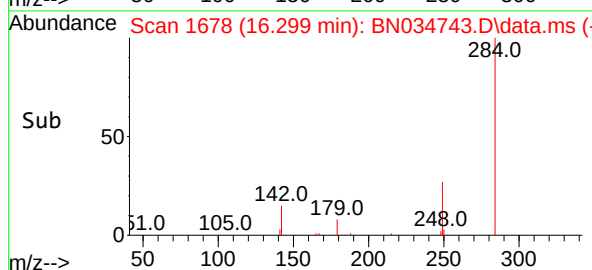
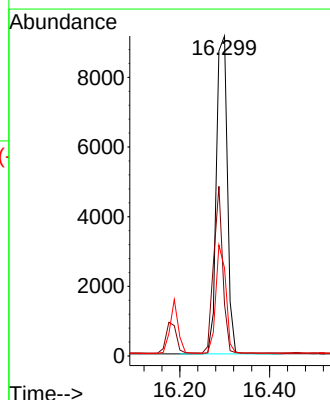
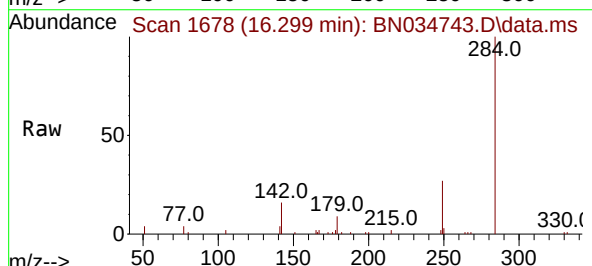
Tgt Ion:284 Resp: 15374

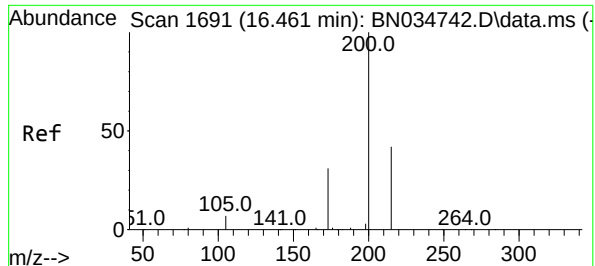
Ion Ratio Lower Upper

284 100

142 43.7 35.4 53.0

249 31.4 25.7 38.5





#23

Atrazine

Concen: 0.860 ng

RT: 16.461 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN034743.D

Acq: 30 Oct 2024 11:08

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

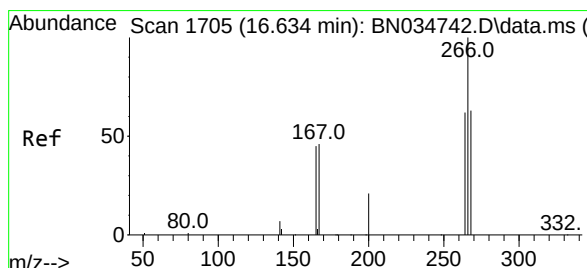
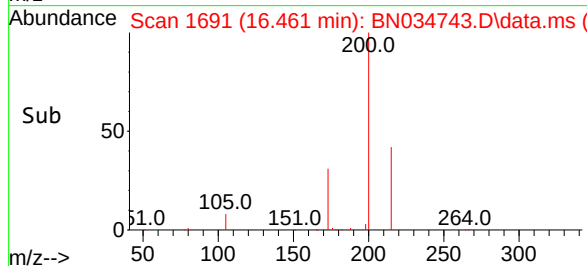
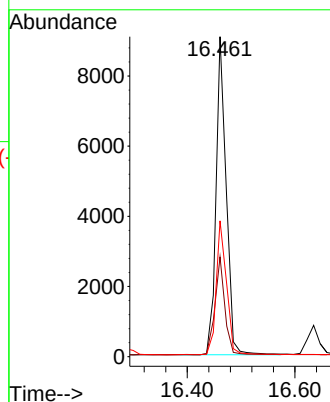
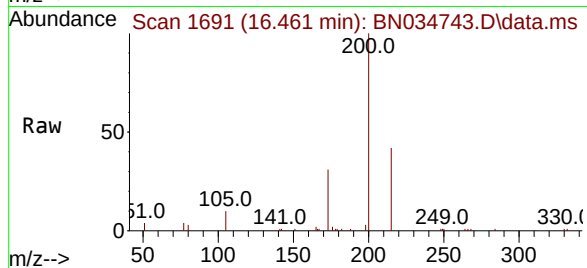
Tgt Ion:200 Resp: 11835

Ion Ratio Lower Upper

200 100

173 31.2 25.8 38.6

215 42.4 34.2 51.4



#24

Pentachlorophenol

Concen: 0.814 ng

RT: 16.635 min Scan# 1705

Delta R.T. 0.001 min

Lab File: BN034743.D

Acq: 30 Oct 2024 11:08

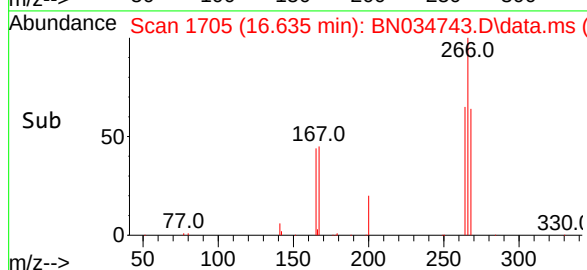
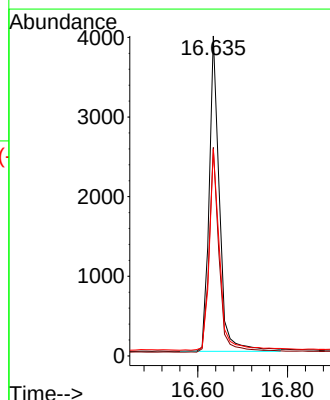
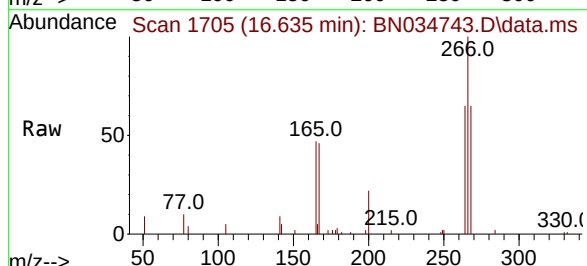
Tgt Ion:266 Resp: 6270

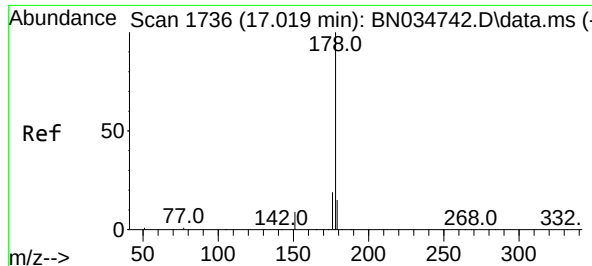
Ion Ratio Lower Upper

266 100

264 63.6 48.7 73.1

268 63.8 50.2 75.4

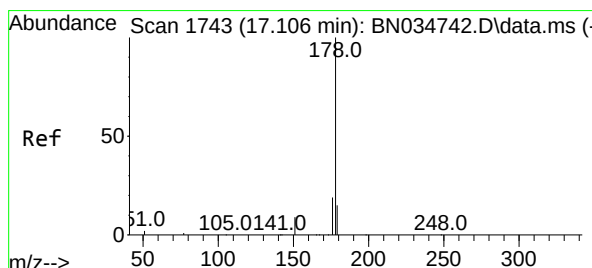
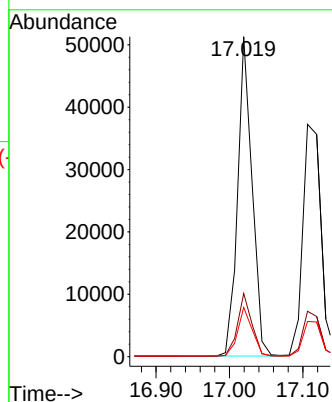
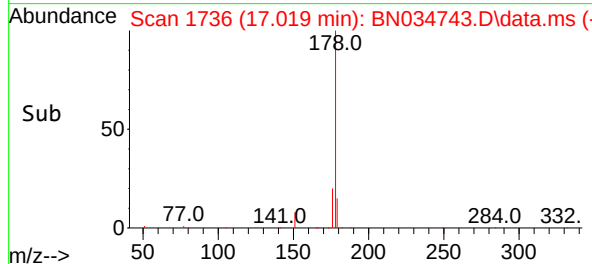
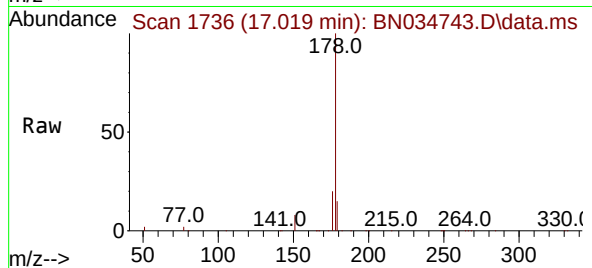




#25
Phenanthrene
Concen: 0.862 ng
RT: 17.019 min Scan# 1736
Delta R.T. 0.000 min
Lab File: BN034743.D
Acq: 30 Oct 2024 11:08

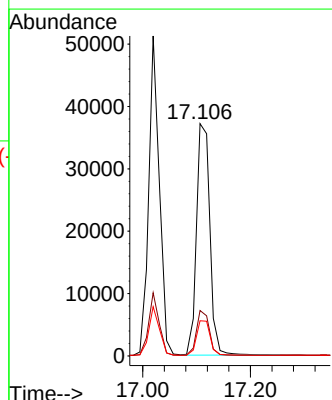
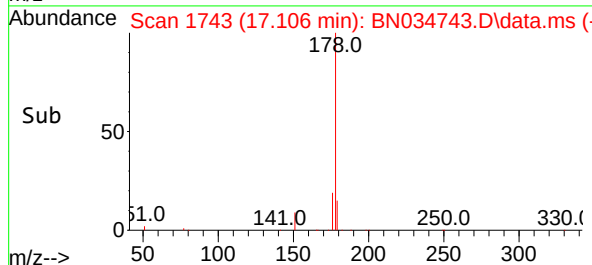
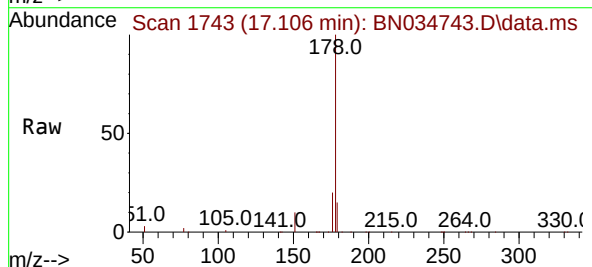
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

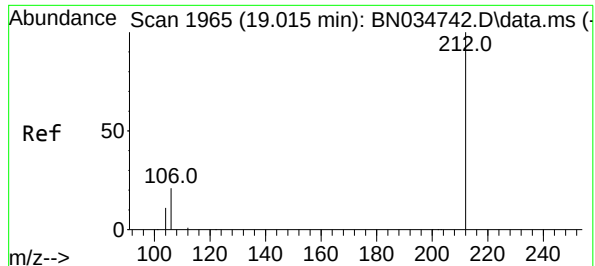
Tgt Ion:178 Resp: 70004
Ion Ratio Lower Upper
178 100
176 19.4 15.4 23.0
179 15.3 12.2 18.4



#26
Anthracene
Concen: 0.845 ng
RT: 17.106 min Scan# 1743
Delta R.T. 0.000 min
Lab File: BN034743.D
Acq: 30 Oct 2024 11:08

Tgt Ion:178 Resp: 64216
Ion Ratio Lower Upper
178 100
176 18.7 15.0 22.6
179 15.2 12.2 18.2





#27

Fluoranthene-d10

Concen: 0.858 ng

RT: 19.015 min Scan# 1965

Delta R.T. 0.000 min

Lab File: BN034743.D

Acq: 30 Oct 2024 11:08

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

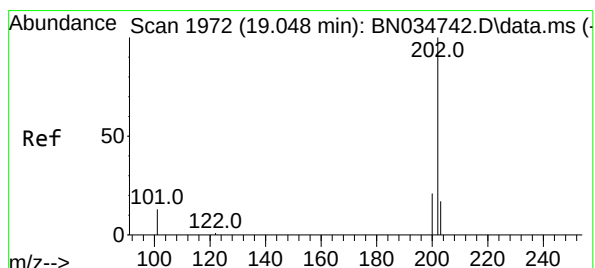
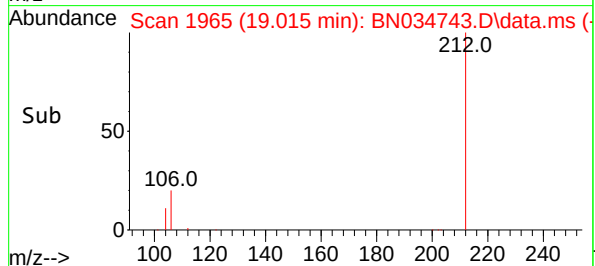
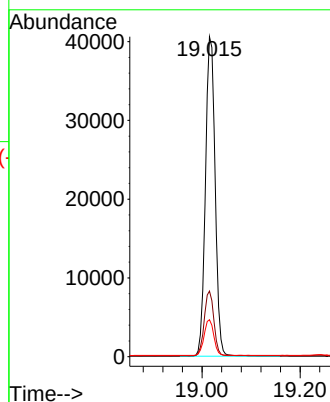
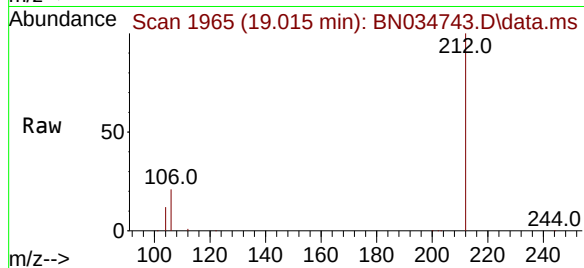
Tgt Ion:212 Resp: 55546

Ion Ratio Lower Upper

212 100

106 20.1 16.1 24.1

104 11.2 9.2 13.8



#28

Fluoranthene

Concen: 0.866 ng

RT: 19.048 min Scan# 1972

Delta R.T. 0.000 min

Lab File: BN034743.D

Acq: 30 Oct 2024 11:08

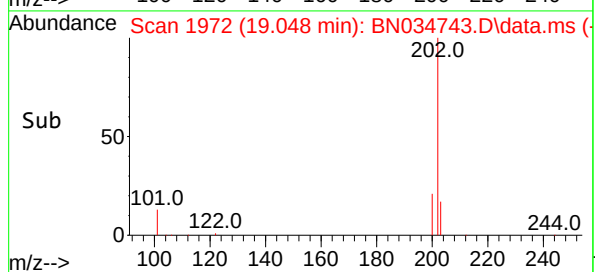
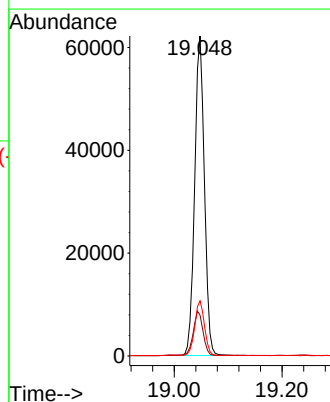
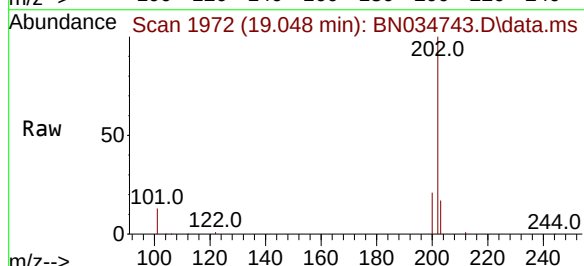
Tgt Ion:202 Resp: 77562

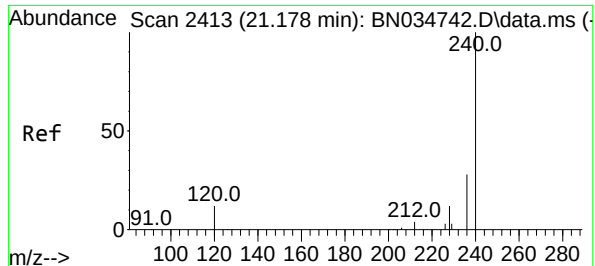
Ion Ratio Lower Upper

202 100

101 14.1 11.4 17.0

203 17.1 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.178 min Scan# 2413

Delta R.T. 0.000 min

Lab File: BN034743.D

Acq: 30 Oct 2024 11:08

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

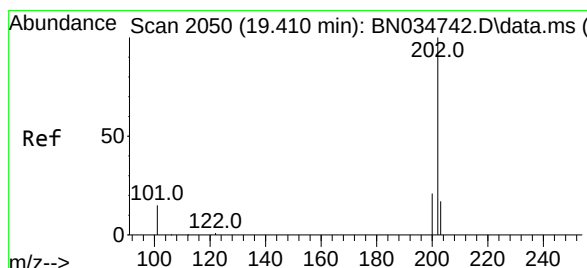
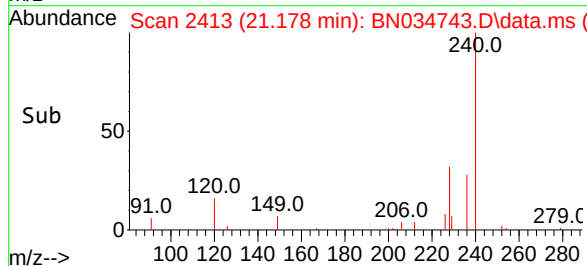
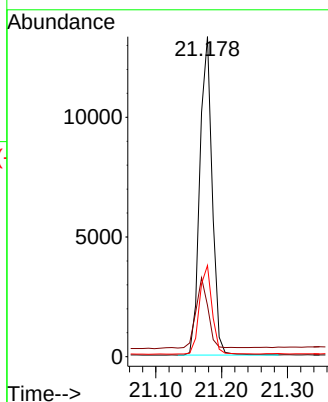
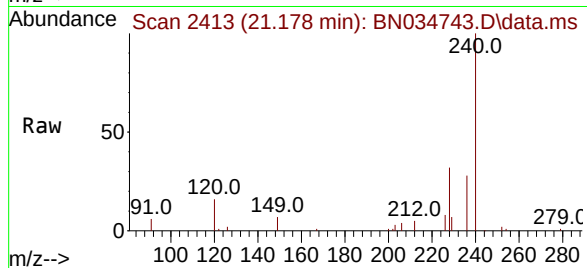
Tgt Ion:240 Resp: 17392

Ion Ratio Lower Upper

240 100

120 16.1 11.5 17.3

236 28.5 23.2 34.8



#30

Pyrene

Concen: 0.872 ng

RT: 19.410 min Scan# 2050

Delta R.T. 0.000 min

Lab File: BN034743.D

Acq: 30 Oct 2024 11:08

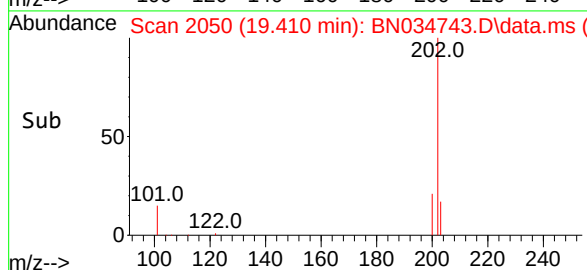
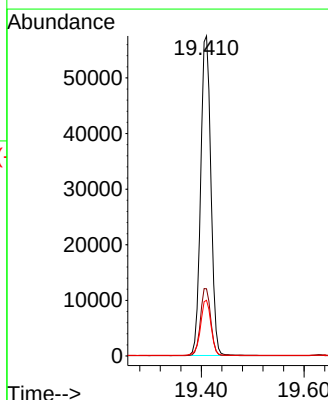
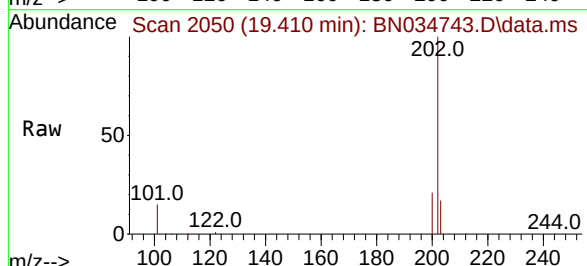
Tgt Ion:202 Resp: 79305

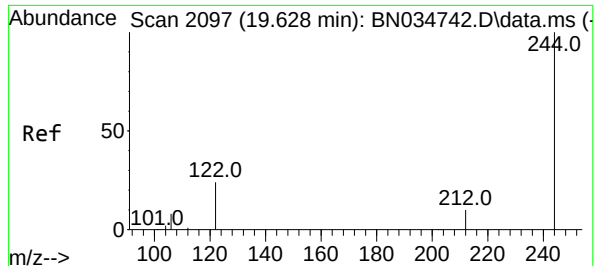
Ion Ratio Lower Upper

202 100

200 21.1 17.0 25.4

203 17.7 14.2 21.2

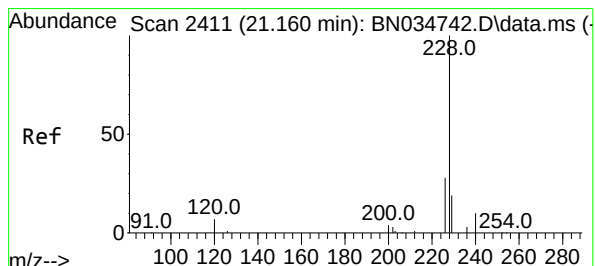
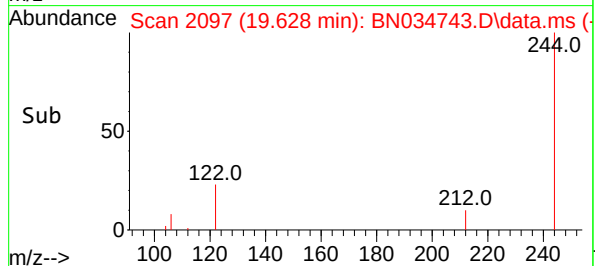
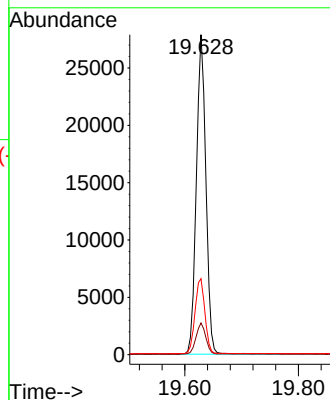
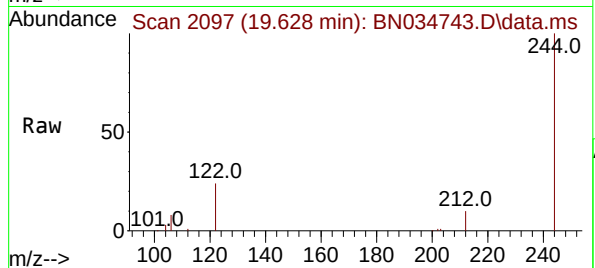




#31
Terphenyl-d14
Concen: 0.867 ng
RT: 19.628 min Scan# 2097
Delta R.T. 0.000 min
Lab File: BN034743.D
Acq: 30 Oct 2024 11:08

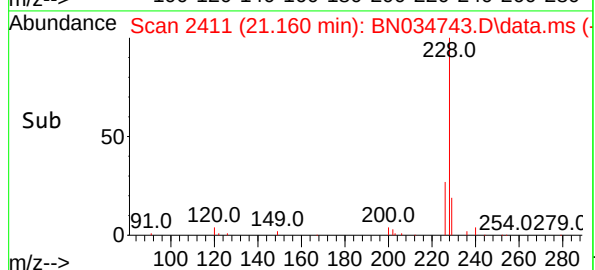
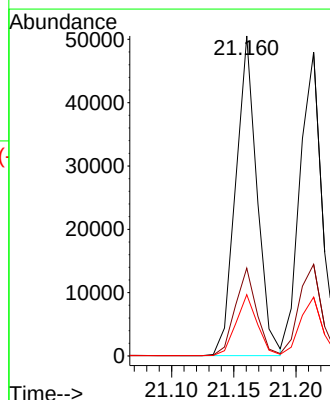
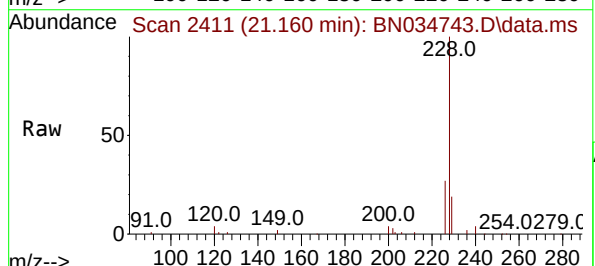
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

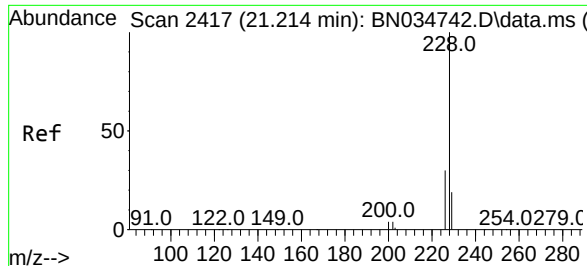
Tgt Ion:244 Resp: 32374
Ion Ratio Lower Upper
244 100
212 9.9 8.2 12.4
122 23.7 19.8 29.6



#32
Benzo(a)anthracene
Concen: 0.865 ng
RT: 21.160 min Scan# 2411
Delta R.T. 0.000 min
Lab File: BN034743.D
Acq: 30 Oct 2024 11:08

Tgt Ion:228 Resp: 59862
Ion Ratio Lower Upper
228 100
226 27.4 22.6 33.8
229 19.2 15.7 23.5





#33

Chrysene

Concen: 0.866 ng

RT: 21.214 min Scan# 2417

Delta R.T. 0.000 min

Lab File: BN034743.D

Acq: 30 Oct 2024 11:08

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

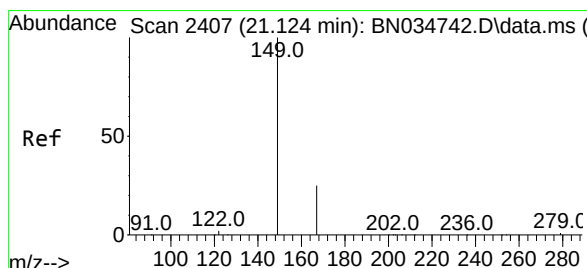
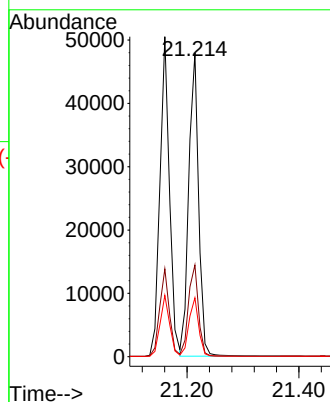
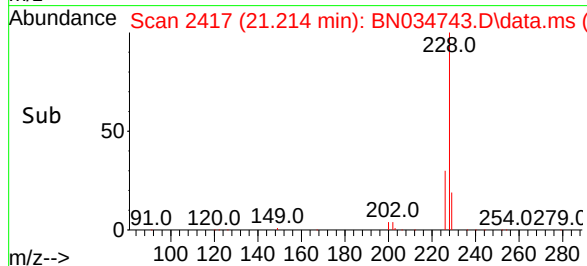
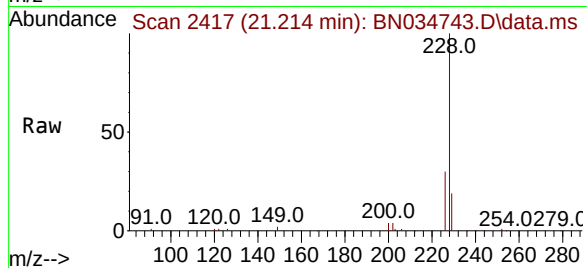
Tgt Ion:228 Resp: 58705

Ion Ratio Lower Upper

228 100

226 30.2 24.4 36.6

229 19.4 15.6 23.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.834 ng

RT: 21.125 min Scan# 2407

Delta R.T. 0.000 min

Lab File: BN034743.D

Acq: 30 Oct 2024 11:08

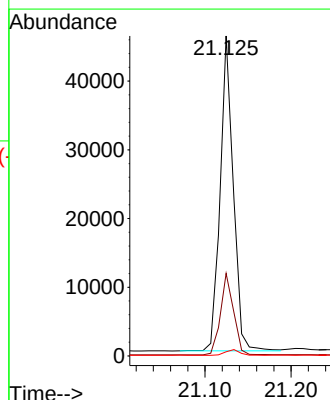
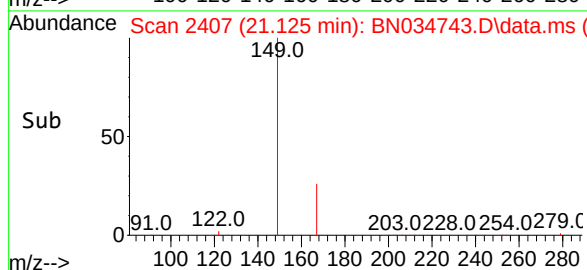
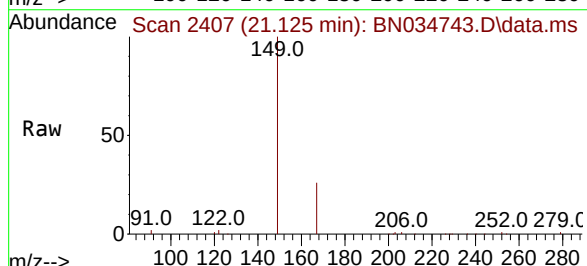
Tgt Ion:149 Resp: 48274

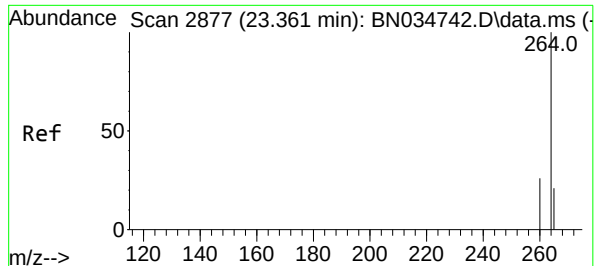
Ion Ratio Lower Upper

149 100

167 25.7 20.6 30.8

279 1.9 1.5 2.3





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.361 min Scan# 2877

Delta R.T. 0.000 min

Lab File: BN034743.D

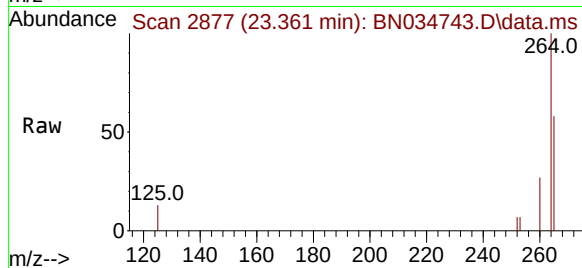
Acq: 30 Oct 2024 11:08

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



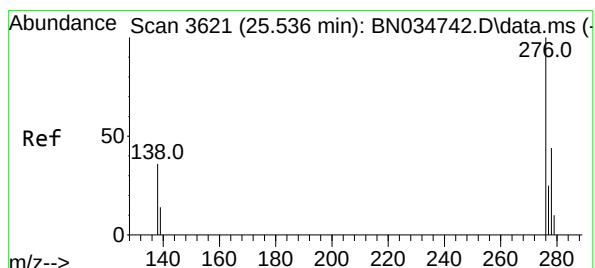
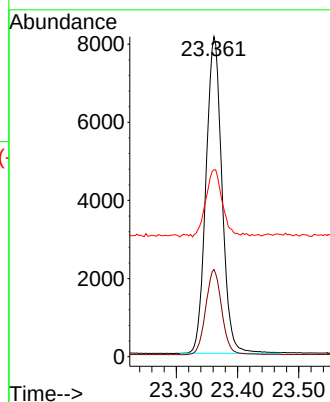
Tgt Ion:264 Resp: 14751

Ion Ratio Lower Upper

264 100

260 27.3 21.5 32.3

265 58.4 47.5 71.3



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.855 ng

RT: 25.539 min Scan# 3622

Delta R.T. 0.003 min

Lab File: BN034743.D

Acq: 30 Oct 2024 11:08

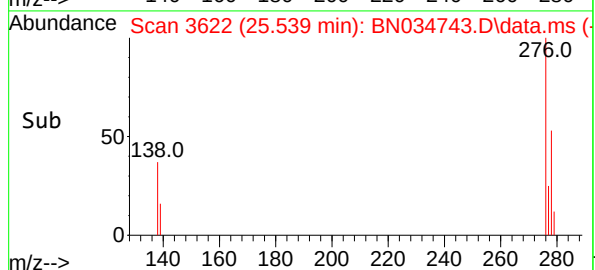
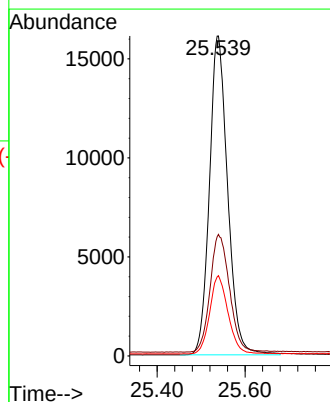
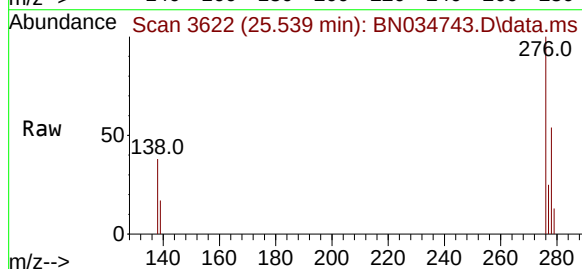
Tgt Ion:276 Resp: 46389

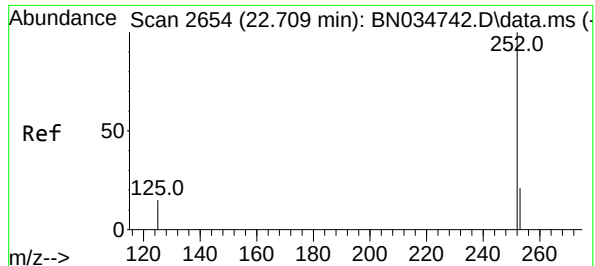
Ion Ratio Lower Upper

276 100

138 39.4 31.5 47.3

277 24.5 19.7 29.5





#37

Benzo(b)fluoranthene

Concen: 0.871 ng

RT: 22.709 min Scan# 2654

Delta R.T. 0.000 min

Lab File: BN034743.D

Acq: 30 Oct 2024 11:08

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

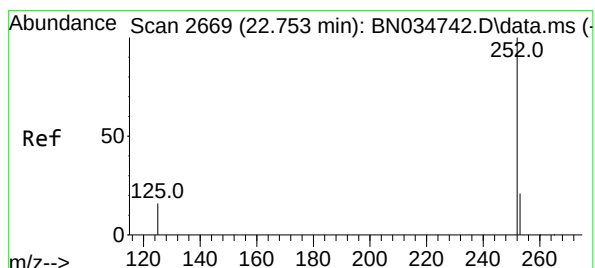
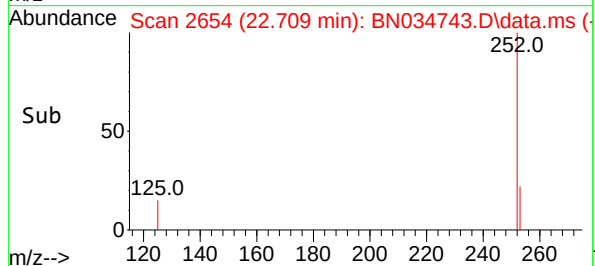
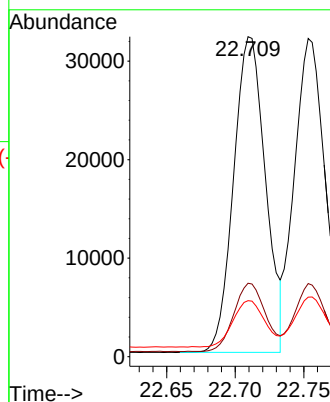
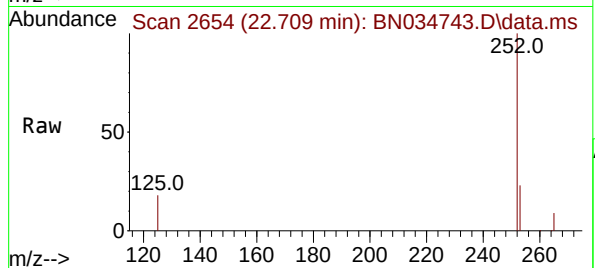
Tgt Ion:252 Resp: 51704

Ion Ratio Lower Upper

252 100

253 22.9 19.7 29.5

125 17.5 17.1 25.7



#38

Benzo(k)fluoranthene

Concen: 0.867 ng

RT: 22.753 min Scan# 2669

Delta R.T. 0.000 min

Lab File: BN034743.D

Acq: 30 Oct 2024 11:08

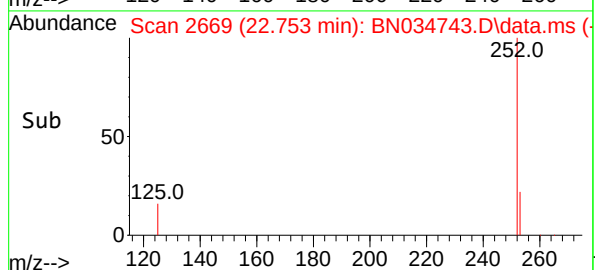
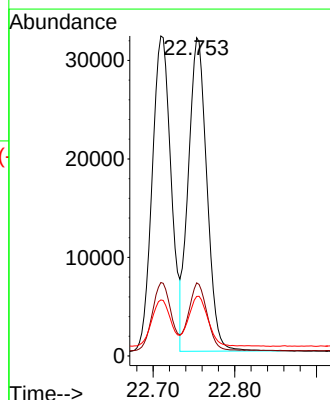
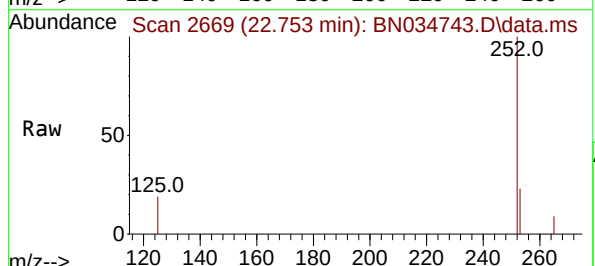
Tgt Ion:252 Resp: 50258

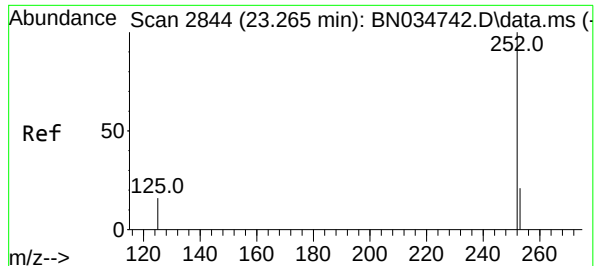
Ion Ratio Lower Upper

252 100

253 23.0 19.8 29.6

125 18.7 18.2 27.2





#39

Benzo(a)pyrene

Concen: 0.863 ng

RT: 23.265 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN034743.D

Acq: 30 Oct 2024 11:08

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

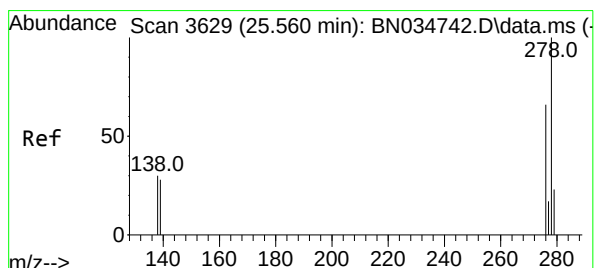
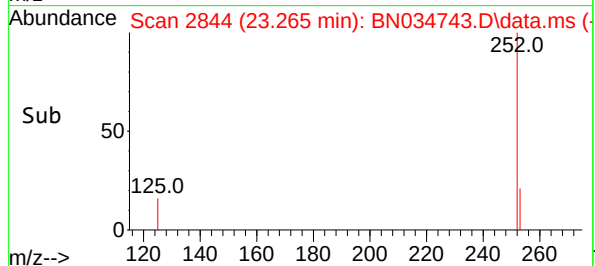
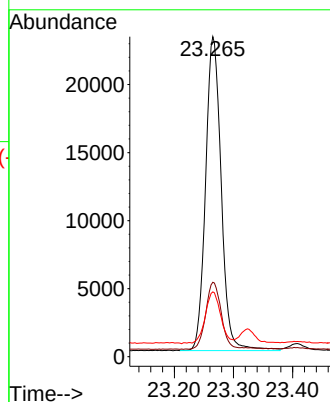
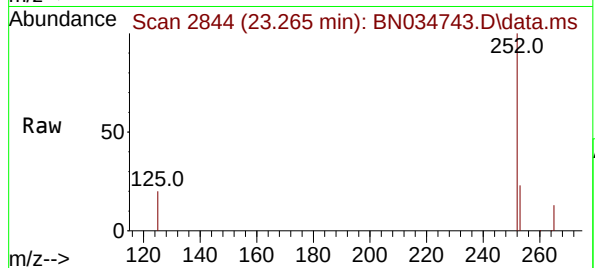
Tgt Ion:252 Resp: 42305

Ion Ratio Lower Upper

252 100

253 23.3 20.7 31.1

125 20.3 20.3 30.5#



#40

Dibenzo(a,h)anthracene

Concen: 0.857 ng

RT: 25.557 min Scan# 3628

Delta R.T. -0.003 min

Lab File: BN034743.D

Acq: 30 Oct 2024 11:08

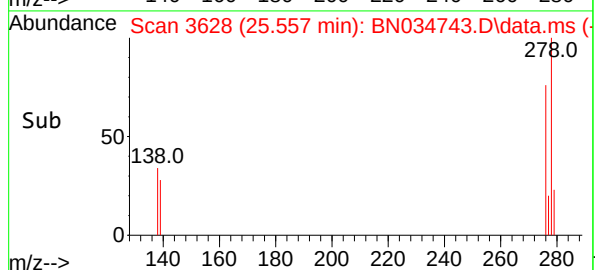
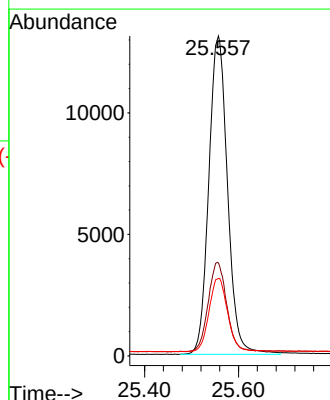
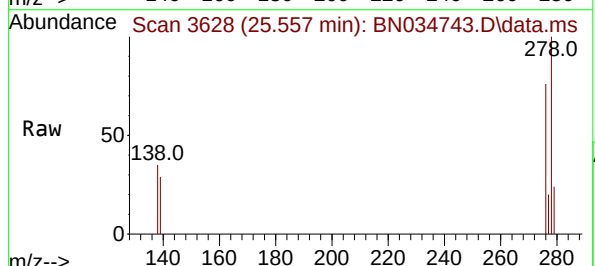
Tgt Ion:278 Resp: 36275

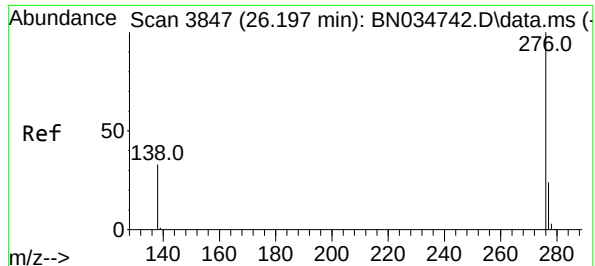
Ion Ratio Lower Upper

278 100

139 29.1 24.9 37.3

279 24.2 21.0 31.4





#41

Benzo(g,h,i)perylene

Concen: 0.857 ng

RT: 26.194 min Scan# 3846

Delta R.T. -0.003 min

Lab File: BN034743.D

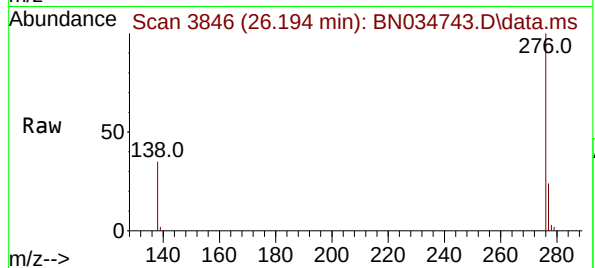
Acq: 30 Oct 2024 11:08

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



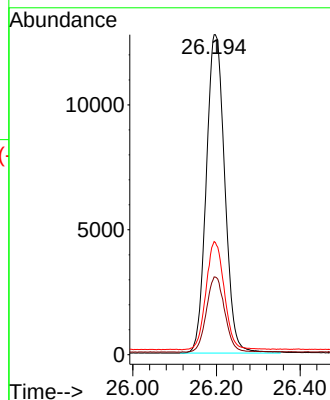
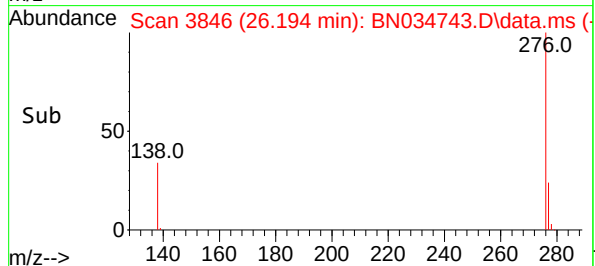
Tgt Ion:276 Resp: 39205

Ion Ratio Lower Upper

276 100

277 24.3 20.2 30.2

138 35.3 28.7 43.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN103024\
 Data File : BN034744.D
 Acq On : 30 Oct 2024 11:44
 Operator : RC/JU
 Sample : SSTDICC1.6
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC1.6

Quant Time: Oct 30 13:33:08 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 30 13:28:24 2024
 Response via : Initial Calibration

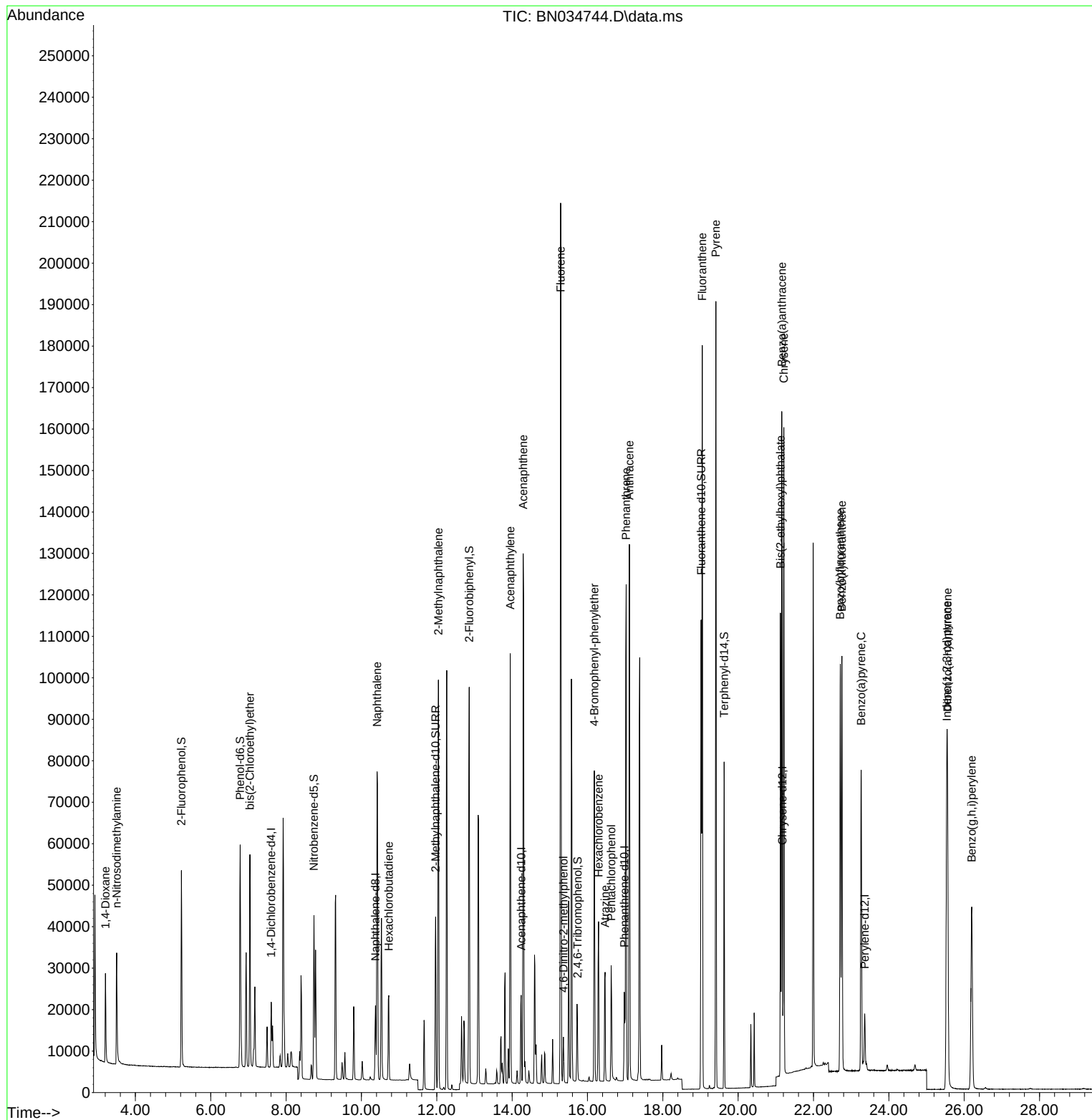
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.604	152	7301	0.400	ng	0.00
7) Naphthalene-d8	10.372	136	22084	0.400	ng	0.00
13) Acenaphthene-d10	14.240	164	12150	0.400	ng	0.00
19) Phenanthrene-d10	16.977	188	26742	0.400	ng	# 0.00
29) Chrysene-d12	21.176	240	18538	0.400	ng	# 0.00
35) Perylene-d12	23.359	264	16531	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.221	112	36440	1.648	ng	0.00
5) Phenol-d6	6.781	99	47456	1.651	ng	0.00
8) Nitrobenzene-d5	8.739	82	28992	1.671	ng	0.00
11) 2-Methylnaphthalene-d10	11.969	152	54464	1.704	ng	0.00
14) 2,4,6-Tribromophenol	15.735	330	10362	1.727	ng	0.00
15) 2-Fluorobiphenyl	12.861	172	81002	1.693	ng	0.00
27) Fluoranthene-d10	19.018	212	108982	1.737	ng	0.00
31) Terphenyl-d14	19.626	244	64278	1.614	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.206	88	12799	1.599	ng	94
3) n-Nitrosodimethylamine	3.502	42	15266	1.692	ng	100
6) bis(2-Chloroethyl)ether	7.041	93	35367	1.686	ng	100
9) Naphthalene	10.415	128	101868	1.668	ng	99
10) Hexachlorobutadiene	10.725	225	16779	1.668	ng	# 99
12) 2-Methylnaphthalene	12.041	142	67960	1.701	ng	100
16) Acenaphthylene	13.951	152	103814	1.703	ng	100
17) Acenaphthene	14.293	154	69971	1.723	ng	98
18) Fluorene	15.288	166	87149	1.722	ng	99
20) 4,6-Dinitro-2-methylph...	15.362	198	6901	1.527	ng	# 81
21) 4-Bromophenyl-phenylether	16.182	248	25438	1.644	ng	# 82
22) Hexachlorobenzene	16.294	284	28587	1.650	ng	99
23) Atrazine	16.468	200	22913	1.720	ng	# 91
24) Pentachlorophenol	16.629	266	13014	1.745	ng	98
25) Phenanthrene	17.026	178	131847	1.676	ng	100
26) Anthracene	17.113	178	125946	1.711	ng	100
28) Fluoranthene	19.045	202	151422	1.747	ng	100
30) Pyrene	19.408	202	155057	1.600	ng	100
32) Benzo(a)anthracene	21.158	228	124466	1.687	ng	99
33) Chrysene	21.212	228	121891	1.687	ng	100
34) Bis(2-ethylhexyl)phtha...	21.122	149	98800	1.601	ng	100
36) Indeno(1,2,3-cd)pyrene	25.537	276	98007	1.612	ng	99
37) Benzo(b)fluoranthene	22.710	252	114384	1.719	ng	# 92
38) Benzo(k)fluoranthene	22.754	252	109313	1.683	ng	# 91
39) Benzo(a)pyrene	23.265	252	92846	1.691	ng	# 89
40) Dibenzo(a,h)anthracene	25.555	278	76192	1.607	ng	94
41) Benzo(g,h,i)perylene	26.198	276	80842	1.577	ng	96

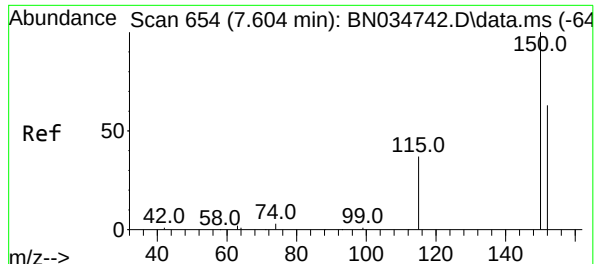
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN103024\
Data File : BN034744.D
Acq On : 30 Oct 2024 11:44
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Oct 30 13:33:08 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 30 13:28:24 2024
Response via : Initial Calibration

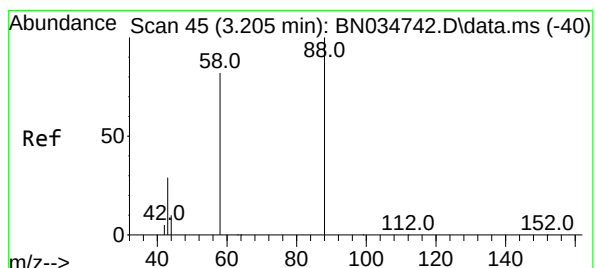
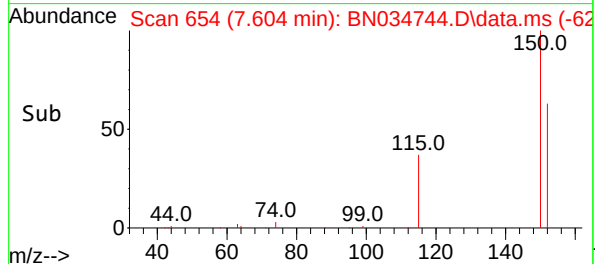
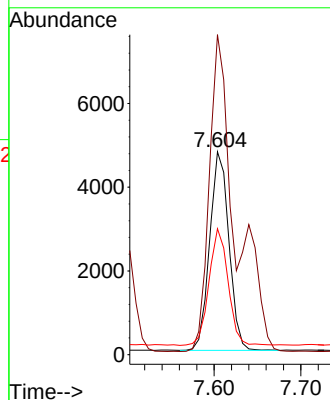
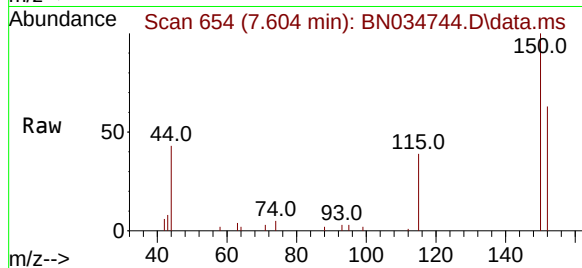




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.604 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN034744.D
Acq: 30 Oct 2024 11:44

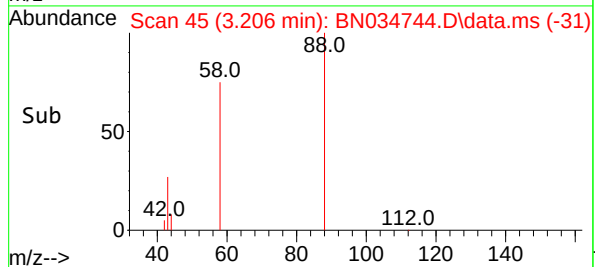
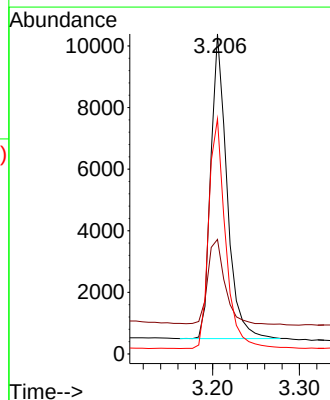
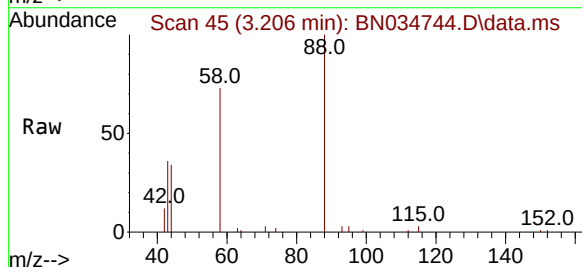
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

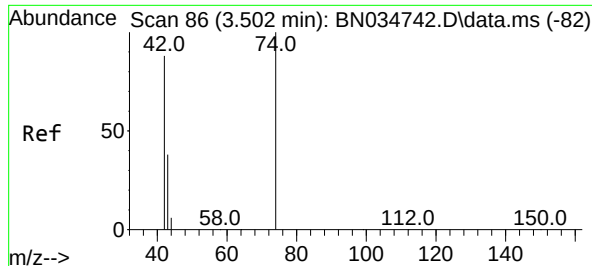
Tgt Ion:152 Resp: 7301
Ion Ratio Lower Upper
152 100
150 157.7 124.9 187.3
115 62.1 50.2 75.2



#2
1,4-Dioxane
Concen: 1.599 ng
RT: 3.206 min Scan# 45
Delta R.T. 0.000 min
Lab File: BN034744.D
Acq: 30 Oct 2024 11:44

Tgt Ion: 88 Resp: 12799
Ion Ratio Lower Upper
88 100
43 29.6 26.7 40.1
58 78.4 59.3 88.9

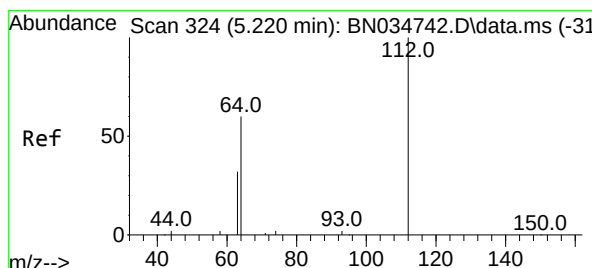
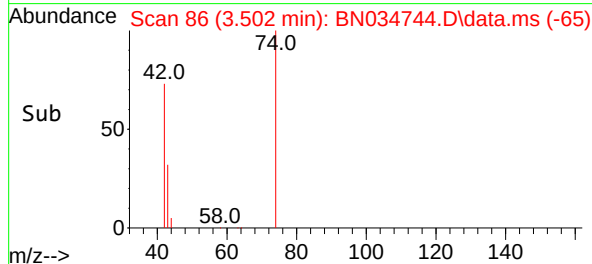
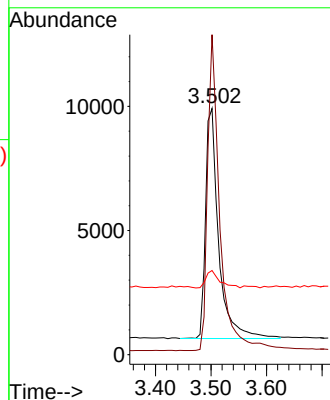
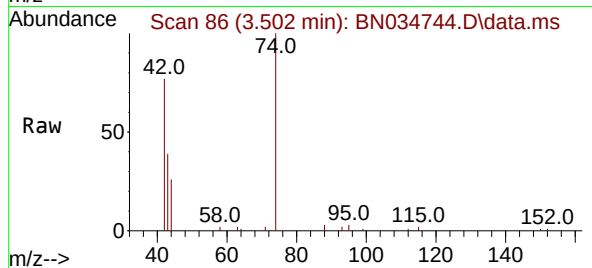




#3
n-Nitrosodimethylamine
Concen: 1.692 ng
RT: 3.502 min Scan# 86
Delta R.T. 0.000 min
Lab File: BN034744.D
Acq: 30 Oct 2024 11:44

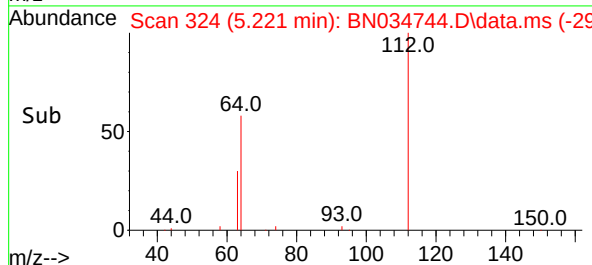
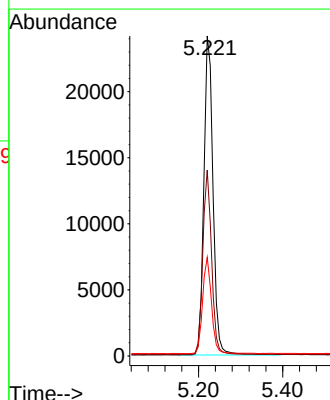
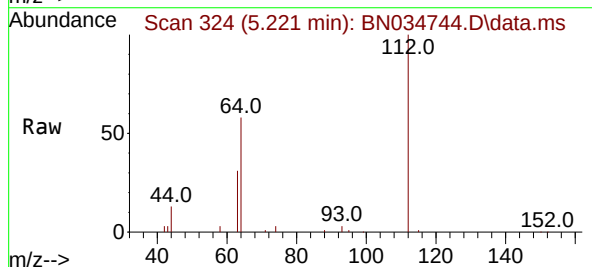
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

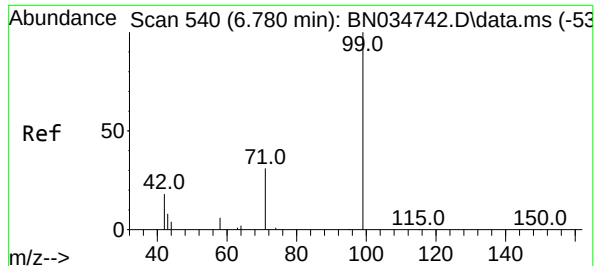
Tgt Ion: 42 Resp: 15266
Ion Ratio Lower Upper
42 100
74 128.5 103.1 154.7
44 7.8 6.7 10.1



#4
2-Fluorophenol
Concen: 1.648 ng
RT: 5.221 min Scan# 324
Delta R.T. 0.000 min
Lab File: BN034744.D
Acq: 30 Oct 2024 11:44

Tgt Ion: 112 Resp: 36440
Ion Ratio Lower Upper
112 100
64 56.0 44.9 67.3
63 29.4 23.5 35.3

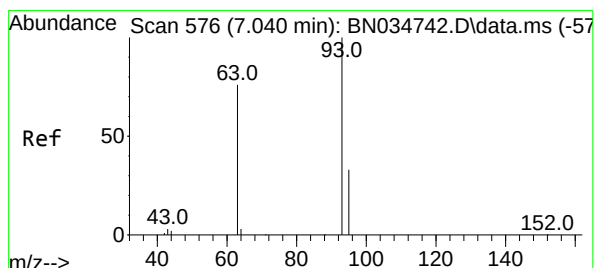
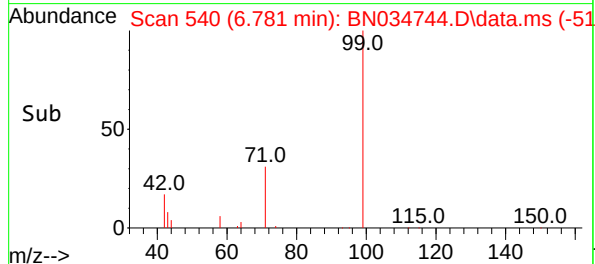
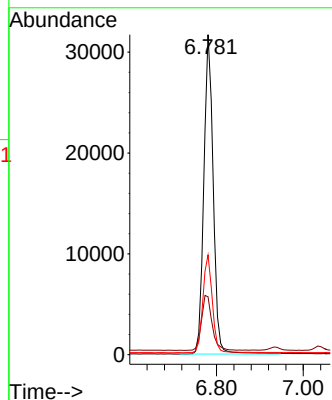
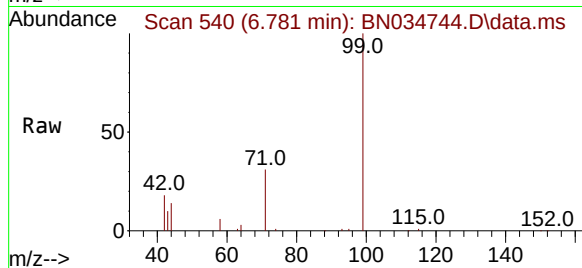




#5
Phenol-d6
Concen: 1.651 ng
RT: 6.781 min Scan# 540
Delta R.T. 0.000 min
Lab File: BN034744.D
Acq: 30 Oct 2024 11:44

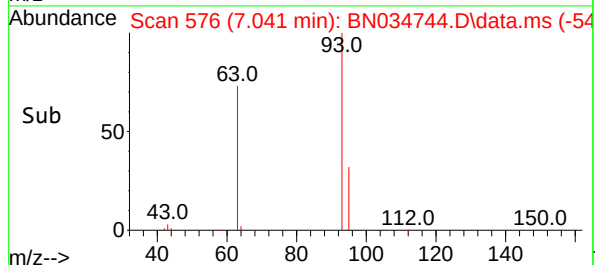
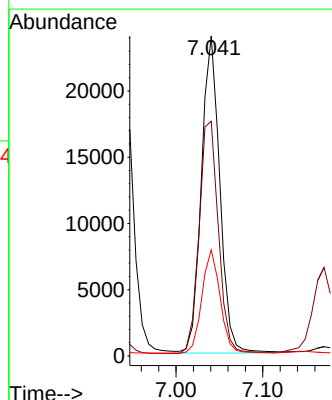
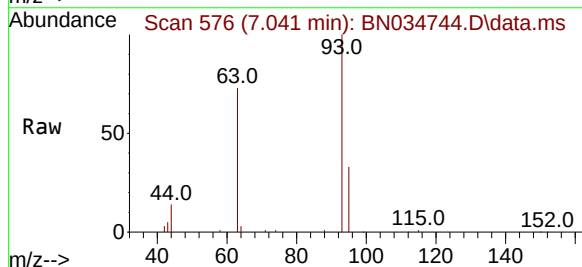
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

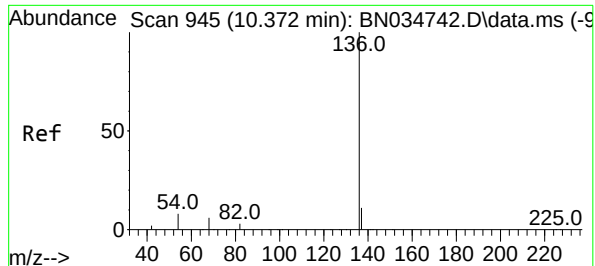
Tgt Ion: 99 Resp: 47456
Ion Ratio Lower Upper
99 100
42 19.3 15.9 23.9
71 30.7 24.3 36.5



#6
bis(2-Chloroethyl)ether
Concen: 1.686 ng
RT: 7.041 min Scan# 576
Delta R.T. 0.000 min
Lab File: BN034744.D
Acq: 30 Oct 2024 11:44

Tgt Ion: 93 Resp: 35367
Ion Ratio Lower Upper
93 100
63 77.1 61.2 91.8
95 32.3 25.8 38.8

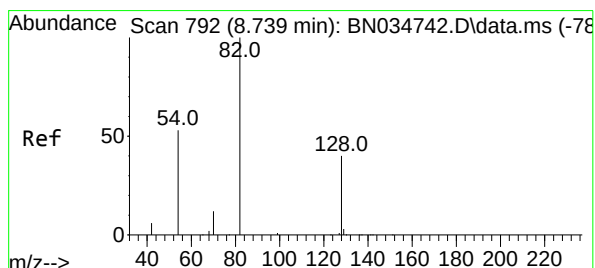
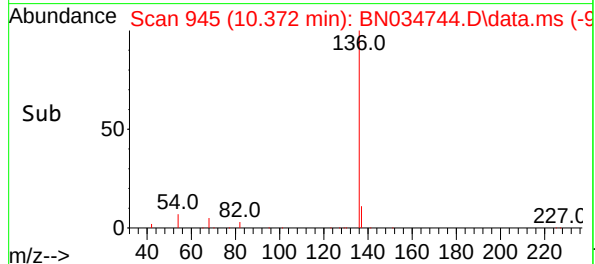
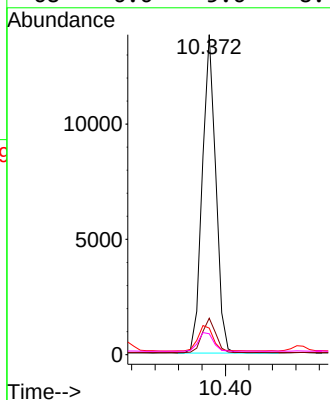
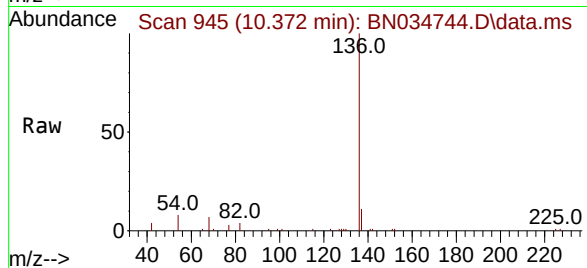




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.372 min Scan# 945
Delta R.T. 0.000 min
Lab File: BN034744.D
Acq: 30 Oct 2024 11:44

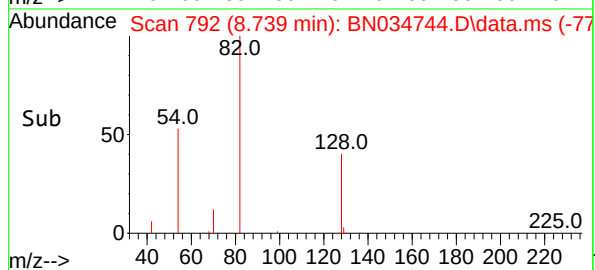
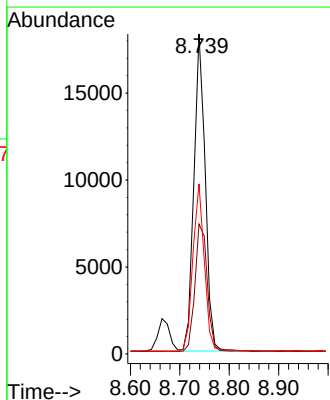
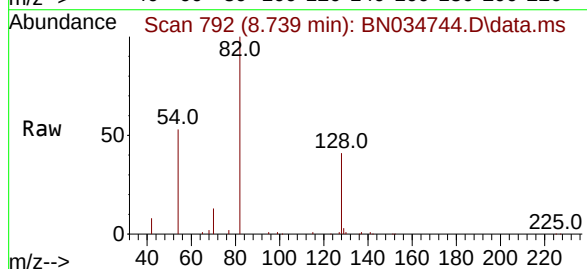
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

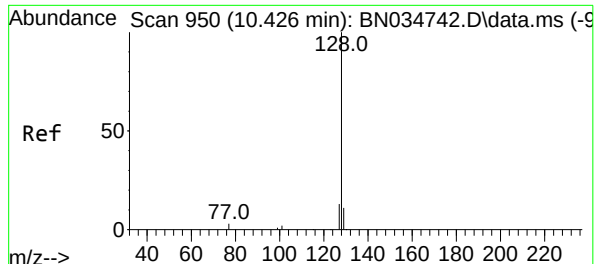
Tgt Ion:	136	Resp:	22084
Ion Ratio	Lower	Upper	
136	100		
137	11.4	9.2	13.8
54	8.3	7.0	10.4
68	6.6	5.6	8.4



#8
Nitrobenzene-d5
Concen: 1.671 ng
RT: 8.739 min Scan# 792
Delta R.T. 0.000 min
Lab File: BN034744.D
Acq: 30 Oct 2024 11:44

Tgt Ion:	82	Resp:	28992
Ion Ratio	Lower	Upper	
82	100		
128	40.6	33.7	50.5
54	53.1	44.4	66.6

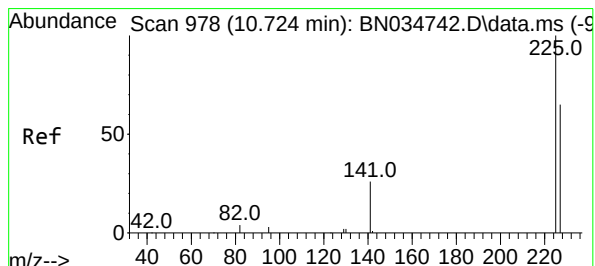
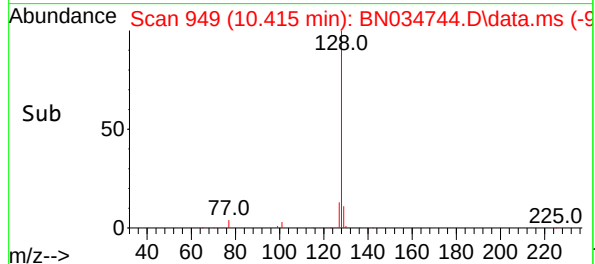
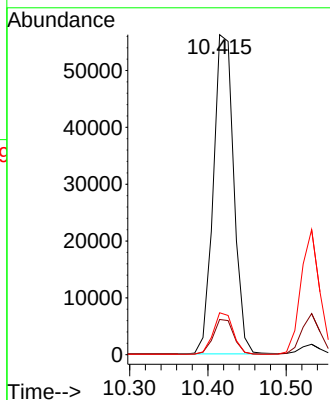
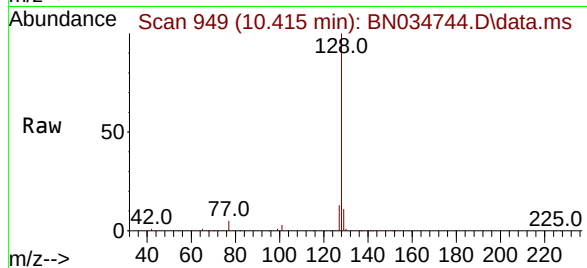




#9
Naphthalene
Concen: 1.668 ng
RT: 10.415 min Scan# 949
Delta R.T. -0.011 min
Lab File: BN034744.D
Acq: 30 Oct 2024 11:44

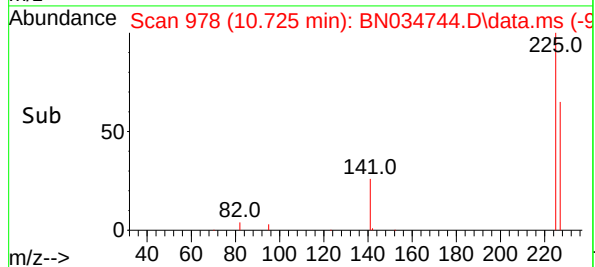
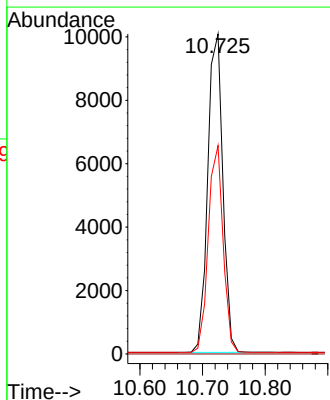
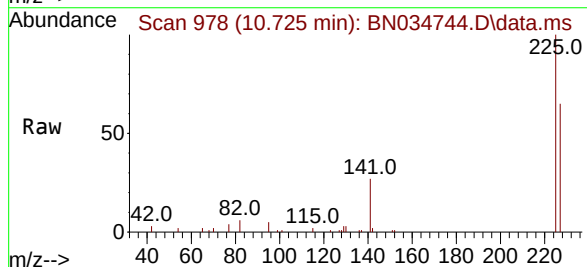
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

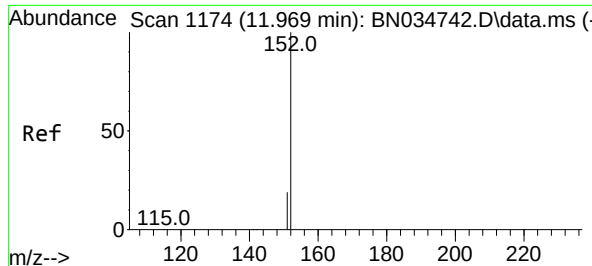
Tgt Ion:128 Resp: 101868
Ion Ratio Lower Upper
128 100
129 11.0 9.4 14.0
127 13.1 10.6 15.8



#10
Hexachlorobutadiene
Concen: 1.668 ng
RT: 10.725 min Scan# 978
Delta R.T. 0.000 min
Lab File: BN034744.D
Acq: 30 Oct 2024 11:44

Tgt Ion:225 Resp: 16779
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.6 51.4 77.2

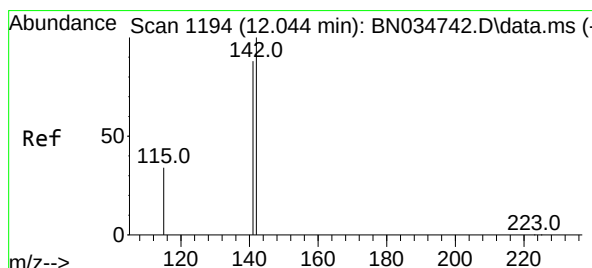
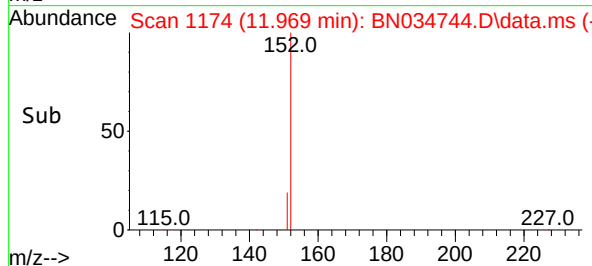
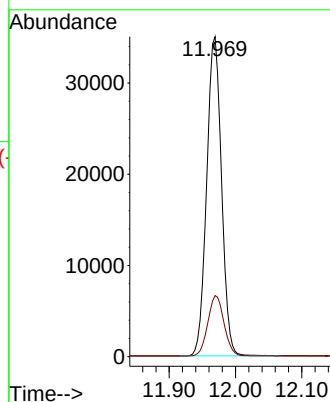
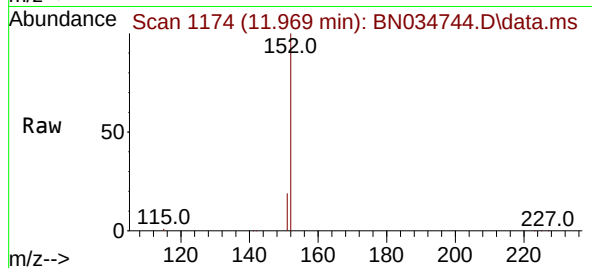




#11
2-Methylnaphthalene-d10
Concen: 1.704 ng
RT: 11.969 min Scan# 1174
Delta R.T. 0.000 min
Lab File: BN034744.D
Acq: 30 Oct 2024 11:44

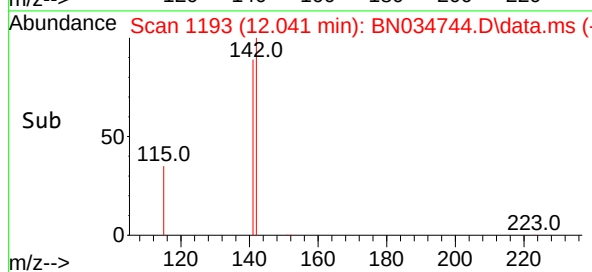
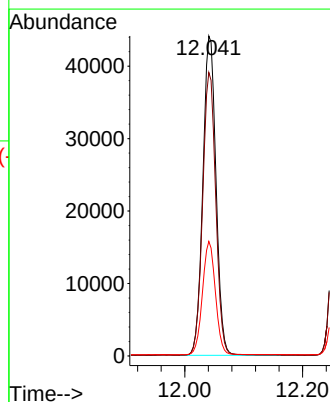
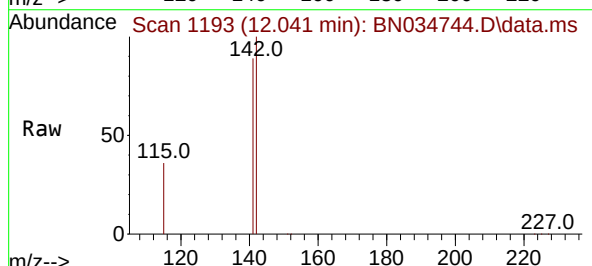
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

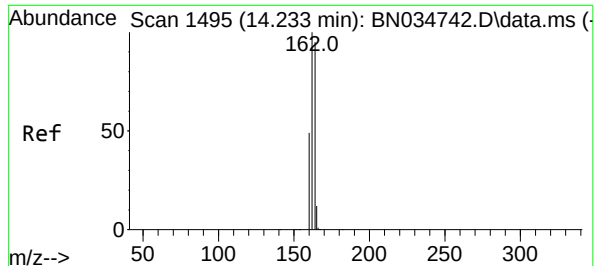
Tgt Ion:152 Resp: 54464
Ion Ratio Lower Upper
152 100
151 20.7 16.6 24.8



#12
2-Methylnaphthalene
Concen: 1.701 ng
RT: 12.041 min Scan# 1193
Delta R.T. -0.004 min
Lab File: BN034744.D
Acq: 30 Oct 2024 11:44

Tgt Ion:142 Resp: 67960
Ion Ratio Lower Upper
142 100
141 88.6 70.6 106.0
115 35.8 28.6 42.8

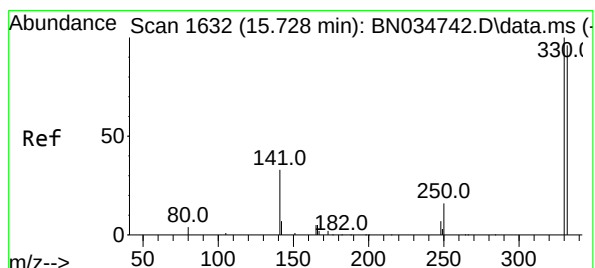
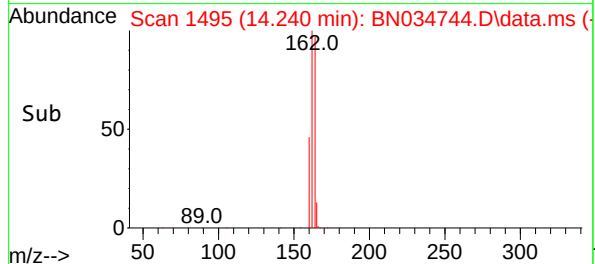
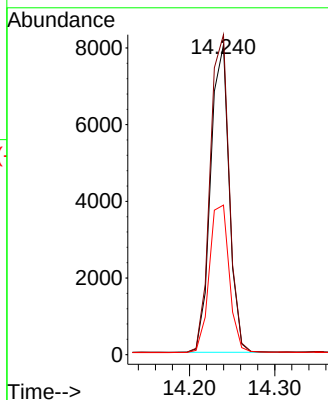
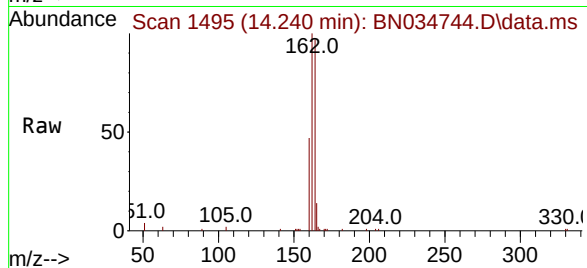




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.240 min Scan# 1495
Delta R.T. 0.007 min
Lab File: BN034744.D
Acq: 30 Oct 2024 11:44

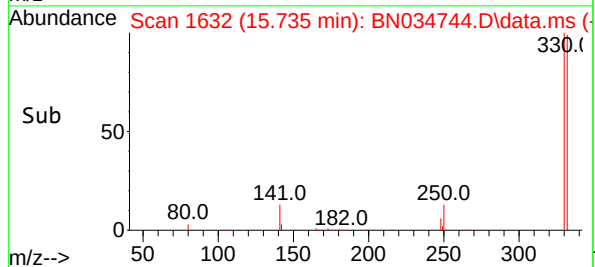
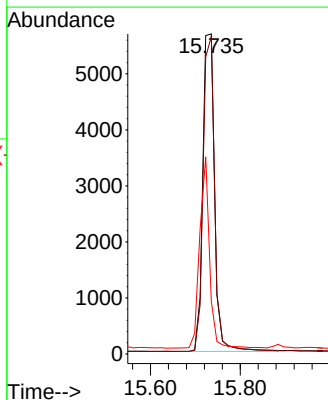
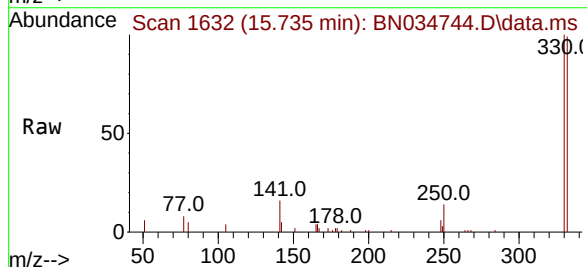
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

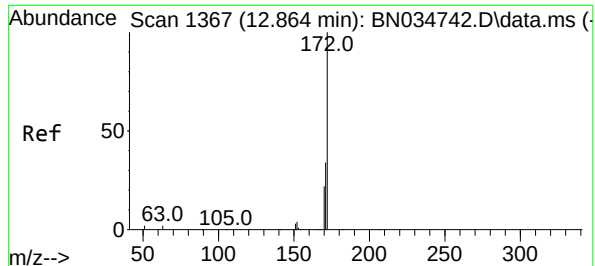
Tgt Ion:164 Resp: 12150
Ion Ratio Lower Upper
164 100
162 103.3 84.3 126.5
160 48.3 41.7 62.5



#14
2,4,6-Tribromophenol
Concen: 1.727 ng
RT: 15.735 min Scan# 1632
Delta R.T. 0.007 min
Lab File: BN034744.D
Acq: 30 Oct 2024 11:44

Tgt Ion:330 Resp: 10362
Ion Ratio Lower Upper
330 100
332 96.0 77.8 116.6
141 49.9 41.0 61.4

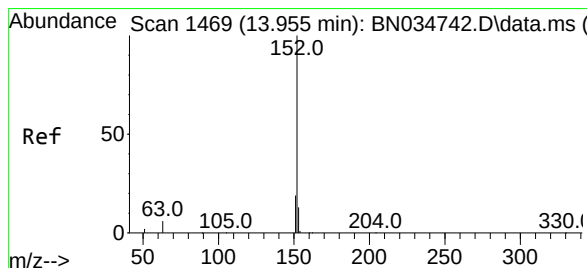
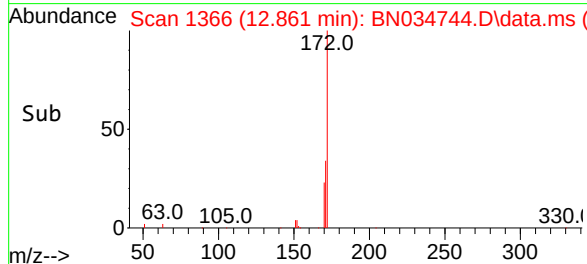
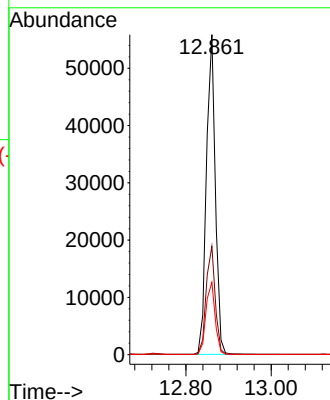
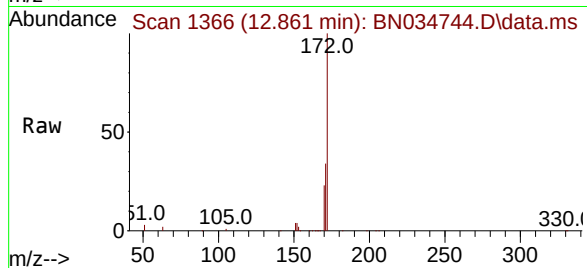




#15
2-Fluorobiphenyl
Concen: 1.693 ng
RT: 12.861 min Scan# 1366
Delta R.T. -0.004 min
Lab File: BN034744.D
Acq: 30 Oct 2024 11:44

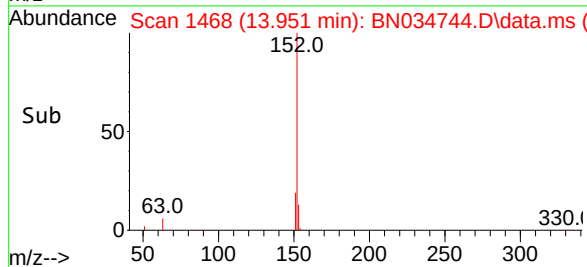
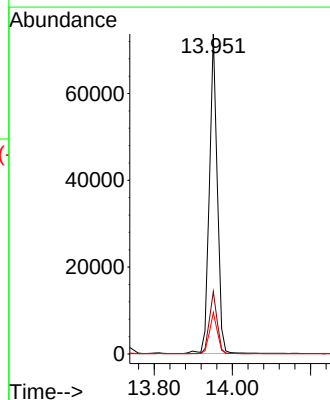
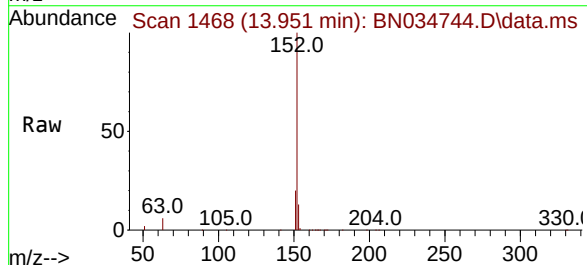
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

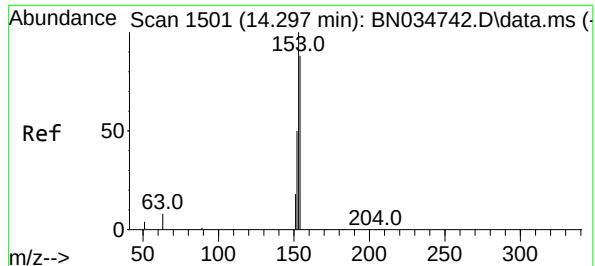
Tgt Ion:172 Resp: 81002
Ion Ratio Lower Upper
172 100
171 33.8 27.2 40.8
170 22.6 18.0 27.0



#16
Acenaphthylene
Concen: 1.703 ng
RT: 13.951 min Scan# 1468
Delta R.T. -0.004 min
Lab File: BN034744.D
Acq: 30 Oct 2024 11:44

Tgt Ion:152 Resp: 103814
Ion Ratio Lower Upper
152 100
151 19.3 15.4 23.2
153 12.9 10.2 15.4

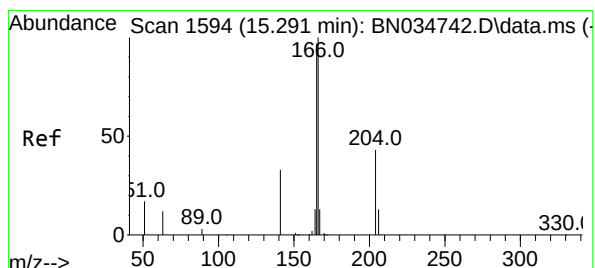
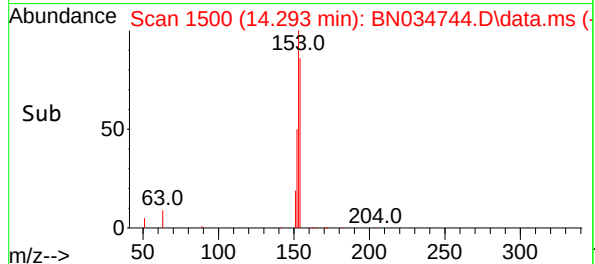
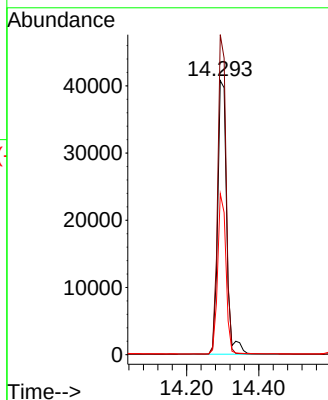
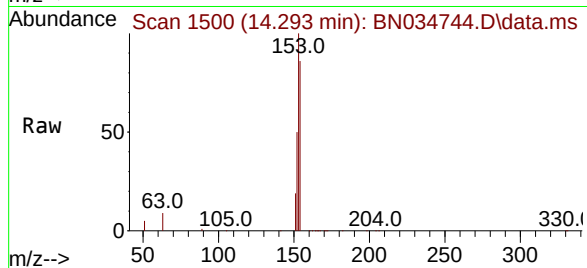




#17
Acenaphthene
Concen: 1.723 ng
RT: 14.293 min Scan# 1500
Delta R.T. -0.004 min
Lab File: BN034744.D
Acq: 30 Oct 2024 11:44

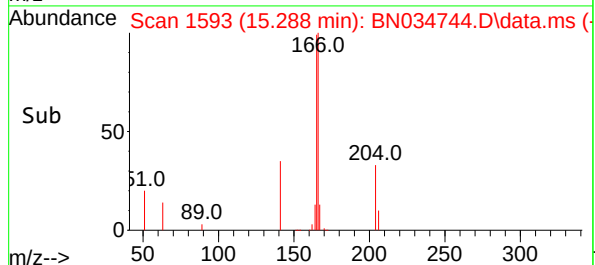
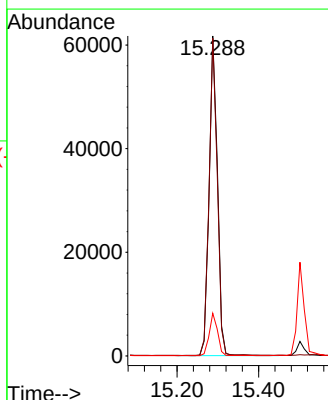
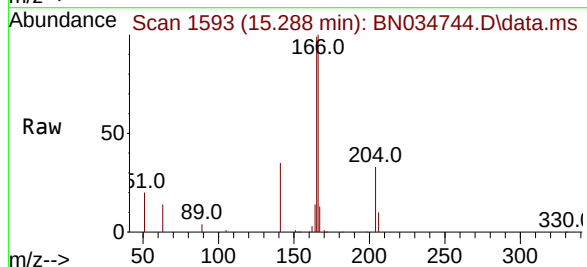
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

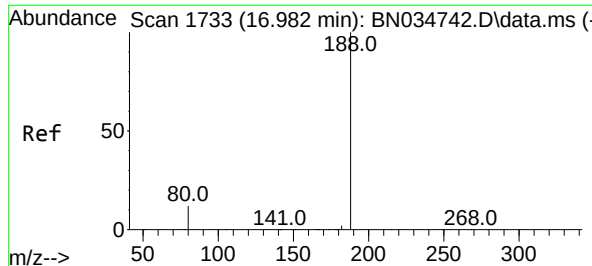
Tgt Ion:154 Resp: 69971
Ion Ratio Lower Upper
154 100
153 108.7 87.8 131.6
152 53.9 44.6 67.0



#18
Fluorene
Concen: 1.722 ng
RT: 15.288 min Scan# 1593
Delta R.T. -0.004 min
Lab File: BN034744.D
Acq: 30 Oct 2024 11:44

Tgt Ion:166 Resp: 87149
Ion Ratio Lower Upper
166 100
165 98.6 78.5 117.7
167 13.3 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.977 min Scan# 11

Delta R.T. -0.005 min

Lab File: BN034744.D

Acq: 30 Oct 2024 11:44

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

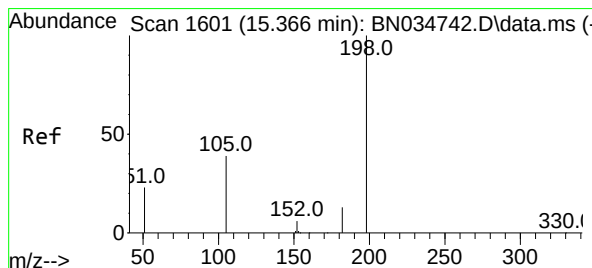
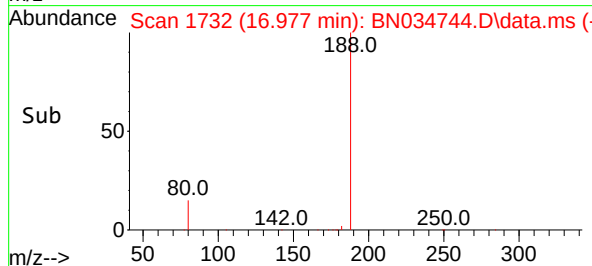
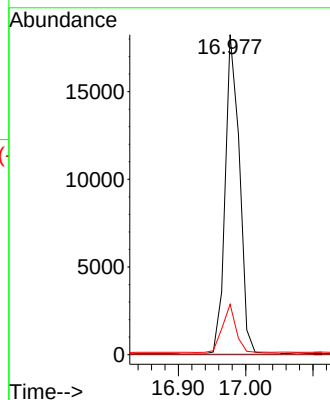
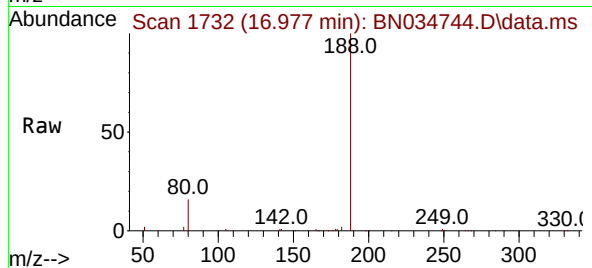
Tgt Ion:188 Resp: 26742

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 15.7 9.8 14.6#



#20

4,6-Dinitro-2-methylphenol

Concen: 1.527 ng

RT: 15.362 min Scan# 1600

Delta R.T. -0.004 min

Lab File: BN034744.D

Acq: 30 Oct 2024 11:44

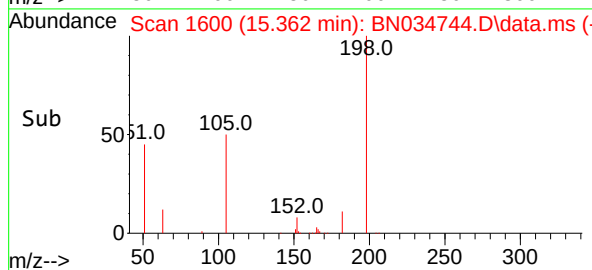
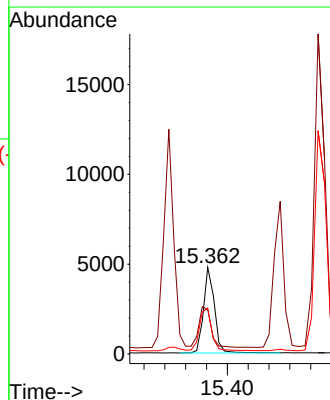
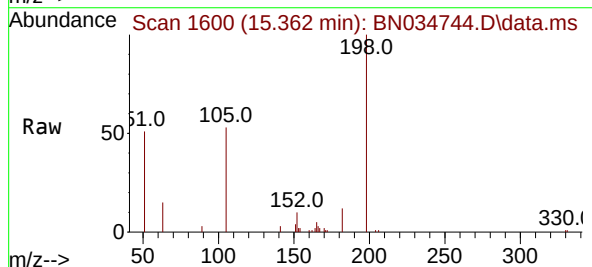
Tgt Ion:198 Resp: 6901

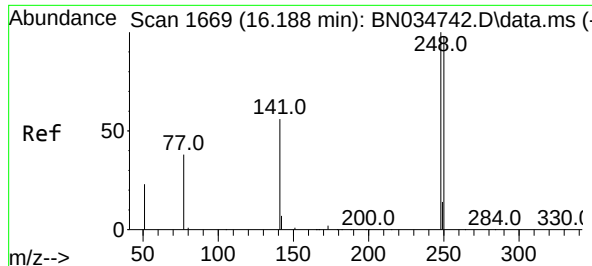
Ion Ratio Lower Upper

198 100

51 51.5 58.0 87.0#

105 53.0 49.1 73.7

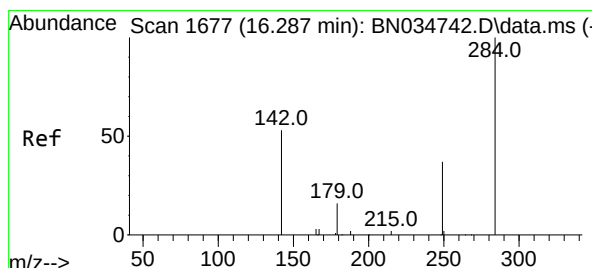
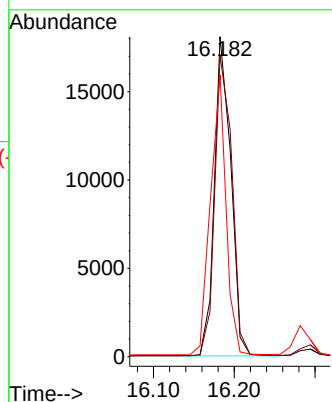
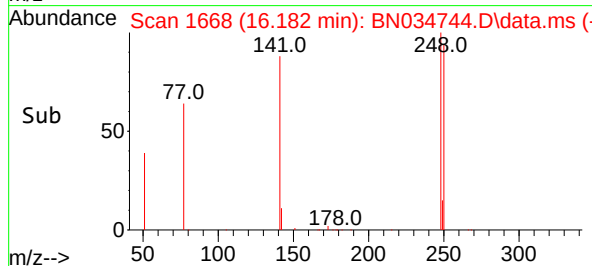
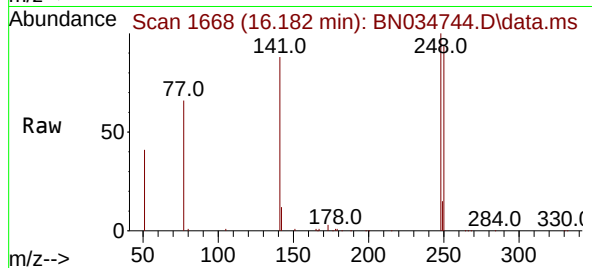




#21
4-Bromophenyl-phenylether
Concen: 1.644 ng
RT: 16.182 min Scan# 1668
Delta R.T. -0.005 min
Lab File: BN034744.D
Acq: 30 Oct 2024 11:44

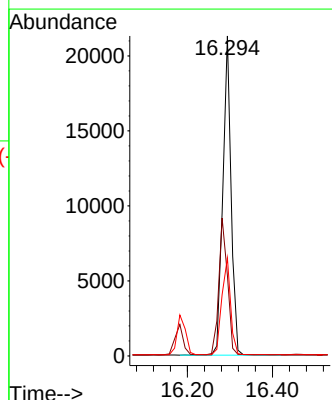
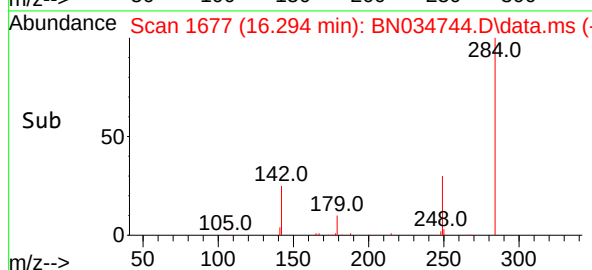
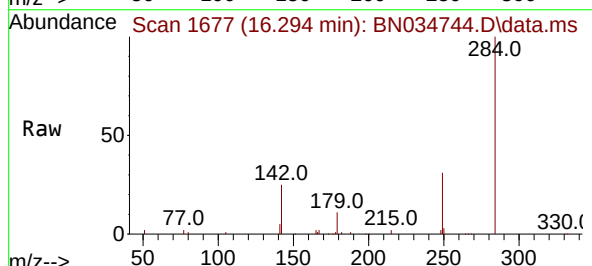
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

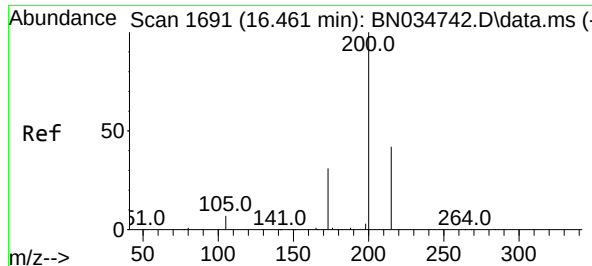
Tgt Ion	Ratio	Lower	Upper
248	100		
250	94.1	78.7	118.1
141	88.1	46.4	69.6



#22
Hexachlorobenzene
Concen: 1.650 ng
RT: 16.294 min Scan# 1677
Delta R.T. 0.007 min
Lab File: BN034744.D
Acq: 30 Oct 2024 11:44

Tgt Ion	Ratio	Lower	Upper
284	100		
142	44.8	35.4	53.0
249	32.2	25.7	38.5

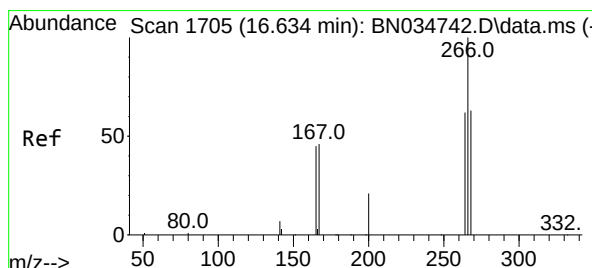
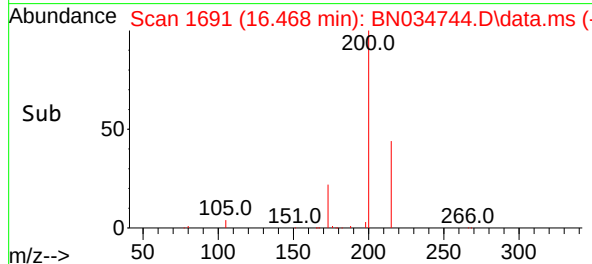
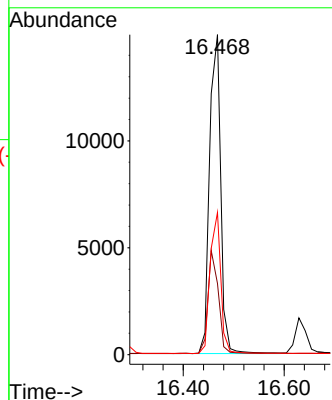
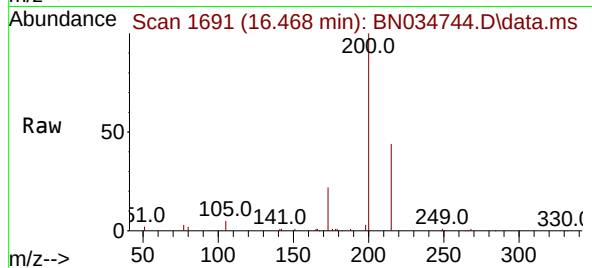




#23
Atrazine
Concen: 1.720 ng
RT: 16.468 min Scan# 1
Delta R.T. 0.007 min
Lab File: BN034744.D
Acq: 30 Oct 2024 11:44

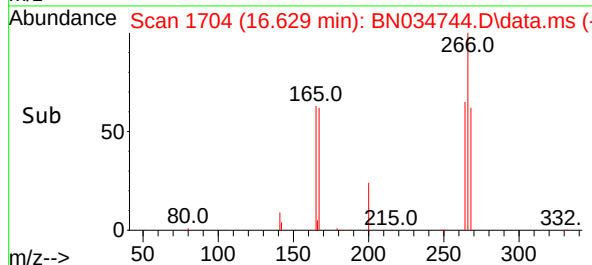
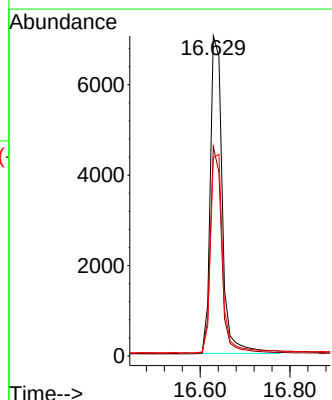
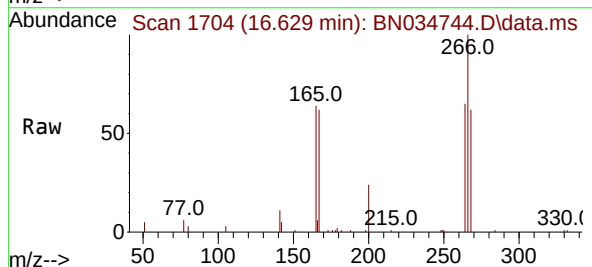
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

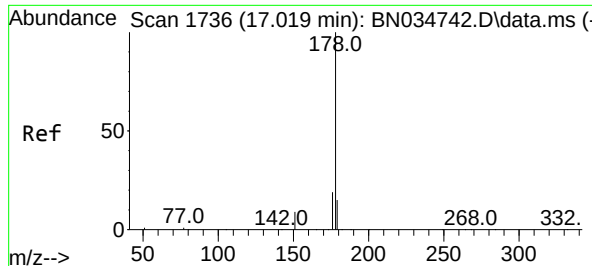
Tgt Ion:200 Resp: 22913
Ion Ratio Lower Upper
200 100
173 22.3 25.8 38.6#
215 44.4 34.2 51.4



#24
Pentachlorophenol
Concen: 1.745 ng
RT: 16.629 min Scan# 1704
Delta R.T. -0.005 min
Lab File: BN034744.D
Acq: 30 Oct 2024 11:44

Tgt Ion:266 Resp: 13014
Ion Ratio Lower Upper
266 100
264 62.8 48.7 73.1
268 63.8 50.2 75.4

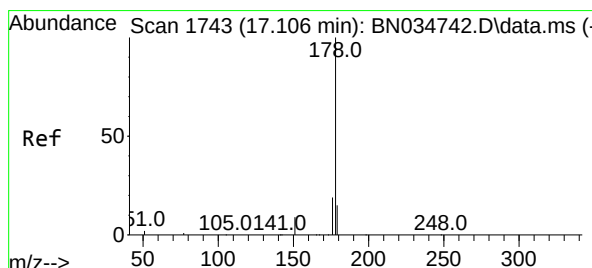
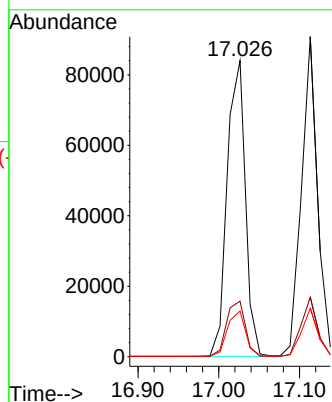
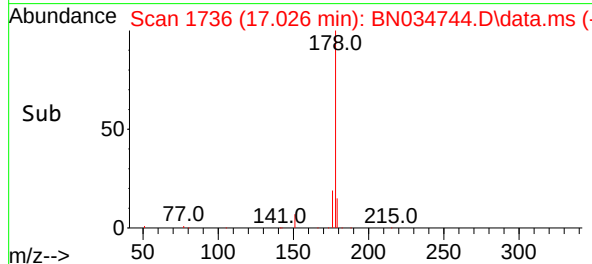
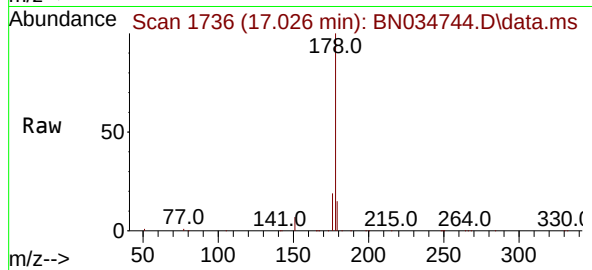




#25
Phenanthrene
Concen: 1.676 ng
RT: 17.026 min Scan# 1736
Delta R.T. 0.007 min
Lab File: BN034744.D
Acq: 30 Oct 2024 11:44

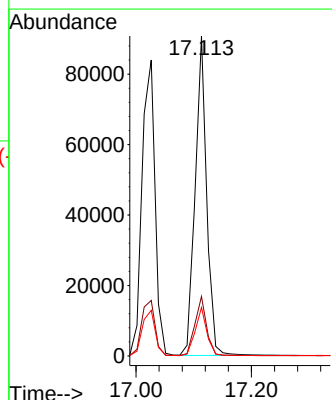
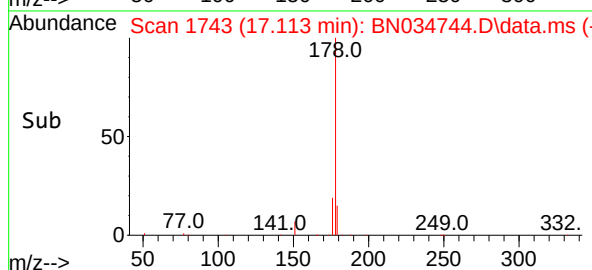
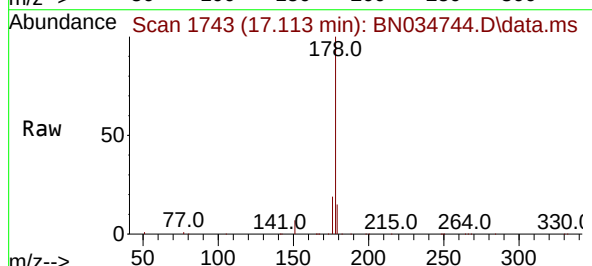
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

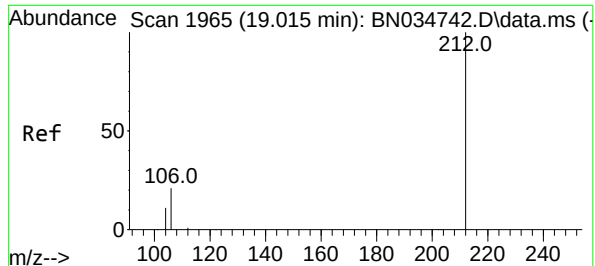
Tgt Ion:178 Resp: 131847
Ion Ratio Lower Upper
178 100
176 19.3 15.4 23.0
179 15.2 12.2 18.4



#26
Anthracene
Concen: 1.711 ng
RT: 17.113 min Scan# 1743
Delta R.T. 0.007 min
Lab File: BN034744.D
Acq: 30 Oct 2024 11:44

Tgt Ion:178 Resp: 125946
Ion Ratio Lower Upper
178 100
176 18.7 15.0 22.6
179 15.1 12.2 18.2





#27

Fluoranthene-d10

Concen: 1.737 ng

RT: 19.018 min Scan# 1964

Delta R.T. 0.002 min

Lab File: BN034744.D

Acq: 30 Oct 2024 11:44

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

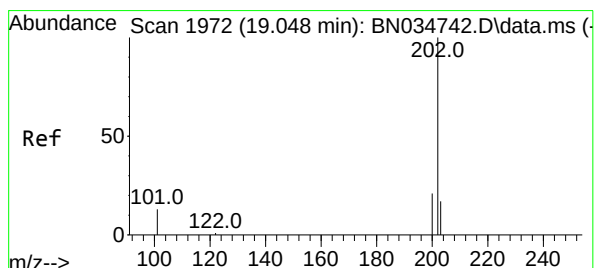
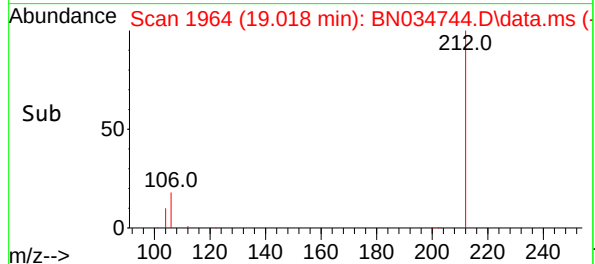
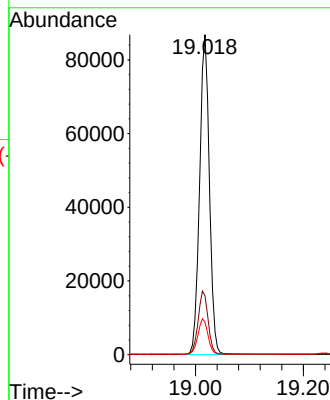
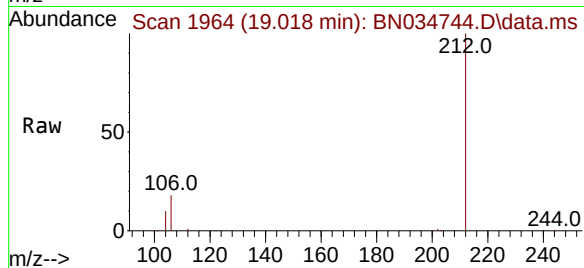
Tgt Ion:212 Resp: 108982

Ion Ratio Lower Upper

212 100

106 20.0 16.1 24.1

104 11.2 9.2 13.8



#28

Fluoranthene

Concen: 1.747 ng

RT: 19.045 min Scan# 1970

Delta R.T. -0.002 min

Lab File: BN034744.D

Acq: 30 Oct 2024 11:44

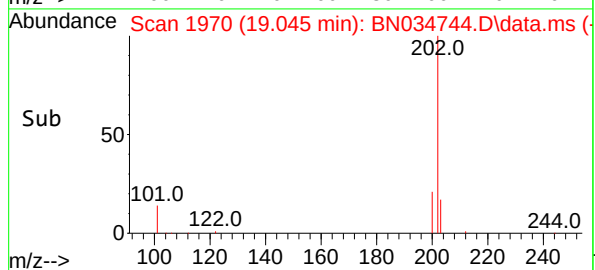
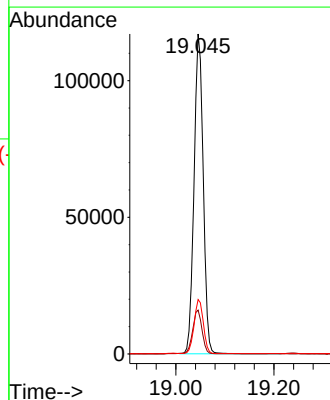
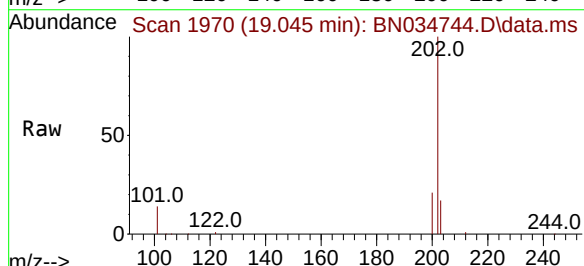
Tgt Ion:202 Resp: 151422

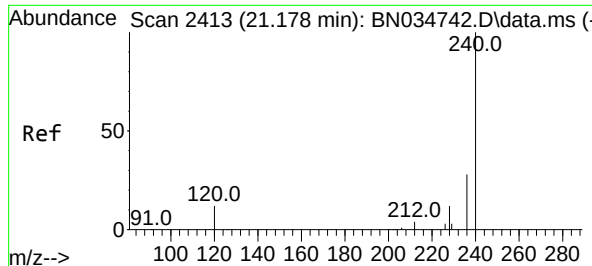
Ion Ratio Lower Upper

202 100

101 13.9 11.4 17.0

203 17.1 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.176 min Scan# 2411

Delta R.T. -0.002 min

Lab File: BN034744.D

Acq: 30 Oct 2024 11:44

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

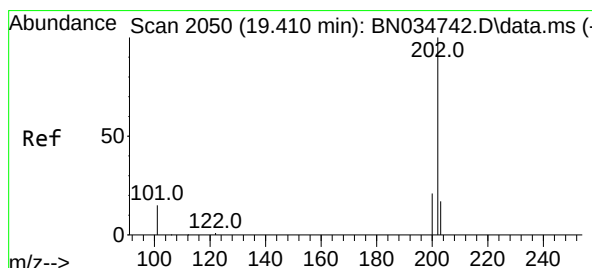
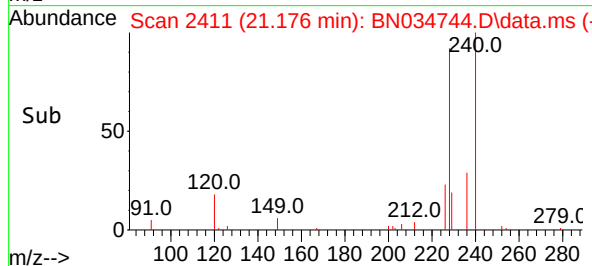
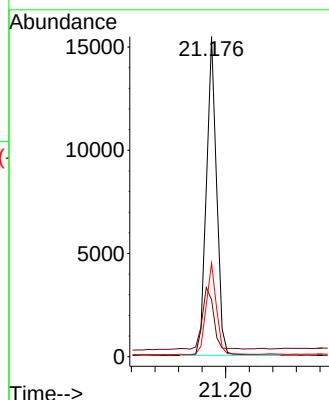
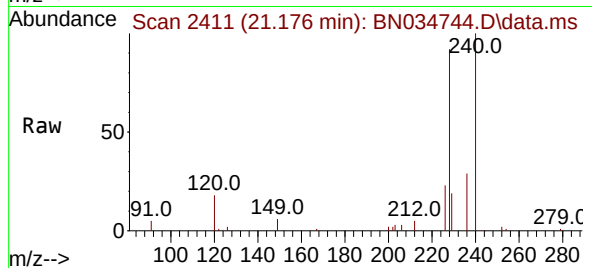
Tgt Ion:240 Resp: 18538

Ion Ratio Lower Upper

240 100

120 17.8 11.5 17.3#

236 29.2 23.2 34.8



#30

Pyrene

Concen: 1.600 ng

RT: 19.408 min Scan# 2048

Delta R.T. -0.002 min

Lab File: BN034744.D

Acq: 30 Oct 2024 11:44

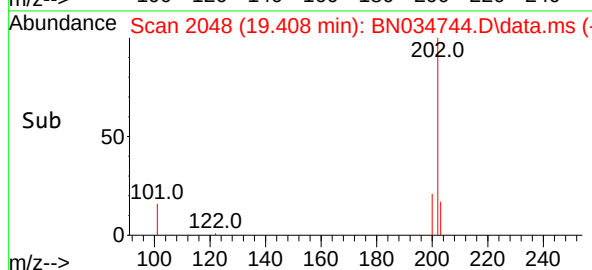
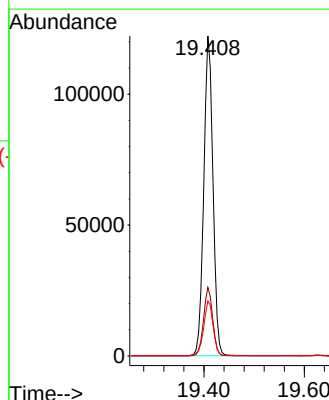
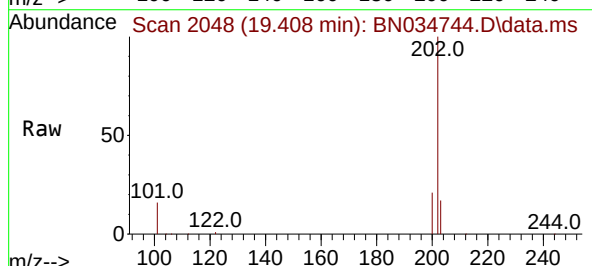
Tgt Ion:202 Resp: 155057

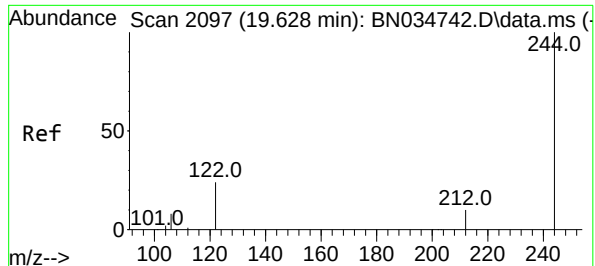
Ion Ratio Lower Upper

202 100

200 21.2 17.0 25.4

203 17.7 14.2 21.2

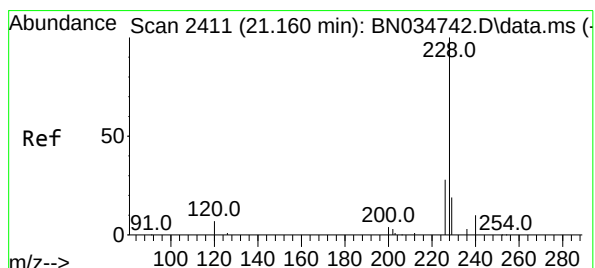
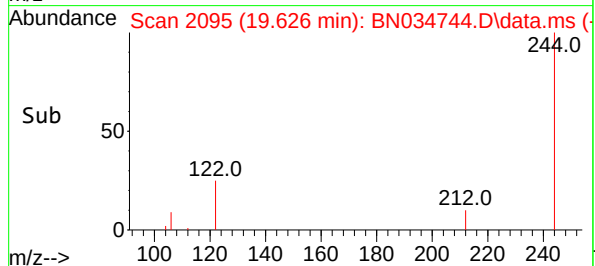
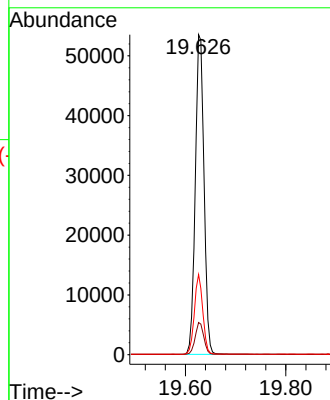
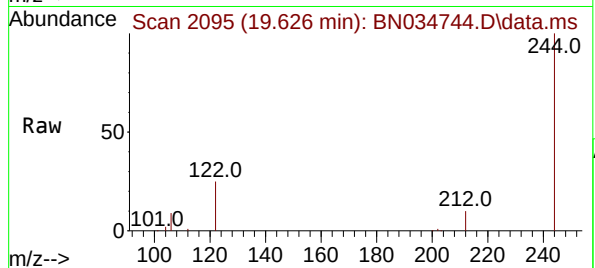




#31
Terphenyl-d14
Concen: 1.614 ng
RT: 19.626 min Scan# 2095
Delta R.T. -0.002 min
Lab File: BN034744.D
Acq: 30 Oct 2024 11:44

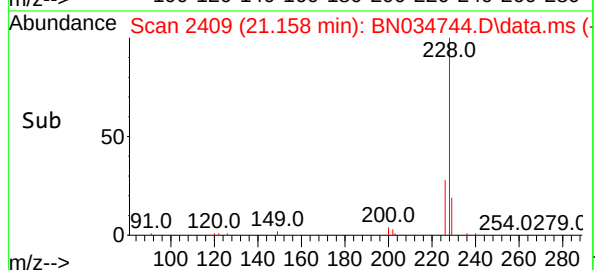
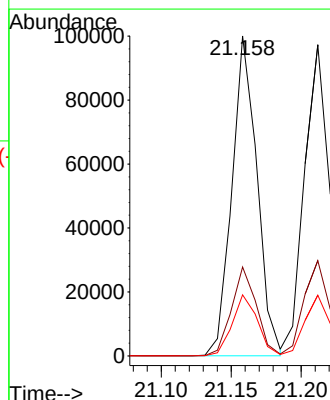
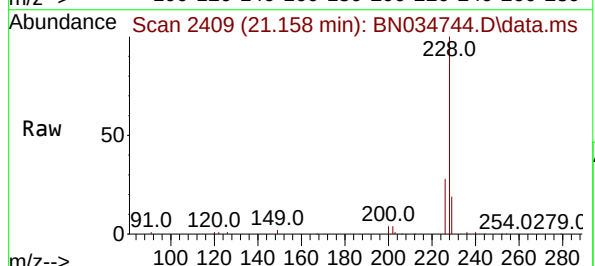
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

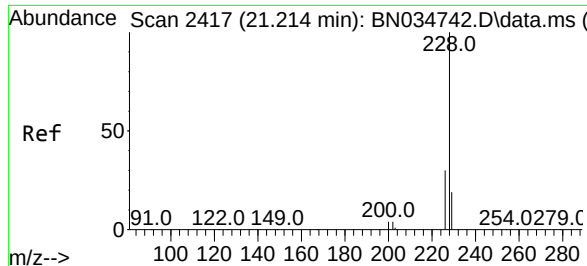
Tgt Ion:244 Resp: 64278
Ion Ratio Lower Upper
244 100
212 10.0 8.2 12.4
122 25.0 19.8 29.6



#32
Benzo(a)anthracene
Concen: 1.687 ng
RT: 21.158 min Scan# 2409
Delta R.T. -0.002 min
Lab File: BN034744.D
Acq: 30 Oct 2024 11:44

Tgt Ion:228 Resp: 124466
Ion Ratio Lower Upper
228 100
226 27.8 22.6 33.8
229 19.1 15.7 23.5





#33

Chrysene

Concen: 1.687 ng

RT: 21.212 min Scan# 2417

Delta R.T. -0.002 min

Lab File: BN034744.D

Acq: 30 Oct 2024 11:44

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

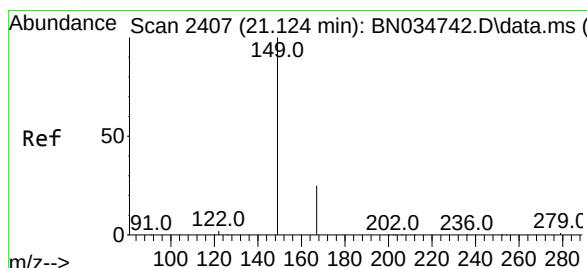
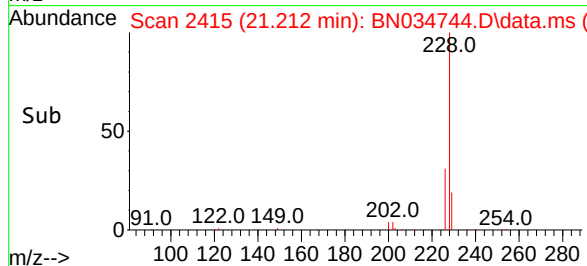
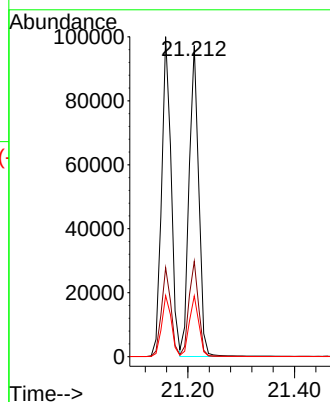
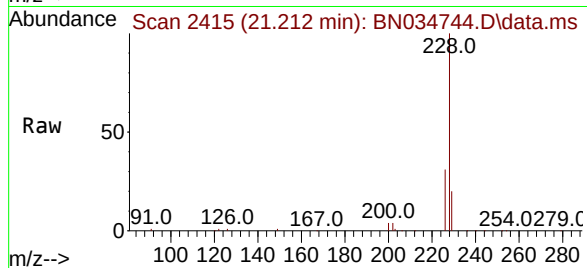
Tgt Ion:228 Resp: 121891

Ion Ratio Lower Upper

228 100

226 30.6 24.4 36.6

229 19.5 15.6 23.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 1.601 ng

RT: 21.122 min Scan# 2405

Delta R.T. -0.002 min

Lab File: BN034744.D

Acq: 30 Oct 2024 11:44

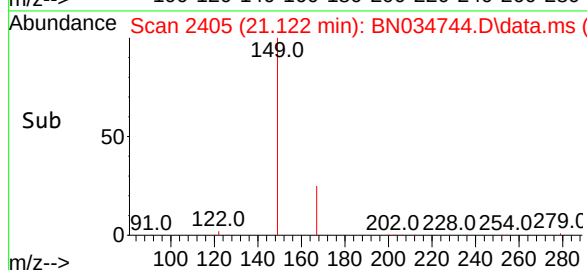
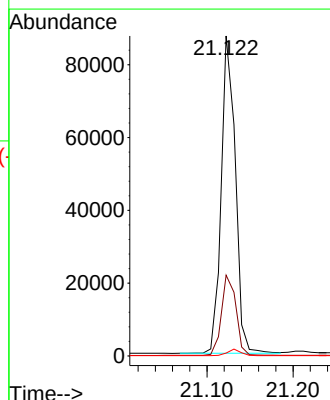
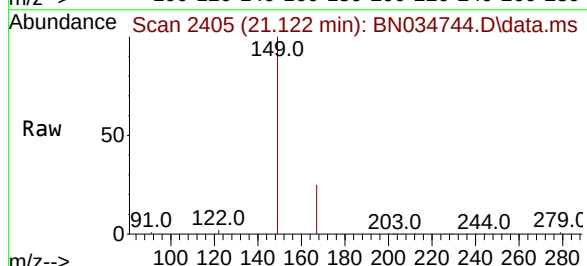
Tgt Ion:149 Resp: 98800

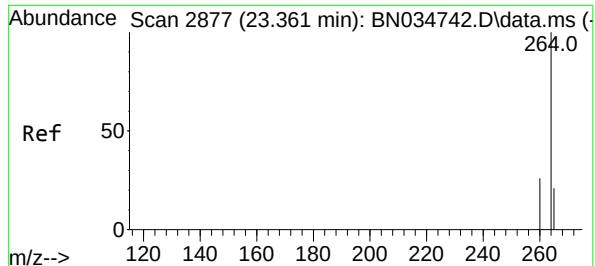
Ion Ratio Lower Upper

149 100

167 25.8 20.6 30.8

279 1.9 1.5 2.3





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.359 min Scan# 21

Delta R.T. -0.002 min

Lab File: BN034744.D

Acq: 30 Oct 2024 11:44

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

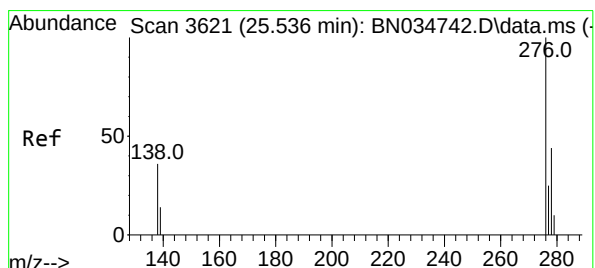
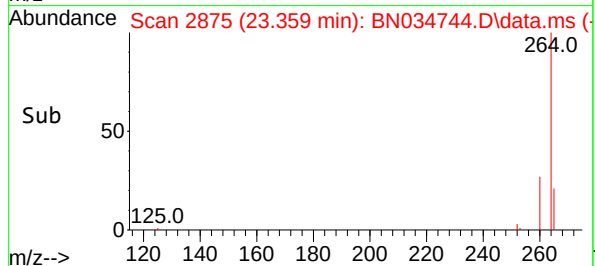
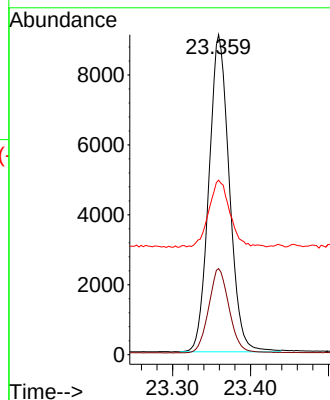
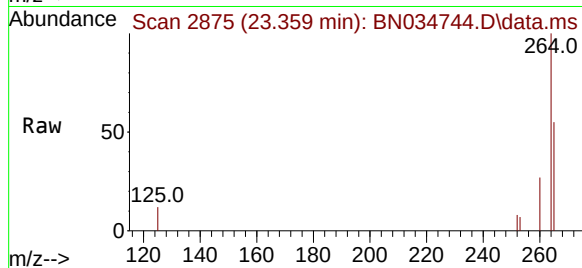
Tgt Ion:264 Resp: 16531

Ion Ratio Lower Upper

264 100

260 26.9 21.5 32.3

265 54.5 47.5 71.3



#36

Indeno(1,2,3-cd)pyrene

Concen: 1.612 ng

RT: 25.537 min Scan# 3620

Delta R.T. 0.001 min

Lab File: BN034744.D

Acq: 30 Oct 2024 11:44

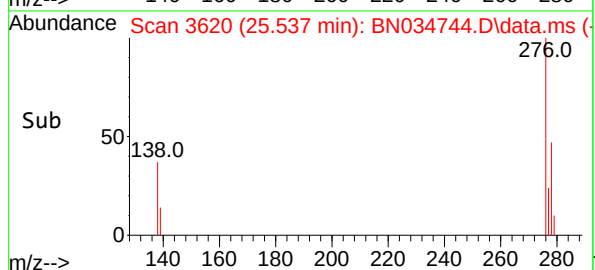
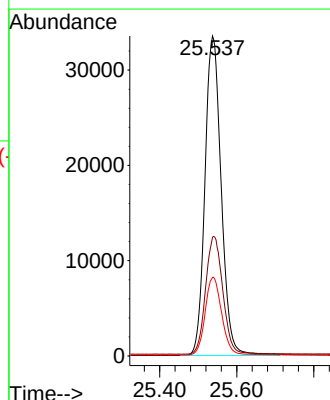
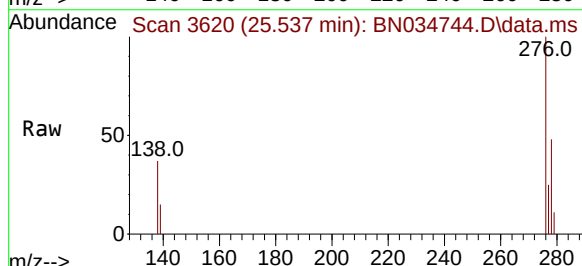
Tgt Ion:276 Resp: 98007

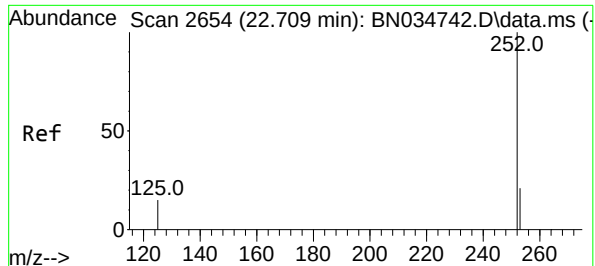
Ion Ratio Lower Upper

276 100

138 38.9 31.5 47.3

277 24.6 19.7 29.5





#37

Benzo(b)fluoranthene

Concen: 1.719 ng

RT: 22.710 min Scan# 2653

Delta R.T. 0.001 min

Lab File: BN034744.D

Acq: 30 Oct 2024 11:44

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

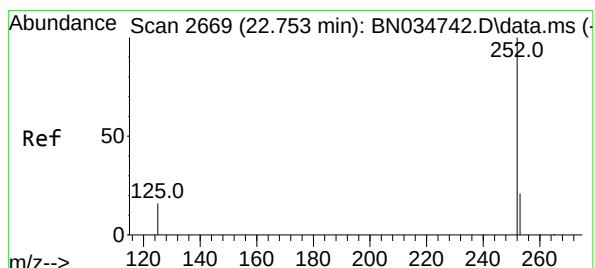
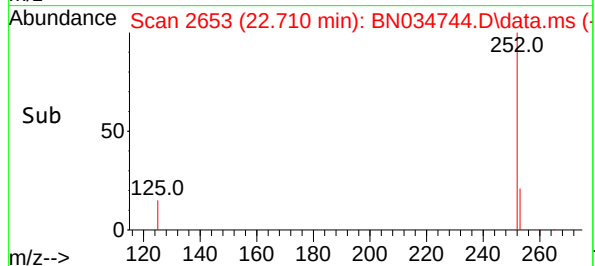
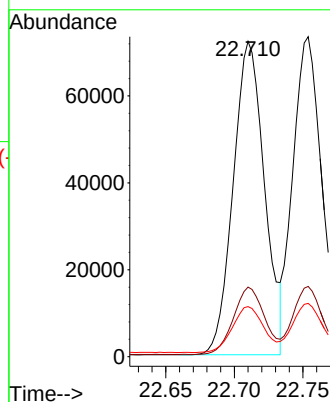
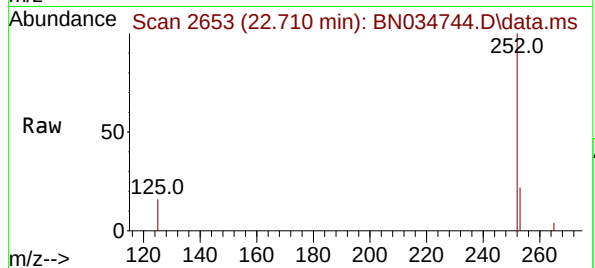
Tgt Ion:252 Resp: 114384

Ion Ratio Lower Upper

252 100

253 22.1 19.7 29.5

125 15.9 17.1 25.7#



#38

Benzo(k)fluoranthene

Concen: 1.683 ng

RT: 22.754 min Scan# 2668

Delta R.T. 0.001 min

Lab File: BN034744.D

Acq: 30 Oct 2024 11:44

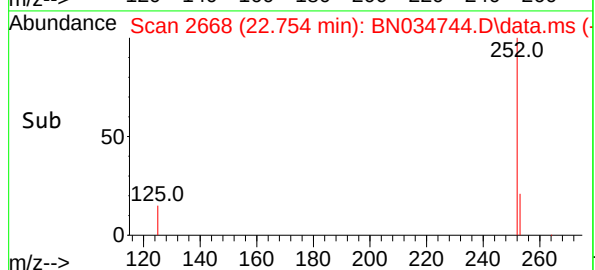
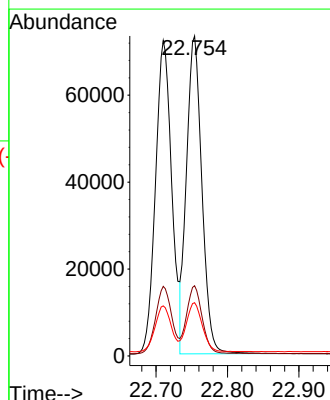
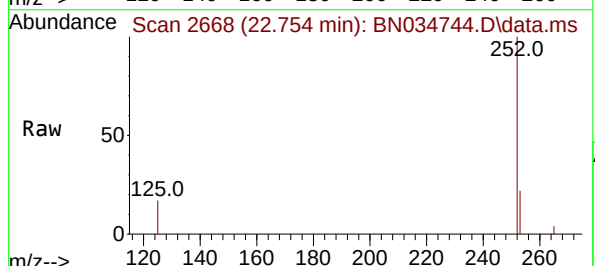
Tgt Ion:252 Resp: 109313

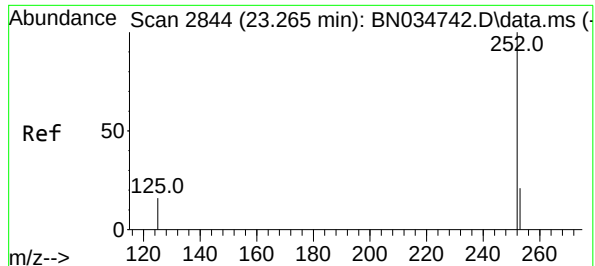
Ion Ratio Lower Upper

252 100

253 21.9 19.8 29.6

125 16.7 18.2 27.2#





#39

Benzo(a)pyrene

Concen: 1.691 ng

RT: 23.265 min Scan# 21

Delta R.T. 0.001 min

Lab File: BN034744.D

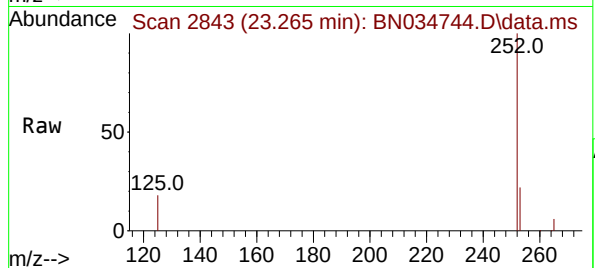
Acq: 30 Oct 2024 11:44

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



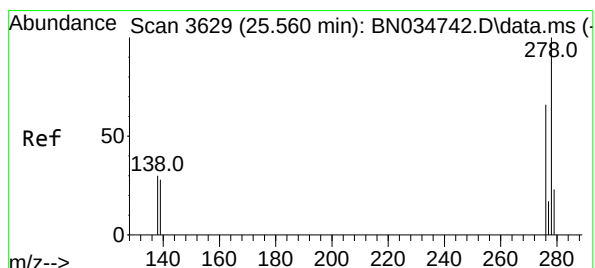
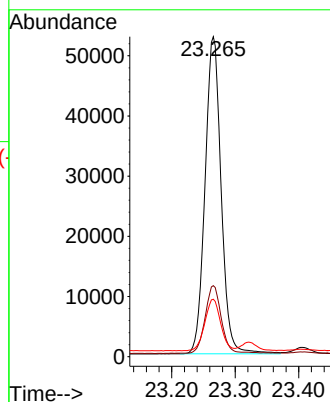
Tgt Ion:252 Resp: 92846

Ion Ratio Lower Upper

252 100

253 22.2 20.7 31.1

125 17.9 20.3 30.5#



#40

Dibenzo(a,h)anthracene

Concen: 1.607 ng

RT: 25.555 min Scan# 3626

Delta R.T. -0.005 min

Lab File: BN034744.D

Acq: 30 Oct 2024 11:44

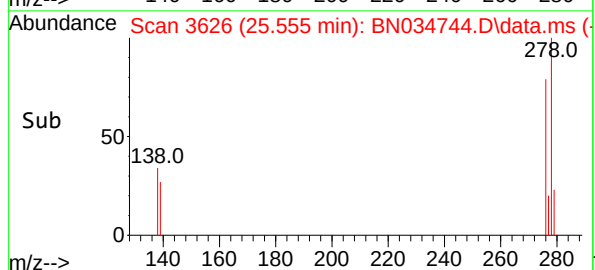
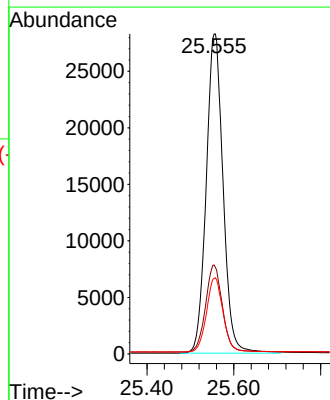
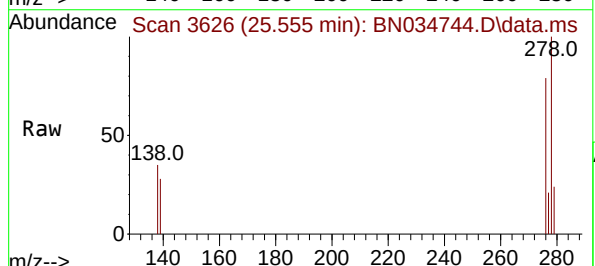
Tgt Ion:278 Resp: 76192

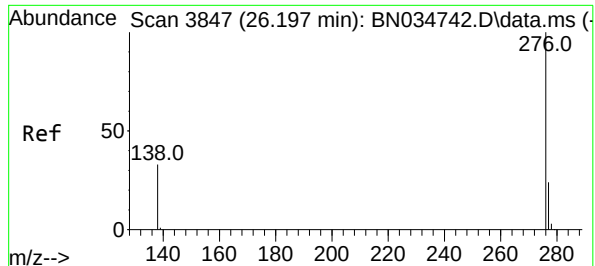
Ion Ratio Lower Upper

278 100

139 27.8 24.9 37.3

279 23.7 21.0 31.4





#41

Benzo(g,h,i)perylene

Concen: 1.577 ng

RT: 26.198 min Scan# 3846

Delta R.T. 0.001 min

Lab File: BN034744.D

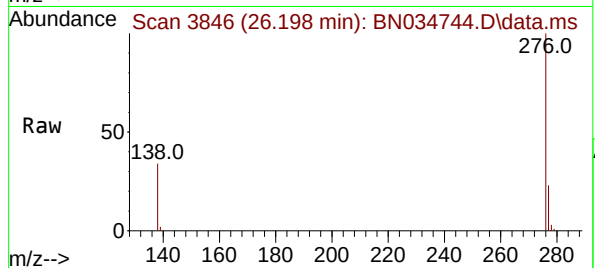
Acq: 30 Oct 2024 11:44

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



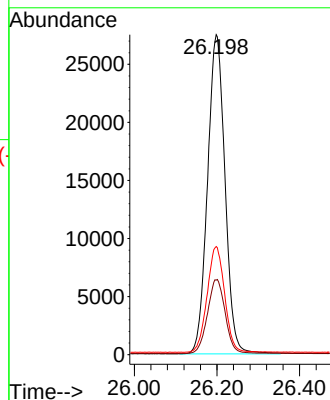
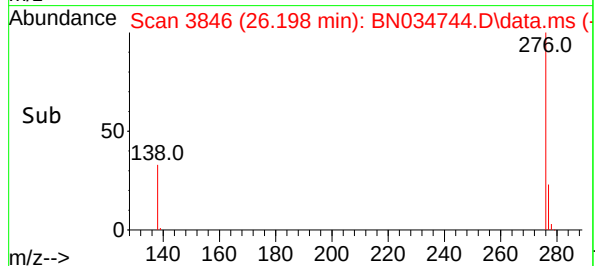
Tgt Ion:276 Resp: 80842

Ion Ratio Lower Upper

276 100

277 23.3 20.2 30.2

138 33.8 28.7 43.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN103024\
 Data File : BN034745.D
 Acq On : 30 Oct 2024 12:20
 Operator : RC/JU
 Sample : SSTDICC3.2
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

Quant Time: Oct 30 13:33:31 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 30 13:28:24 2024
 Response via : Initial Calibration

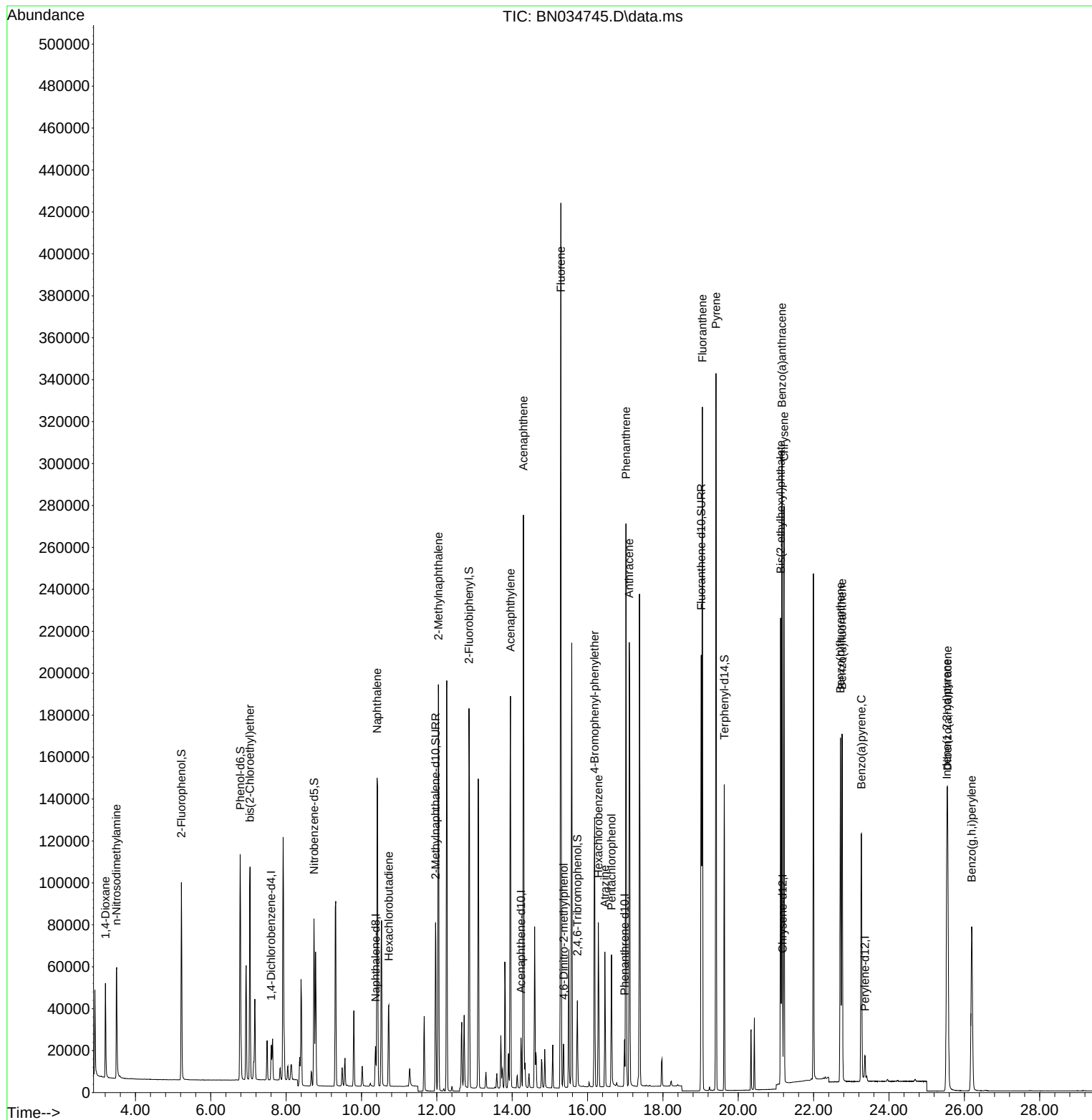
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.604	152	7839	0.400	ng	0.00
7) Naphthalene-d8	10.372	136	23469	0.400	ng	0.00
13) Acenaphthene-d10	14.233	164	12728	0.400	ng	0.00
19) Phenanthrene-d10	16.982	188	26921	0.400	ng	0.00
29) Chrysene-d12	21.178	240	17860	0.400	ng	0.00
35) Perylene-d12	23.361	264	14803	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.220	112	71738	3.021	ng	0.00
5) Phenol-d6	6.780	99	94762	3.071	ng	0.00
8) Nitrobenzene-d5	8.739	82	57884	3.138	ng	0.00
11) 2-Methylnaphthalene-d10	11.965	152	106744	3.142	ng	0.00
14) 2,4,6-Tribromophenol	15.728	330	20998	3.340	ng	0.00
15) 2-Fluorobiphenyl	12.854	172	156997	3.132	ng	-0.01
27) Fluoranthene-d10	19.015	212	202339	3.204	ng	0.00
31) Terphenyl-d14	19.628	244	117940	3.075	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.205	88	26237	3.053	ng	95
3) n-Nitrosodimethylamine	3.494	42	30381	3.136	ng	99
6) bis(2-Chloroethyl)ether	7.040	93	69949	3.106	ng	100
9) Naphthalene	10.415	128	200718	3.093	ng	99
10) Hexachlorobutadiene	10.725	225	32560	3.046	ng	# 99
12) 2-Methylnaphthalene	12.041	142	133202	3.138	ng	99
16) Acenaphthylene	13.955	152	205467	3.217	ng	100
17) Acenaphthene	14.297	154	135647	3.188	ng	98
18) Fluorene	15.291	166	167960	3.167	ng	100
20) 4,6-Dinitro-2-methylph...	15.366	198	14820	3.054	ng	# 59
21) 4-Bromophenyl-phenylether	16.188	248	49257	3.162	ng	97
22) Hexachlorobenzene	16.287	284	54623	3.132	ng	99
23) Atrazine	16.461	200	43642	3.254	ng	98
24) Pentachlorophenol	16.634	266	27299	3.635	ng	99
25) Phenanthrene	17.019	178	251446	3.176	ng	100
26) Anthracene	17.106	178	238630	3.221	ng	100
28) Fluoranthene	19.048	202	279121	3.199	ng	100
30) Pyrene	19.410	202	285947	3.062	ng	100
32) Benzo(a)anthracene	21.160	228	225874	3.177	ng	99
33) Chrysene	21.214	228	216996	3.117	ng	99
34) Bis(2-ethylhexyl)phtha...	21.124	149	176797	2.974	ng	99
36) Indeno(1,2,3-cd)pyrene	25.536	276	168535	3.095	ng	99
37) Benzo(b)fluoranthene	22.712	252	191690	3.217	ng	# 91
38) Benzo(k)fluoranthene	22.753	252	190108	3.269	ng	# 90
39) Benzo(a)pyrene	23.268	252	158240	3.218	ng	# 88
40) Dibenzo(a,h)anthracene	25.557	278	131448	3.095	ng	93
41) Benzo(g,h,i)perylene	26.194	276	140292	3.057	ng	96

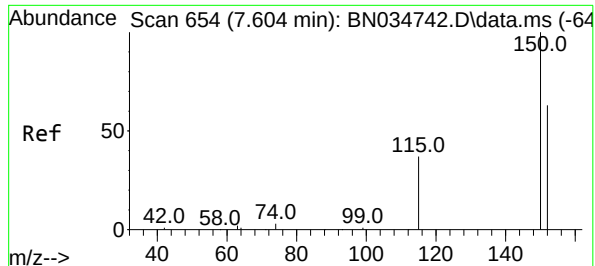
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN034745.D
Acq On : 30 Oct 2024 12:20
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Oct 30 13:33:31 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 30 13:28:24 2024
Response via : Initial Calibration

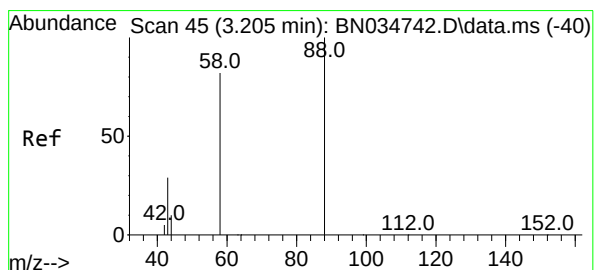
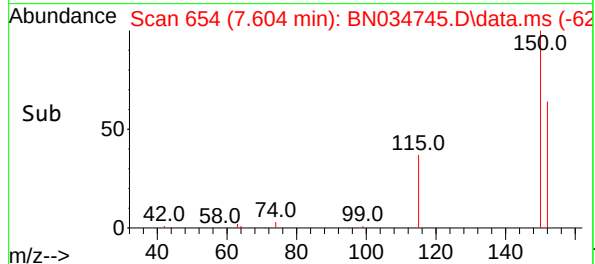
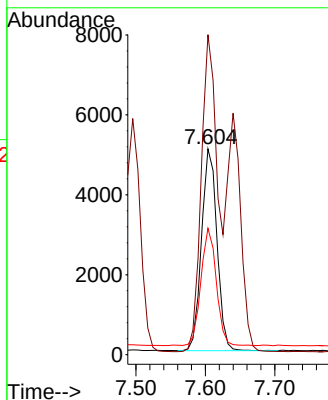
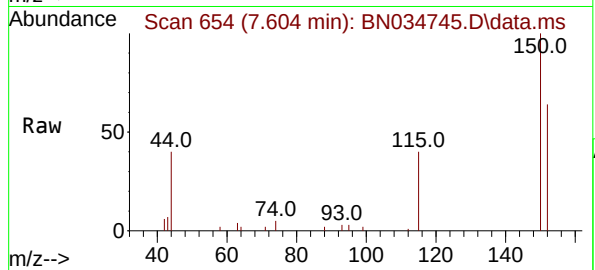




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.604 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN034745.D
Acq: 30 Oct 2024 12:20

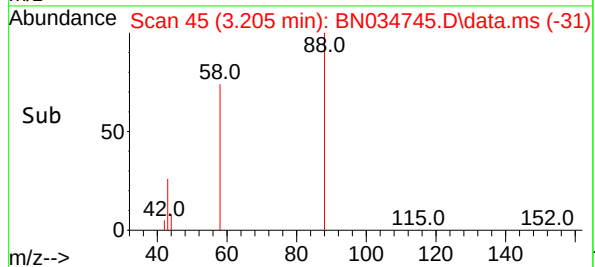
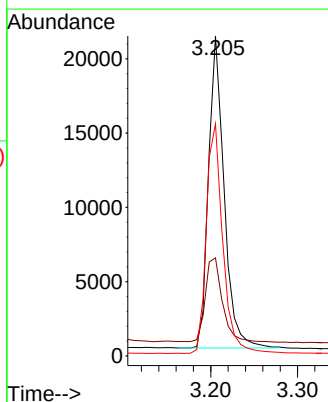
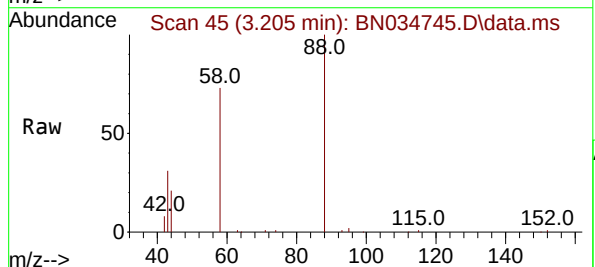
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

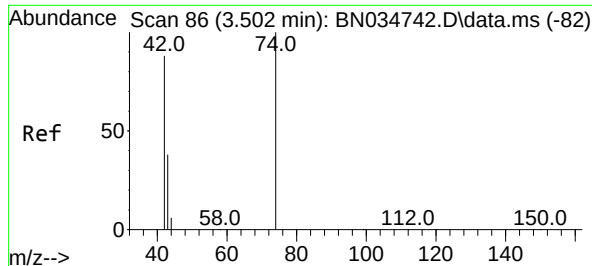
Tgt Ion:152 Resp: 7839
Ion Ratio Lower Upper
152 100
150 155.5 124.9 187.3
115 61.5 50.2 75.2



#2
1,4-Dioxane
Concen: 3.053 ng
RT: 3.205 min Scan# 45
Delta R.T. 0.000 min
Lab File: BN034745.D
Acq: 30 Oct 2024 12:20

Tgt Ion: 88 Resp: 26237
Ion Ratio Lower Upper
88 100
43 29.8 26.7 40.1
58 77.8 59.3 88.9

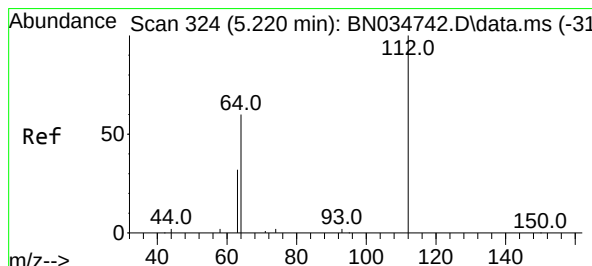
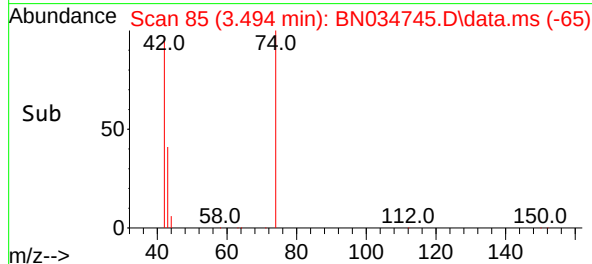
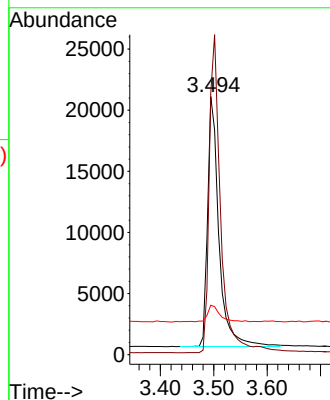
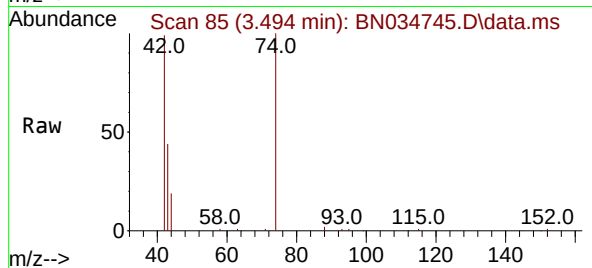




#3
n-Nitrosodimethylamine
Concen: 3.136 ng
RT: 3.494 min Scan# 81
Delta R.T. -0.007 min
Lab File: BN034745.D
Acq: 30 Oct 2024 12:20

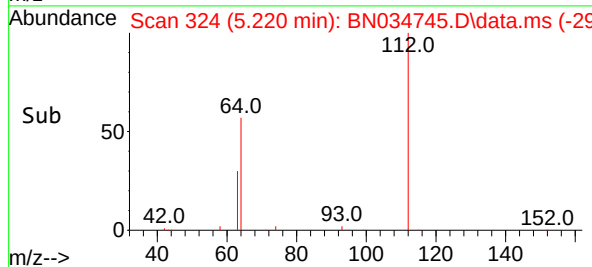
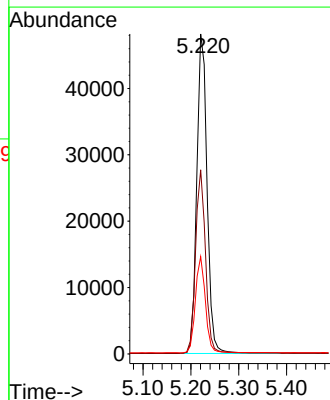
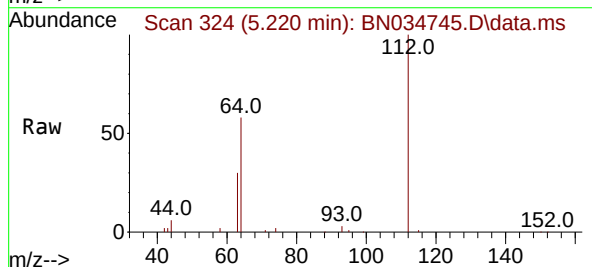
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

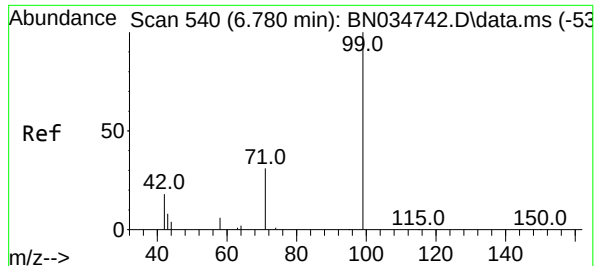
Tgt Ion: 42 Resp: 30381
Ion Ratio Lower Upper
42 100
74 128.3 103.1 154.7
44 7.8 6.7 10.1



#4
2-Fluorophenol
Concen: 3.021 ng
RT: 5.220 min Scan# 324
Delta R.T. 0.000 min
Lab File: BN034745.D
Acq: 30 Oct 2024 12:20

Tgt Ion: 112 Resp: 71738
Ion Ratio Lower Upper
112 100
64 55.9 44.9 67.3
63 29.2 23.5 35.3

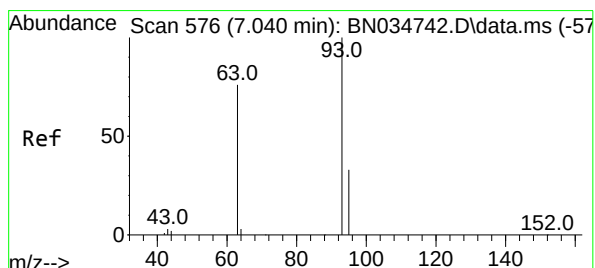
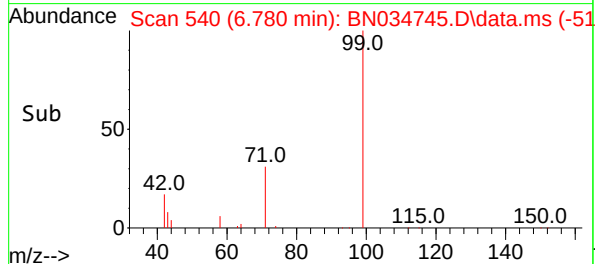
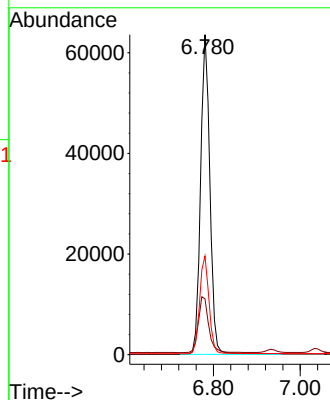
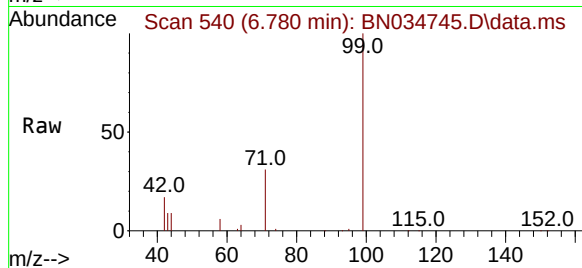




#5
Phenol-d6
Concen: 3.071 ng
RT: 6.780 min Scan# 540
Delta R.T. 0.000 min
Lab File: BN034745.D
Acq: 30 Oct 2024 12:20

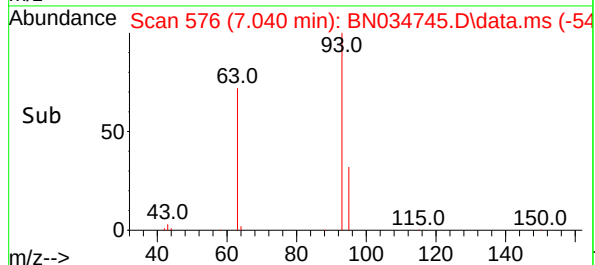
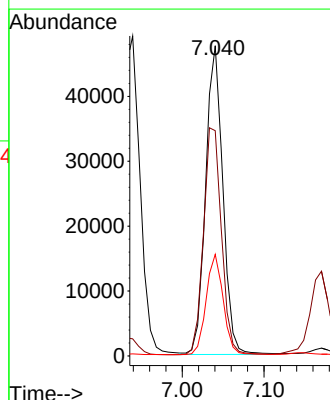
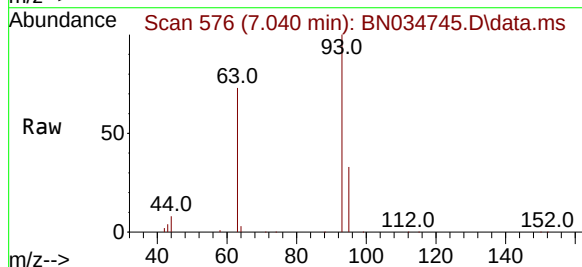
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

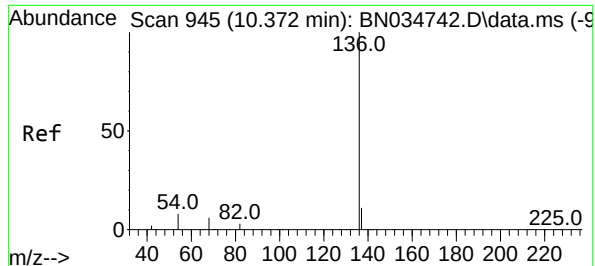
Tgt Ion: 99 Resp: 94762
Ion Ratio Lower Upper
99 100
42 19.3 15.9 23.9
71 30.8 24.3 36.5



#6
bis(2-Chloroethyl)ether
Concen: 3.106 ng
RT: 7.040 min Scan# 576
Delta R.T. 0.000 min
Lab File: BN034745.D
Acq: 30 Oct 2024 12:20

Tgt Ion: 93 Resp: 69949
Ion Ratio Lower Upper
93 100
63 76.8 61.2 91.8
95 32.1 25.8 38.8

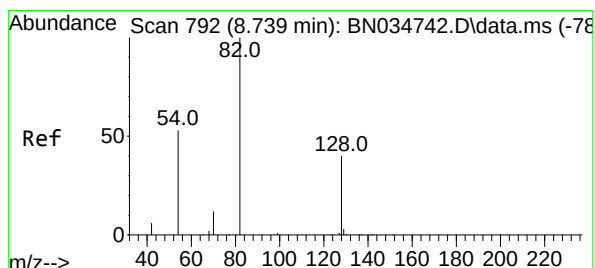
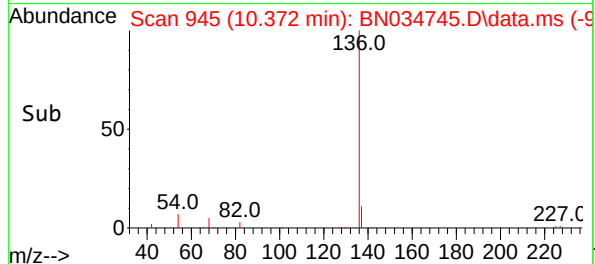
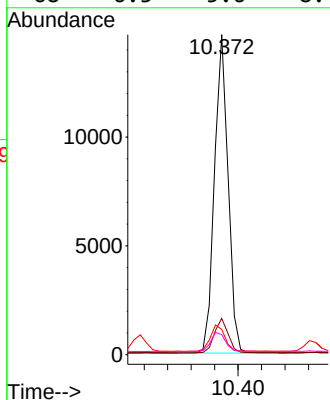
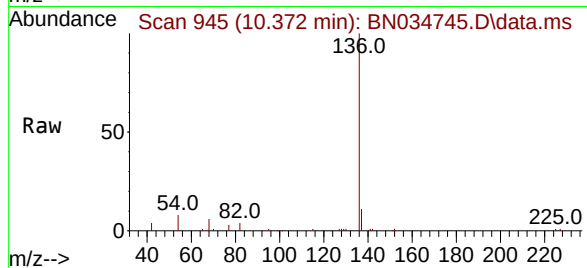




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.372 min Scan# 945
Delta R.T. 0.000 min
Lab File: BN034745.D
Acq: 30 Oct 2024 12:20

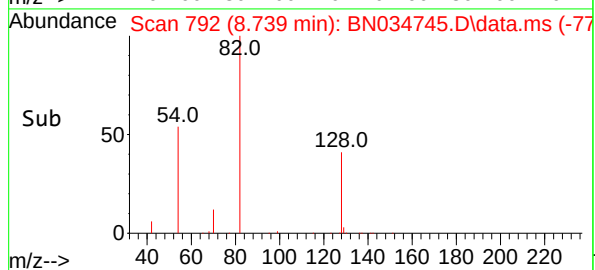
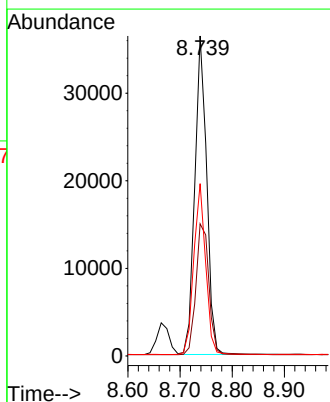
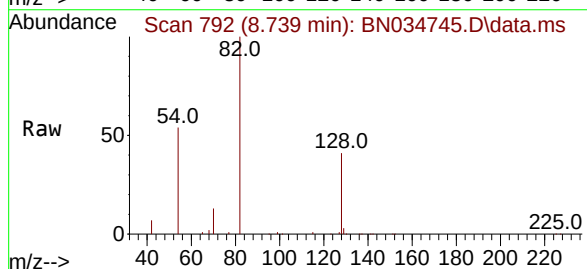
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

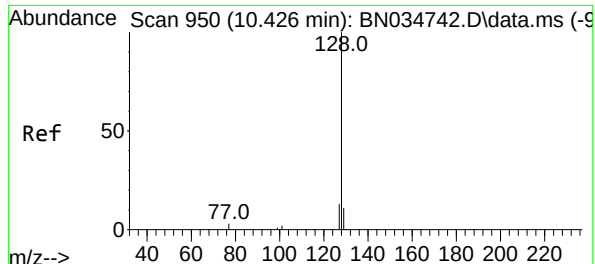
Tgt Ion:	136	Resp:	23469
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.2	13.8
54	7.9	7.0	10.4
68	6.3	5.6	8.4



#8
Nitrobenzene-d5
Concen: 3.138 ng
RT: 8.739 min Scan# 792
Delta R.T. 0.000 min
Lab File: BN034745.D
Acq: 30 Oct 2024 12:20

Tgt Ion:	82	Resp:	57884
Ion	Ratio	Lower	Upper
82	100		
128	41.3	33.7	50.5
54	53.9	44.4	66.6

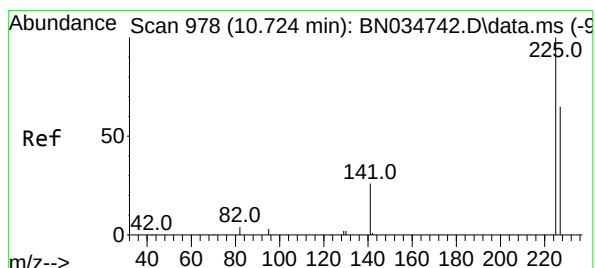
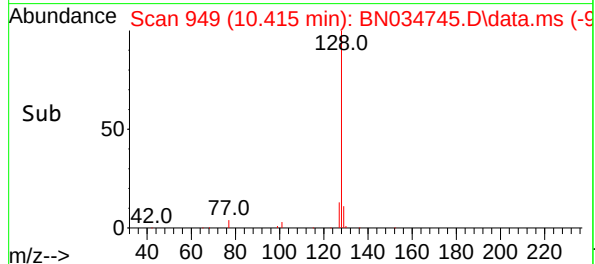
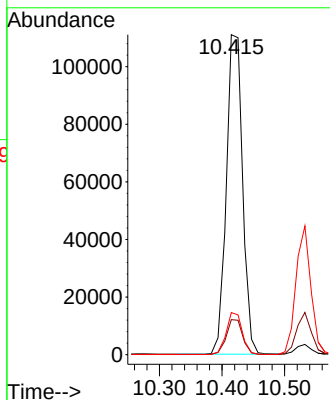
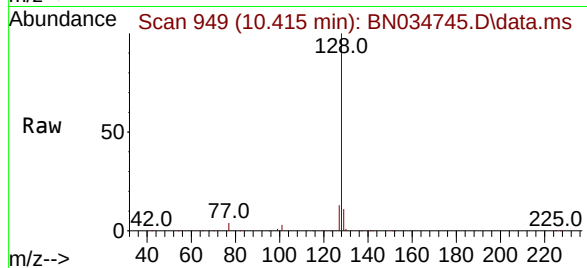




#9
Naphthalene
Concen: 3.093 ng
RT: 10.415 min Scan# 949
Delta R.T. -0.011 min
Lab File: BN034745.D
Acq: 30 Oct 2024 12:20

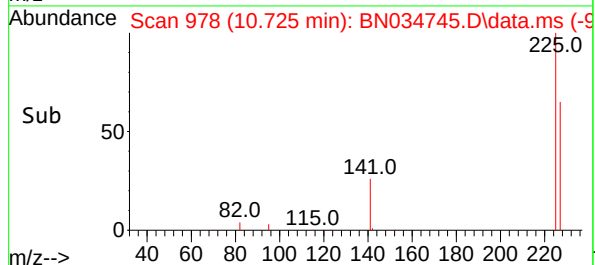
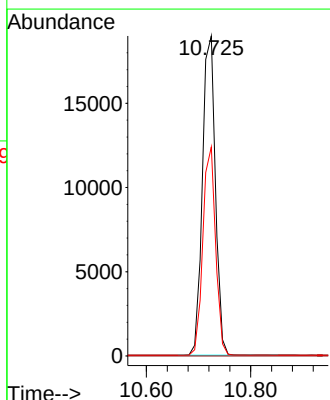
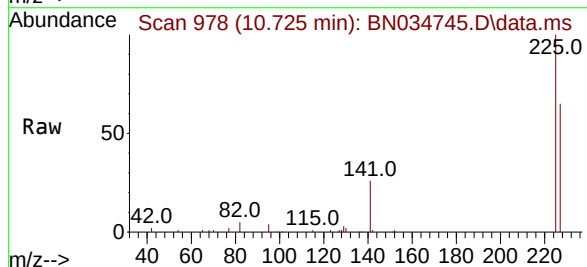
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

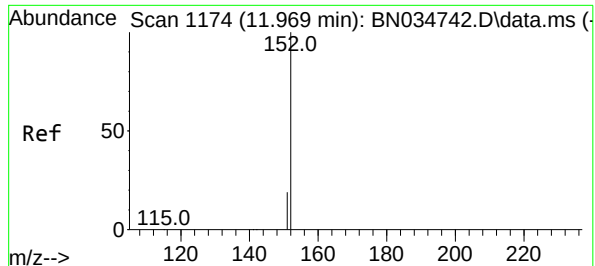
Tgt Ion:128 Resp: 200718
Ion Ratio Lower Upper
128 100
129 10.9 9.4 14.0
127 13.2 10.6 15.8



#10
Hexachlorobutadiene
Concen: 3.046 ng
RT: 10.725 min Scan# 978
Delta R.T. 0.000 min
Lab File: BN034745.D
Acq: 30 Oct 2024 12:20

Tgt Ion:225 Resp: 32560
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.8 51.4 77.2

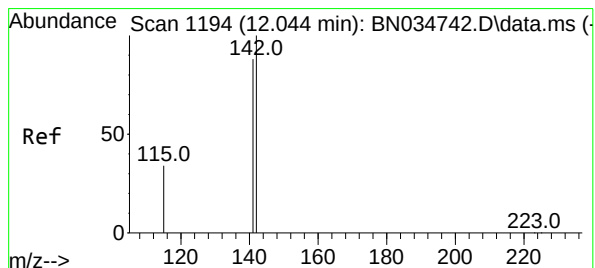
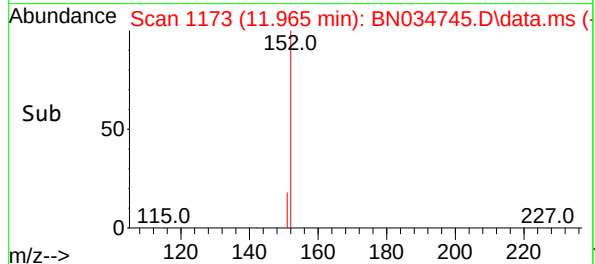
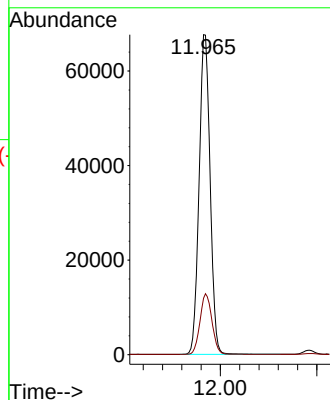
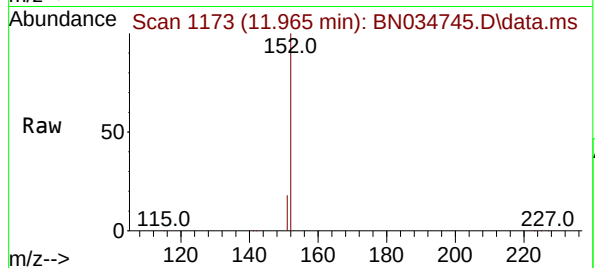




#11
2-Methylnaphthalene-d10
Concen: 3.142 ng
RT: 11.965 min Scan# 1173
Delta R.T. -0.004 min
Lab File: BN034745.D
Acq: 30 Oct 2024 12:20

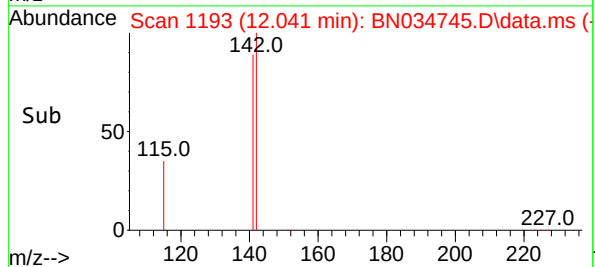
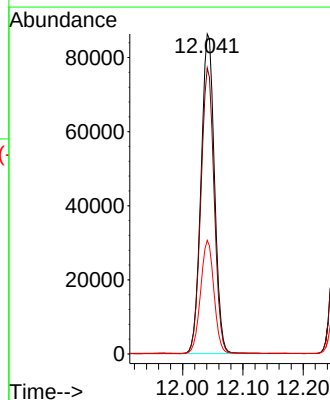
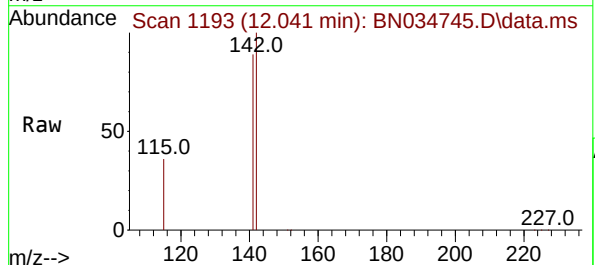
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

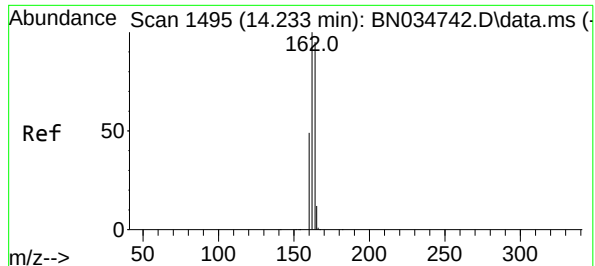
Tgt Ion:152 Resp: 106744
Ion Ratio Lower Upper
152 100
151 20.7 16.6 24.8



#12
2-Methylnaphthalene
Concen: 3.138 ng
RT: 12.041 min Scan# 1193
Delta R.T. -0.004 min
Lab File: BN034745.D
Acq: 30 Oct 2024 12:20

Tgt Ion:142 Resp: 133202
Ion Ratio Lower Upper
142 100
141 89.4 70.6 106.0
115 35.5 28.6 42.8

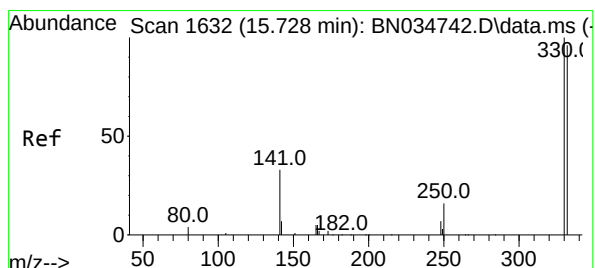
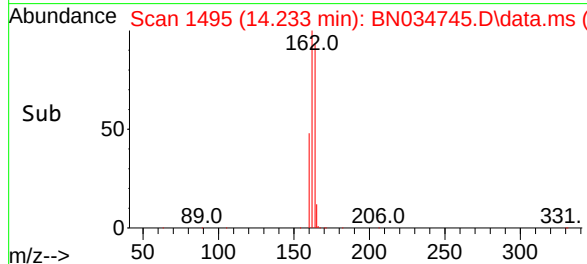
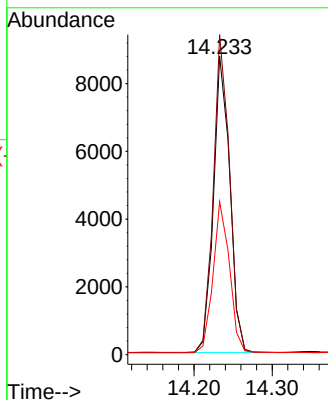
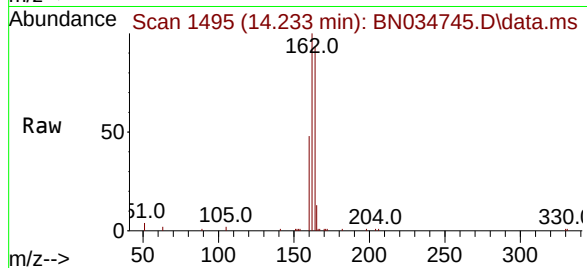




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.233 min Scan# 1495
Delta R.T. 0.000 min
Lab File: BN034745.D
Acq: 30 Oct 2024 12:20

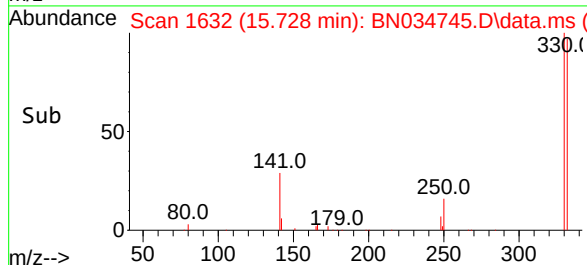
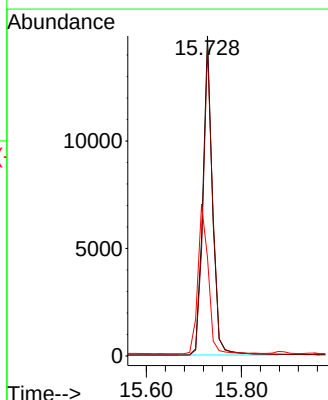
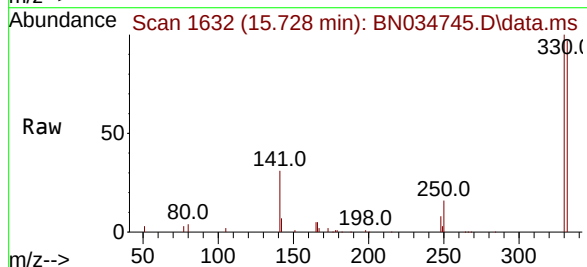
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

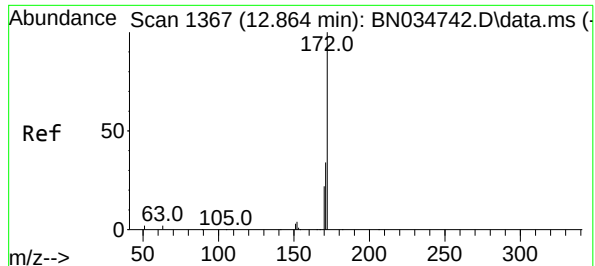
Tgt Ion:164 Resp: 12728
Ion Ratio Lower Upper
164 100
162 107.1 84.3 126.5
160 51.2 41.7 62.5



#14
2,4,6-Tribromophenol
Concen: 3.340 ng
RT: 15.728 min Scan# 1632
Delta R.T. 0.000 min
Lab File: BN034745.D
Acq: 30 Oct 2024 12:20

Tgt Ion:330 Resp: 20998
Ion Ratio Lower Upper
330 100
332 97.1 77.8 116.6
141 50.0 41.0 61.4

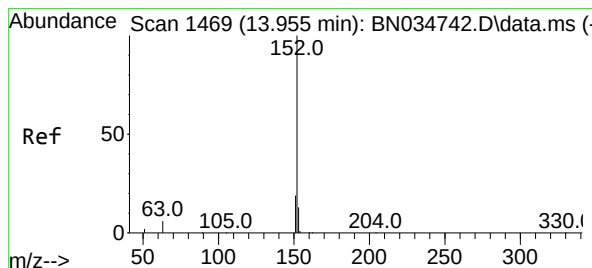
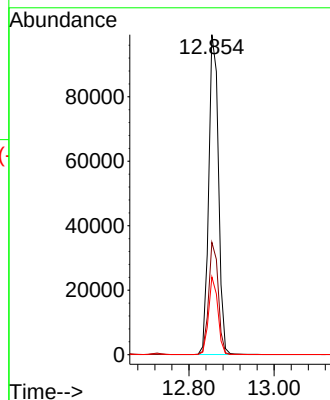
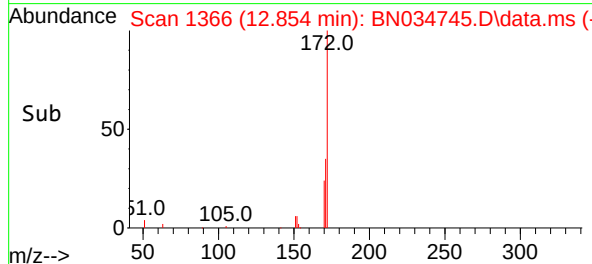
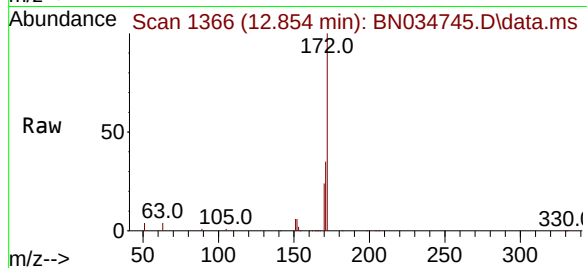




#15
2-Fluorobiphenyl
Concen: 3.132 ng
RT: 12.854 min Scan# 1366
Delta R.T. -0.011 min
Lab File: BN034745.D
Acq: 30 Oct 2024 12:20

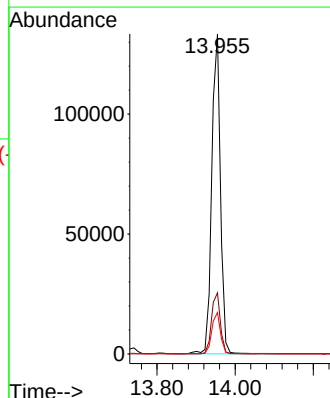
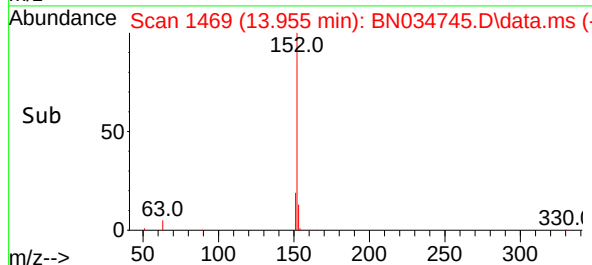
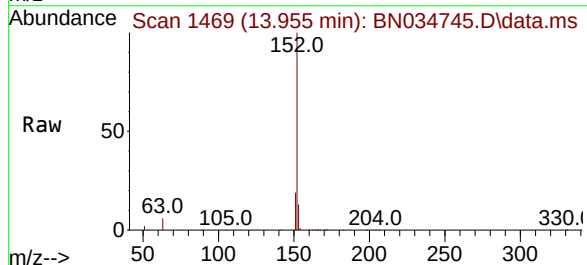
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

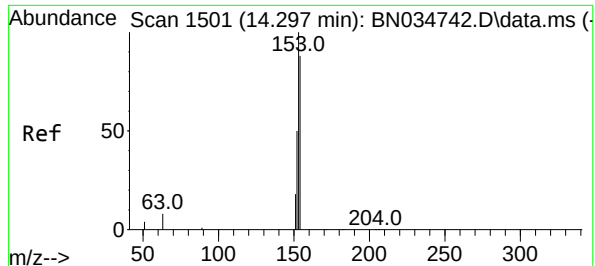
Tgt Ion:172 Resp: 156997
Ion Ratio Lower Upper
172 100
171 35.1 27.2 40.8
170 24.3 18.0 27.0



#16
Acenaphthylene
Concen: 3.217 ng
RT: 13.955 min Scan# 1469
Delta R.T. 0.000 min
Lab File: BN034745.D
Acq: 30 Oct 2024 12:20

Tgt Ion:152 Resp: 205467
Ion Ratio Lower Upper
152 100
151 19.3 15.4 23.2
153 12.9 10.2 15.4

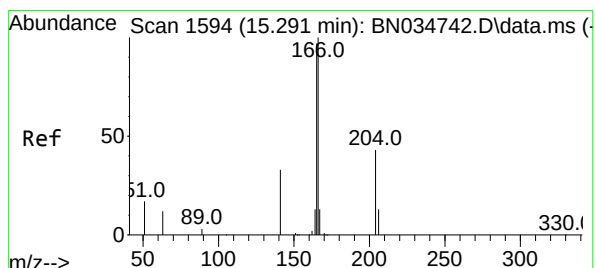
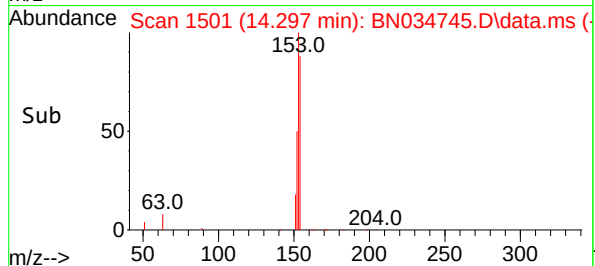
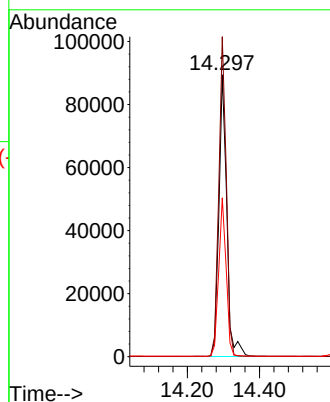
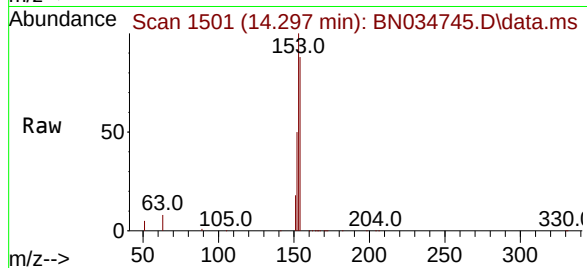




#17
Acenaphthene
Concen: 3.188 ng
RT: 14.297 min Scan# 1501
Delta R.T. 0.000 min
Lab File: BN034745.D
Acq: 30 Oct 2024 12:20

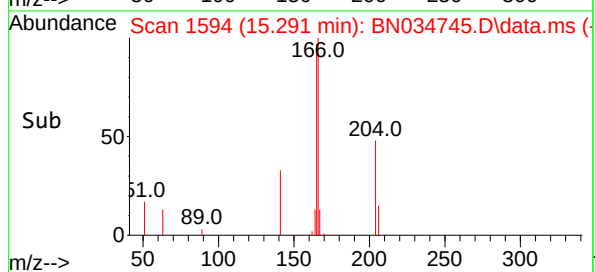
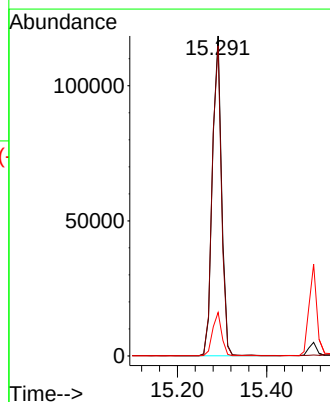
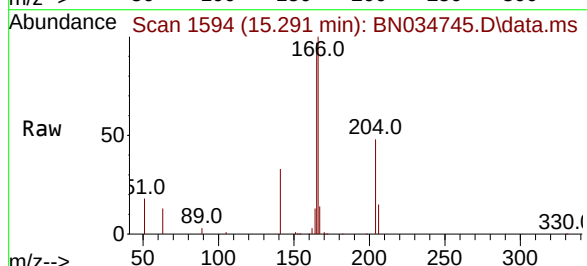
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

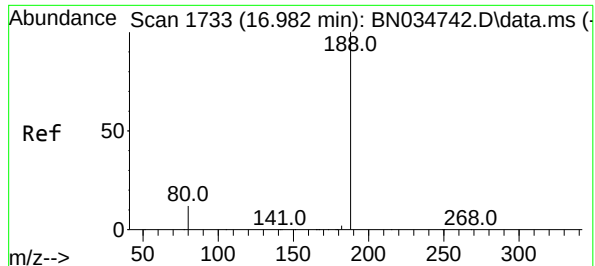
Tgt Ion:154 Resp: 135647
Ion Ratio Lower Upper
154 100
153 107.7 87.8 131.6
152 53.5 44.6 67.0



#18
Fluorene
Concen: 3.167 ng
RT: 15.291 min Scan# 1594
Delta R.T. 0.000 min
Lab File: BN034745.D
Acq: 30 Oct 2024 12:20

Tgt Ion:166 Resp: 167960
Ion Ratio Lower Upper
166 100
165 97.8 78.5 117.7
167 13.4 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.982 min Scan# 1733

Delta R.T. 0.000 min

Lab File: BN034745.D

Acq: 30 Oct 2024 12:20

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

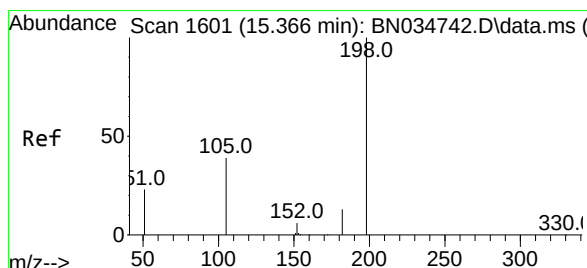
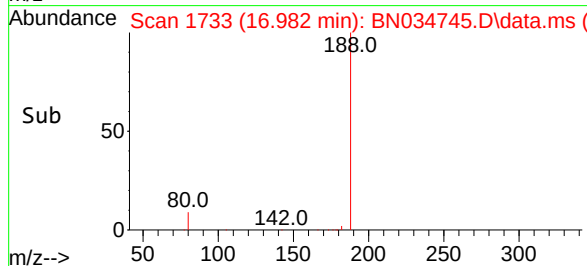
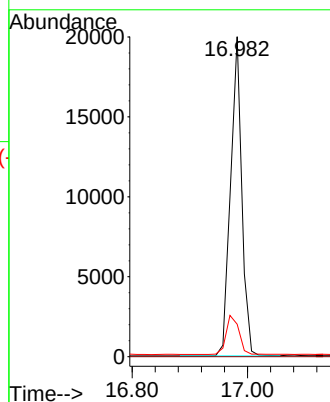
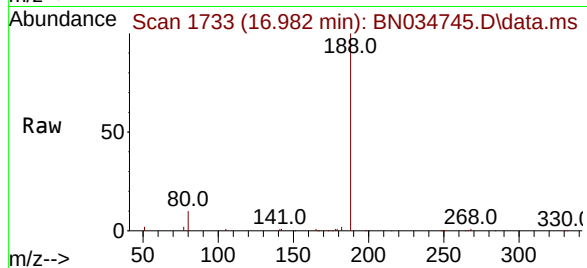
Tgt Ion:188 Resp: 26921

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.1 9.8 14.6



#20

4,6-Dinitro-2-methylphenol

Concen: 3.054 ng

RT: 15.366 min Scan# 1601

Delta R.T. -0.000 min

Lab File: BN034745.D

Acq: 30 Oct 2024 12:20

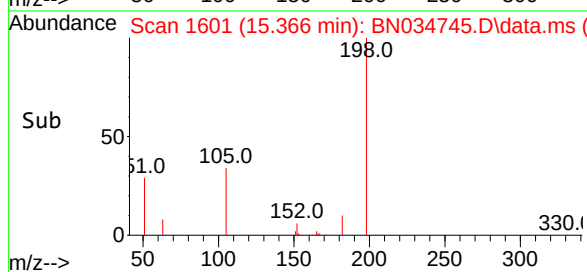
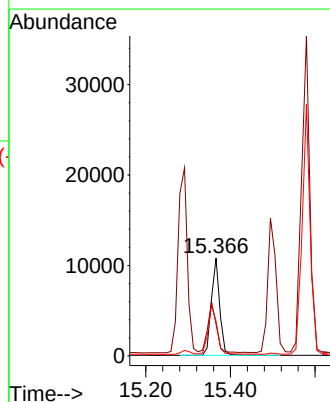
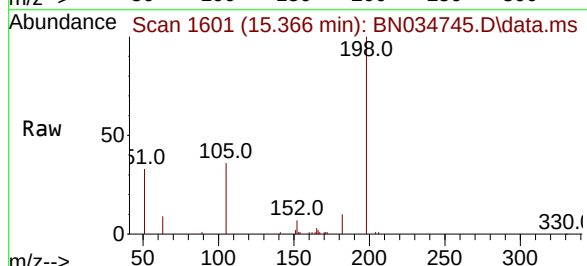
Tgt Ion:198 Resp: 14820

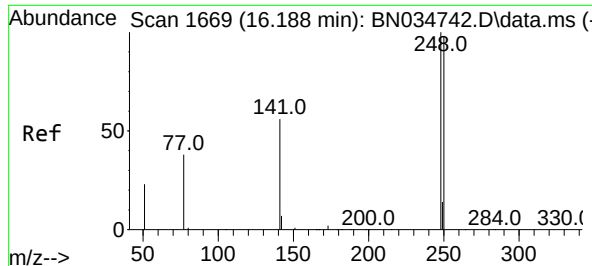
Ion Ratio Lower Upper

198 100

51 32.6 58.0 87.0#

105 35.7 49.1 73.7#

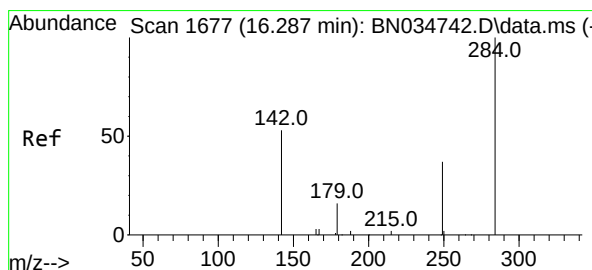
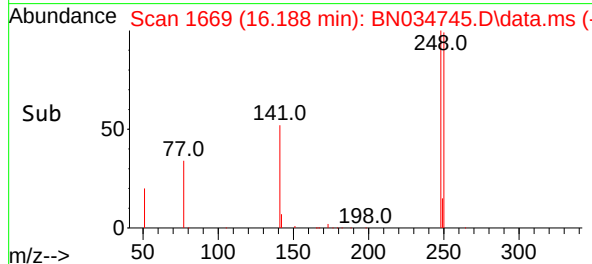
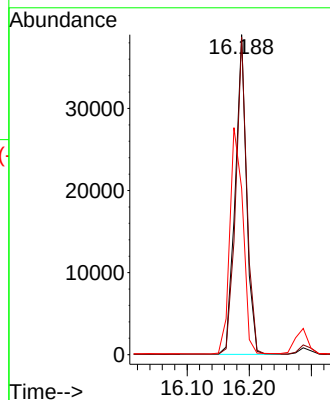
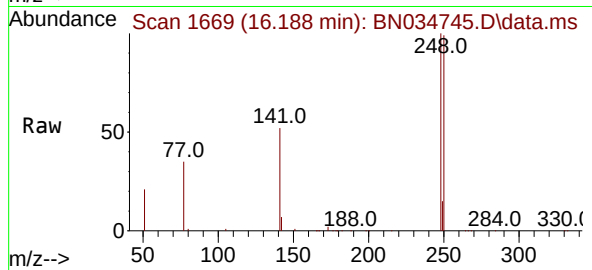




#21
4-Bromophenyl-phenylether
Concen: 3.162 ng
RT: 16.188 min Scan# 1669
Delta R.T. 0.000 min
Lab File: BN034745.D
Acq: 30 Oct 2024 12:20

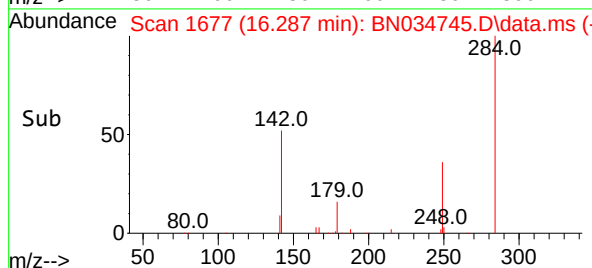
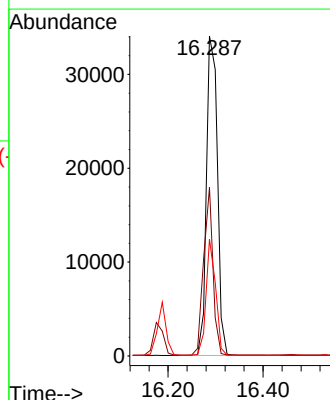
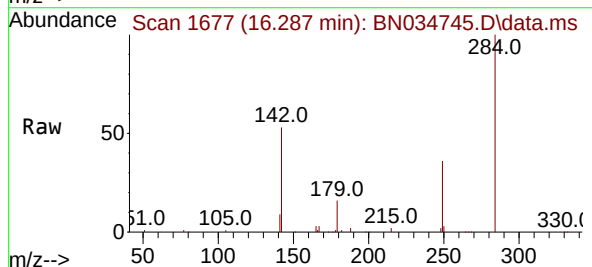
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

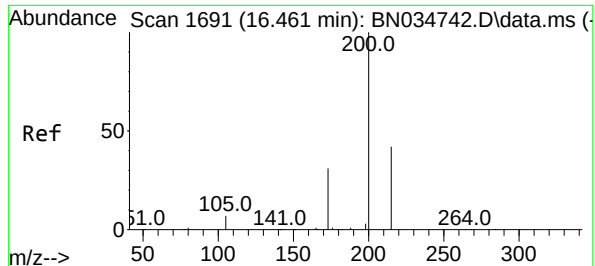
Tgt Ion	Ratio	Lower	Upper
248	100		
250	99.1	78.7	118.1
141	52.0	46.4	69.6



#22
Hexachlorobenzene
Concen: 3.132 ng
RT: 16.287 min Scan# 1677
Delta R.T. 0.000 min
Lab File: BN034745.D
Acq: 30 Oct 2024 12:20

Tgt Ion	Ratio	Lower	Upper
284	100		
142	45.0	35.4	53.0
249	31.7	25.7	38.5





#23

Atrazine

Concen: 3.254 ng

RT: 16.461 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN034745.D

Acq: 30 Oct 2024 12:20

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

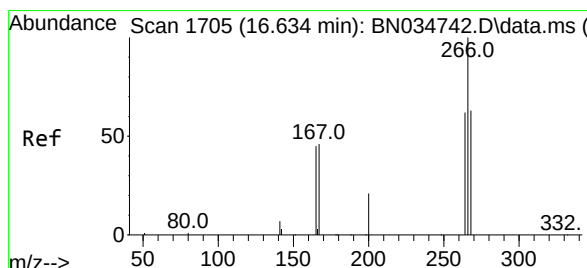
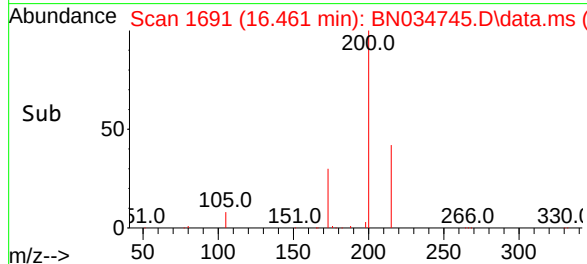
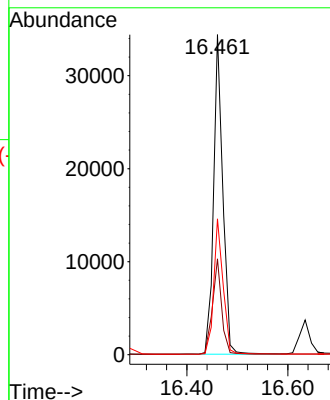
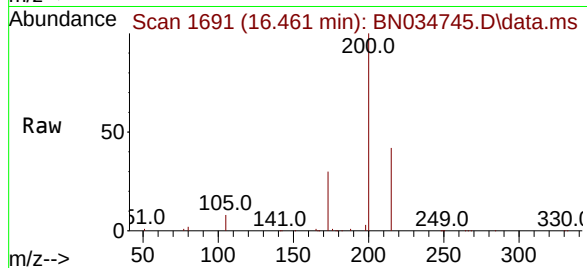
Tgt Ion:200 Resp: 43642

Ion Ratio Lower Upper

200 100

173 29.9 25.8 38.6

215 42.5 34.2 51.4



#24

Pentachlorophenol

Concen: 3.635 ng

RT: 16.634 min Scan# 1705

Delta R.T. 0.000 min

Lab File: BN034745.D

Acq: 30 Oct 2024 12:20

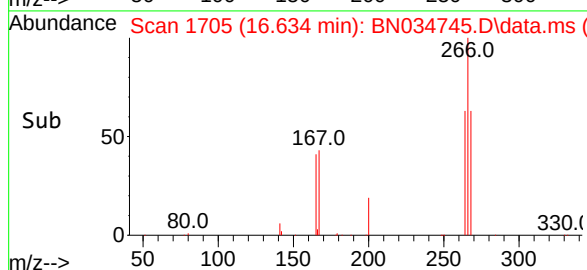
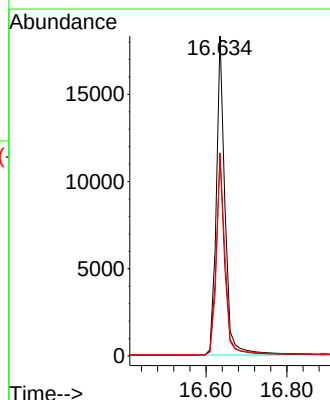
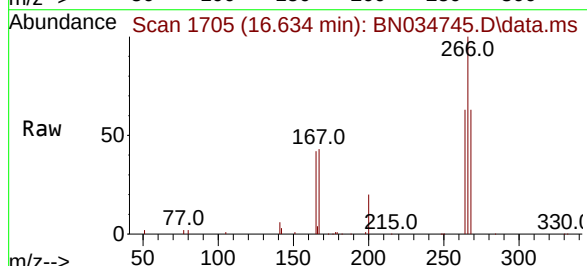
Tgt Ion:266 Resp: 27299

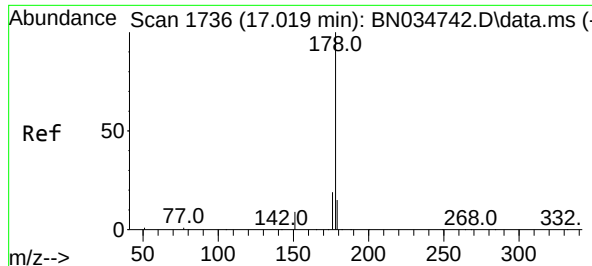
Ion Ratio Lower Upper

266 100

264 62.4 48.7 73.1

268 63.6 50.2 75.4





#25

Phenanthrene

Concen: 3.176 ng

RT: 17.019 min Scan# 1736

Delta R.T. 0.000 min

Lab File: BN034745.D

Acq: 30 Oct 2024 12:20

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

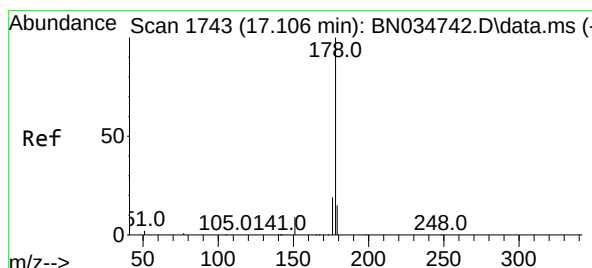
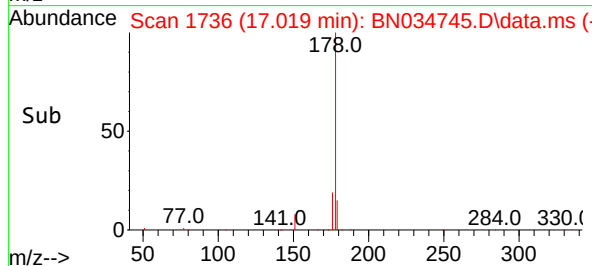
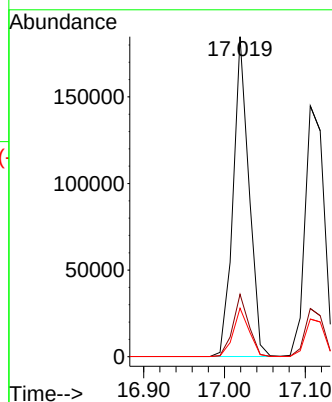
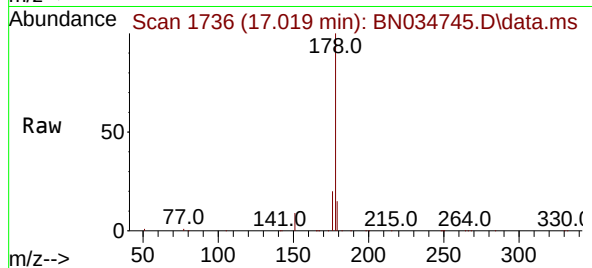
Tgt Ion:178 Resp: 251446

Ion Ratio Lower Upper

178 100

176 19.4 15.4 23.0

179 15.2 12.2 18.4



#26

Anthracene

Concen: 3.221 ng

RT: 17.106 min Scan# 1743

Delta R.T. 0.000 min

Lab File: BN034745.D

Acq: 30 Oct 2024 12:20

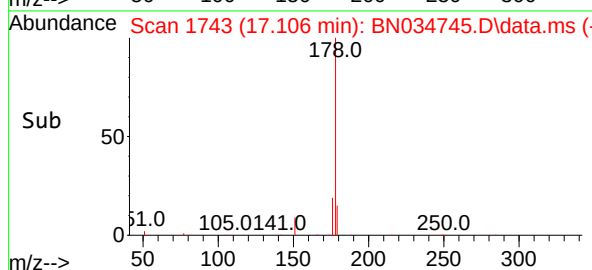
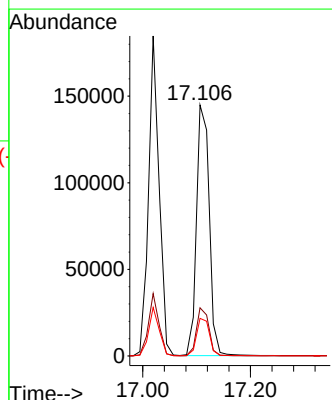
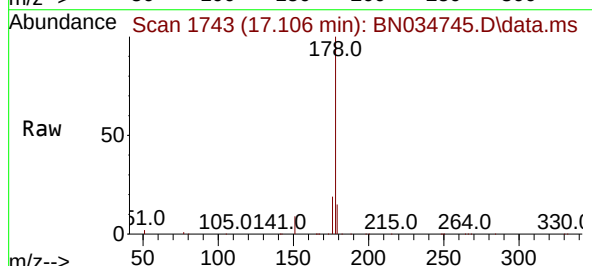
Tgt Ion:178 Resp: 238630

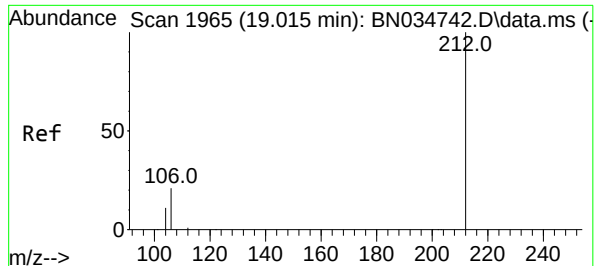
Ion Ratio Lower Upper

178 100

176 18.7 15.0 22.6

179 15.1 12.2 18.2





#27

Fluoranthene-d10

Concen: 3.204 ng

RT: 19.015 min Scan# 1965

Delta R.T. 0.000 min

Lab File: BN034745.D

Acq: 30 Oct 2024 12:20

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

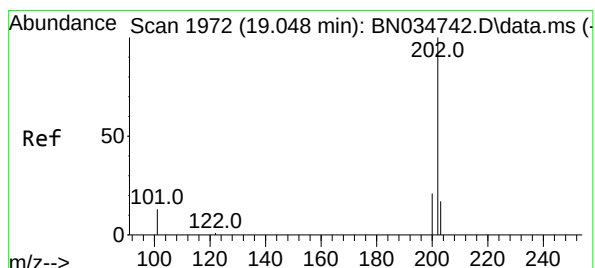
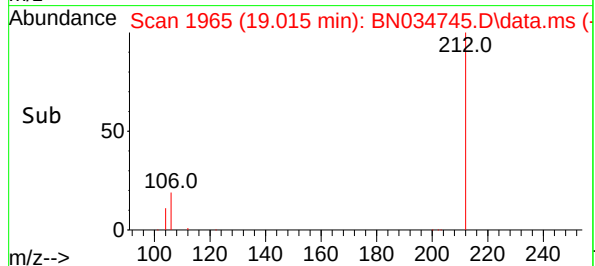
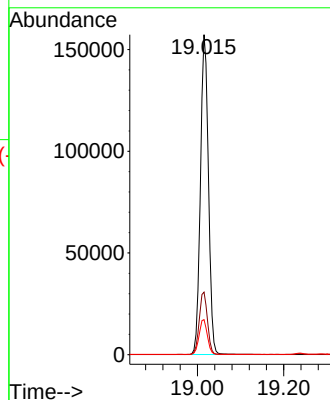
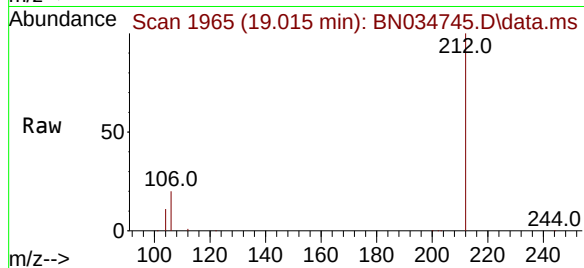
Tgt Ion:212 Resp: 202339

Ion Ratio Lower Upper

212 100

106 19.9 16.1 24.1

104 11.1 9.2 13.8



#28

Fluoranthene

Concen: 3.199 ng

RT: 19.048 min Scan# 1972

Delta R.T. 0.000 min

Lab File: BN034745.D

Acq: 30 Oct 2024 12:20

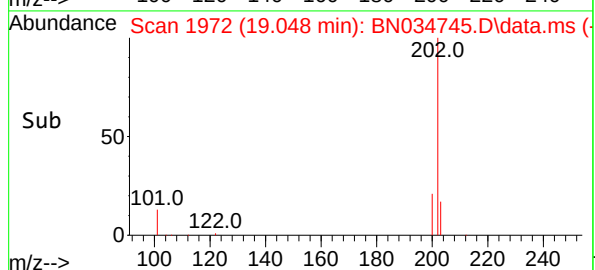
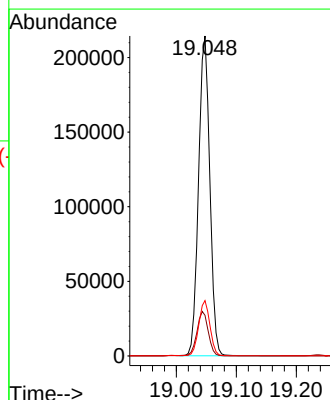
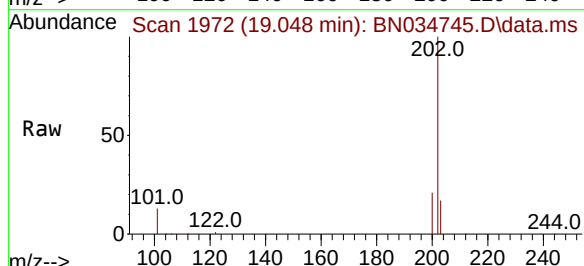
Tgt Ion:202 Resp: 279121

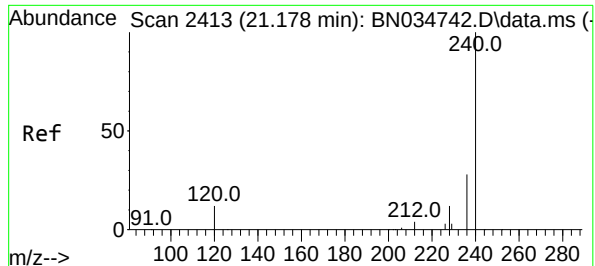
Ion Ratio Lower Upper

202 100

101 14.1 11.4 17.0

203 17.1 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.178 min Scan# 2413

Delta R.T. 0.000 min

Lab File: BN034745.D

Acq: 30 Oct 2024 12:20

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

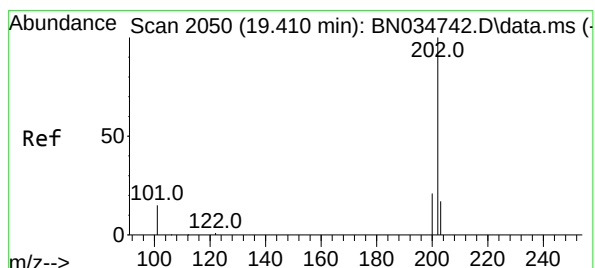
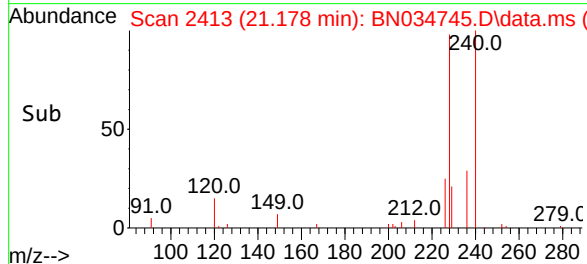
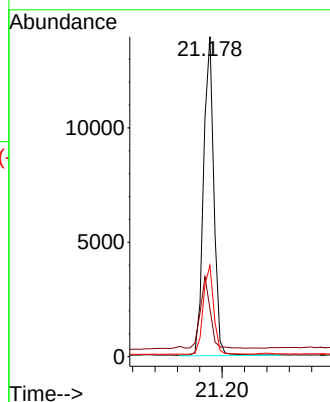
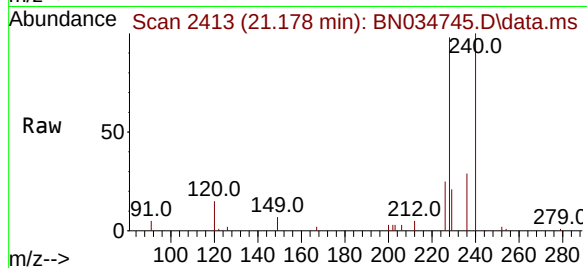
Tgt Ion:240 Resp: 17860

Ion Ratio Lower Upper

240 100

120 15.0 11.5 17.3

236 28.5 23.2 34.8



#30

Pyrene

Concen: 3.062 ng

RT: 19.410 min Scan# 2050

Delta R.T. 0.000 min

Lab File: BN034745.D

Acq: 30 Oct 2024 12:20

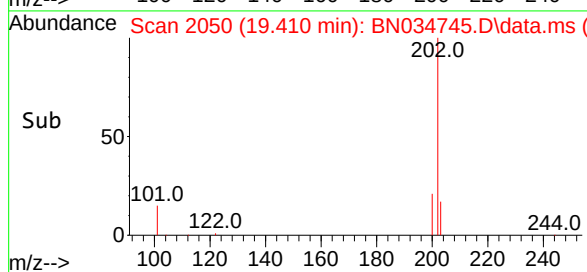
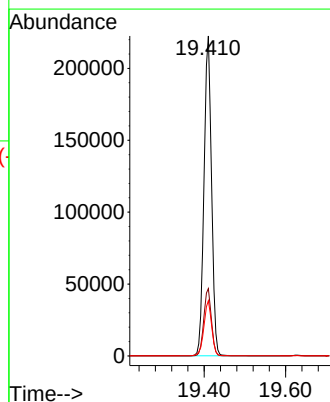
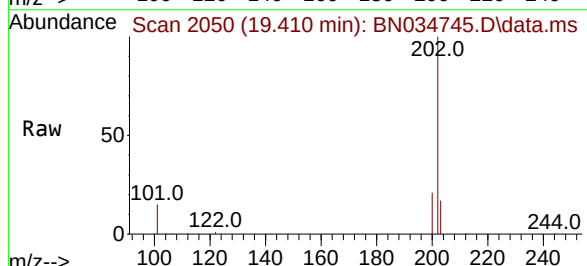
Tgt Ion:202 Resp: 285947

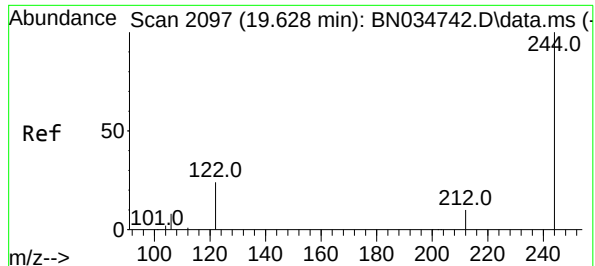
Ion Ratio Lower Upper

202 100

200 21.2 17.0 25.4

203 17.7 14.2 21.2

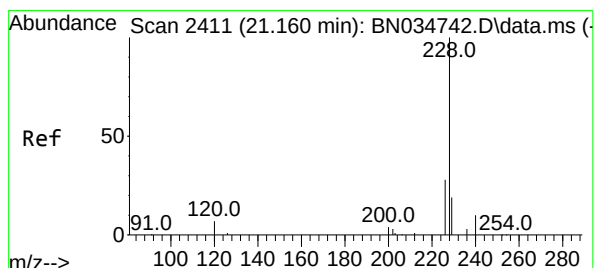
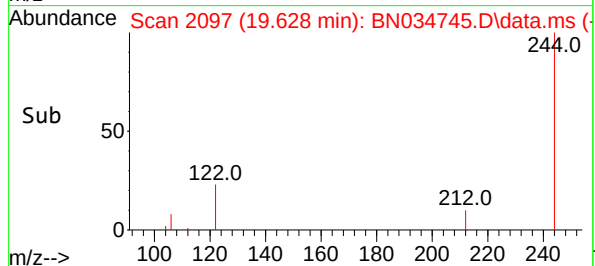
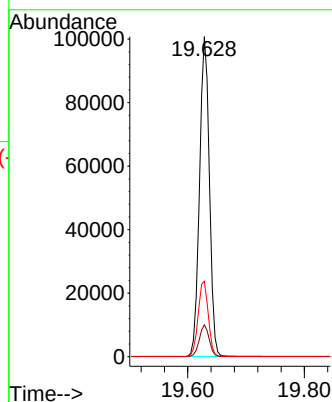
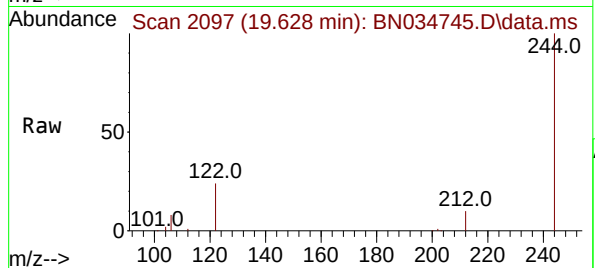




#31
Terphenyl-d14
Concen: 3.075 ng
RT: 19.628 min Scan# 2097
Delta R.T. 0.000 min
Lab File: BN034745.D
Acq: 30 Oct 2024 12:20

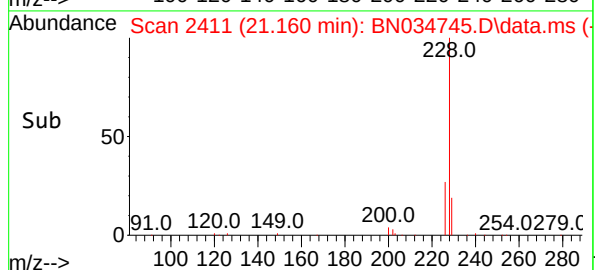
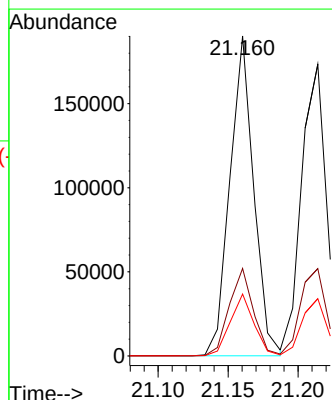
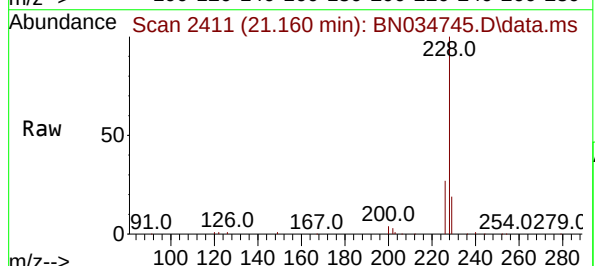
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

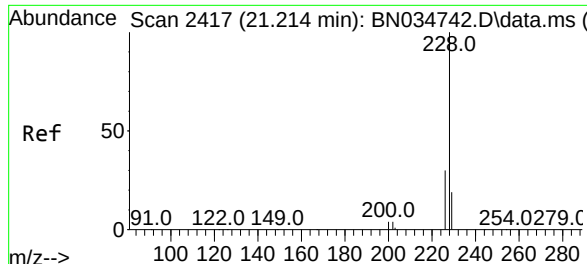
Tgt Ion:244 Resp: 117940
Ion Ratio Lower Upper
244 100
212 9.9 8.2 12.4
122 23.6 19.8 29.6



#32
Benzo(a)anthracene
Concen: 3.177 ng
RT: 21.160 min Scan# 2411
Delta R.T. 0.000 min
Lab File: BN034745.D
Acq: 30 Oct 2024 12:20

Tgt Ion:228 Resp: 225874
Ion Ratio Lower Upper
228 100
226 27.4 22.6 33.8
229 19.4 15.7 23.5





#33

Chrysene

Concen: 3.117 ng

RT: 21.214 min Scan# 2417

Delta R.T. 0.000 min

Lab File: BN034745.D

Acq: 30 Oct 2024 12:20

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

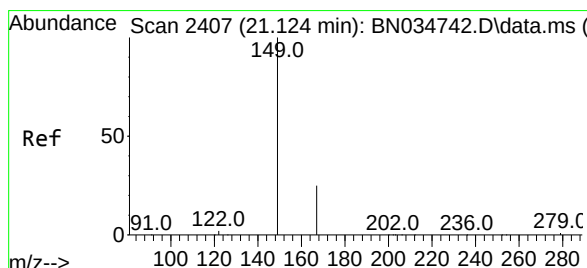
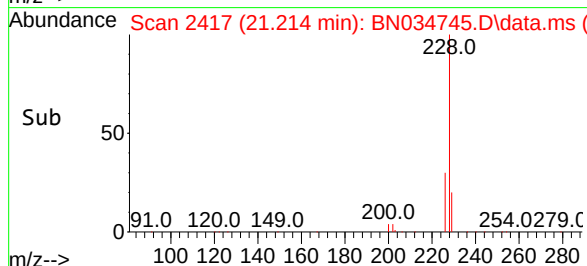
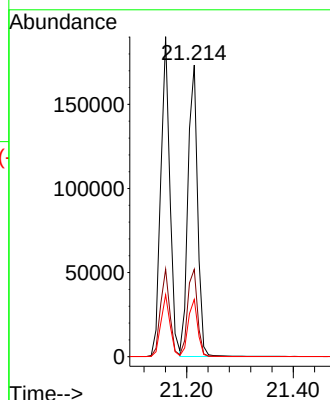
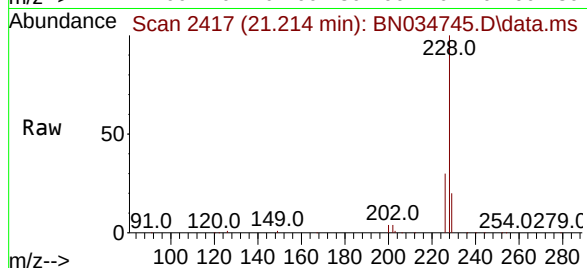
Tgt Ion:228 Resp: 216996

Ion Ratio Lower Upper

228 100

226 29.9 24.4 36.6

229 19.6 15.6 23.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 2.974 ng

RT: 21.124 min Scan# 2407

Delta R.T. 0.000 min

Lab File: BN034745.D

Acq: 30 Oct 2024 12:20

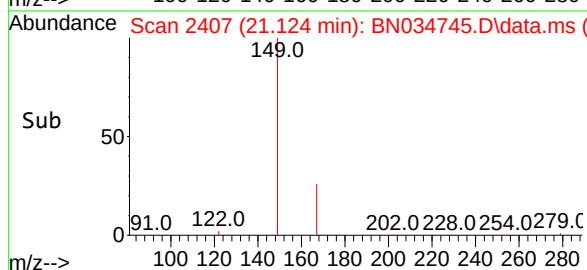
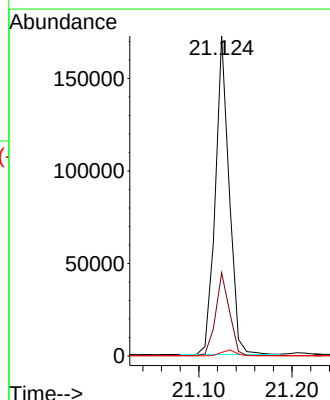
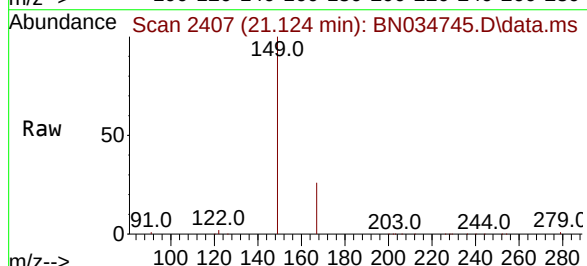
Tgt Ion:149 Resp: 176797

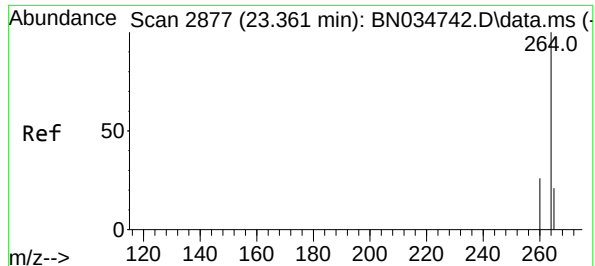
Ion Ratio Lower Upper

149 100

167 26.0 20.6 30.8

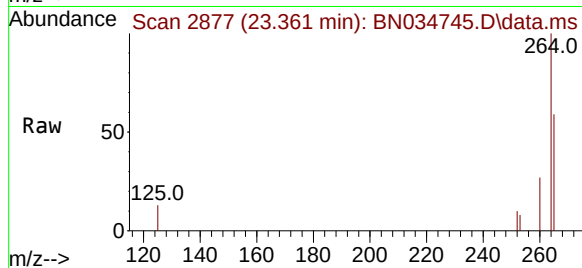
279 1.9 1.5 2.3



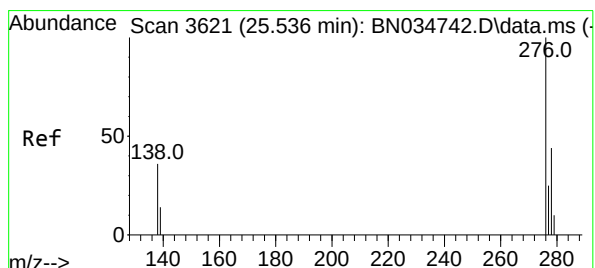
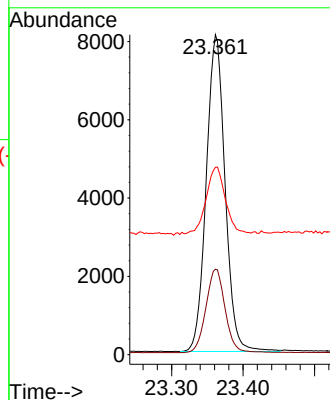
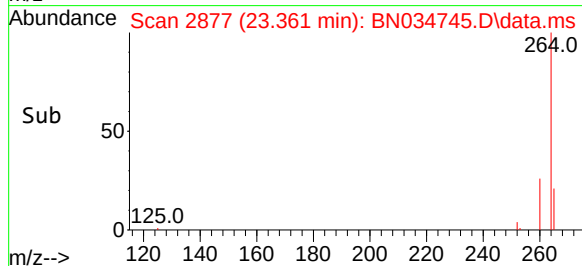


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.361 min Scan# 2877
Delta R.T. 0.000 min
Lab File: BN034745.D
Acq: 30 Oct 2024 12:20

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

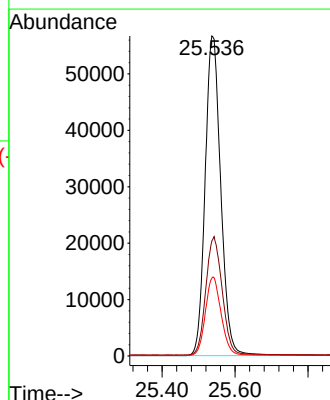
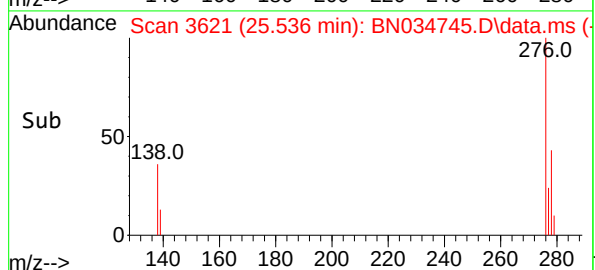
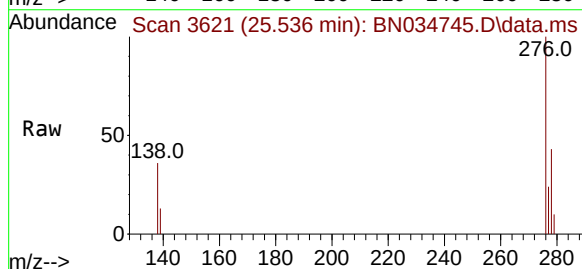


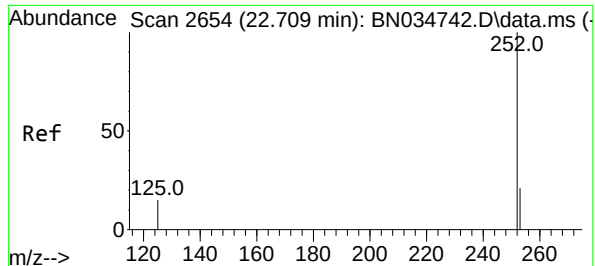
Tgt Ion:264 Resp: 14803
Ion Ratio Lower Upper
264 100
260 26.7 21.5 32.3
265 58.5 47.5 71.3



#36
Indeno(1,2,3-cd)pyrene
Concen: 3.095 ng
RT: 25.536 min Scan# 3621
Delta R.T. 0.000 min
Lab File: BN034745.D
Acq: 30 Oct 2024 12:20

Tgt Ion:276 Resp: 168535
Ion Ratio Lower Upper
276 100
138 38.8 31.5 47.3
277 24.6 19.7 29.5





#37

Benzo(b)fluoranthene

Concen: 3.217 ng

RT: 22.712 min Scan# 2655

Delta R.T. 0.003 min

Lab File: BN034745.D

Acq: 30 Oct 2024 12:20

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

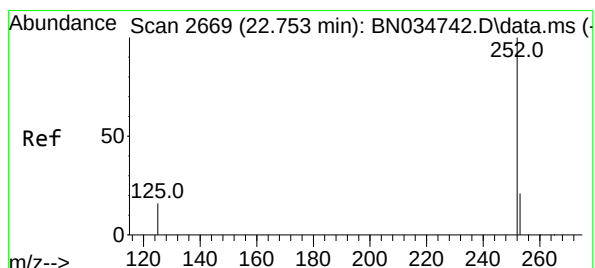
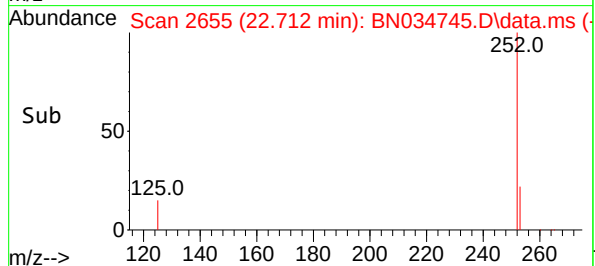
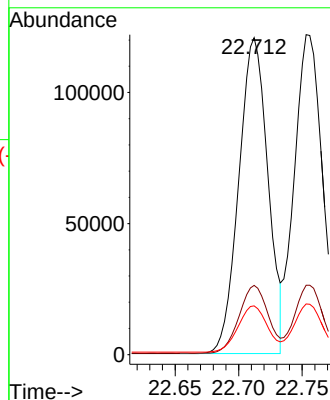
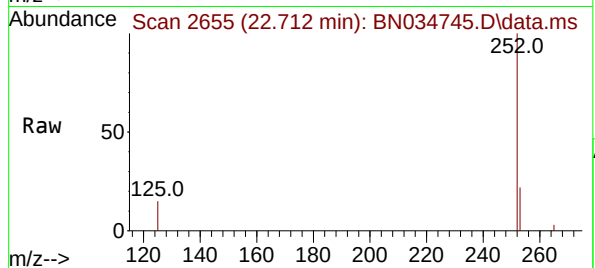
Tgt Ion:252 Resp: 191690

Ion Ratio Lower Upper

252 100

253 21.9 19.7 29.5

125 15.4 17.1 25.7#



#38

Benzo(k)fluoranthene

Concen: 3.269 ng

RT: 22.753 min Scan# 2669

Delta R.T. 0.000 min

Lab File: BN034745.D

Acq: 30 Oct 2024 12:20

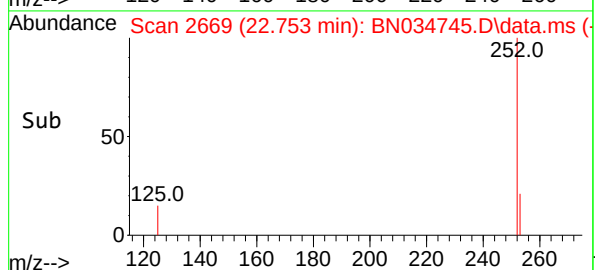
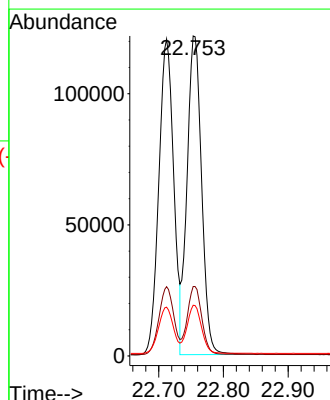
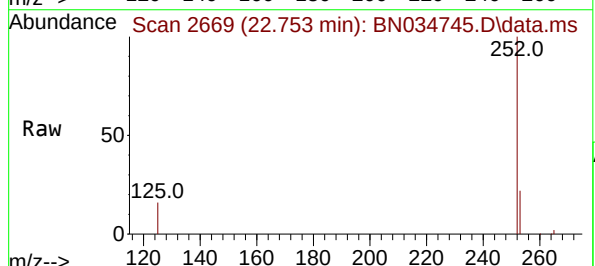
Tgt Ion:252 Resp: 190108

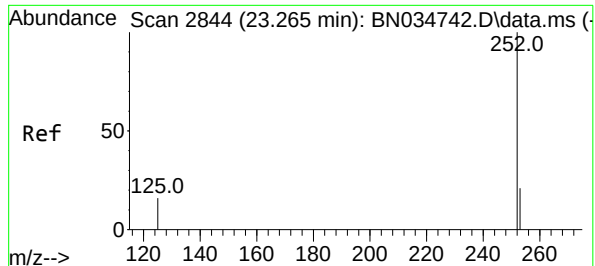
Ion Ratio Lower Upper

252 100

253 21.7 19.8 29.6

125 15.9 18.2 27.2#





#39

Benzo(a)pyrene

Concen: 3.218 ng

RT: 23.268 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN034745.D

Acq: 30 Oct 2024 12:20

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

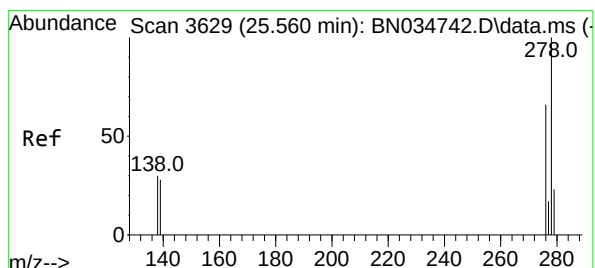
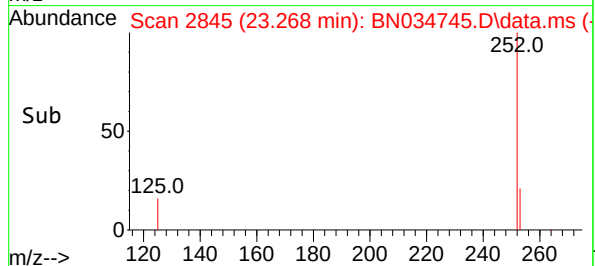
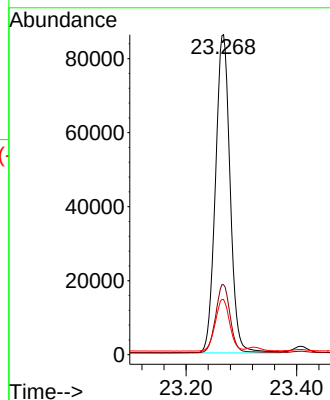
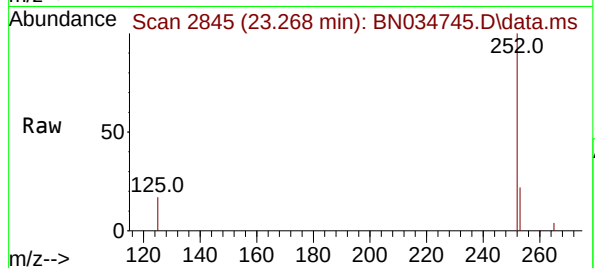
Tgt Ion:252 Resp: 158240

Ion Ratio Lower Upper

252 100

253 21.8 20.7 31.1

125 17.2 20.3 30.5#



#40

Dibenzo(a,h)anthracene

Concen: 3.095 ng

RT: 25.557 min Scan# 3628

Delta R.T. -0.003 min

Lab File: BN034745.D

Acq: 30 Oct 2024 12:20

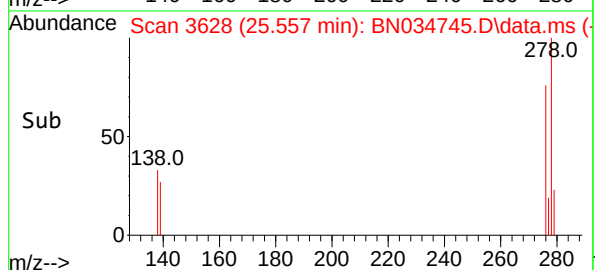
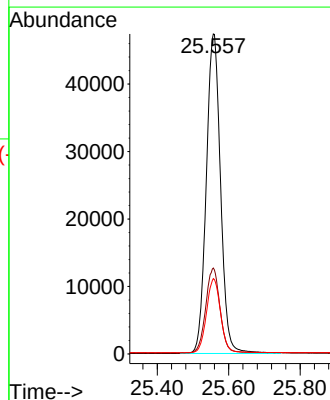
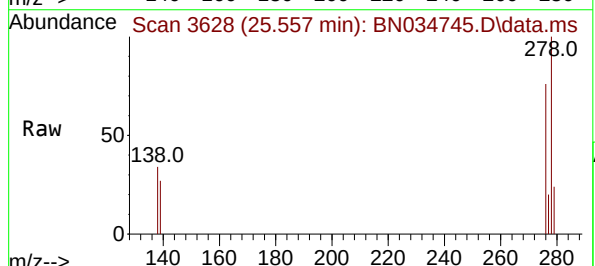
Tgt Ion:278 Resp: 131448

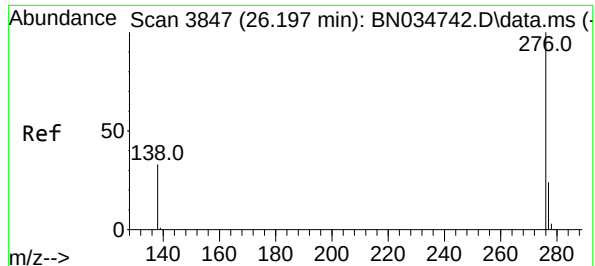
Ion Ratio Lower Upper

278 100

139 26.9 24.9 37.3

279 23.5 21.0 31.4





#41

Benzo(g,h,i)perylene

Concen: 3.057 ng

RT: 26.194 min Scan# 3846

Delta R.T. -0.003 min

Lab File: BN034745.D

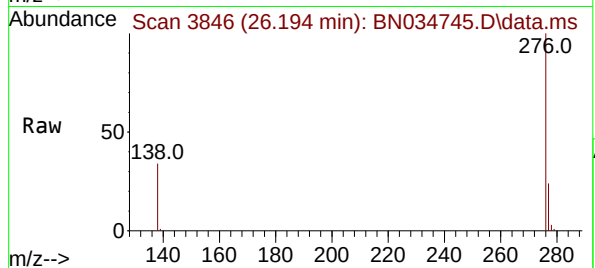
Acq: 30 Oct 2024 12:20

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



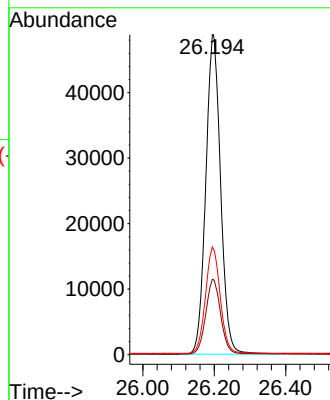
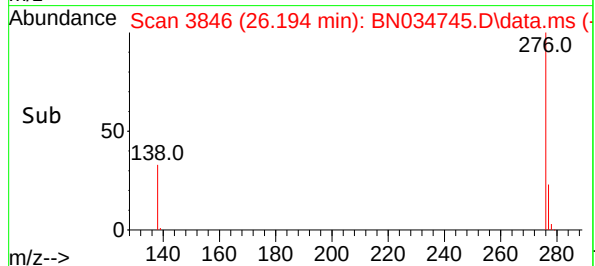
Tgt Ion:276 Resp: 140292

Ion Ratio Lower Upper

276 100

277 23.6 20.2 30.2

138 33.7 28.7 43.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN103024\
 Data File : BN034746.D
 Acq On : 30 Oct 2024 12:56
 Operator : RC/JU
 Sample : SSTDICC5.0
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC5.0

Quant Time: Oct 30 13:33:55 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 30 13:28:24 2024
 Response via : Initial Calibration

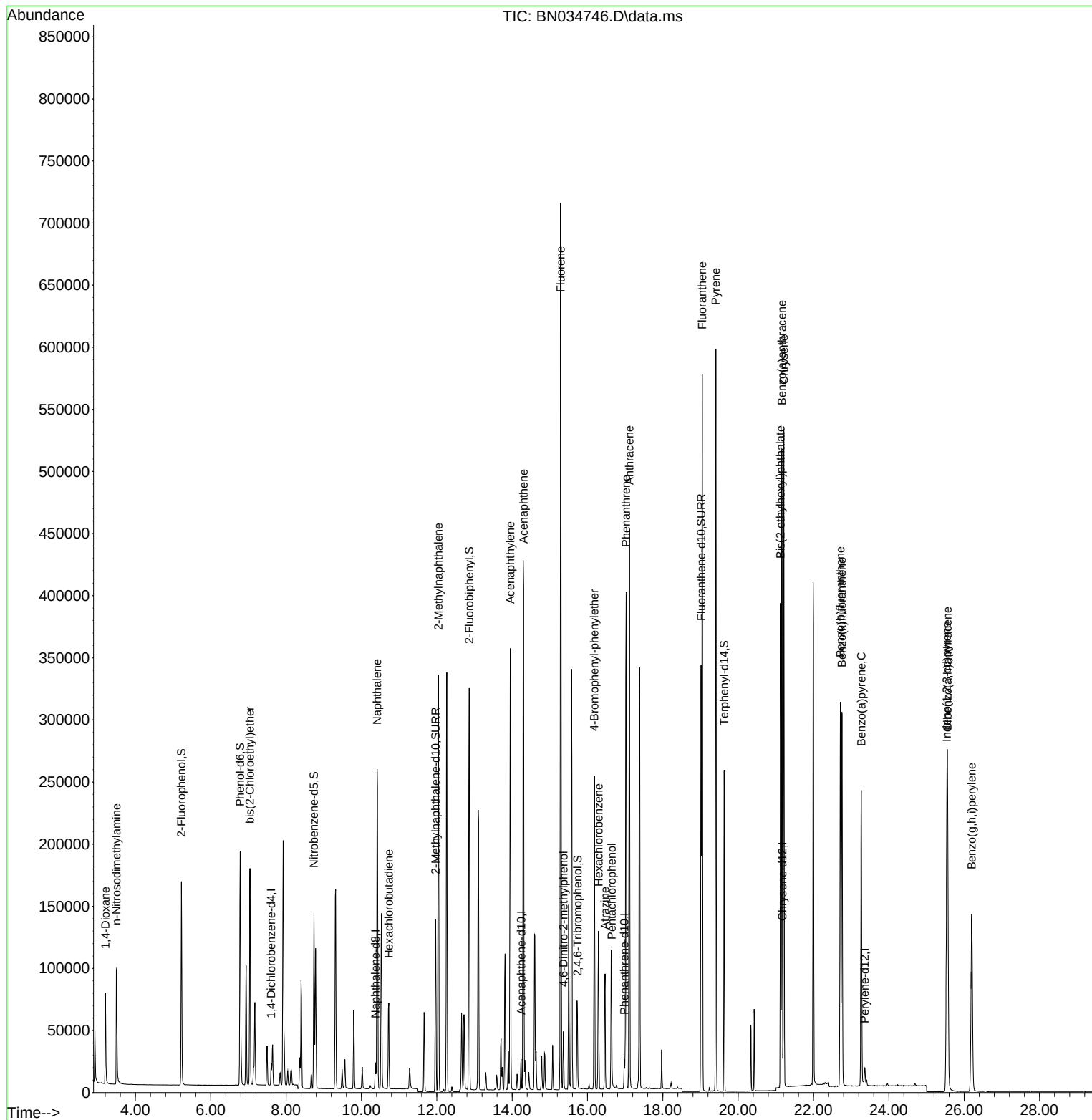
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.604	152	8470	0.400	ng	0.00
7) Naphthalene-d8	10.372	136	25305	0.400	ng	0.00
13) Acenaphthene-d10	14.240	164	13960	0.400	ng	0.00
19) Phenanthrene-d10	16.977	188	30155	0.400	ng	# 0.00
29) Chrysene-d12	21.176	240	20145	0.400	ng	# 0.00
35) Perylene-d12	23.362	264	17397	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.220	112	122942	4.792	ng	0.00
5) Phenol-d6	6.780	99	164353	4.930	ng	0.00
8) Nitrobenzene-d5	8.739	82	102200	5.139	ng	0.00
11) 2-Methylnaphthalene-d10	11.969	152	184627	5.041	ng	0.00
14) 2,4,6-Tribromophenol	15.735	330	39115	5.672	ng	0.00
15) 2-Fluorobiphenyl	12.861	172	272449	4.955	ng	0.00
27) Fluoranthene-d10	19.017	212	353376	4.996	ng	0.00
31) Terphenyl-d14	19.626	244	206973	4.784	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.205	88	42868	4.617	ng	Qvalue 95
3) n-Nitrosodimethylamine	3.494	42	51876	4.956	ng	99
6) bis(2-Chloroethyl)ether	7.040	93	118985	4.890	ng	100
9) Naphthalene	10.415	128	343978	4.915	ng	99
10) Hexachlorobutadiene	10.724	225	56061	4.864	ng	# 99
12) 2-Methylnaphthalene	12.041	142	229277	5.010	ng	100
16) Acenaphthylene	13.951	152	362458	5.175	ng	100
17) Acenaphthene	14.304	154	238786	5.117	ng	97
18) Fluorene	15.287	166	288411	4.959	ng	100
20) 4,6-Dinitro-2-methylph...	15.362	198	28489	5.112	ng	# 78
21) 4-Bromophenyl-phenylether	16.182	248	86486	4.956	ng	# 82
22) Hexachlorobenzene	16.294	284	94273	4.826	ng	99
23) Atrazine	16.468	200	75090	4.999	ng	# 92
24) Pentachlorophenol	16.641	266	52103	6.194	ng	98
25) Phenanthrene	17.026	178	436521	4.922	ng	100
26) Anthracene	17.113	178	419798	5.058	ng	100
28) Fluoranthene	19.045	202	483565	4.947	ng	100
30) Pyrene	19.408	202	500345	4.751	ng	100
32) Benzo(a)anthracene	21.158	228	404286	5.042	ng	99
33) Chrysene	21.212	228	387398	4.934	ng	100
34) Bis(2-ethylhexyl)phtha...	21.122	149	337998	5.041	ng	99
36) Indeno(1,2,3-cd)pyrene	25.540	276	309042	4.829	ng	99
37) Benzo(b)fluoranthene	22.713	252	354898	5.067	ng	# 91
38) Benzo(k)fluoranthene	22.754	252	345310	5.053	ng	# 90
39) Benzo(a)pyrene	23.268	252	294657	5.098	ng	# 87
40) Dibenzo(a,h)anthracene	25.558	278	240649	4.822	ng	93
41) Benzo(g,h,i)perylene	26.198	276	254439	4.718	ng	96

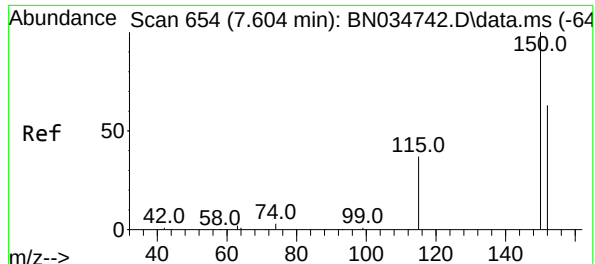
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN103024\
Data File : BN034746.D
Acq On : 30 Oct 2024 12:56
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Oct 30 13:33:55 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 30 13:28:24 2024
Response via : Initial Calibration

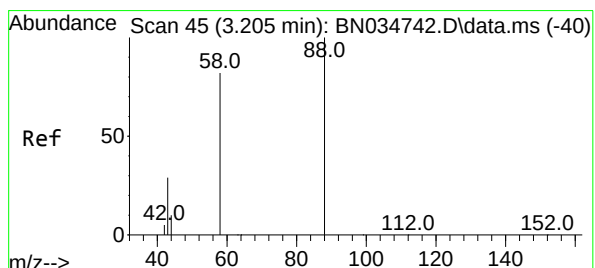
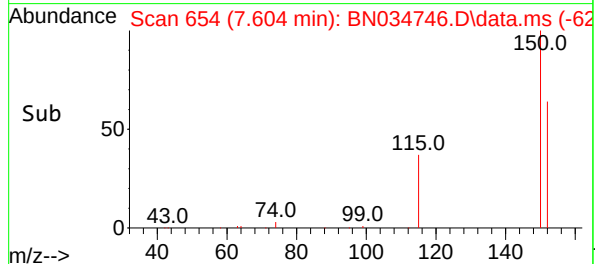
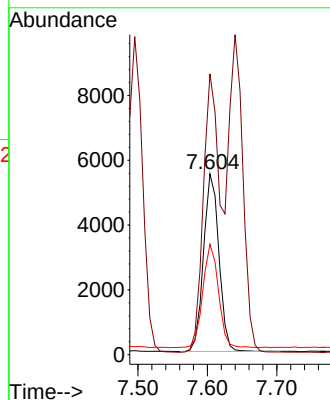
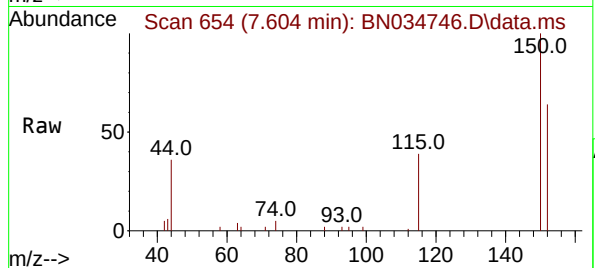




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.604 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN034746.D
Acq: 30 Oct 2024 12:56

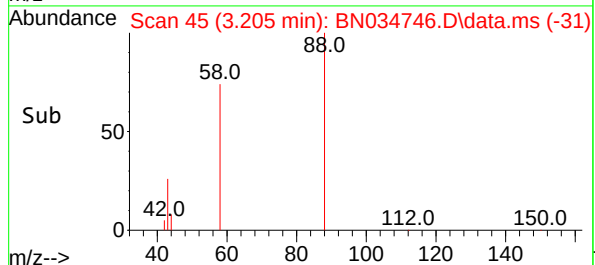
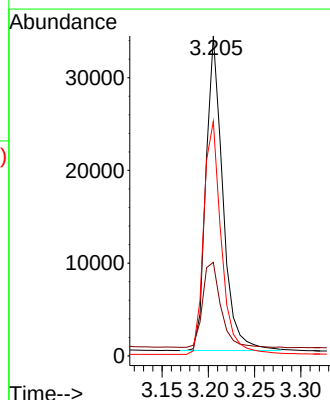
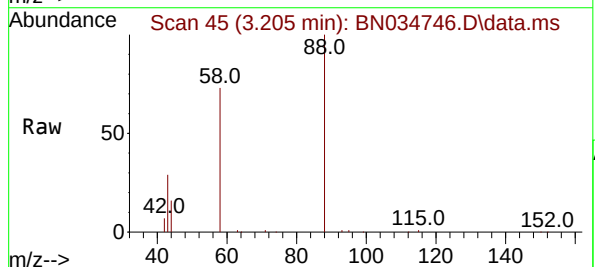
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

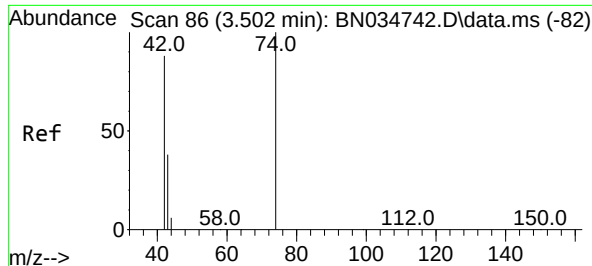
Tgt Ion:152 Resp: 8470
Ion Ratio Lower Upper
152 100
150 155.3 124.9 187.3
115 61.1 50.2 75.2



#2
1,4-Dioxane
Concen: 4.617 ng
RT: 3.205 min Scan# 45
Delta R.T. -0.000 min
Lab File: BN034746.D
Acq: 30 Oct 2024 12:56

Tgt Ion: 88 Resp: 42868
Ion Ratio Lower Upper
88 100
43 29.1 26.7 40.1
58 77.7 59.3 88.9

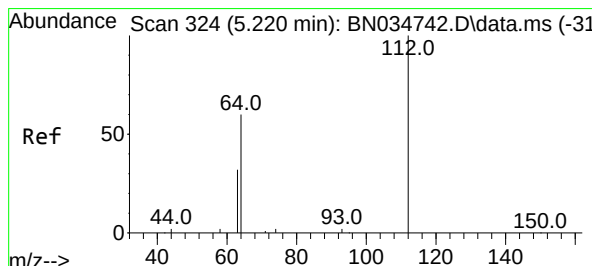
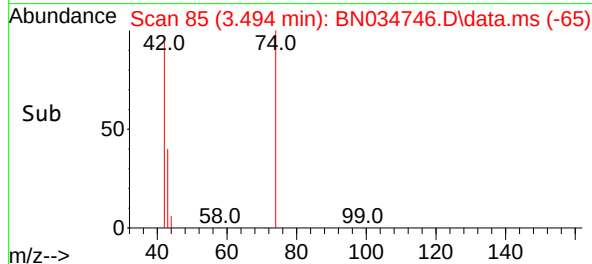
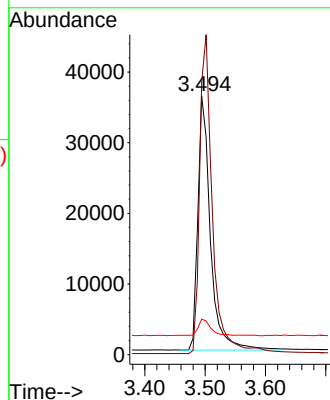
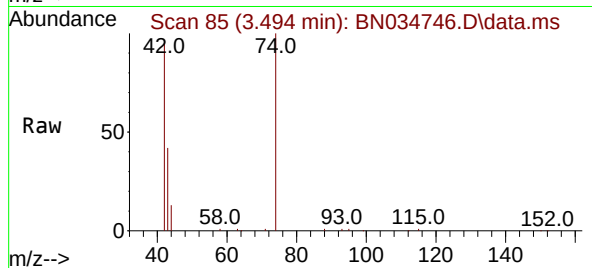




#3
n-Nitrosodimethylamine
Concen: 4.956 ng
RT: 3.494 min Scan# 81
Delta R.T. -0.007 min
Lab File: BN034746.D
Acq: 30 Oct 2024 12:56

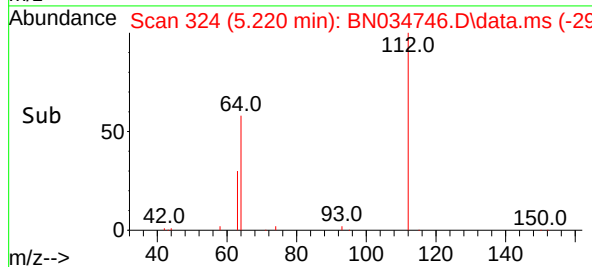
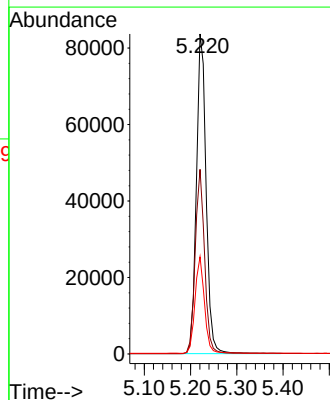
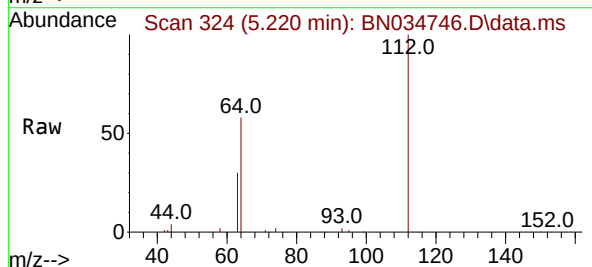
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

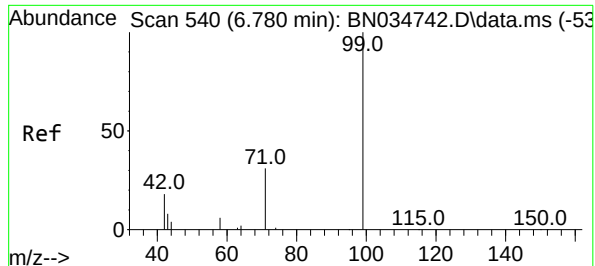
Tgt Ion: 42 Resp: 51876
Ion Ratio Lower Upper
42 100
74 128.4 103.1 154.7
44 6.8 6.7 10.1



#4
2-Fluorophenol
Concen: 4.792 ng
RT: 5.220 min Scan# 324
Delta R.T. -0.000 min
Lab File: BN034746.D
Acq: 30 Oct 2024 12:56

Tgt Ion: 112 Resp: 122942
Ion Ratio Lower Upper
112 100
64 55.9 44.9 67.3
63 29.3 23.5 35.3

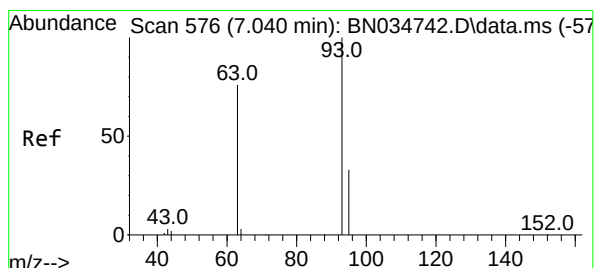
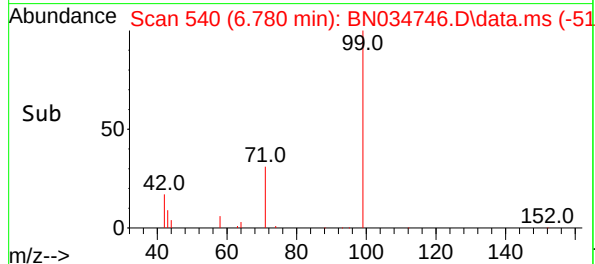
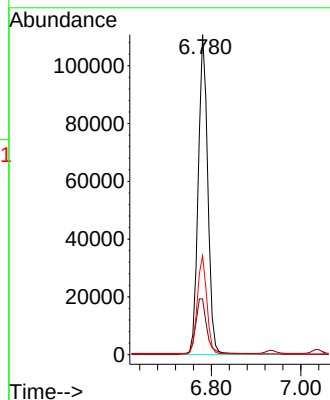
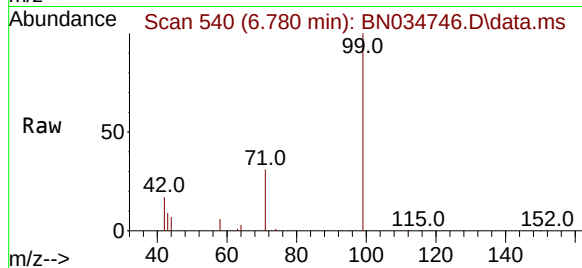




#5
Phenol-d6
Concen: 4.930 ng
RT: 6.780 min Scan# 540
Delta R.T. -0.000 min
Lab File: BN034746.D
Acq: 30 Oct 2024 12:56

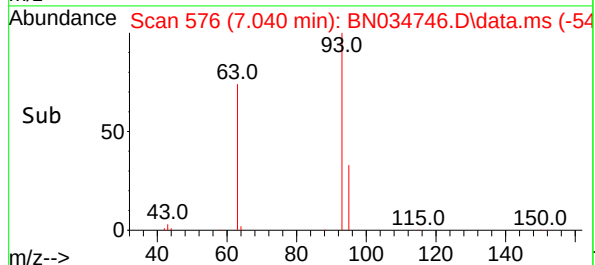
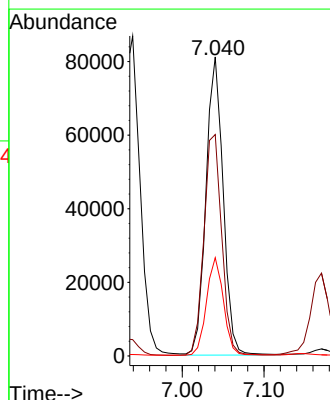
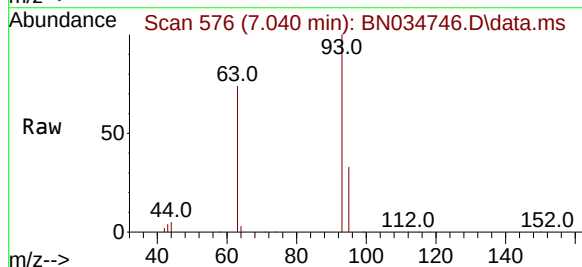
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

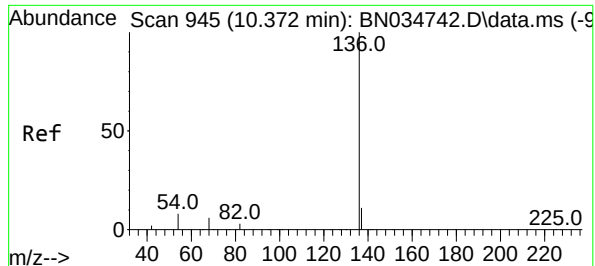
Tgt Ion: 99 Resp: 164353
Ion Ratio Lower Upper
99 100
42 19.2 15.9 23.9
71 30.9 24.3 36.5



#6
bis(2-Chloroethyl)ether
Concen: 4.890 ng
RT: 7.040 min Scan# 576
Delta R.T. -0.000 min
Lab File: BN034746.D
Acq: 30 Oct 2024 12:56

Tgt Ion: 93 Resp: 118985
Ion Ratio Lower Upper
93 100
63 77.0 61.2 91.8
95 32.2 25.8 38.8

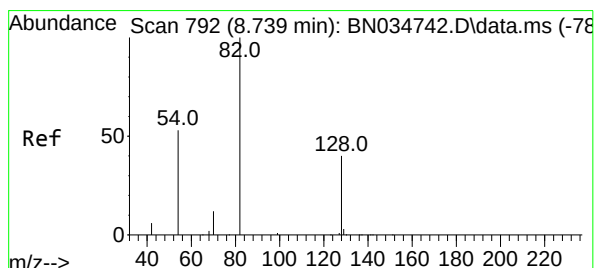
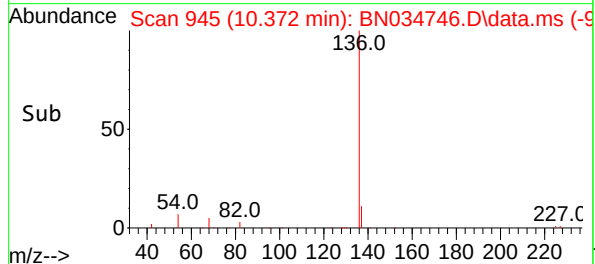
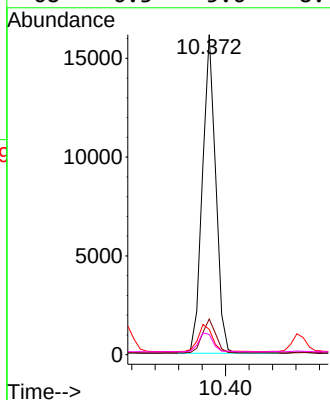
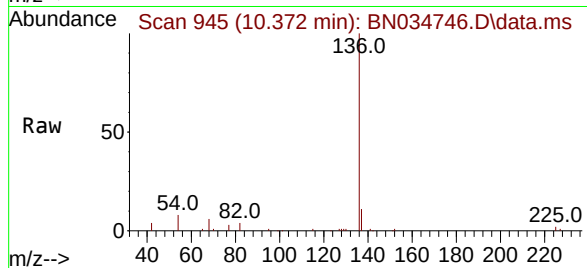




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.372 min Scan# 945
Delta R.T. -0.000 min
Lab File: BN034746.D
Acq: 30 Oct 2024 12:56

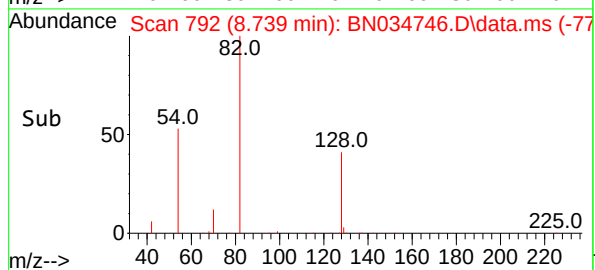
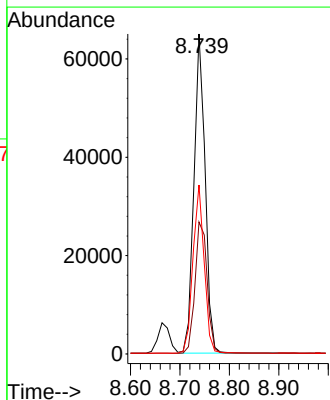
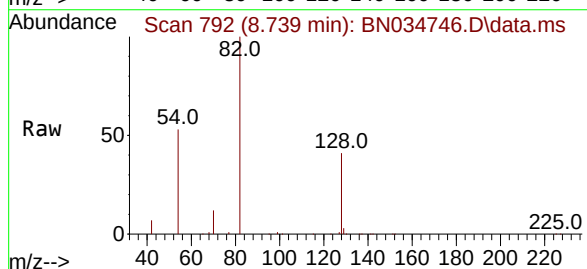
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

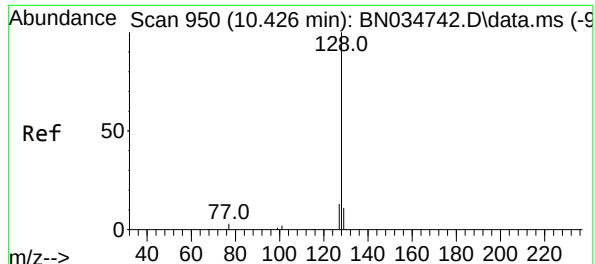
Tgt Ion:	136	Resp:	25305
Ion Ratio	Lower	Upper	
136	100		
137	11.2	9.2	13.8
54	7.9	7.0	10.4
68	6.3	5.6	8.4



#8
Nitrobenzene-d5
Concen: 5.139 ng
RT: 8.739 min Scan# 792
Delta R.T. -0.000 min
Lab File: BN034746.D
Acq: 30 Oct 2024 12:56

Tgt Ion:	82	Resp:	102200
Ion Ratio	Lower	Upper	
82	100		
128	41.2	33.7	50.5
54	52.8	44.4	66.6

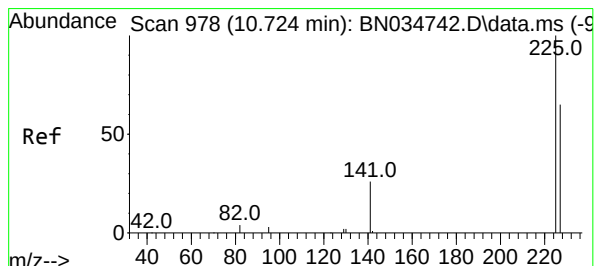
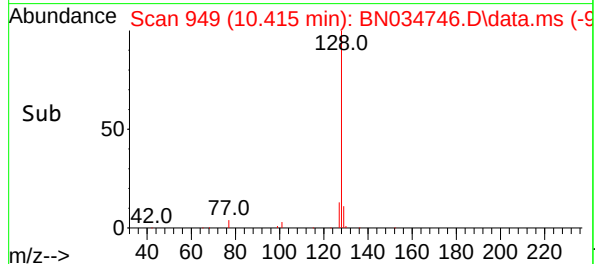
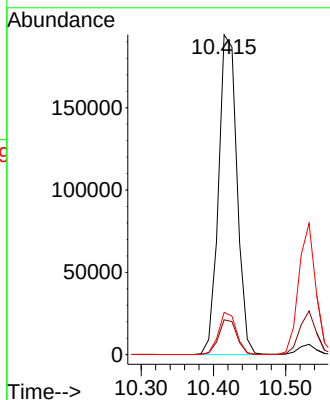
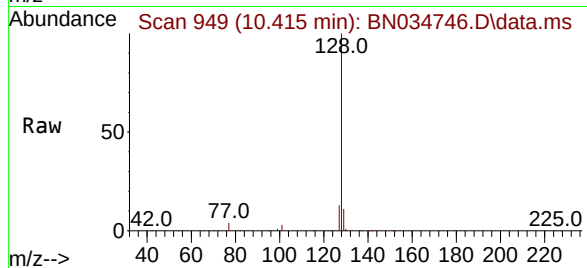




#9
Naphthalene
Concen: 4.915 ng
RT: 10.415 min Scan# 949
Delta R.T. -0.011 min
Lab File: BN034746.D
Acq: 30 Oct 2024 12:56

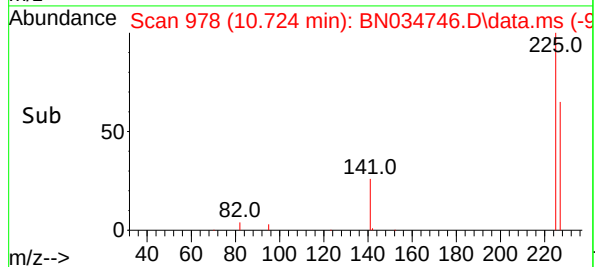
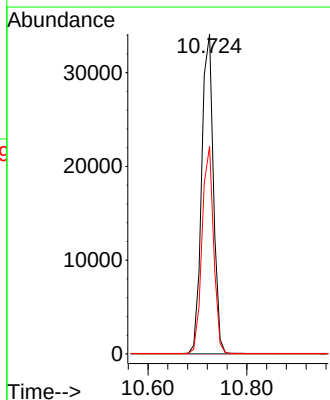
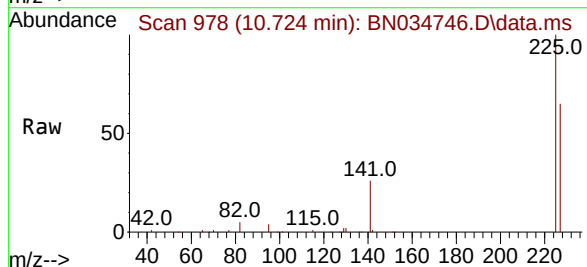
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

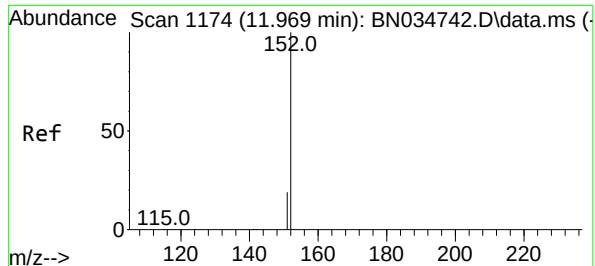
Tgt Ion:128 Resp: 343978
Ion Ratio Lower Upper
128 100
129 10.9 9.4 14.0
127 13.2 10.6 15.8



#10
Hexachlorobutadiene
Concen: 4.864 ng
RT: 10.724 min Scan# 978
Delta R.T. -0.000 min
Lab File: BN034746.D
Acq: 30 Oct 2024 12:56

Tgt Ion:225 Resp: 56061
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.6 51.4 77.2

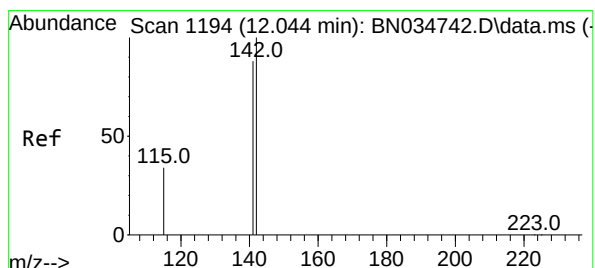
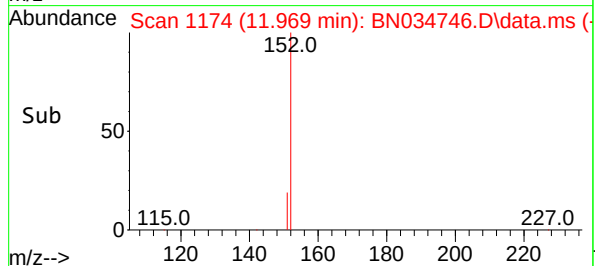
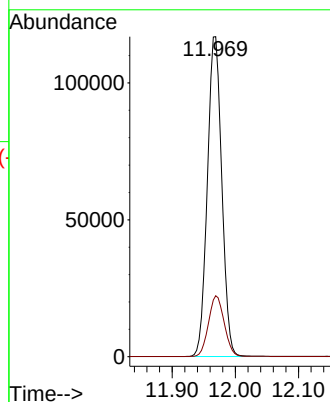
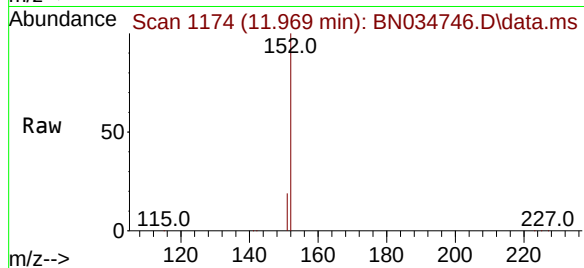




#11
2-Methylnaphthalene-d10
Concen: 5.041 ng
RT: 11.969 min Scan# 1174
Delta R.T. -0.000 min
Lab File: BN034746.D
Acq: 30 Oct 2024 12:56

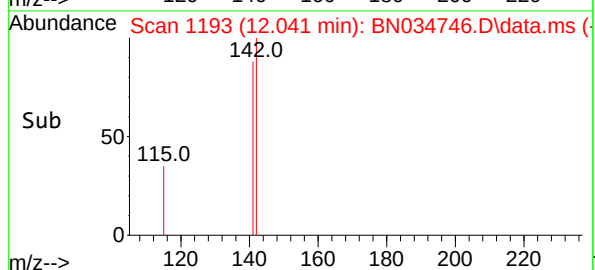
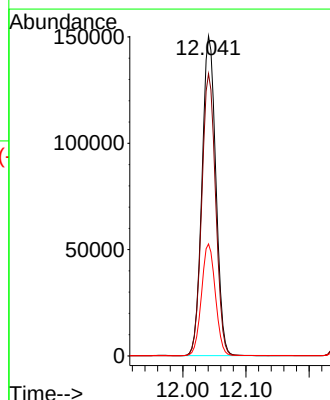
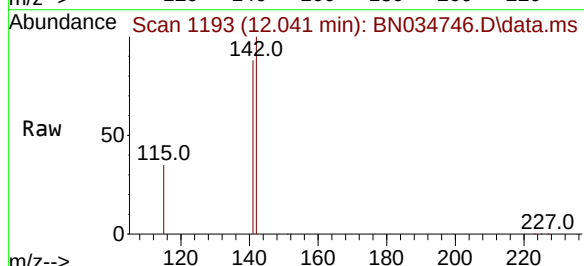
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

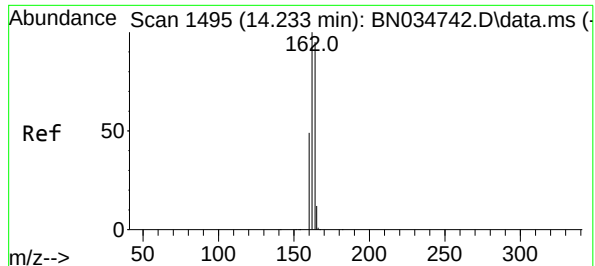
Tgt Ion:152 Resp: 184627
Ion Ratio Lower Upper
152 100
151 20.7 16.6 24.8



#12
2-Methylnaphthalene
Concen: 5.010 ng
RT: 12.041 min Scan# 1193
Delta R.T. -0.004 min
Lab File: BN034746.D
Acq: 30 Oct 2024 12:56

Tgt Ion:142 Resp: 229277
Ion Ratio Lower Upper
142 100
141 88.2 70.6 106.0
115 35.0 28.6 42.8





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.240 min Scan# 1495

Delta R.T. 0.007 min

Lab File: BN034746.D

Acq: 30 Oct 2024 12:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

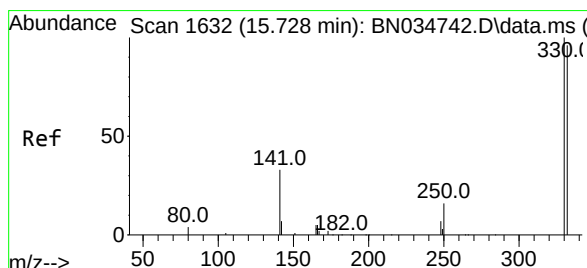
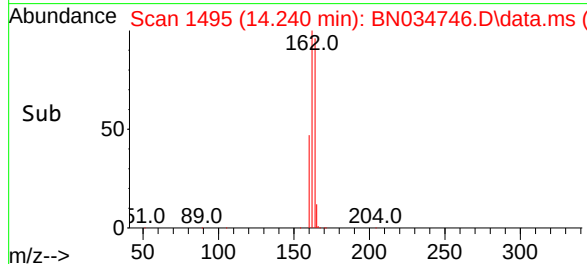
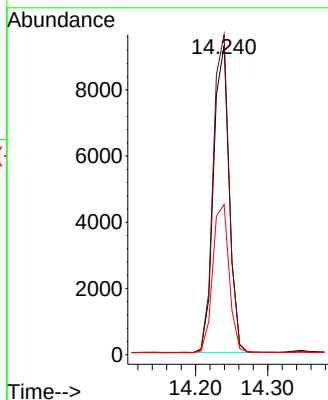
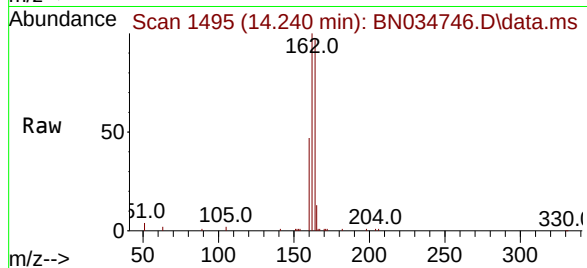
Tgt Ion:164 Resp: 13960

Ion Ratio Lower Upper

164 100

162 103.6 84.3 126.5

160 48.6 41.7 62.5



#14

2,4,6-Tribromophenol

Concen: 5.672 ng

RT: 15.735 min Scan# 1632

Delta R.T. 0.007 min

Lab File: BN034746.D

Acq: 30 Oct 2024 12:56

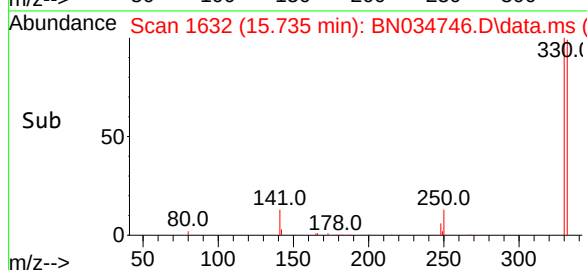
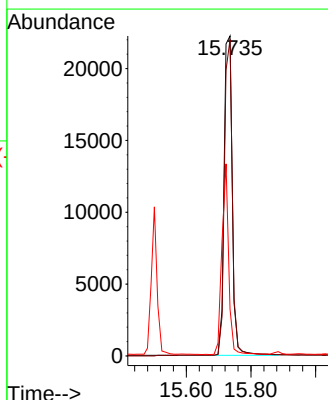
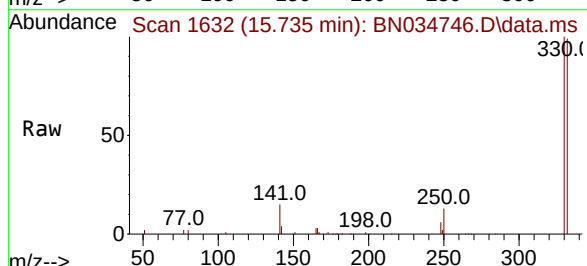
Tgt Ion:330 Resp: 39115

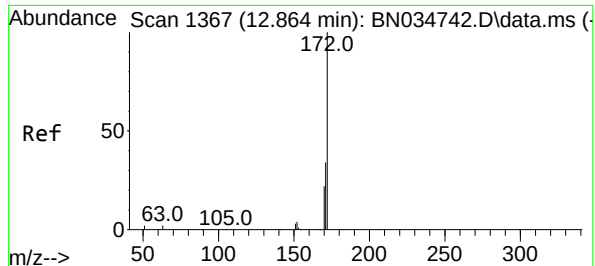
Ion Ratio Lower Upper

330 100

332 95.7 77.8 116.6

141 49.7 41.0 61.4





#15

2-Fluorobiphenyl

Concen: 4.955 ng

RT: 12.861 min Scan# 1366

Delta R.T. -0.004 min

Lab File: BN034746.D

Acq: 30 Oct 2024 12:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

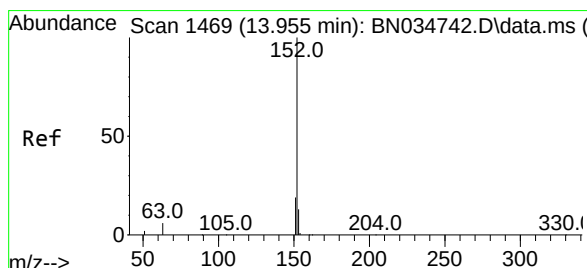
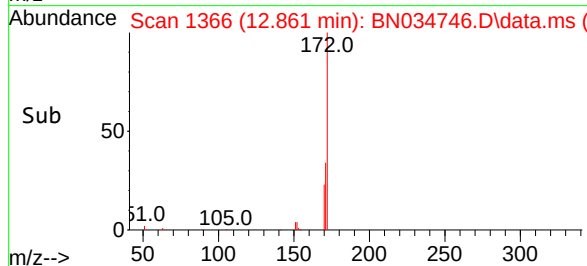
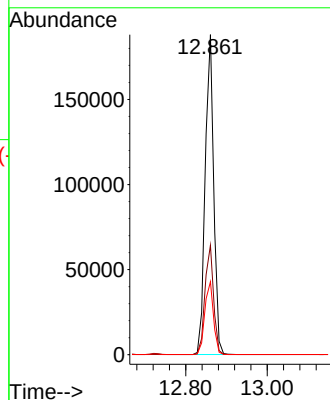
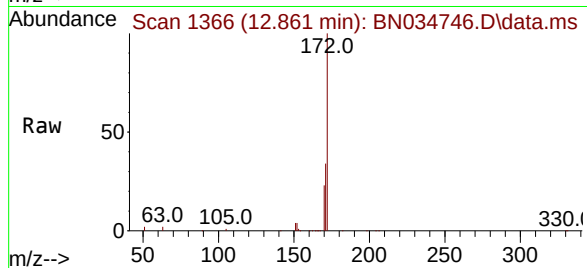
Tgt Ion:172 Resp: 272449

Ion Ratio Lower Upper

172 100

171 34.2 27.2 40.8

170 22.8 18.0 27.0



#16

Acenaphthylene

Concen: 5.175 ng

RT: 13.951 min Scan# 1468

Delta R.T. -0.004 min

Lab File: BN034746.D

Acq: 30 Oct 2024 12:56

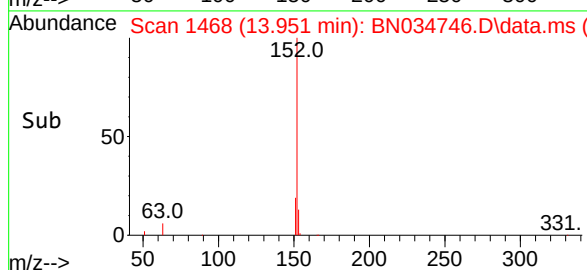
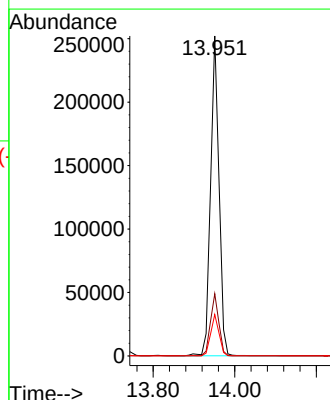
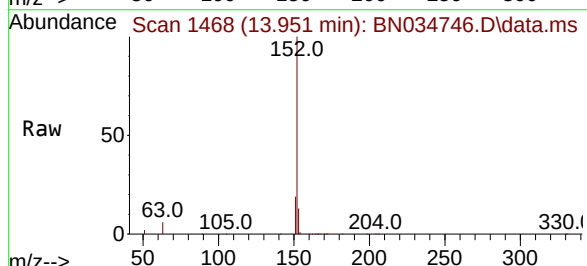
Tgt Ion:152 Resp: 362458

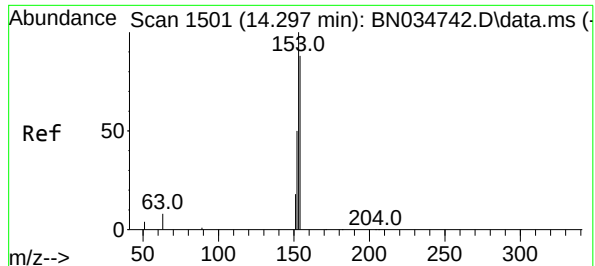
Ion Ratio Lower Upper

152 100

151 19.3 15.4 23.2

153 12.9 10.2 15.4

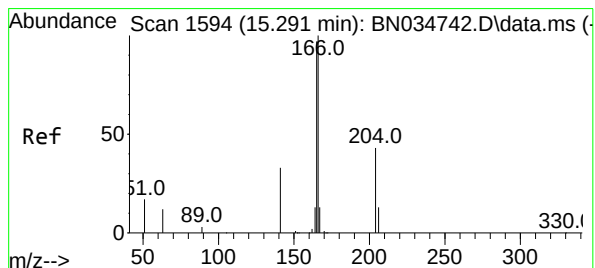
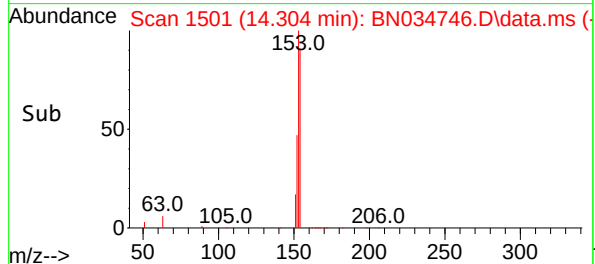
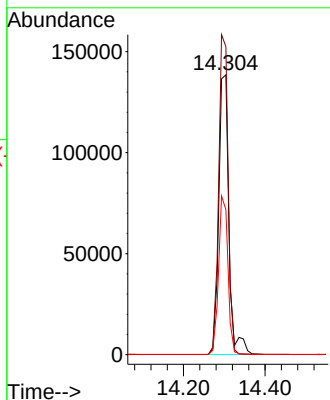
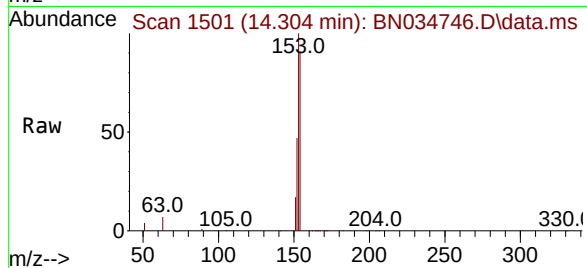




#17
Acenaphthene
Concen: 5.117 ng
RT: 14.304 min Scan# 1501
Delta R.T. 0.007 min
Lab File: BN034746.D
Acq: 30 Oct 2024 12:56

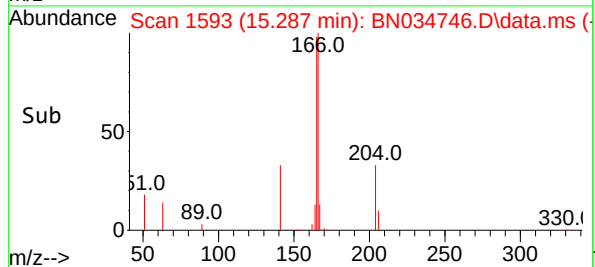
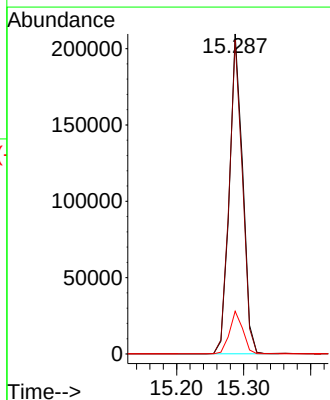
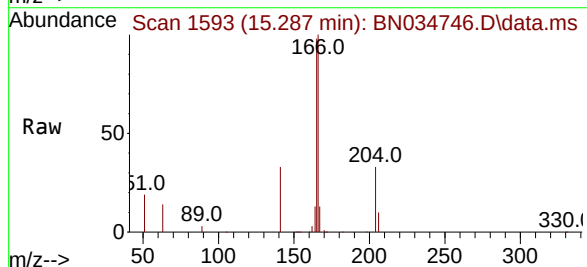
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

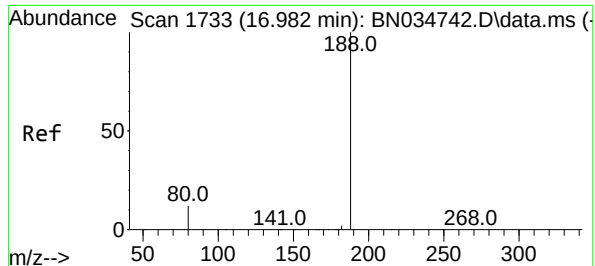
Tgt Ion:154 Resp: 238786
Ion Ratio Lower Upper
154 100
153 106.9 87.8 131.6
152 52.2 44.6 67.0



#18
Fluorene
Concen: 4.959 ng
RT: 15.287 min Scan# 1593
Delta R.T. -0.004 min
Lab File: BN034746.D
Acq: 30 Oct 2024 12:56

Tgt Ion:166 Resp: 288411
Ion Ratio Lower Upper
166 100
165 97.9 78.5 117.7
167 13.3 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.977 min Scan# 1

Delta R.T. -0.006 min

Lab File: BN034746.D

Acq: 30 Oct 2024 12:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

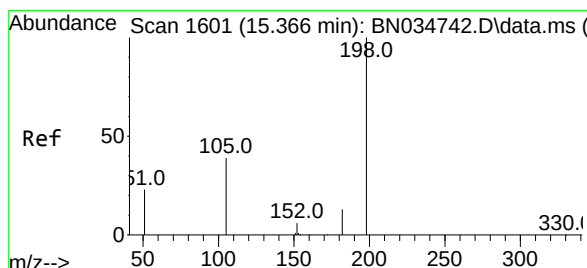
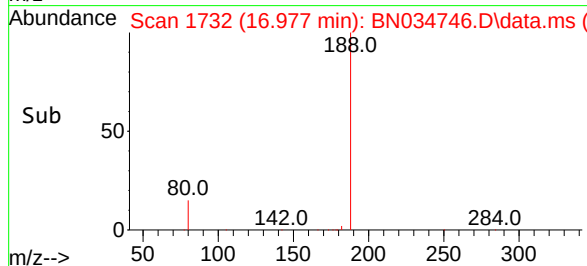
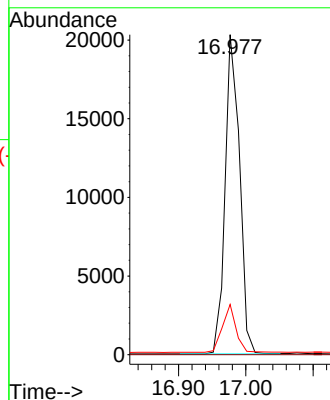
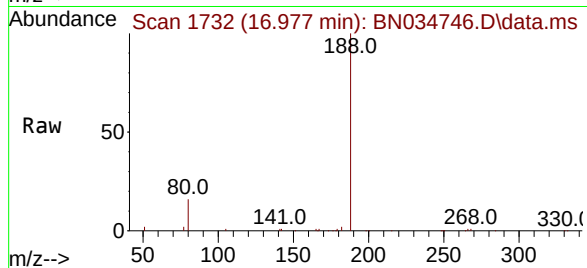
Tgt Ion:188 Resp: 30155

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 15.7 9.8 14.6#



#20

4,6-Dinitro-2-methylphenol

Concen: 5.112 ng

RT: 15.362 min Scan# 1600

Delta R.T. -0.004 min

Lab File: BN034746.D

Acq: 30 Oct 2024 12:56

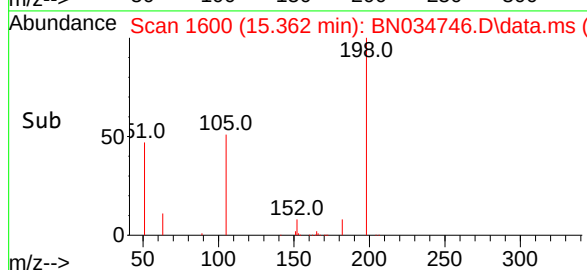
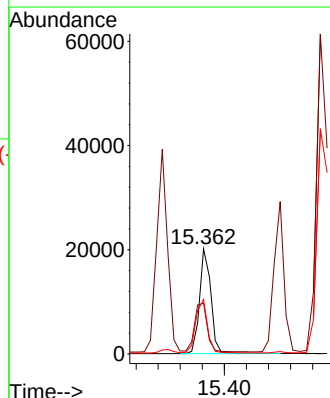
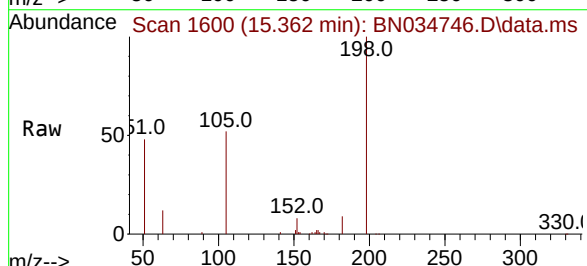
Tgt Ion:198 Resp: 28489

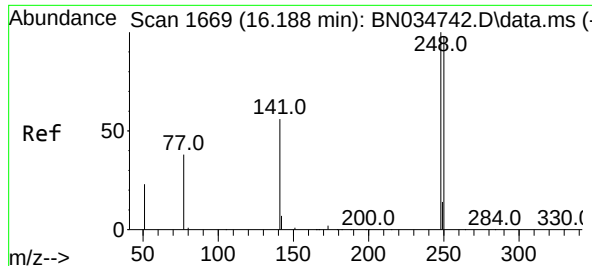
Ion Ratio Lower Upper

198 100

51 48.2 58.0 87.0#

105 51.7 49.1 73.7





#21

4-Bromophenyl-phenylether

Concen: 4.956 ng

RT: 16.182 min Scan# 1668

Delta R.T. -0.006 min

Lab File: BN034746.D

Acq: 30 Oct 2024 12:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

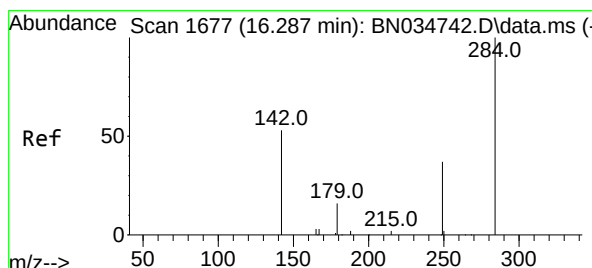
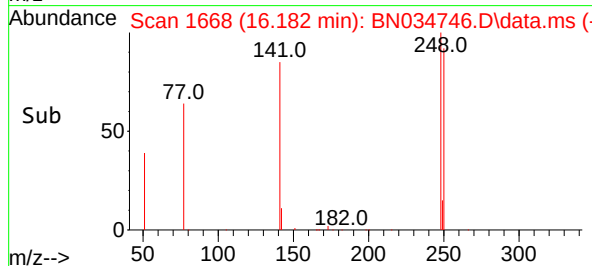
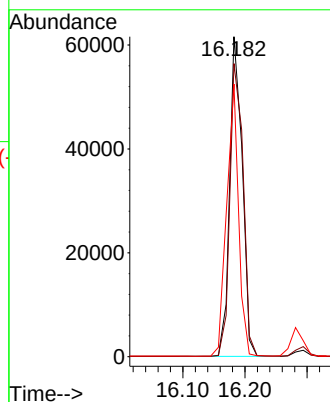
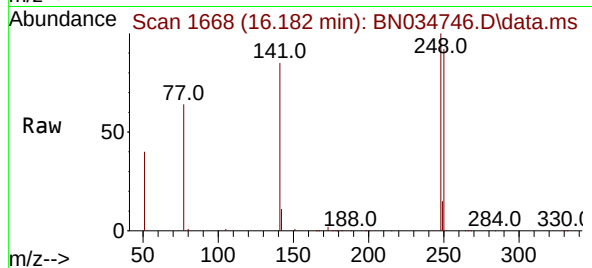
Tgt Ion:248 Resp: 86486

Ion Ratio Lower Upper

248 100

250 91.6 78.7 118.1

141 85.2 46.4 69.6#



#22

Hexachlorobenzene

Concen: 4.826 ng

RT: 16.294 min Scan# 1677

Delta R.T. 0.007 min

Lab File: BN034746.D

Acq: 30 Oct 2024 12:56

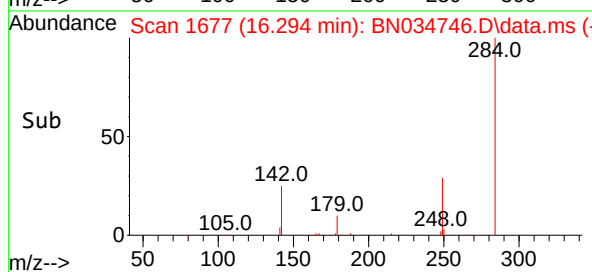
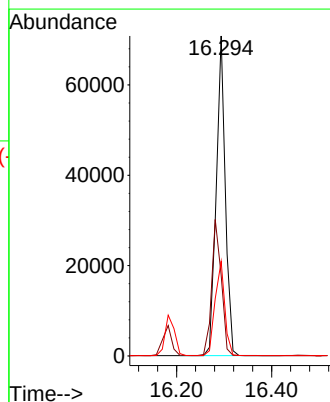
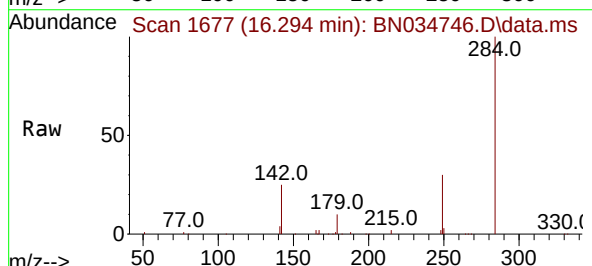
Tgt Ion:284 Resp: 94273

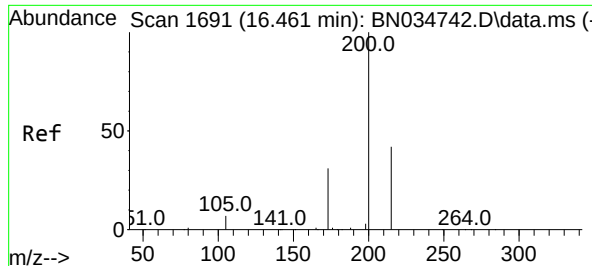
Ion Ratio Lower Upper

284 100

142 45.0 35.4 53.0

249 31.4 25.7 38.5

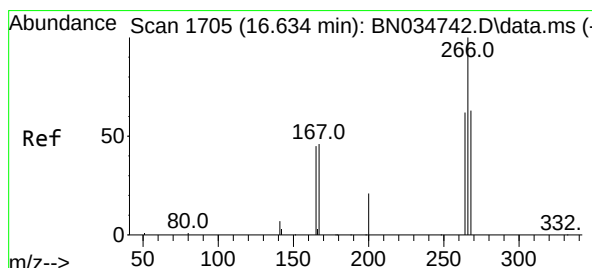
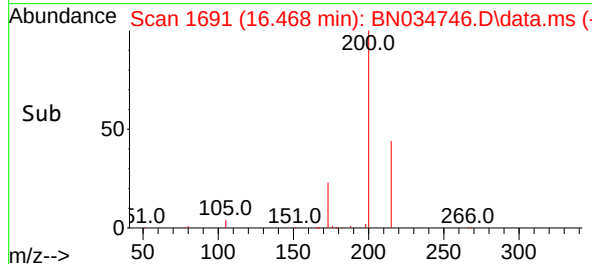
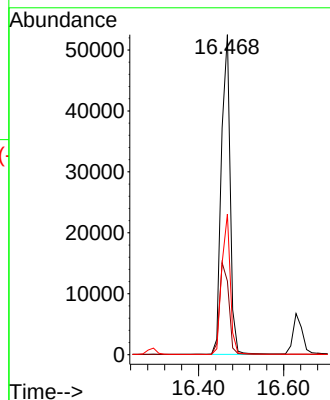
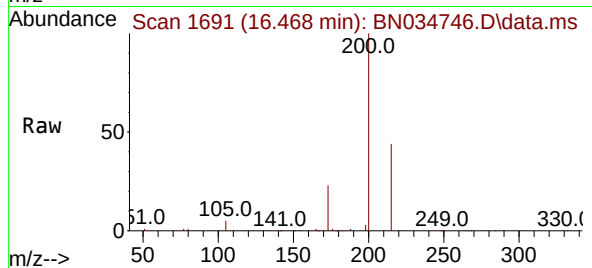




#23
Atrazine
Concen: 4.999 ng
RT: 16.468 min Scan# 1
Delta R.T. 0.007 min
Lab File: BN034746.D
Acq: 30 Oct 2024 12:56

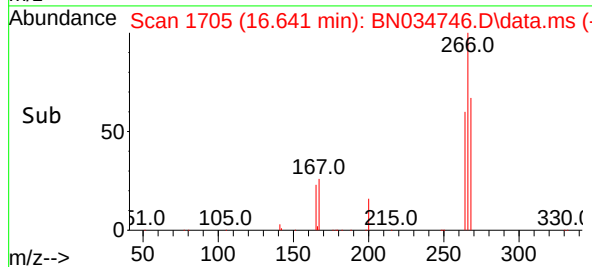
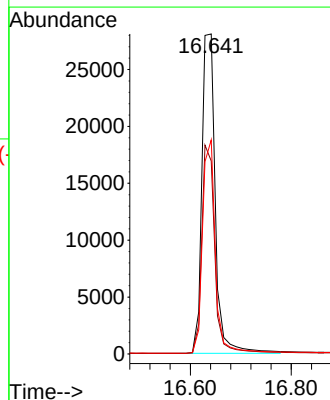
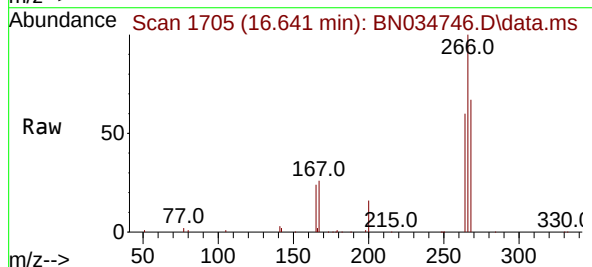
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

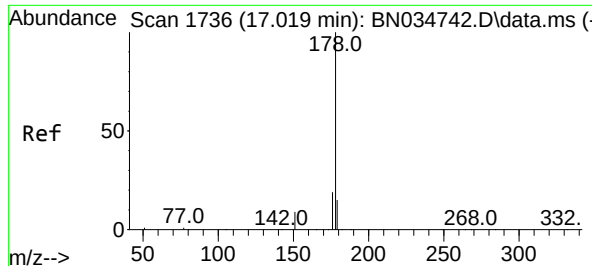
Tgt Ion:200 Resp: 75090
Ion Ratio Lower Upper
200 100
173 23.0 25.8 38.6#
215 44.0 34.2 51.4



#24
Pentachlorophenol
Concen: 6.194 ng
RT: 16.641 min Scan# 1705
Delta R.T. 0.007 min
Lab File: BN034746.D
Acq: 30 Oct 2024 12:56

Tgt Ion:266 Resp: 52103
Ion Ratio Lower Upper
266 100
264 62.8 48.7 73.1
268 63.7 50.2 75.4

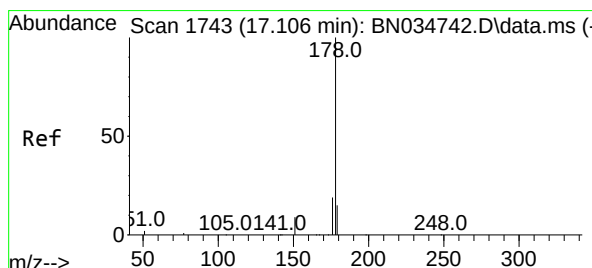
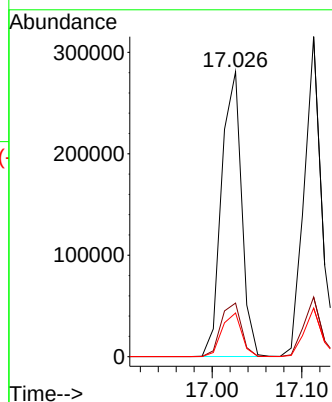
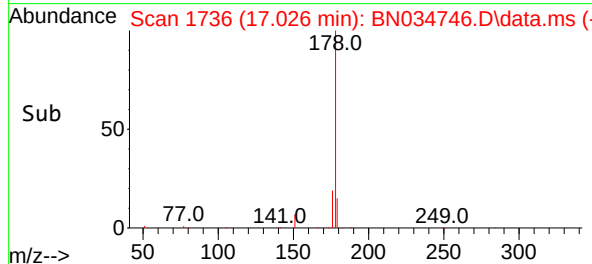
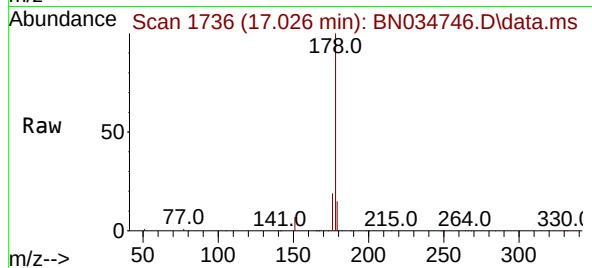




#25
Phenanthrene
Concen: 4.922 ng
RT: 17.026 min Scan# 1736
Delta R.T. 0.007 min
Lab File: BN034746.D
Acq: 30 Oct 2024 12:56

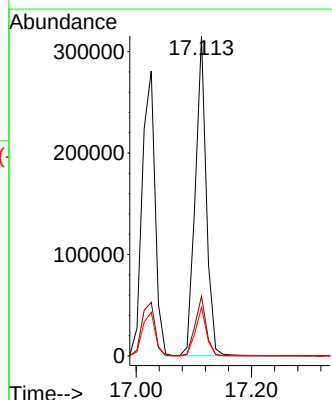
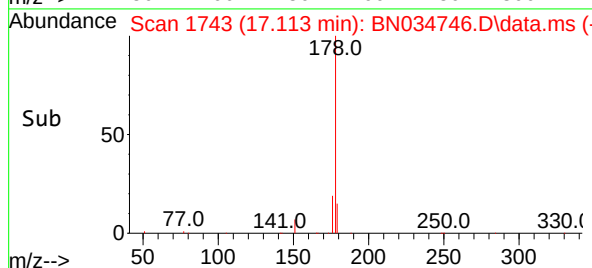
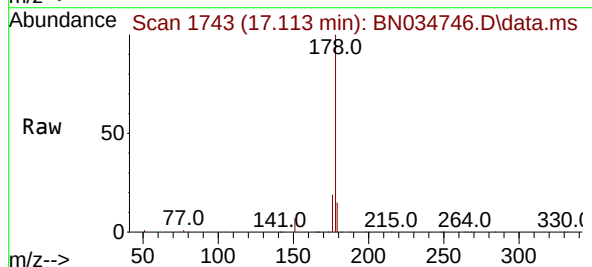
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

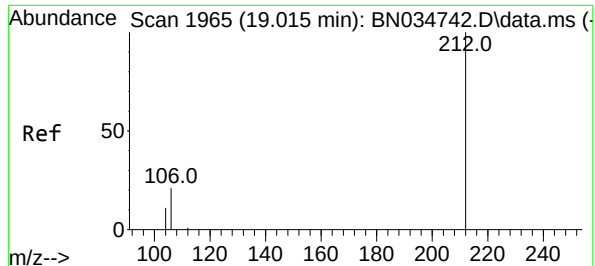
Tgt Ion:178 Resp: 436521
Ion Ratio Lower Upper
178 100
176 19.3 15.4 23.0
179 15.2 12.2 18.4



#26
Anthracene
Concen: 5.058 ng
RT: 17.113 min Scan# 1743
Delta R.T. 0.007 min
Lab File: BN034746.D
Acq: 30 Oct 2024 12:56

Tgt Ion:178 Resp: 419798
Ion Ratio Lower Upper
178 100
176 18.8 15.0 22.6
179 15.2 12.2 18.2





#27

Fluoranthene-d10

Concen: 4.996 ng

RT: 19.017 min Scan# 1965

Delta R.T. 0.002 min

Lab File: BN034746.D

Acq: 30 Oct 2024 12:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

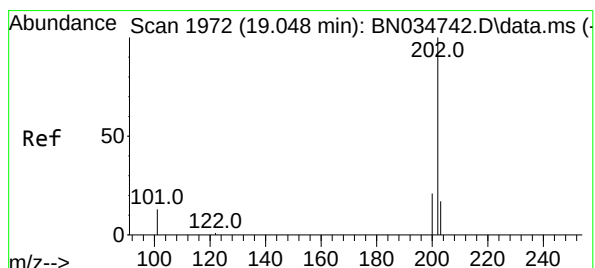
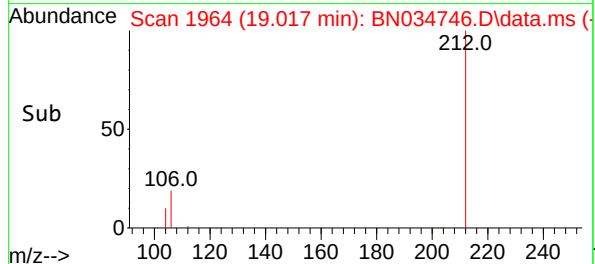
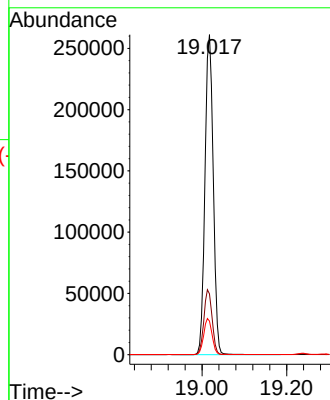
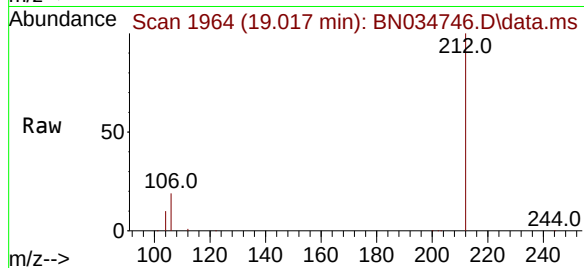
Tgt Ion:212 Resp: 353376

Ion Ratio Lower Upper

212 100

106 20.1 16.1 24.1

104 11.3 9.2 13.8



#28

Fluoranthene

Concen: 4.947 ng

RT: 19.045 min Scan# 1970

Delta R.T. -0.002 min

Lab File: BN034746.D

Acq: 30 Oct 2024 12:56

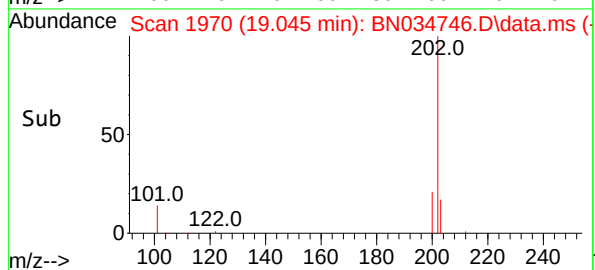
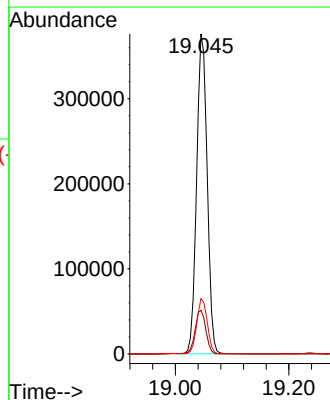
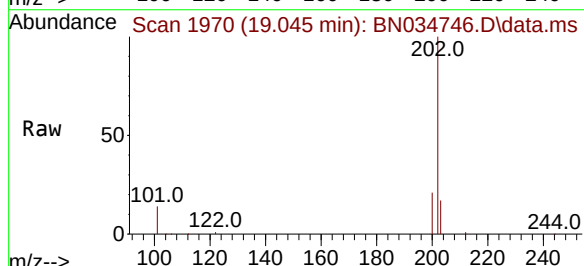
Tgt Ion:202 Resp: 483565

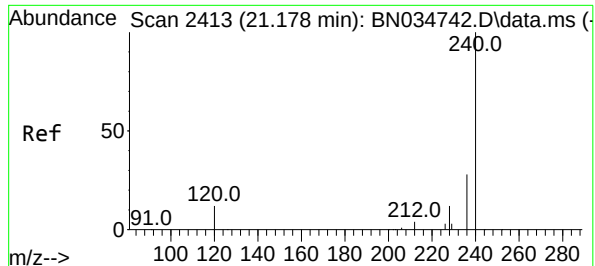
Ion Ratio Lower Upper

202 100

101 14.1 11.4 17.0

203 17.2 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.176 min Scan# 2413

Delta R.T. -0.002 min

Lab File: BN034746.D

Acq: 30 Oct 2024 12:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

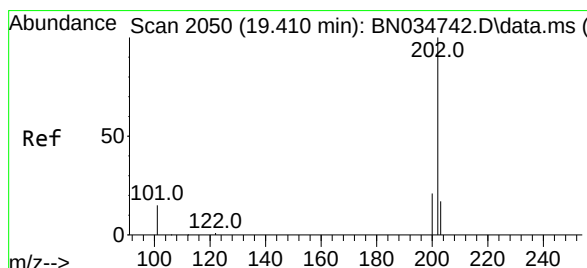
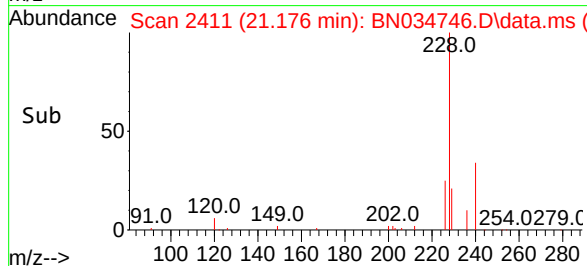
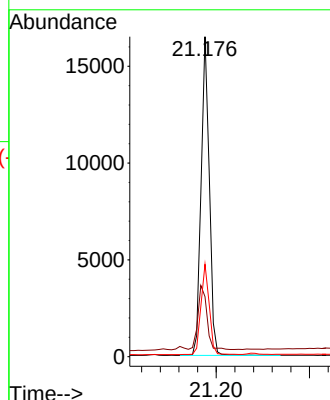
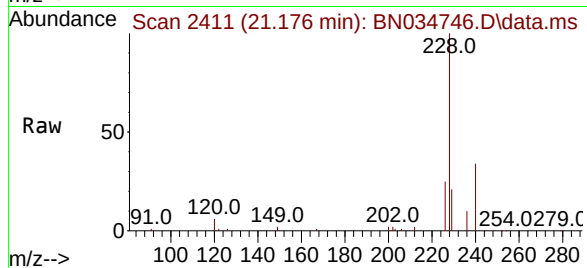
Tgt Ion:240 Resp: 20145

Ion Ratio Lower Upper

240 100

120 18.8 11.5 17.3#

236 28.9 23.2 34.8



#30

Pyrene

Concen: 4.751 ng

RT: 19.408 min Scan# 2048

Delta R.T. -0.002 min

Lab File: BN034746.D

Acq: 30 Oct 2024 12:56

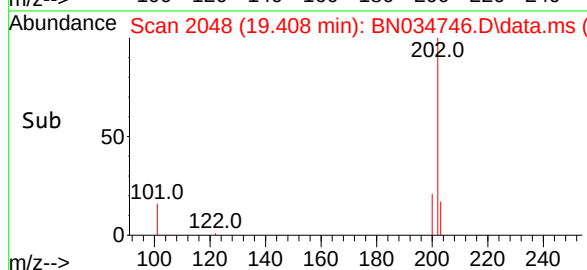
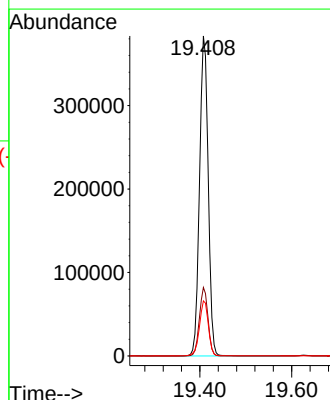
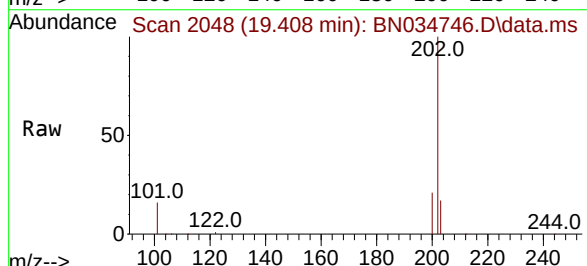
Tgt Ion:202 Resp: 500345

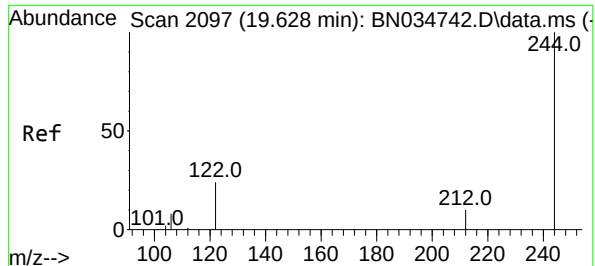
Ion Ratio Lower Upper

202 100

200 21.2 17.0 25.4

203 17.8 14.2 21.2

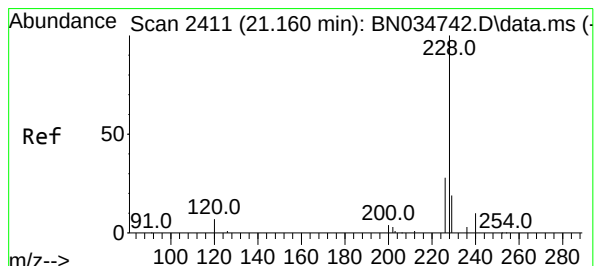
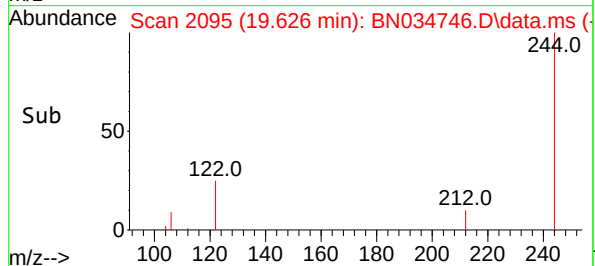
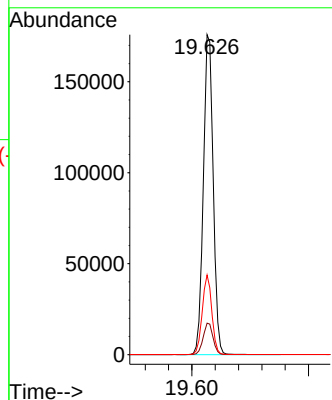
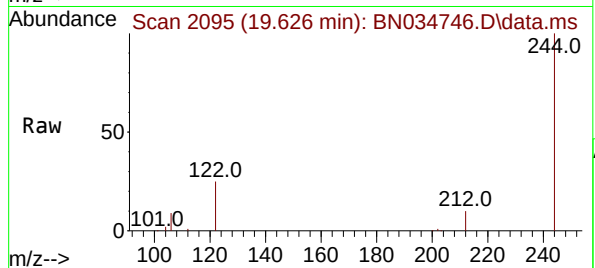




#31
Terphenyl-d14
Concen: 4.784 ng
RT: 19.626 min Scan# 2095
Delta R.T. -0.002 min
Lab File: BN034746.D
Acq: 30 Oct 2024 12:56

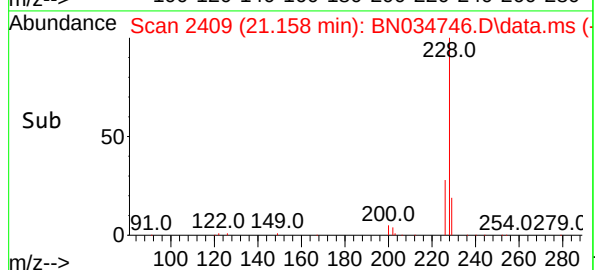
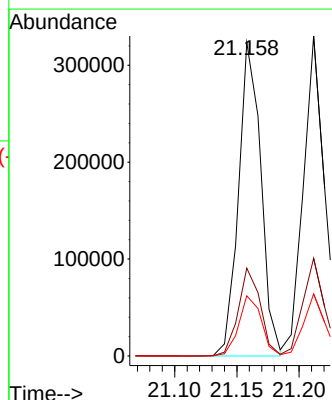
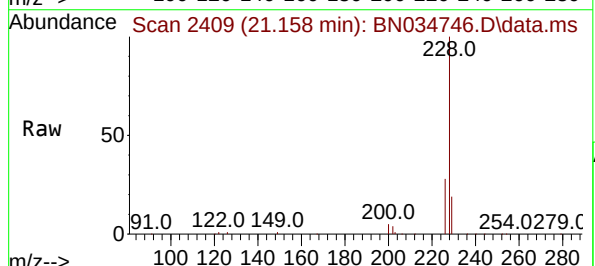
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

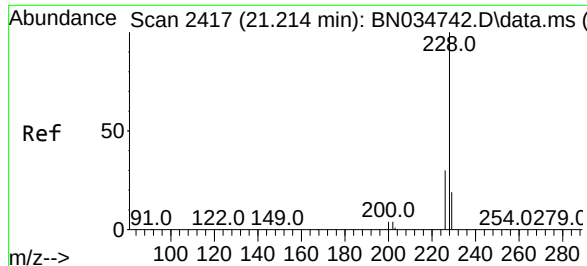
Tgt Ion:244 Resp: 206973
Ion Ratio Lower Upper
244 100
212 9.8 8.2 12.4
122 24.9 19.8 29.6



#32
Benzo(a)anthracene
Concen: 5.042 ng
RT: 21.158 min Scan# 2409
Delta R.T. -0.002 min
Lab File: BN034746.D
Acq: 30 Oct 2024 12:56

Tgt Ion:228 Resp: 404286
Ion Ratio Lower Upper
228 100
226 28.0 22.6 33.8
229 19.2 15.7 23.5





#33

Chrysene

Concen: 4.934 ng

RT: 21.212 min Scan# 2417

Delta R.T. -0.002 min

Lab File: BN034746.D

Acq: 30 Oct 2024 12:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

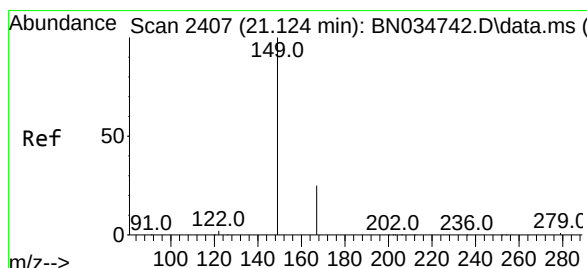
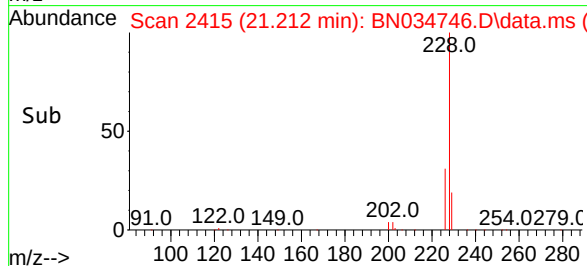
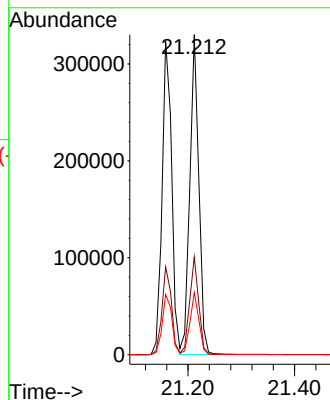
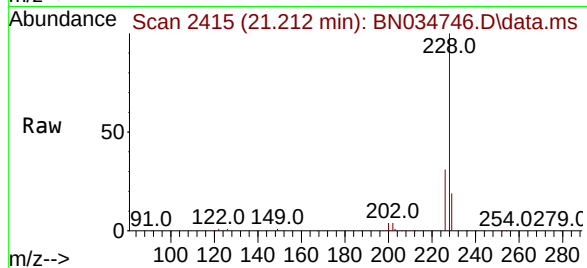
Tgt Ion:228 Resp: 387398

Ion Ratio Lower Upper

228 100

226 30.6 24.4 36.6

229 19.4 15.6 23.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 5.041 ng

RT: 21.122 min Scan# 2405

Delta R.T. -0.002 min

Lab File: BN034746.D

Acq: 30 Oct 2024 12:56

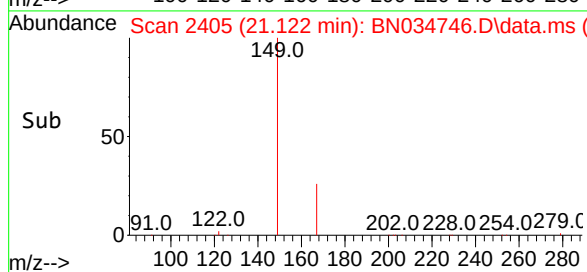
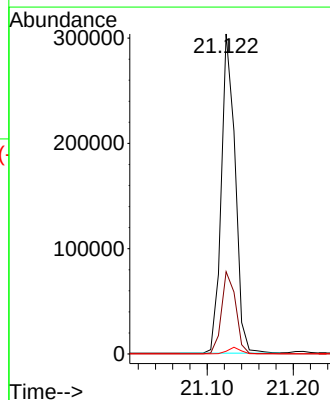
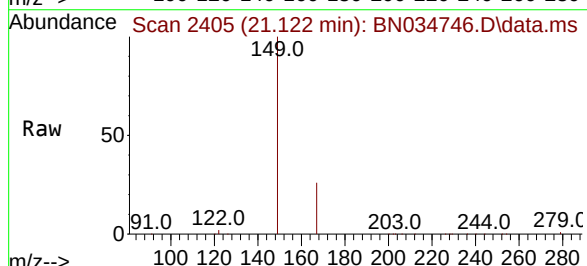
Tgt Ion:149 Resp: 337998

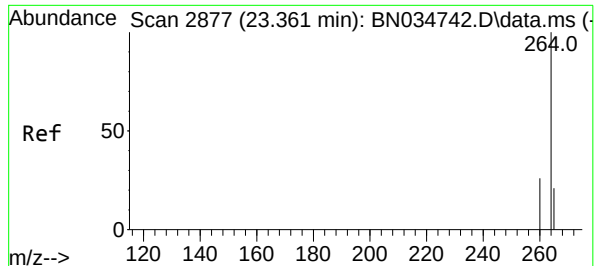
Ion Ratio Lower Upper

149 100

167 26.1 20.6 30.8

279 1.9 1.5 2.3





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.362 min Scan# 21

Delta R.T. 0.001 min

Lab File: BN034746.D

Acq: 30 Oct 2024 12:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

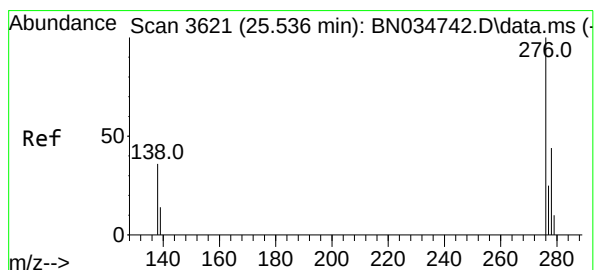
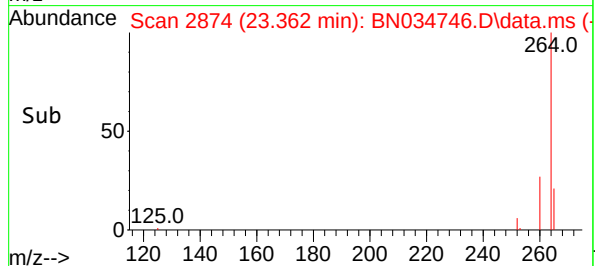
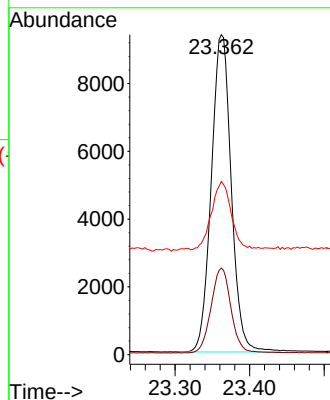
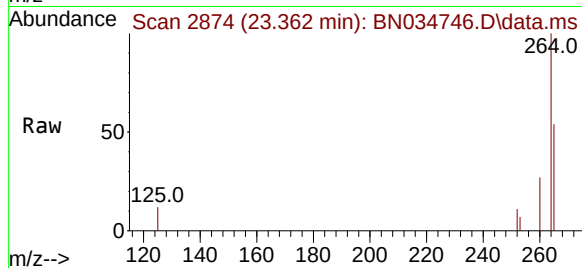
Tgt Ion:264 Resp: 17397

Ion Ratio Lower Upper

264 100

260 27.1 21.5 32.3

265 54.2 47.5 71.3



#36

Indeno(1,2,3-cd)pyrene

Concen: 4.829 ng

RT: 25.540 min Scan# 3619

Delta R.T. 0.004 min

Lab File: BN034746.D

Acq: 30 Oct 2024 12:56

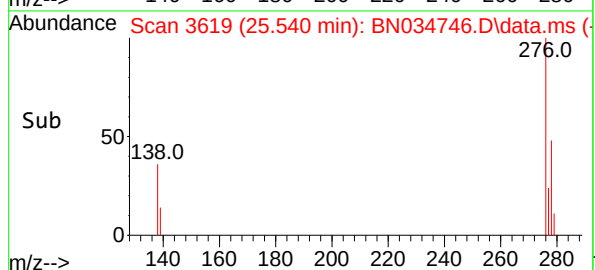
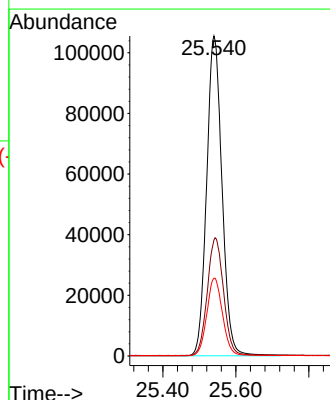
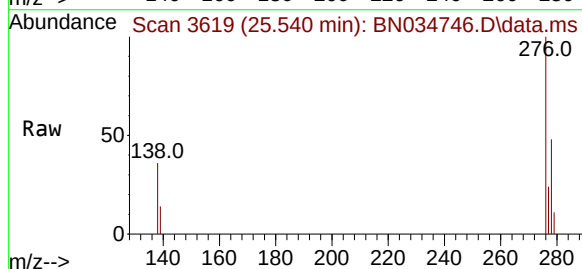
Tgt Ion:276 Resp: 309042

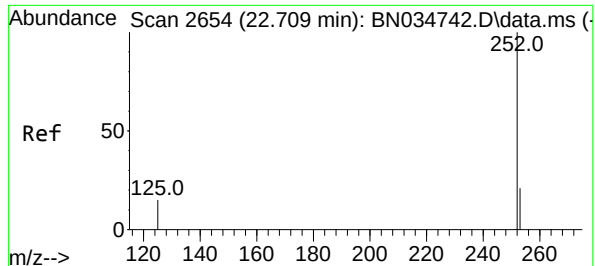
Ion Ratio Lower Upper

276 100

138 38.9 31.5 47.3

277 24.7 19.7 29.5





#37

Benzo(b)fluoranthene

Concen: 5.067 ng

RT: 22.713 min Scan# 2652

Delta R.T. 0.004 min

Lab File: BN034746.D

Acq: 30 Oct 2024 12:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

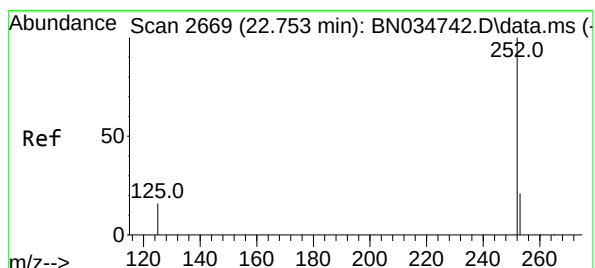
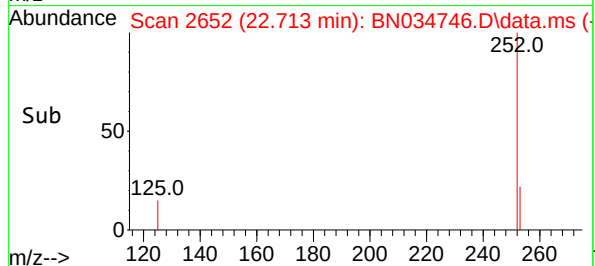
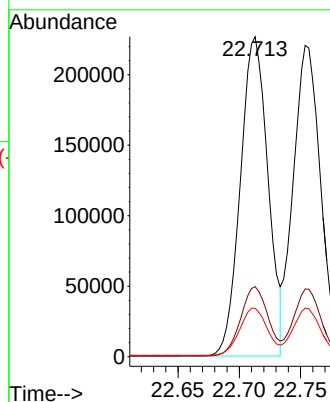
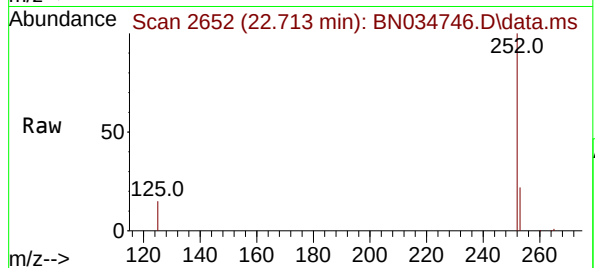
Tgt Ion:252 Resp: 354898

Ion Ratio Lower Upper

252 100

253 21.9 19.7 29.5

125 15.2 17.1 25.7#



#38

Benzo(k)fluoranthene

Concen: 5.053 ng

RT: 22.754 min Scan# 2666

Delta R.T. 0.001 min

Lab File: BN034746.D

Acq: 30 Oct 2024 12:56

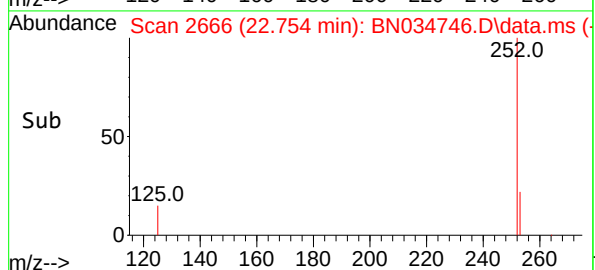
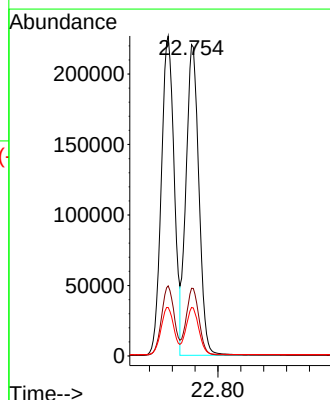
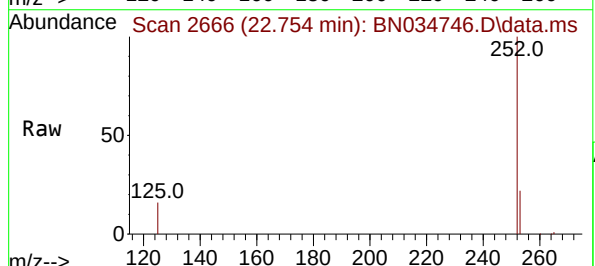
Tgt Ion:252 Resp: 345310

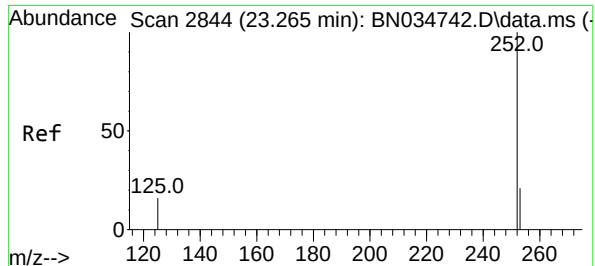
Ion Ratio Lower Upper

252 100

253 21.7 19.8 29.6

125 15.6 18.2 27.2#





#39

Benzo(a)pyrene

Concen: 5.098 ng

RT: 23.268 min Scan# 21

Delta R.T. 0.004 min

Lab File: BN034746.D

Acq: 30 Oct 2024 12:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

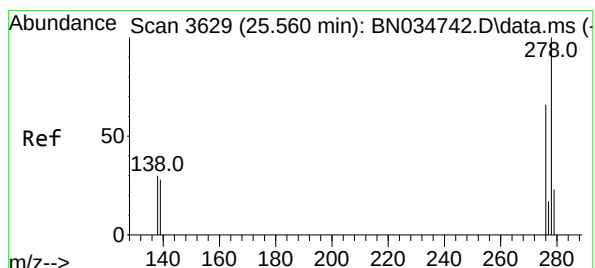
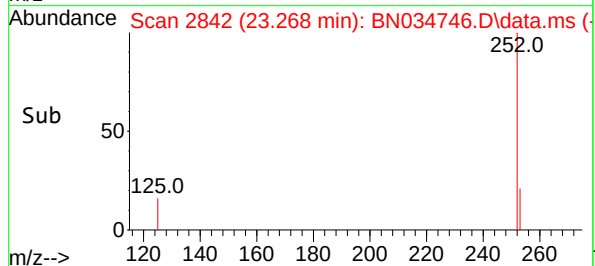
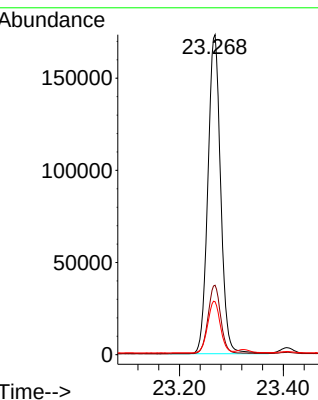
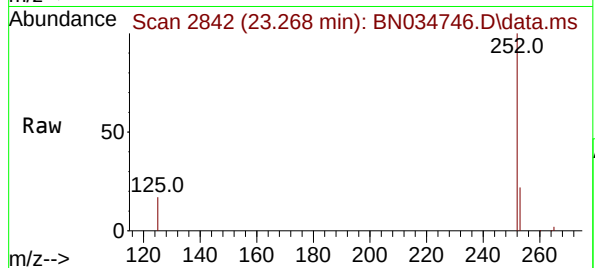
Tgt Ion:252 Resp: 294657

Ion Ratio Lower Upper

252 100

253 21.7 20.7 31.1

125 16.6 20.3 30.5#



#40

Dibenzo(a,h)anthracene

Concen: 4.822 ng

RT: 25.558 min Scan# 3625

Delta R.T. -0.002 min

Lab File: BN034746.D

Acq: 30 Oct 2024 12:56

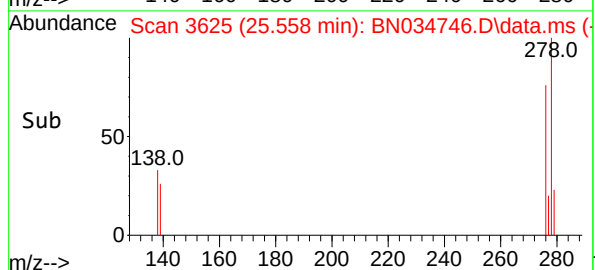
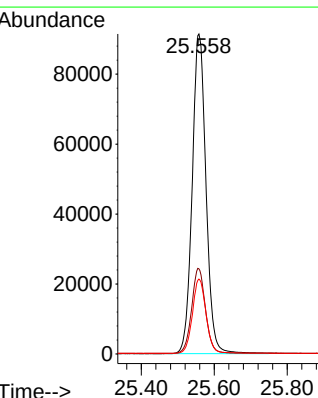
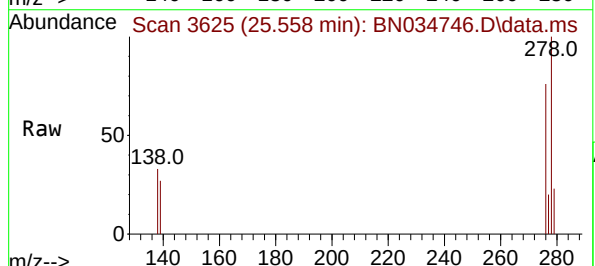
Tgt Ion:278 Resp: 240649

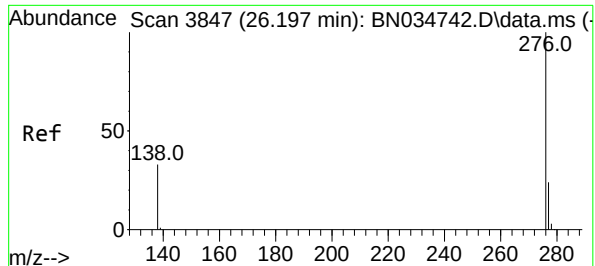
Ion Ratio Lower Upper

278 100

139 26.6 24.9 37.3

279 23.4 21.0 31.4





#41

Benzo(g,h,i)perylene

Concen: 4.718 ng

RT: 26.198 min Scan# 3844

Delta R.T. 0.001 min

Lab File: BN034746.D

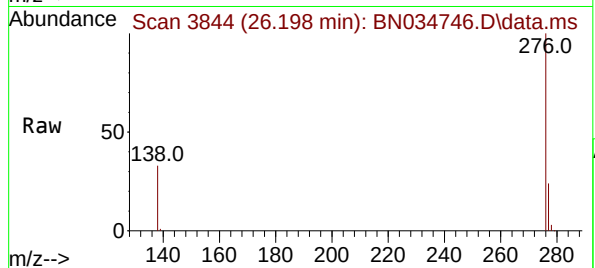
Acq: 30 Oct 2024 12:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0



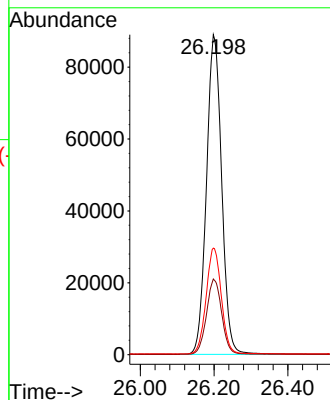
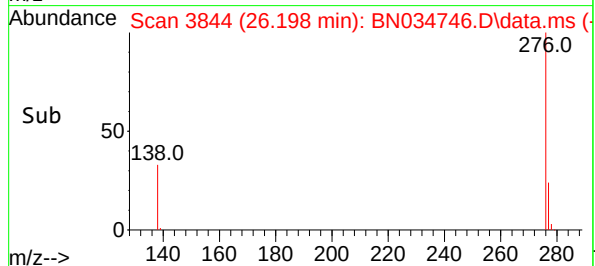
Tgt Ion:276 Resp: 254439

Ion Ratio Lower Upper

276 100

277 23.6 20.2 30.2

138 33.3 28.7 43.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN103024\
 Data File : BN034747.D
 Acq On : 30 Oct 2024 15:21
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN103024

Quant Time: Oct 30 15:57:34 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 30 13:28:24 2024
 Response via : Initial Calibration

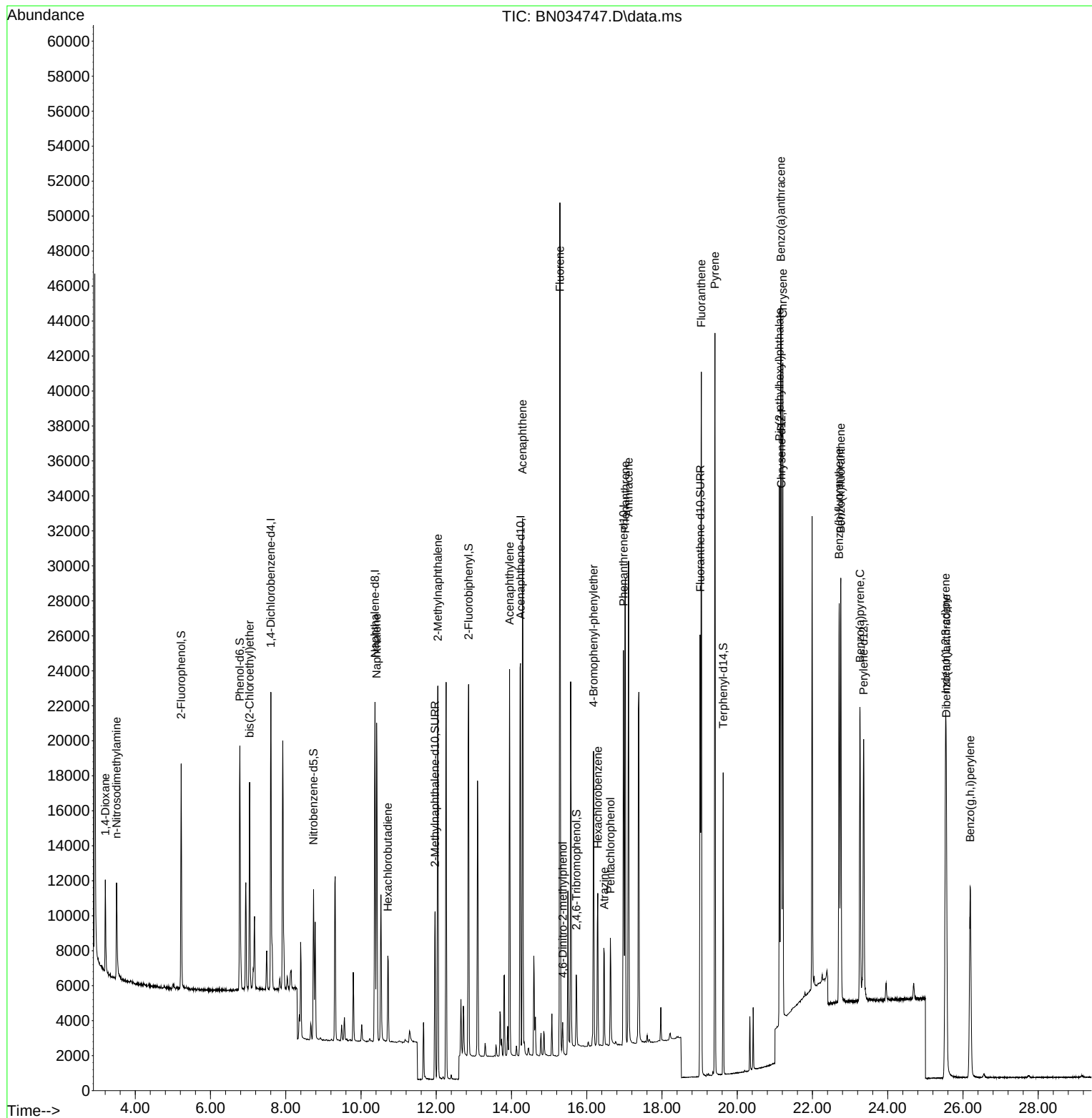
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.604	152	7993	0.400	ng	0.00
7) Naphthalene-d8	10.372	136	24332	0.400	ng	0.00
13) Acenaphthene-d10	14.240	164	13847	0.400	ng	0.00
19) Phenanthrene-d10	16.976	188	28842	0.400	ng	# 0.00
29) Chrysene-d12	21.176	240	20211	0.400	ng	0.00
35) Perylene-d12	23.362	264	19052	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.220	112	9901	0.409	ng	0.00
5) Phenol-d6	6.780	99	12725	0.404	ng	0.00
8) Nitrobenzene-d5	8.738	82	6502	0.340	ng	0.00
11) 2-Methylnaphthalene-d10	11.969	152	12746	0.362	ng	0.00
14) 2,4,6-Tribromophenol	15.723	330	2296	0.336	ng	0.00
15) 2-Fluorobiphenyl	12.860	172	18636	0.342	ng	0.00
27) Fluoranthene-d10	19.017	212	25699	0.380	ng	0.00
31) Terphenyl-d14	19.626	244	14610	0.337	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.205	88	3241	0.370	ng	Qvalue 97
3) n-Nitrosodimethylamine	3.501	42	3778	0.382	ng	94
6) bis(2-Chloroethyl)ether	7.040	93	8441	0.368	ng	99
9) Naphthalene	10.415	128	23988	0.356	ng	99
10) Hexachlorobutadiene	10.714	225	3960	0.357	ng	# 100
12) 2-Methylnaphthalene	12.041	142	15573	0.354	ng	99
16) Acenaphthylene	13.951	152	22661	0.326	ng	100
17) Acenaphthene	14.293	154	15571	0.336	ng	99
18) Fluorene	15.287	166	19700	0.341	ng	100
20) 4,6-Dinitro-2-methylph...	15.362	198	1194	0.396	ng	88
21) 4-Bromophenyl-phenylether	16.182	248	5801	0.348	ng	# 81
22) Hexachlorobenzene	16.294	284	6660	0.356	ng	99
23) Atrazine	16.467	200	4984	0.347	ng	# 91
24) Pentachlorophenol	16.629	266	2972	0.369	ng	97
25) Phenanthrene	17.026	178	31124	0.367	ng	100
26) Anthracene	17.113	178	28137	0.354	ng	100
28) Fluoranthene	19.045	202	34832	0.373	ng	100
30) Pyrene	19.407	202	36026	0.341	ng	100
32) Benzo(a)anthracene	21.158	228	28785	0.358	ng	99
33) Chrysene	21.212	228	28844	0.366	ng	100
34) Bis(2-ethylhexyl)phtha...	21.122	149	26293	0.391	ng	100
36) Indeno(1,2,3-cd)pyrene	25.537	276	24079	0.344	ng	100
37) Benzo(b)fluoranthene	22.710	252	27161	0.354	ng	98
38) Benzo(k)fluoranthene	22.754	252	27081	0.362	ng	98
39) Benzo(a)pyrene	23.262	252	22298	0.352	ng	97
40) Dibenzo(a,h)anthracene	25.558	278	18731	0.343	ng	98
41) Benzo(g,h,i)perylene	26.195	276	20248	0.343	ng	100

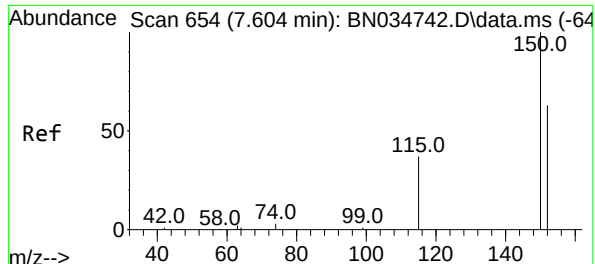
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN103024\
Data File : BN034747.D
Acq On : 30 Oct 2024 15:21
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN103024

Quant Time: Oct 30 15:57:34 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 30 13:28:24 2024
Response via : Initial Calibration

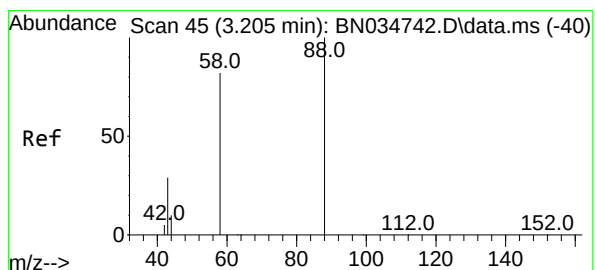
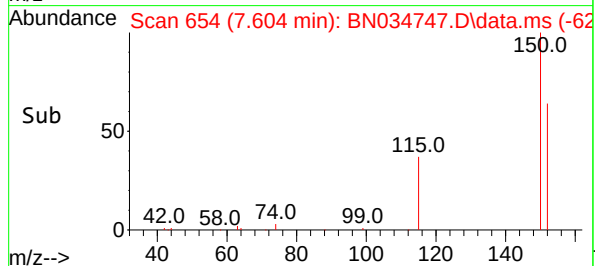
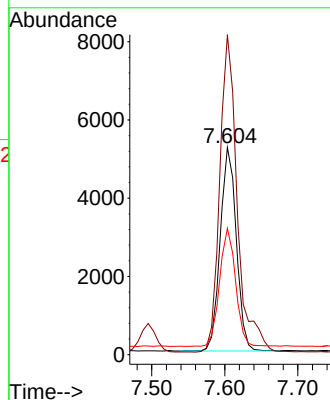
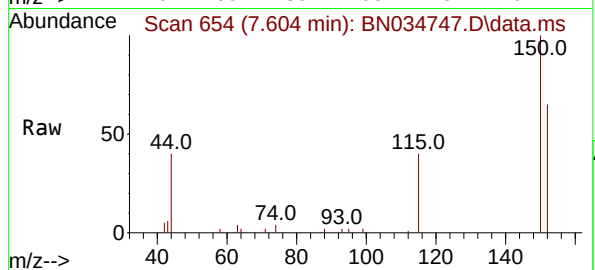




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.604 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN034747.D
Acq: 30 Oct 2024 15:21

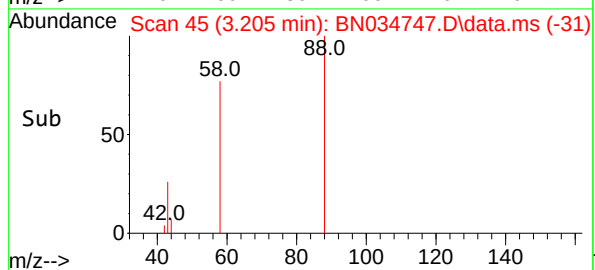
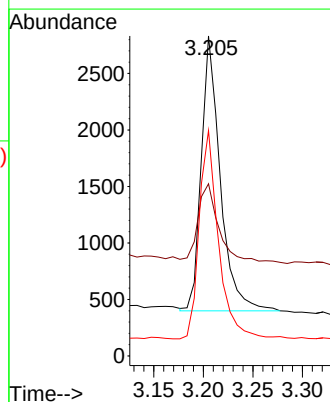
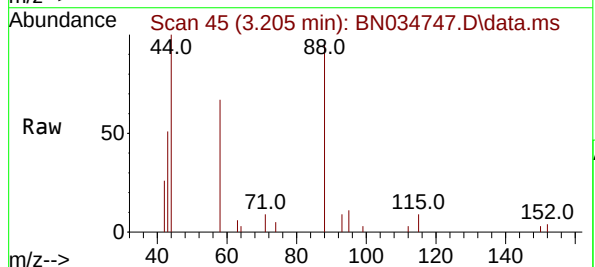
Instrument :
BNA_N
ClientSampleId :
ICVBN103024

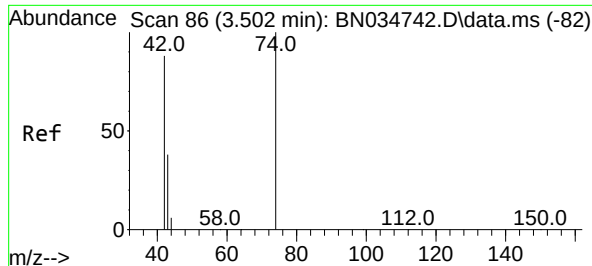
Tgt Ion:152 Resp: 7993
Ion Ratio Lower Upper
152 100
150 154.4 124.9 187.3
115 61.0 50.2 75.2



#2
1,4-Dioxane
Concen: 0.370 ng
RT: 3.205 min Scan# 45
Delta R.T. -0.000 min
Lab File: BN034747.D
Acq: 30 Oct 2024 15:21

Tgt Ion: 88 Resp: 3241
Ion Ratio Lower Upper
88 100
43 31.3 26.7 40.1
58 76.7 59.3 88.9

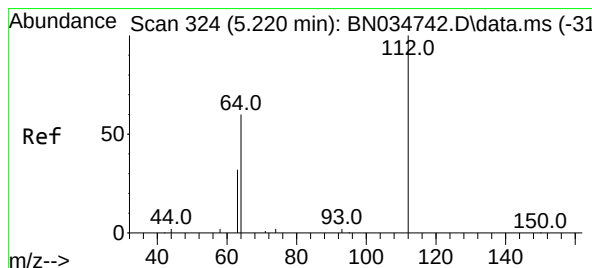
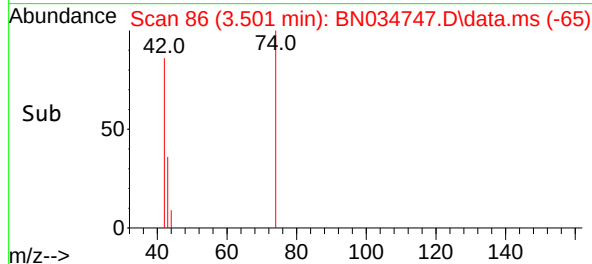
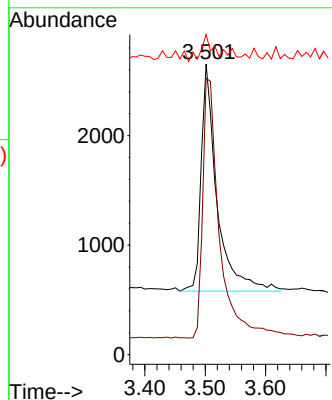
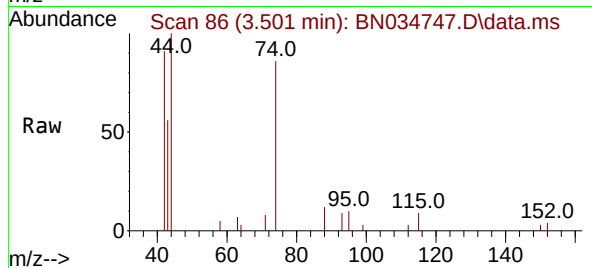




#3
n-Nitrosodimethylamine
Concen: 0.382 ng
RT: 3.501 min Scan# 86
Delta R.T. -0.000 min
Lab File: BN034747.D
Acq: 30 Oct 2024 15:21

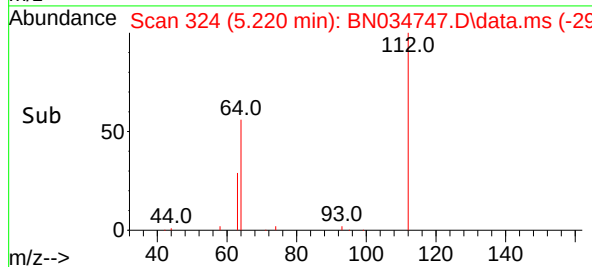
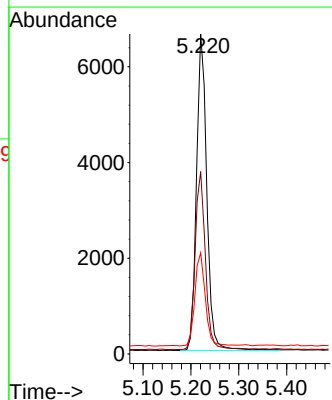
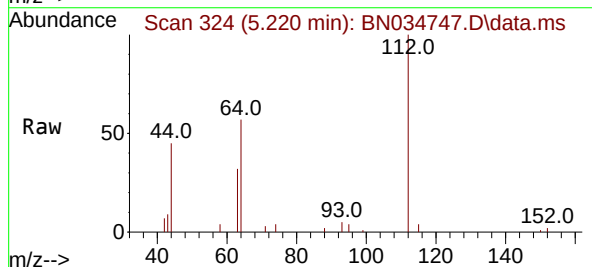
Instrument :
BNA_N
ClientSampleId :
ICVBN103024

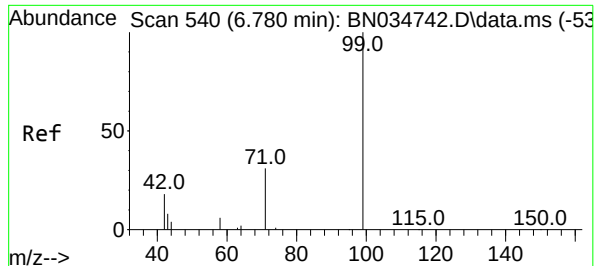
Tgt Ion: 42 Resp: 3778
Ion Ratio Lower Upper
42 100
74 121.8 103.1 154.7
44 8.7 6.7 10.1



#4
2-Fluorophenol
Concen: 0.409 ng
RT: 5.220 min Scan# 324
Delta R.T. -0.000 min
Lab File: BN034747.D
Acq: 30 Oct 2024 15:21

Tgt Ion: 112 Resp: 9901
Ion Ratio Lower Upper
112 100
64 56.0 44.9 67.3
63 29.7 23.5 35.3

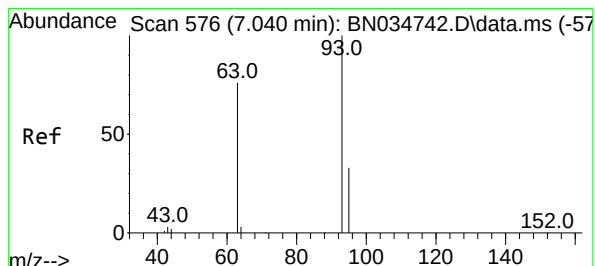
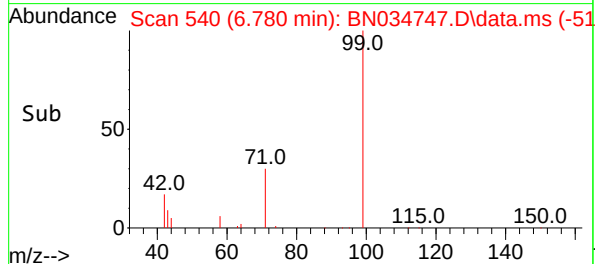
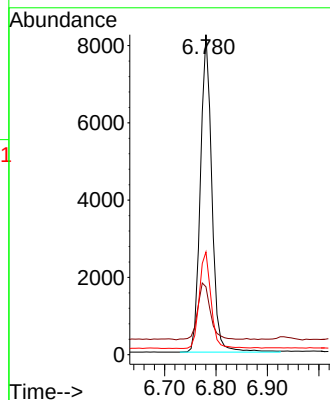
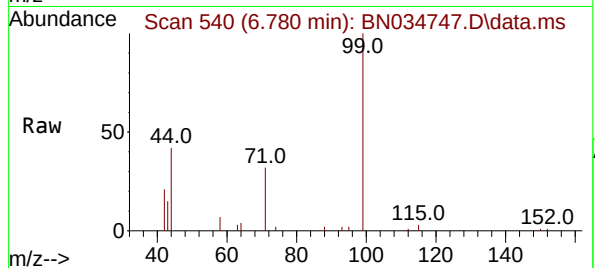




#5
Phenol-d6
Concen: 0.404 ng
RT: 6.780 min Scan# 540
Delta R.T. -0.000 min
Lab File: BN034747.D
Acq: 30 Oct 2024 15:21

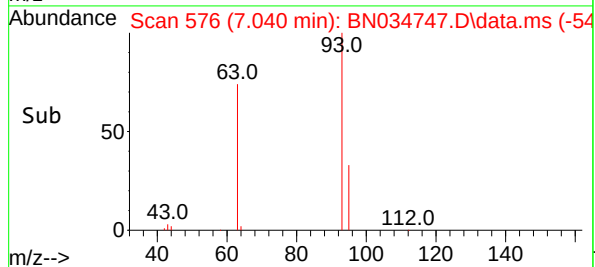
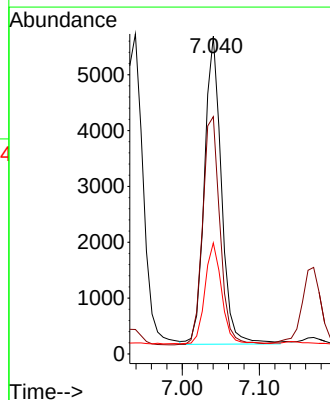
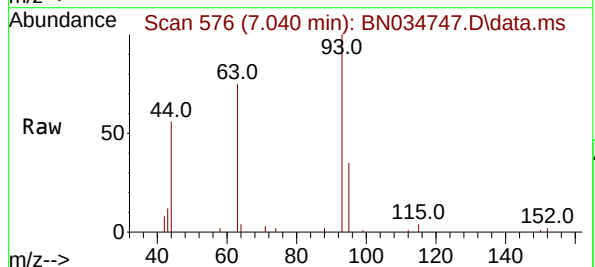
Instrument :
BNA_N
ClientSampleId :
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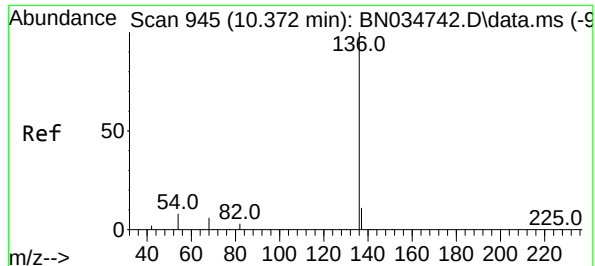
Tgt Ion: 99 Resp: 12725
Ion Ratio Lower Upper
99 100
42 19.9 15.9 23.9
71 31.0 24.3 36.5



#6
bis(2-Chloroethyl)ether
Concen: 0.368 ng
RT: 7.040 min Scan# 576
Delta R.T. -0.000 min
Lab File: BN034747.D
Acq: 30 Oct 2024 15:21

Tgt Ion: 93 Resp: 8441
Ion Ratio Lower Upper
93 100
63 75.9 61.2 91.8
95 32.0 25.8 38.8

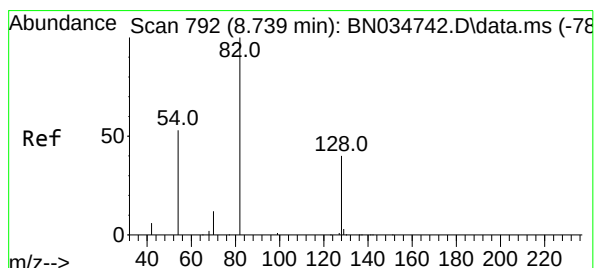
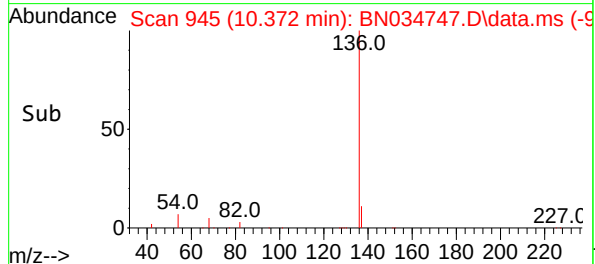
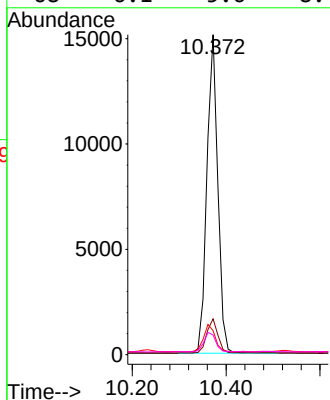
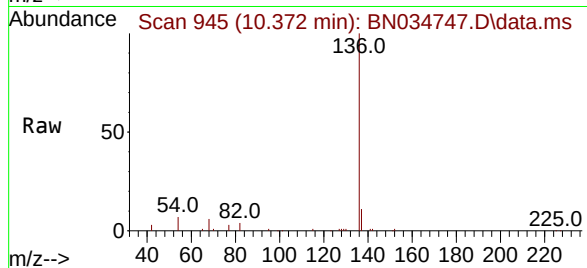




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.372 min Scan# 945
Delta R.T. -0.000 min
Lab File: BN034747.D
Acq: 30 Oct 2024 15:21

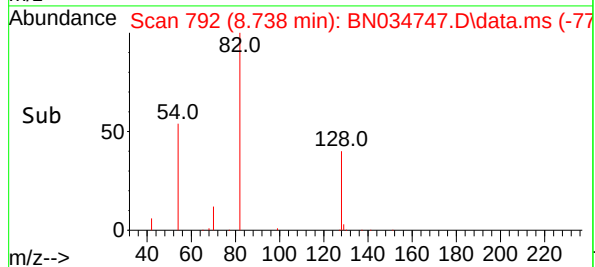
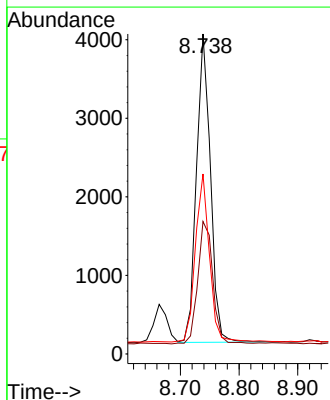
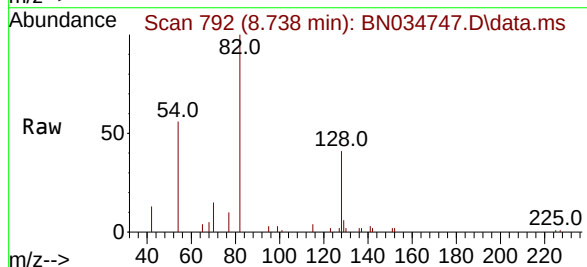
Instrument :
BNA_N
ClientSampleId :
ICVBN103024

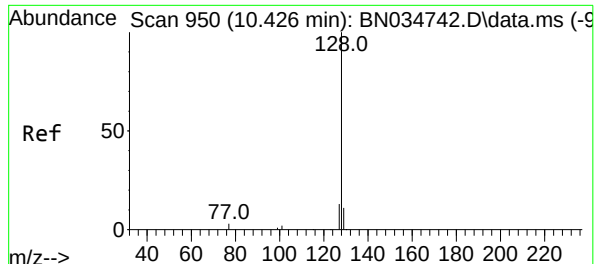
Tgt Ion:	136	Resp:	24332
Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.2	13.8
54	7.5	7.0	10.4
68	6.1	5.6	8.4



#8
Nitrobenzene-d5
Concen: 0.340 ng
RT: 8.738 min Scan# 792
Delta R.T. -0.000 min
Lab File: BN034747.D
Acq: 30 Oct 2024 15:21

Tgt Ion:	82	Resp:	6502
Ion	Ratio	Lower	Upper
82	100		
128	41.4	33.7	50.5
54	56.2	44.4	66.6

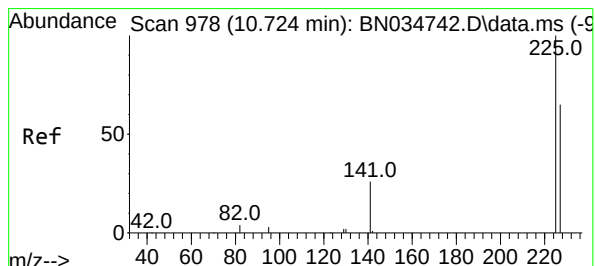
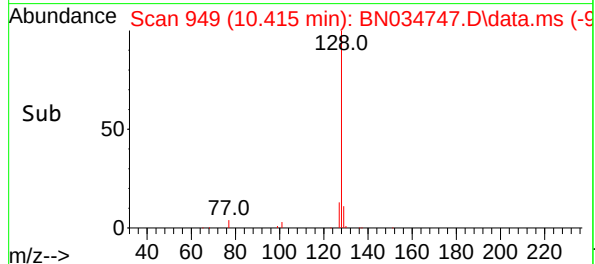
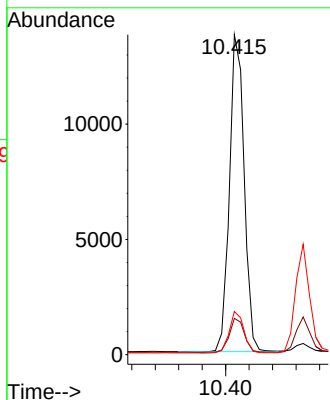
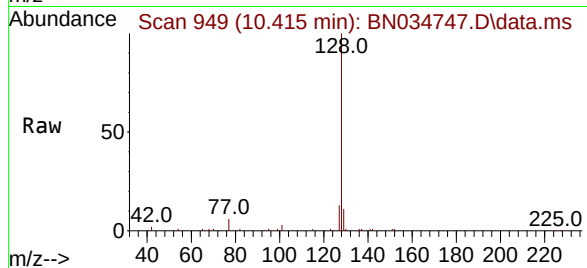




#9
Naphthalene
Concen: 0.356 ng
RT: 10.415 min Scan# 949
Delta R.T. -0.011 min
Lab File: BN034747.D
Acq: 30 Oct 2024 15:21

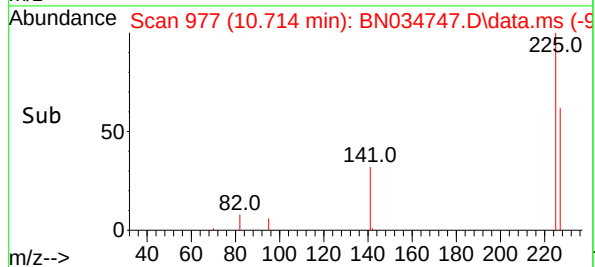
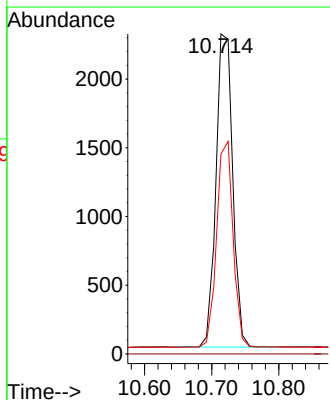
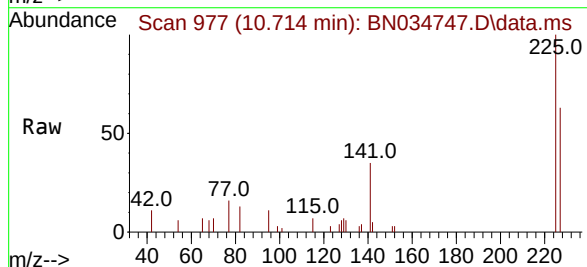
Instrument :
BNA_N
ClientSampleId :
ICVBN103024

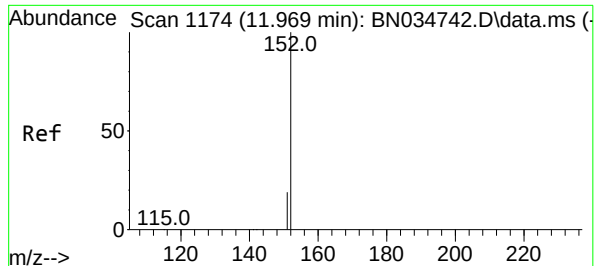
Tgt Ion:128 Resp: 23988
Ion Ratio Lower Upper
128 100
129 11.4 9.4 14.0
127 13.5 10.6 15.8



#10
Hexachlorobutadiene
Concen: 0.357 ng
RT: 10.714 min Scan# 977
Delta R.T. -0.011 min
Lab File: BN034747.D
Acq: 30 Oct 2024 15:21

Tgt Ion:225 Resp: 3960
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.3 51.4 77.2

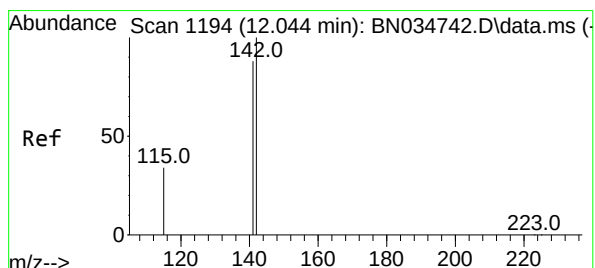
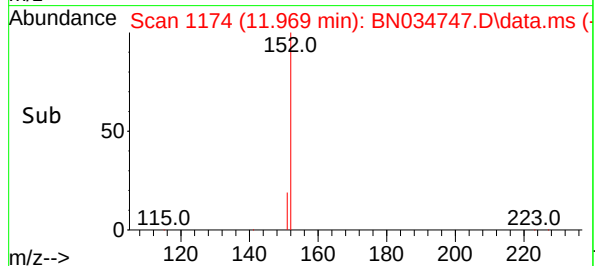
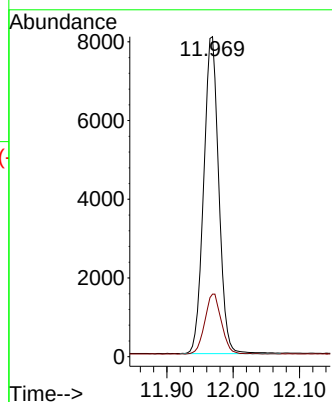
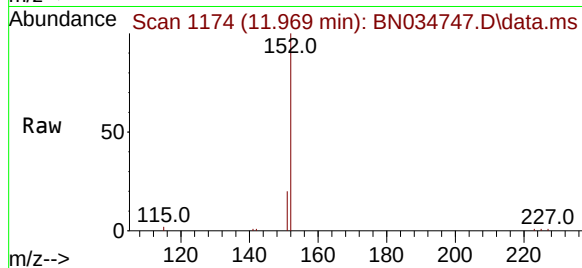




#11
2-Methylnaphthalene-d10
Concen: 0.362 ng
RT: 11.969 min Scan# 1174
Delta R.T. -0.000 min
Lab File: BN034747.D
Acq: 30 Oct 2024 15:21

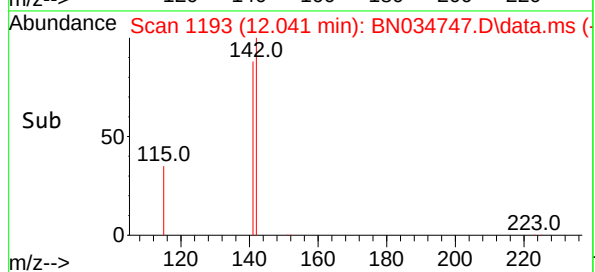
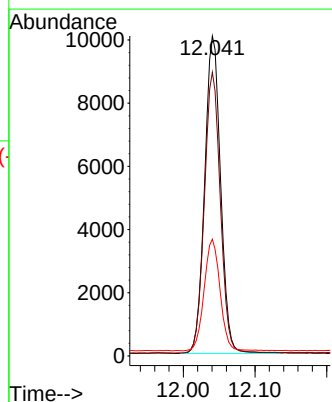
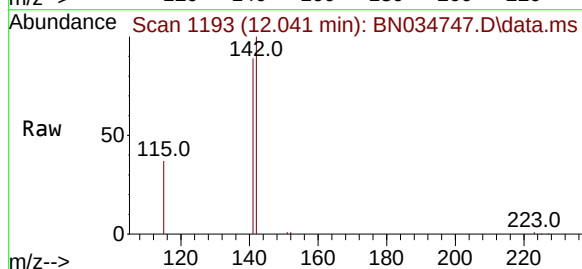
Instrument :
BNA_N
ClientSampleId :
ICVBN103024

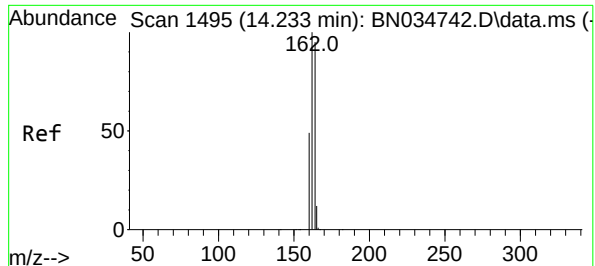
Tgt Ion:152 Resp: 12746
Ion Ratio Lower Upper
152 100
151 20.8 16.6 24.8



#12
2-Methylnaphthalene
Concen: 0.354 ng
RT: 12.041 min Scan# 1193
Delta R.T. -0.004 min
Lab File: BN034747.D
Acq: 30 Oct 2024 15:21

Tgt Ion:142 Resp: 15573
Ion Ratio Lower Upper
142 100
141 88.7 70.6 106.0
115 36.5 28.6 42.8

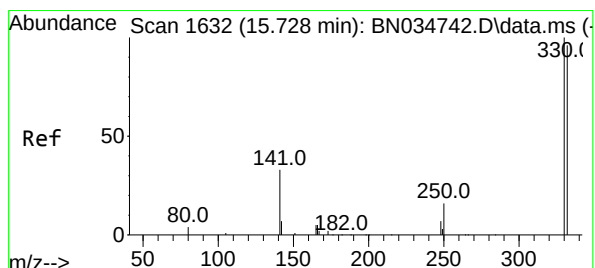
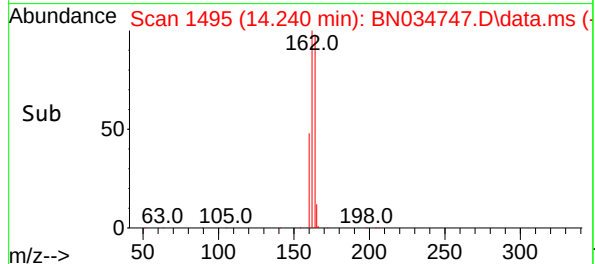
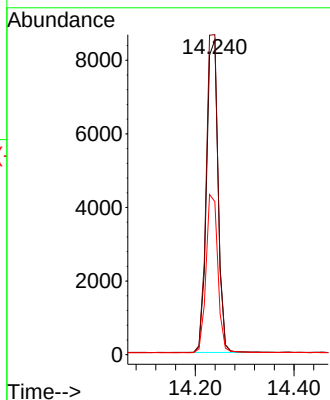
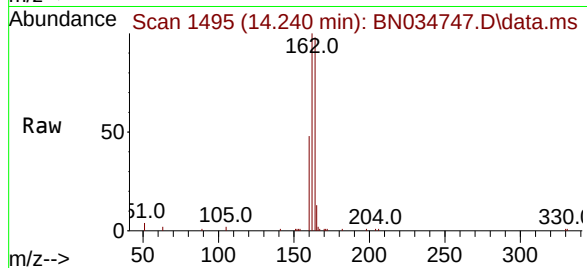




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.240 min Scan# 1495
Delta R.T. 0.007 min
Lab File: BN034747.D
Acq: 30 Oct 2024 15:21

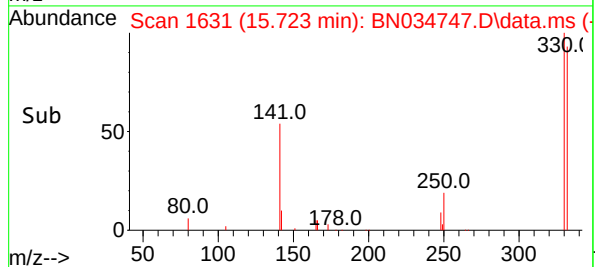
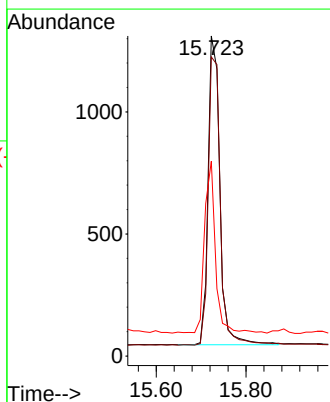
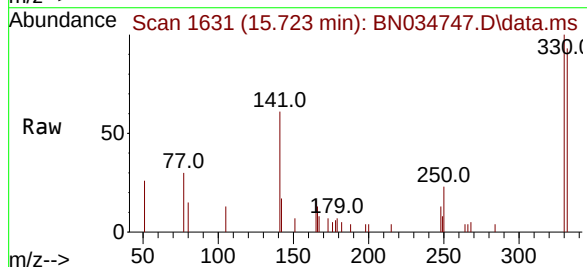
Instrument :
BNA_N
ClientSampleId :
ICVBN103024

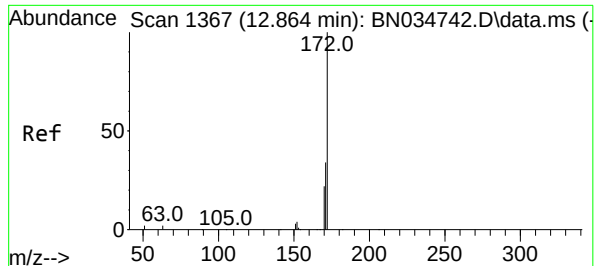
Tgt Ion:164 Resp: 13847
Ion Ratio Lower Upper
164 100
162 101.7 84.3 126.5
160 48.6 41.7 62.5



#14
2,4,6-Tribromophenol
Concen: 0.336 ng
RT: 15.723 min Scan# 1631
Delta R.T. -0.006 min
Lab File: BN034747.D
Acq: 30 Oct 2024 15:21

Tgt Ion:330 Resp: 2296
Ion Ratio Lower Upper
330 100
332 96.6 77.8 116.6
141 51.8 41.0 61.4





#15

2-Fluorobiphenyl

Concen: 0.342 ng

RT: 12.860 min Scan# 1367

Delta R.T. -0.004 min

Lab File: BN034747.D

Acq: 30 Oct 2024 15:21

Instrument :

BNA_N

ClientSampleId :

ICVBN103024

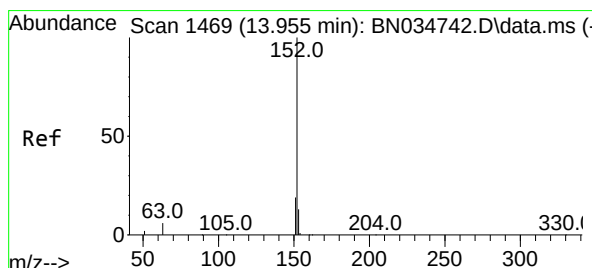
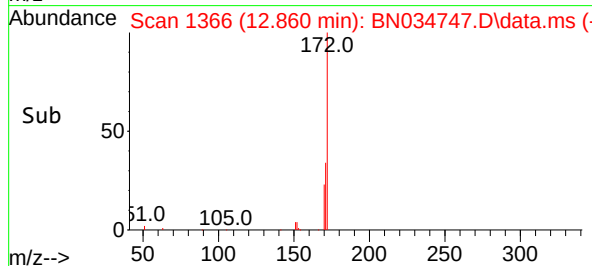
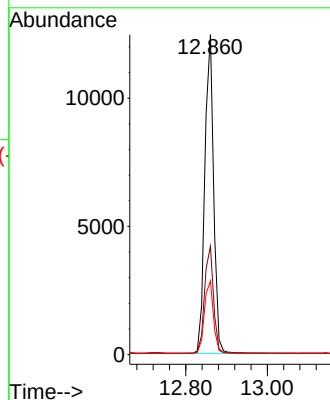
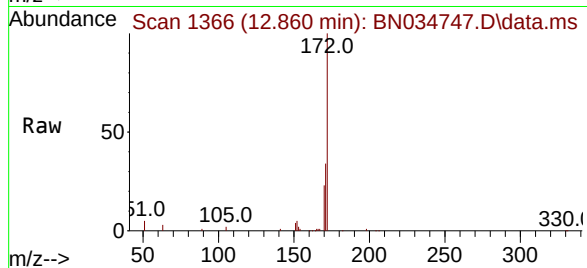
Tgt Ion:172 Resp: 18636

Ion Ratio Lower Upper

172 100

171 33.9 27.2 40.8

170 23.1 18.0 27.0



#16

Acenaphthylene

Concen: 0.326 ng

RT: 13.951 min Scan# 1468

Delta R.T. -0.004 min

Lab File: BN034747.D

Acq: 30 Oct 2024 15:21

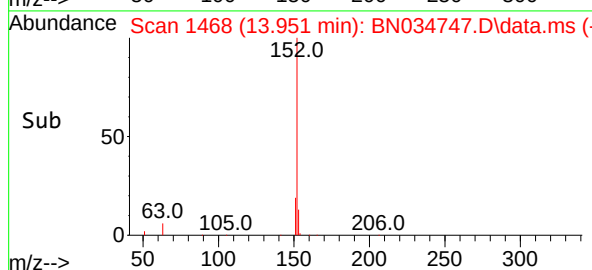
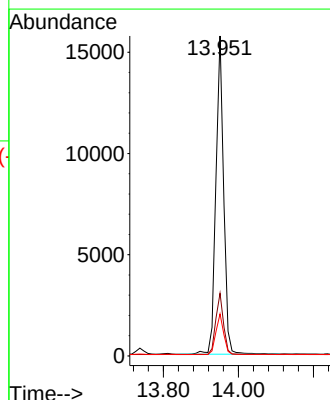
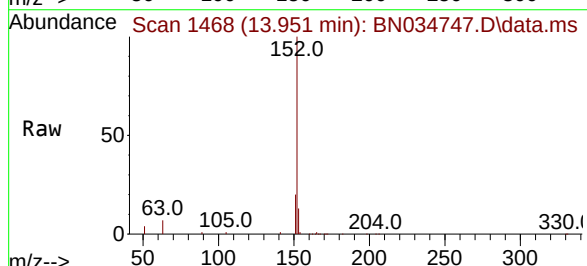
Tgt Ion:152 Resp: 22661

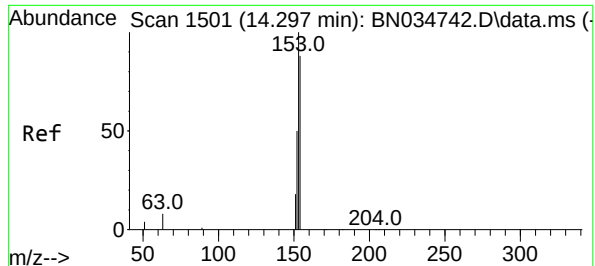
Ion Ratio Lower Upper

152 100

151 19.3 15.4 23.2

153 12.9 10.2 15.4





#17

Acenaphthene

Concen: 0.336 ng

RT: 14.293 min Scan# 1500

Delta R.T. -0.004 min

Lab File: BN034747.D

Acq: 30 Oct 2024 15:21

Instrument :

BNA_N

ClientSampleId :

ICVBN103024

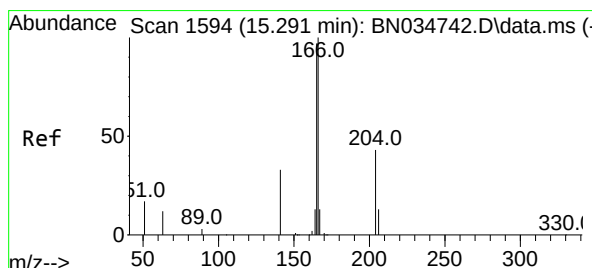
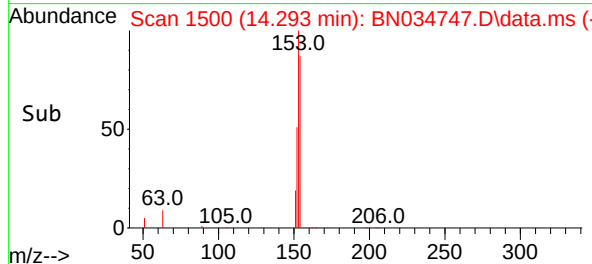
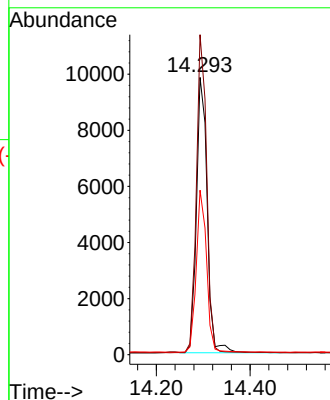
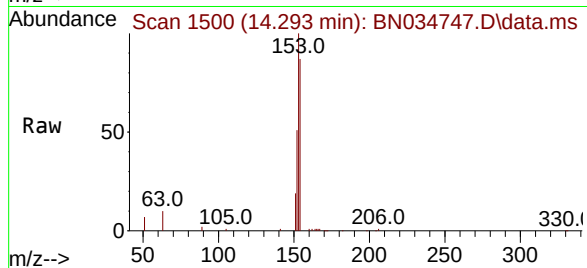
Tgt Ion:154 Resp: 15571

Ion Ratio Lower Upper

154 100

153 110.8 87.8 131.6

152 56.4 44.6 67.0



#18

Fluorene

Concen: 0.341 ng

RT: 15.287 min Scan# 1593

Delta R.T. -0.004 min

Lab File: BN034747.D

Acq: 30 Oct 2024 15:21

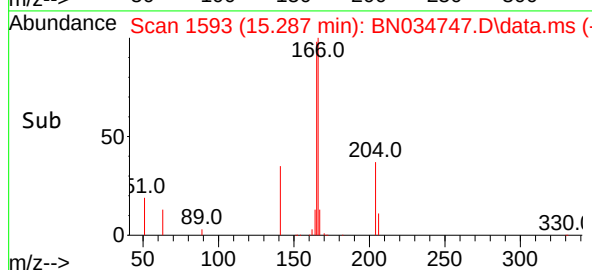
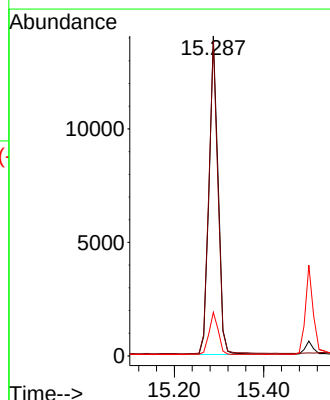
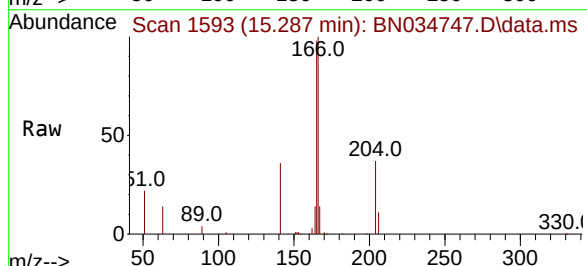
Tgt Ion:166 Resp: 19700

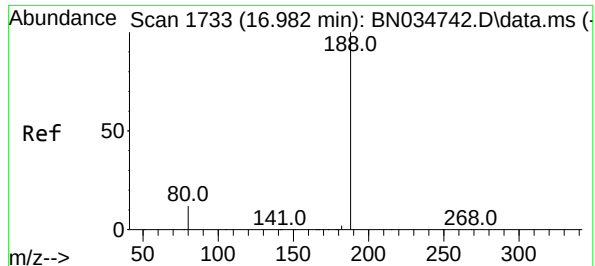
Ion Ratio Lower Upper

166 100

165 98.3 78.5 117.7

167 13.4 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.976 min Scan# 11

Delta R.T. -0.006 min

Lab File: BN034747.D

Acq: 30 Oct 2024 15:21

Instrument :

BNA_N

ClientSampleId :

ICVBN103024

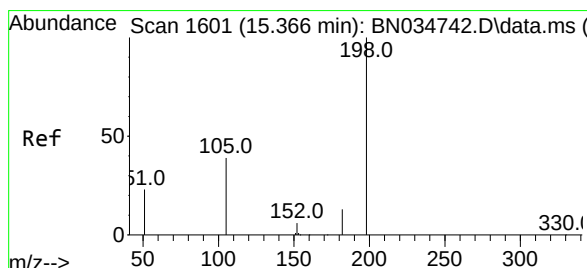
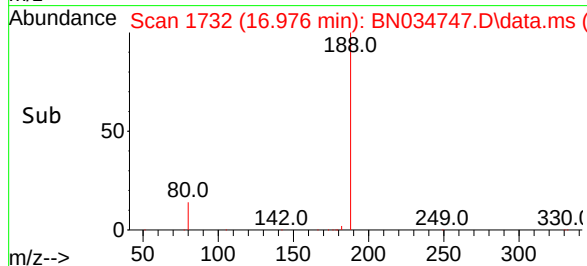
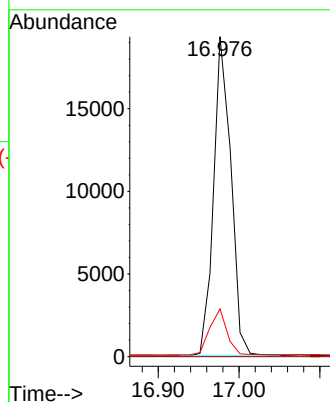
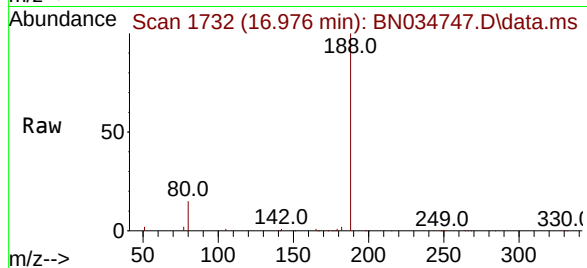
Tgt Ion:188 Resp: 28842

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 14.9 9.8 14.6#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.396 ng

RT: 15.362 min Scan# 1600

Delta R.T. -0.004 min

Lab File: BN034747.D

Acq: 30 Oct 2024 15:21

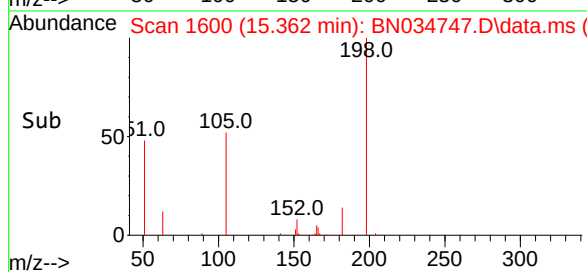
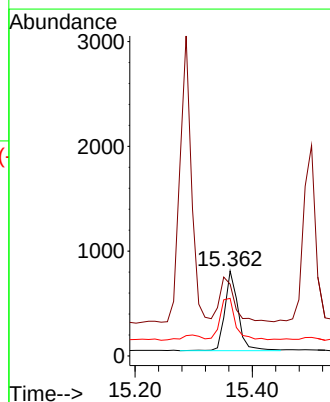
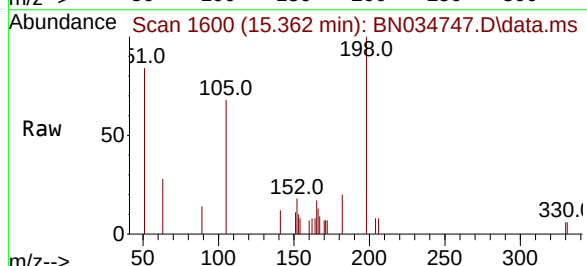
Tgt Ion:198 Resp: 1194

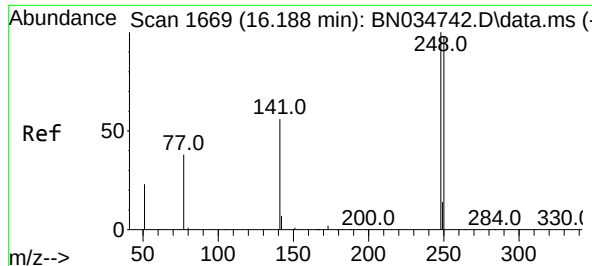
Ion Ratio Lower Upper

198 100

51 84.5 58.0 87.0

105 67.7 49.1 73.7





#21

4-Bromophenyl-phenylether

Concen: 0.348 ng

RT: 16.182 min Scan# 1668

Delta R.T. -0.006 min

Lab File: BN034747.D

Acq: 30 Oct 2024 15:21

Instrument :

BNA_N

ClientSampleId :

ICVBN103024

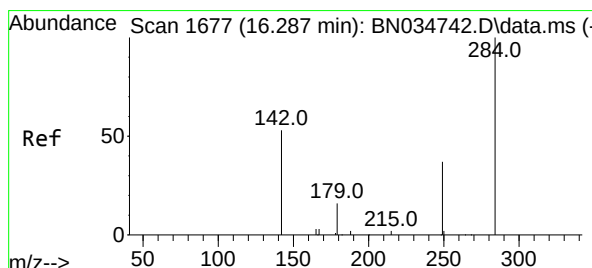
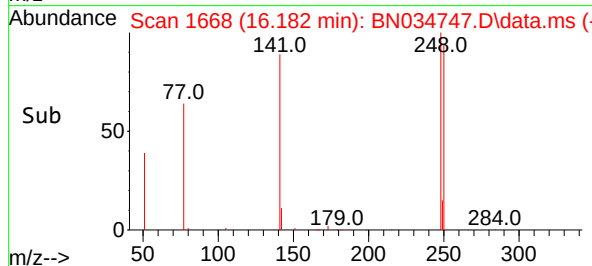
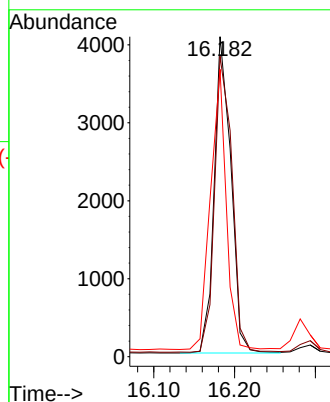
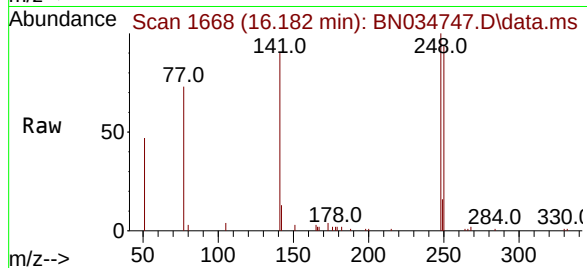
Tgt Ion:248 Resp: 5801

Ion Ratio Lower Upper

248 100

250 93.9 78.7 118.1

141 89.8 46.4 69.6#



#22

Hexachlorobenzene

Concen: 0.356 ng

RT: 16.294 min Scan# 1677

Delta R.T. 0.007 min

Lab File: BN034747.D

Acq: 30 Oct 2024 15:21

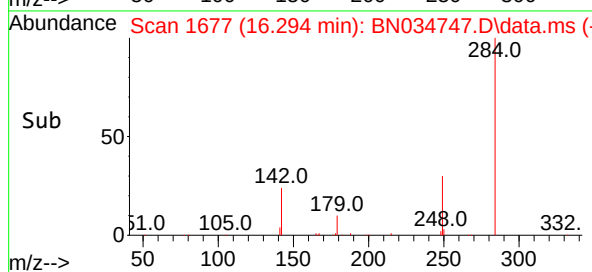
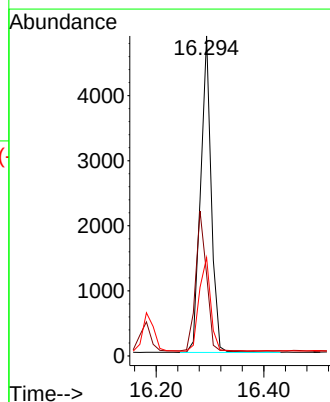
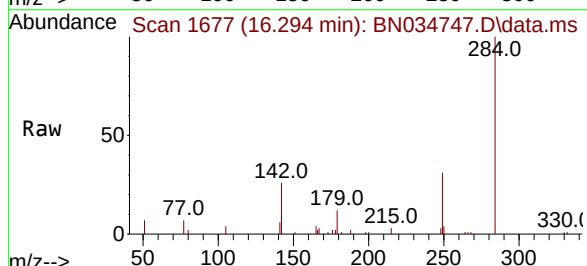
Tgt Ion:284 Resp: 6660

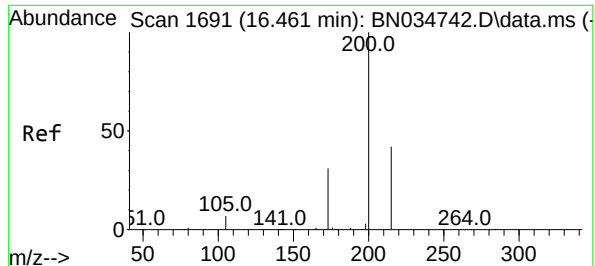
Ion Ratio Lower Upper

284 100

142 45.6 35.4 53.0

249 32.0 25.7 38.5

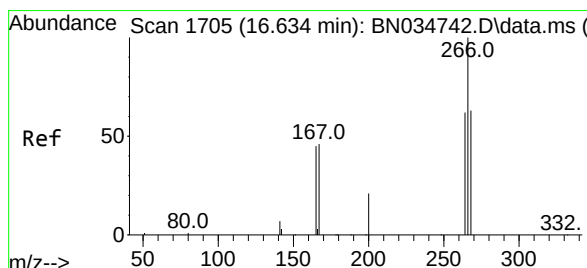
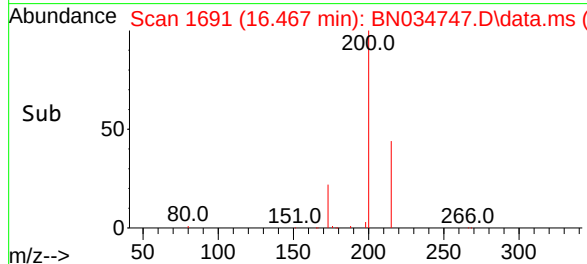
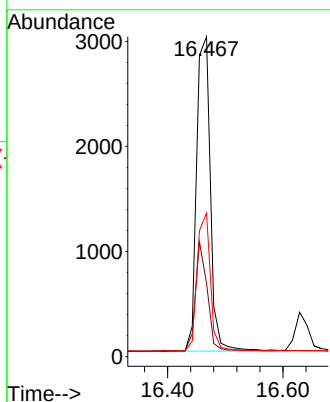
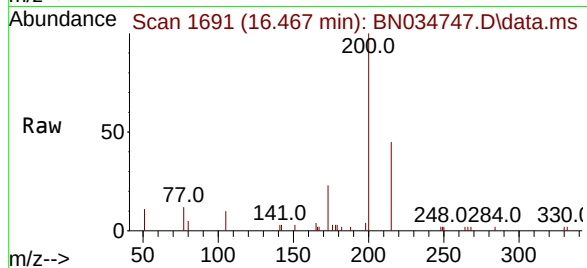




#23
Atrazine
Concen: 0.347 ng
RT: 16.467 min Scan# 1
Delta R.T. 0.007 min
Lab File: BN034747.D
Acq: 30 Oct 2024 15:21

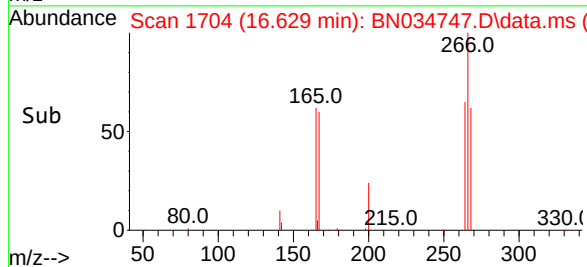
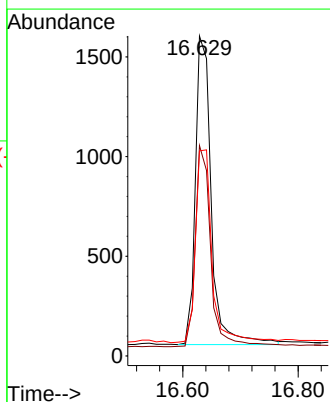
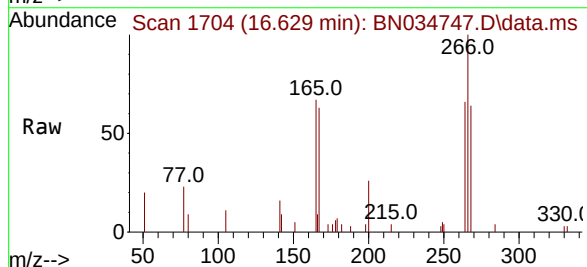
Instrument :
BNA_N
ClientSampleId :
ICVBN103024

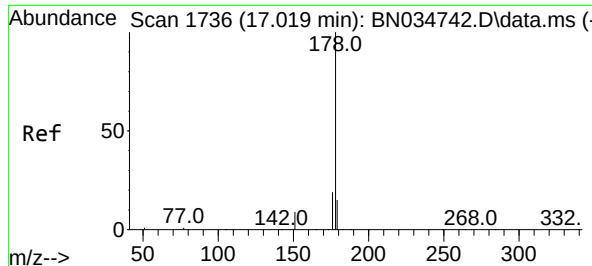
Tgt Ion:200 Resp: 4984
Ion Ratio Lower Upper
200 100
173 23.0 25.8 38.6#
215 44.9 34.2 51.4



#24
Pentachlorophenol
Concen: 0.369 ng
RT: 16.629 min Scan# 1704
Delta R.T. -0.005 min
Lab File: BN034747.D
Acq: 30 Oct 2024 15:21

Tgt Ion:266 Resp: 2972
Ion Ratio Lower Upper
266 100
264 63.0 48.7 73.1
268 65.2 50.2 75.4

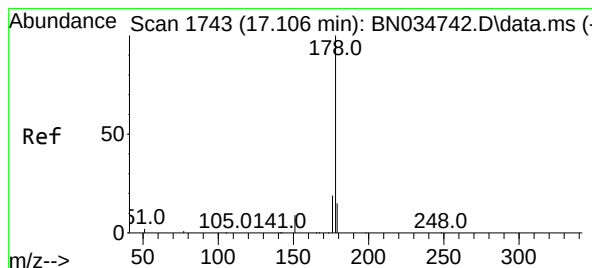
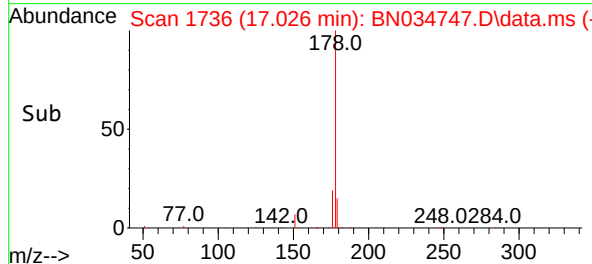
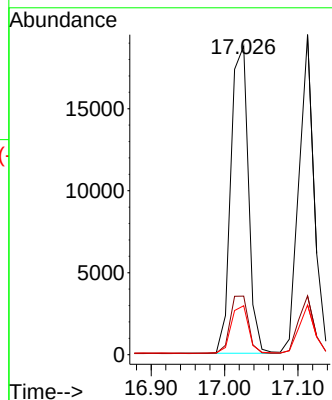
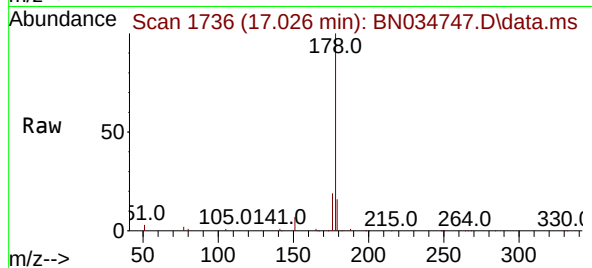




#25
Phenanthrene
Concen: 0.367 ng
RT: 17.026 min Scan# 1736
Delta R.T. 0.007 min
Lab File: BN034747.D
Acq: 30 Oct 2024 15:21

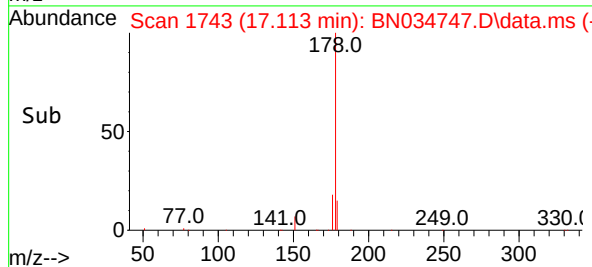
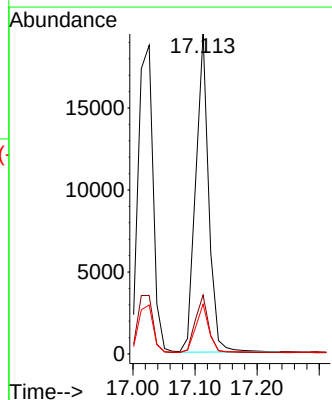
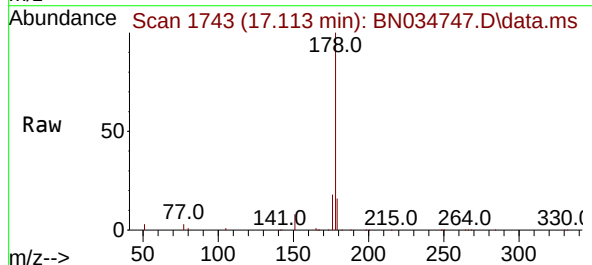
Instrument :
BNA_N
ClientSampleId :
ICVBN103024

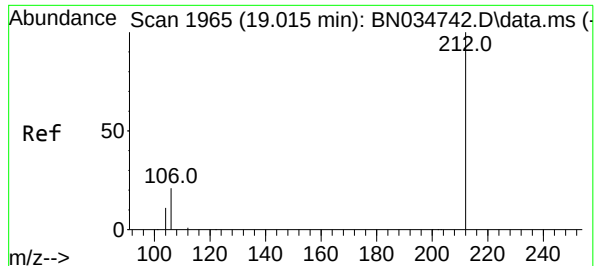
Tgt Ion:178 Resp: 31124
Ion Ratio Lower Upper
178 100
176 19.4 15.4 23.0
179 15.2 12.2 18.4



#26
Anthracene
Concen: 0.354 ng
RT: 17.113 min Scan# 1743
Delta R.T. 0.007 min
Lab File: BN034747.D
Acq: 30 Oct 2024 15:21

Tgt Ion:178 Resp: 28137
Ion Ratio Lower Upper
178 100
176 18.7 15.0 22.6
179 15.1 12.2 18.2





#27

Fluoranthene-d10

Concen: 0.380 ng

RT: 19.017 min Scan# 1965

Delta R.T. 0.002 min

Lab File: BN034747.D

Acq: 30 Oct 2024 15:21

Instrument :

BNA_N

ClientSampleId :

ICVBN103024

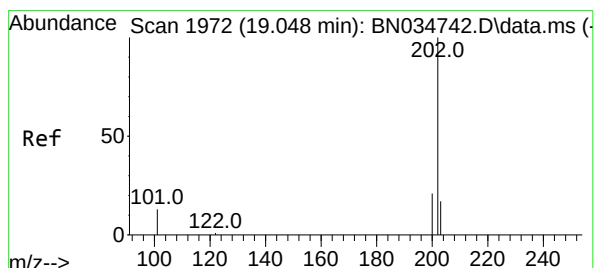
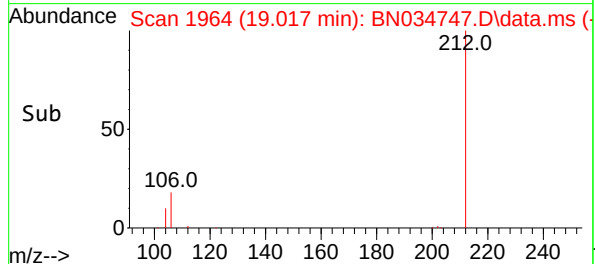
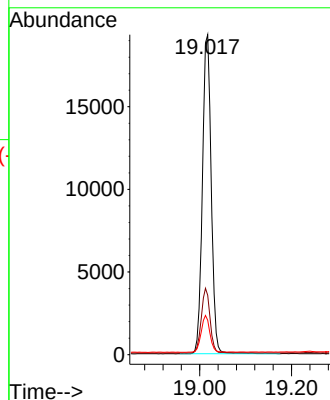
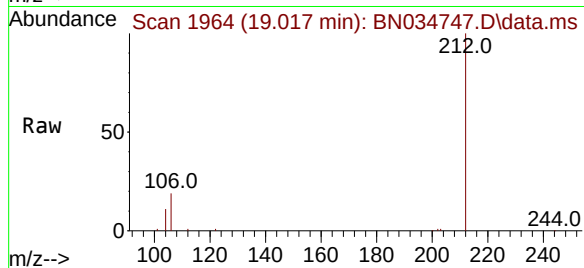
Tgt Ion:212 Resp: 25699

Ion Ratio Lower Upper

212 100

106 20.0 16.1 24.1

104 11.4 9.2 13.8



#28

Fluoranthene

Concen: 0.373 ng

RT: 19.045 min Scan# 1970

Delta R.T. -0.003 min

Lab File: BN034747.D

Acq: 30 Oct 2024 15:21

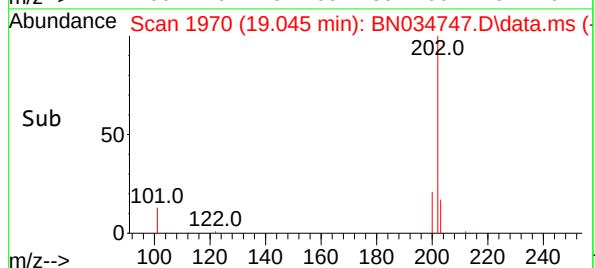
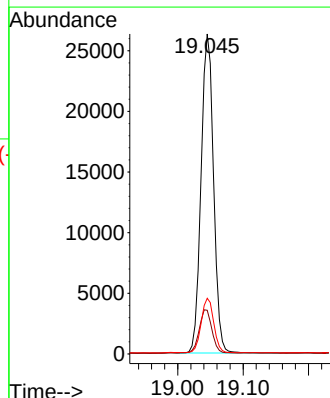
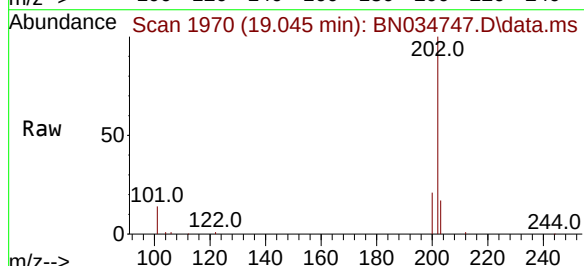
Tgt Ion:202 Resp: 34832

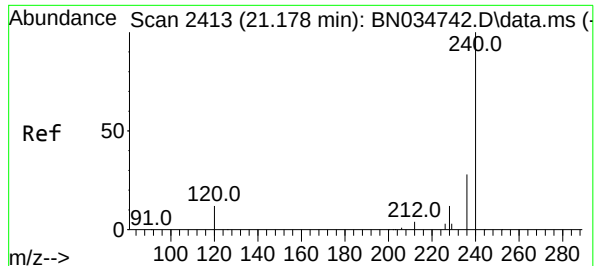
Ion Ratio Lower Upper

202 100

101 14.0 11.4 17.0

203 17.2 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.176 min Scan# 2411

Delta R.T. -0.003 min

Lab File: BN034747.D

Acq: 30 Oct 2024 15:21

Instrument :

BNA_N

ClientSampleId :

ICVBN103024

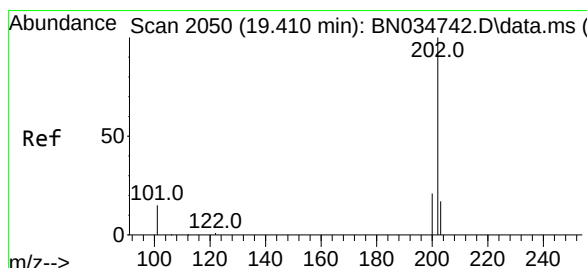
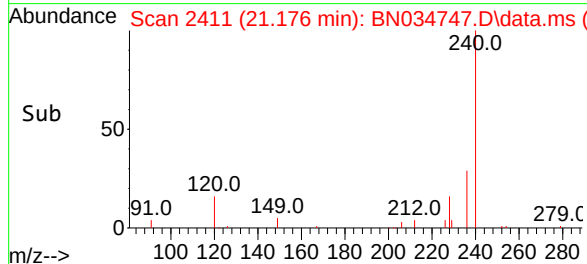
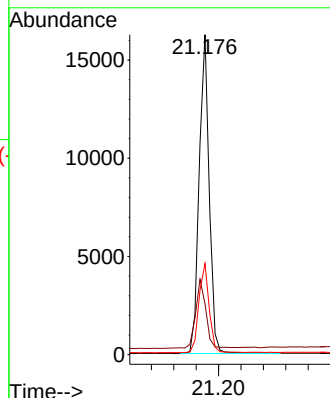
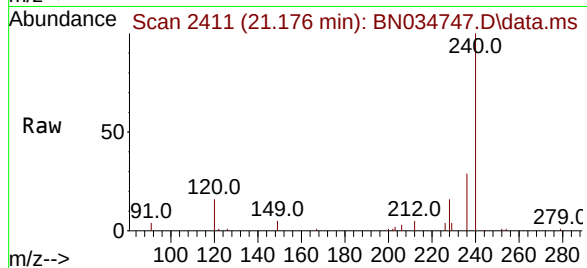
Tgt Ion:240 Resp: 20211

Ion Ratio Lower Upper

240 100

120 15.9 11.5 17.3

236 28.5 23.2 34.8



#30

Pyrene

Concen: 0.341 ng

RT: 19.407 min Scan# 2048

Delta R.T. -0.003 min

Lab File: BN034747.D

Acq: 30 Oct 2024 15:21

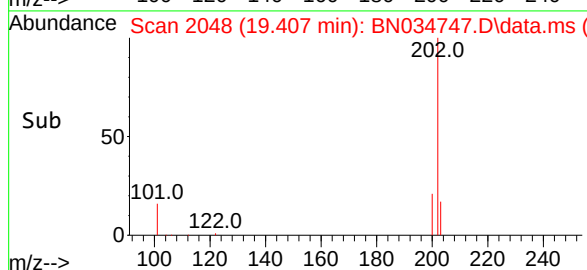
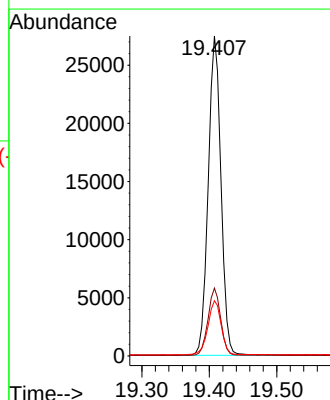
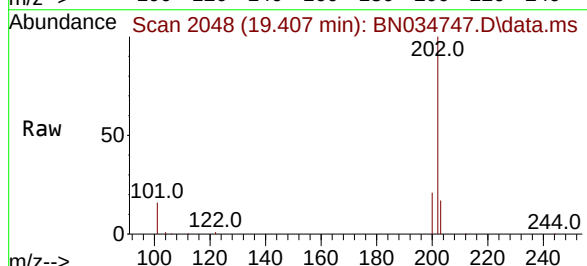
Tgt Ion:202 Resp: 36026

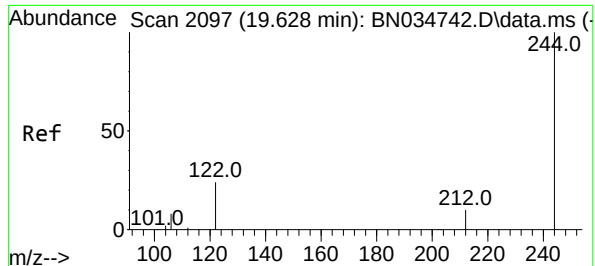
Ion Ratio Lower Upper

202 100

200 20.9 17.0 25.4

203 17.6 14.2 21.2

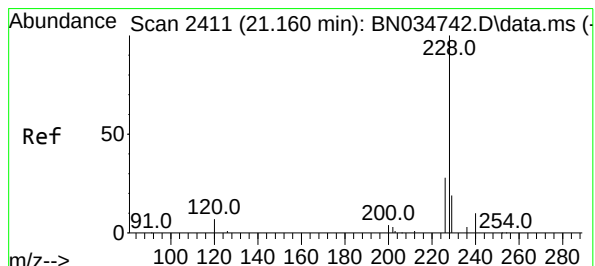
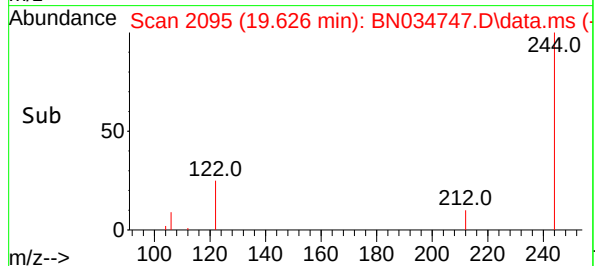
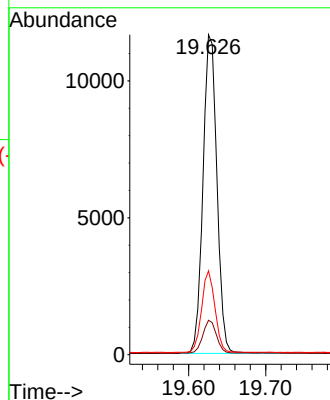
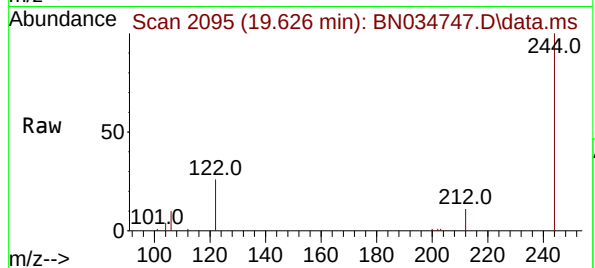




#31
Terphenyl-d14
Concen: 0.337 ng
RT: 19.626 min Scan# 2097
Delta R.T. -0.003 min
Lab File: BN034747.D
Acq: 30 Oct 2024 15:21

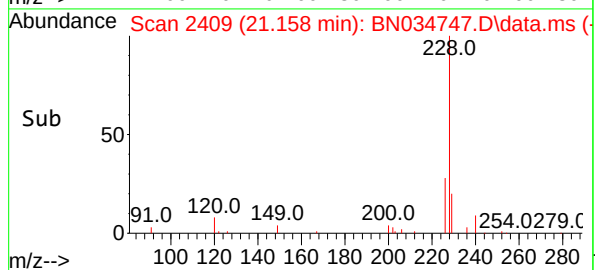
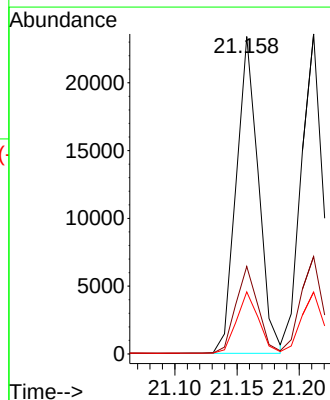
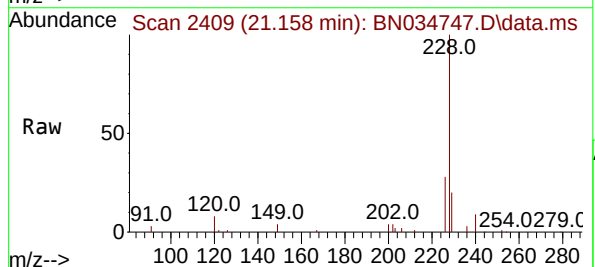
Instrument :
BNA_N
ClientSampleId :
ICVBN103024

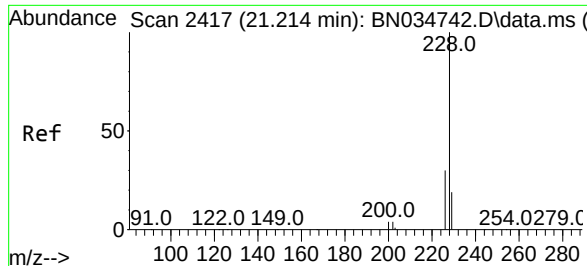
Tgt Ion:244 Resp: 14610
Ion Ratio Lower Upper
244 100
212 10.7 8.2 12.4
122 26.2 19.8 29.6



#32
Benzo(a)anthracene
Concen: 0.358 ng
RT: 21.158 min Scan# 2409
Delta R.T. -0.003 min
Lab File: BN034747.D
Acq: 30 Oct 2024 15:21

Tgt Ion:228 Resp: 28785
Ion Ratio Lower Upper
228 100
226 27.6 22.6 33.8
229 19.6 15.7 23.5





#33

Chrysene

Concen: 0.366 ng

RT: 21.212 min Scan# 2417

Delta R.T. -0.003 min

Lab File: BN034747.D

Acq: 30 Oct 2024 15:21

Instrument :

BNA_N

ClientSampleId :

ICVBN103024

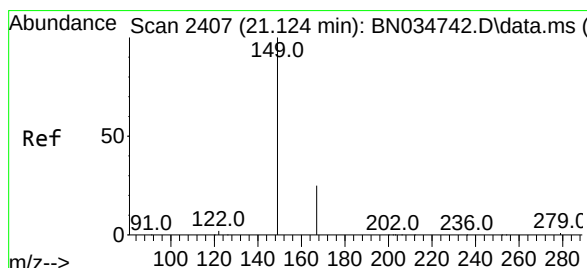
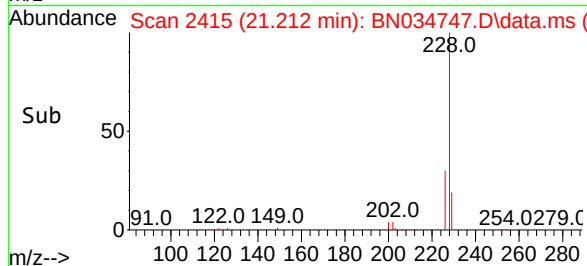
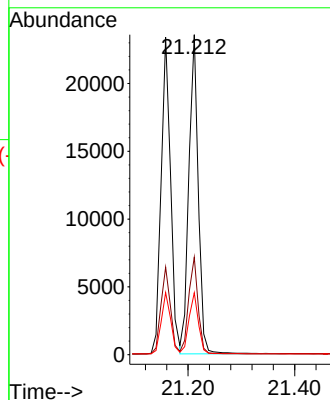
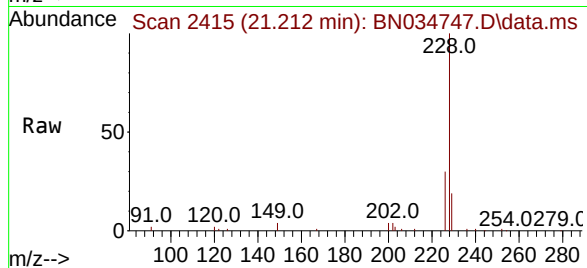
Tgt Ion:228 Resp: 28844

Ion Ratio Lower Upper

228 100

226 30.5 24.4 36.6

229 19.4 15.6 23.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.391 ng

RT: 21.122 min Scan# 2405

Delta R.T. -0.003 min

Lab File: BN034747.D

Acq: 30 Oct 2024 15:21

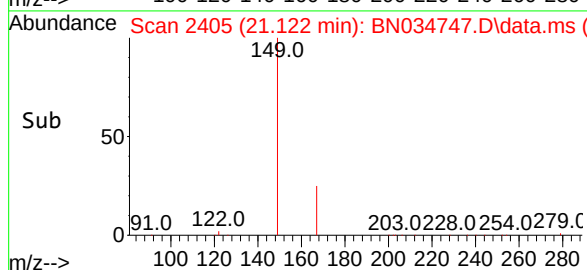
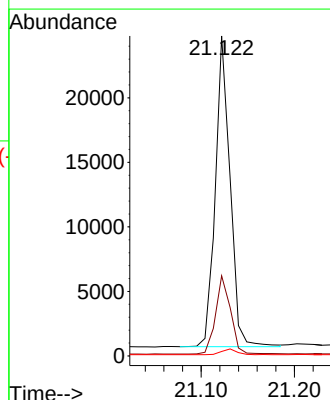
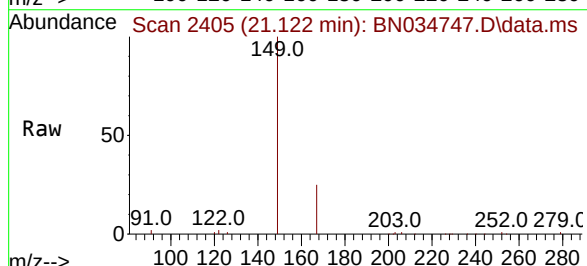
Tgt Ion:149 Resp: 26293

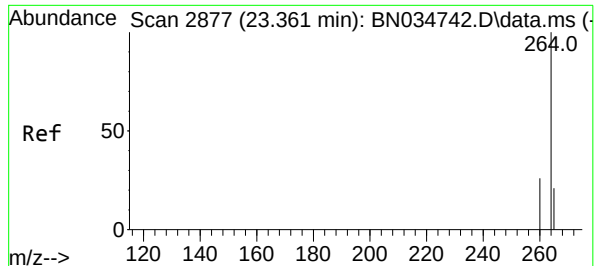
Ion Ratio Lower Upper

149 100

167 25.7 20.6 30.8

279 1.9 1.5 2.3





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.362 min Scan# 21

Delta R.T. 0.001 min

Lab File: BN034747.D

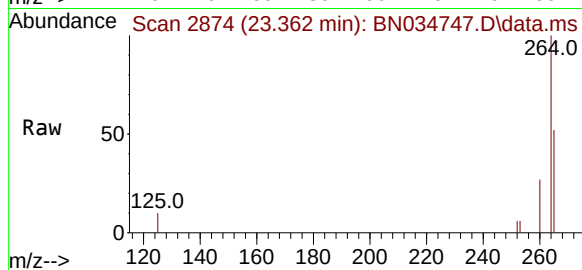
Acq: 30 Oct 2024 15:21

Instrument :

BNA_N

ClientSampleId :

ICVBN103024



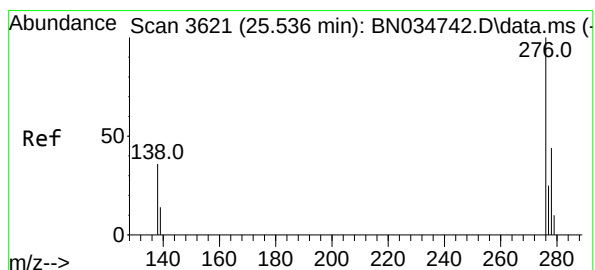
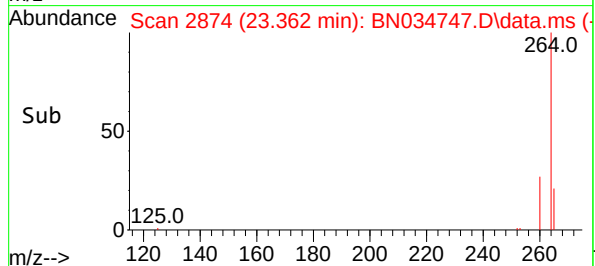
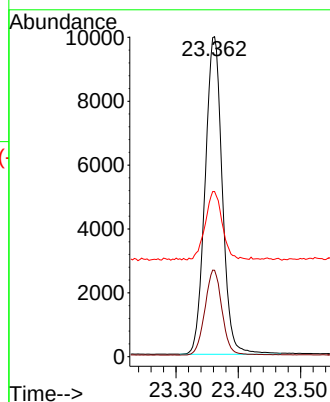
Tgt Ion:264 Resp: 19052

Ion Ratio Lower Upper

264 100

260 27.0 21.5 32.3

265 51.6 47.5 71.3



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.344 ng

RT: 25.537 min Scan# 3618

Delta R.T. 0.001 min

Lab File: BN034747.D

Acq: 30 Oct 2024 15:21

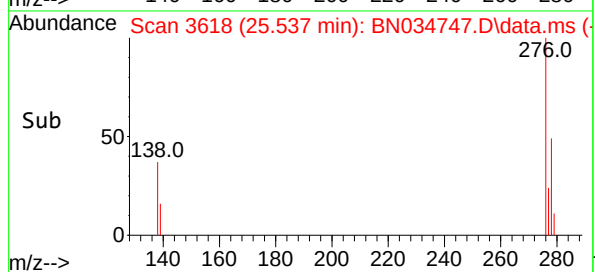
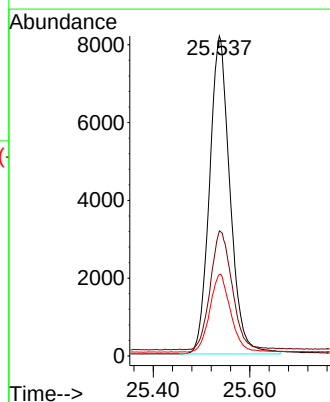
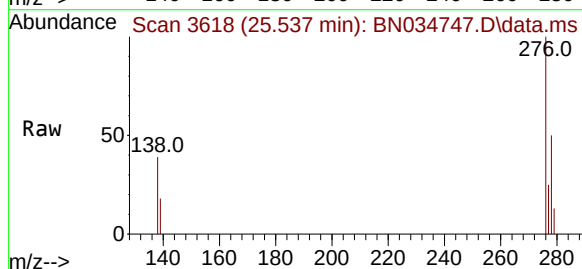
Tgt Ion:276 Resp: 24079

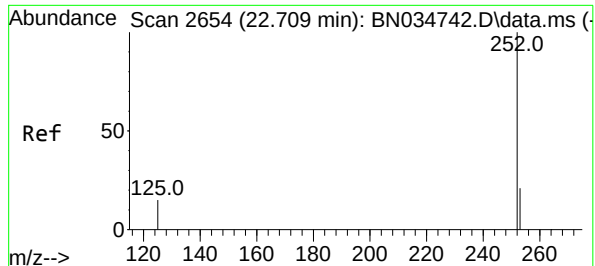
Ion Ratio Lower Upper

276 100

138 39.6 31.5 47.3

277 24.7 19.7 29.5





#37

Benzo(b)fluoranthene

Concen: 0.354 ng

RT: 22.710 min Scan# 2

Delta R.T. 0.001 min

Lab File: BN034747.D

Acq: 30 Oct 2024 15:21

Instrument :

BNA_N

ClientSampleId :

ICVBN103024

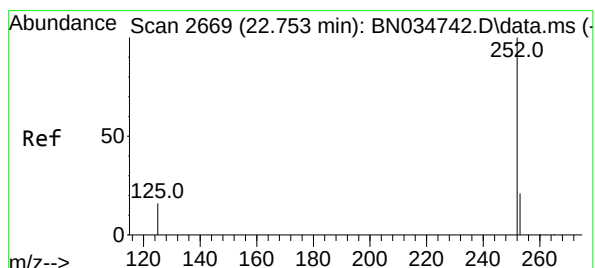
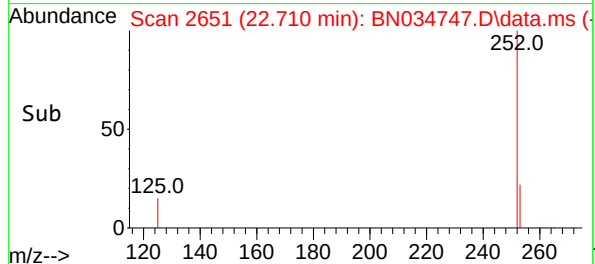
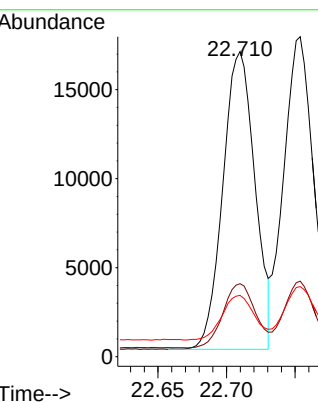
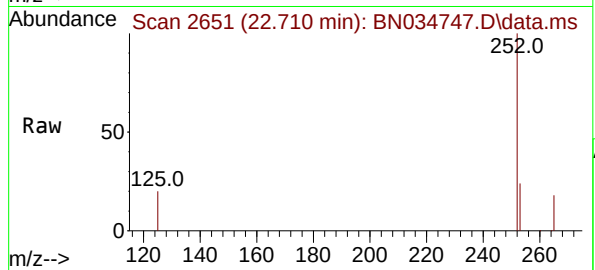
Tgt Ion:252 Resp: 27161

Ion Ratio Lower Upper

252 100

253 23.9 19.7 29.5

125 20.1 17.1 25.7



#38

Benzo(k)fluoranthene

Concen: 0.362 ng

RT: 22.754 min Scan# 2666

Delta R.T. 0.001 min

Lab File: BN034747.D

Acq: 30 Oct 2024 15:21

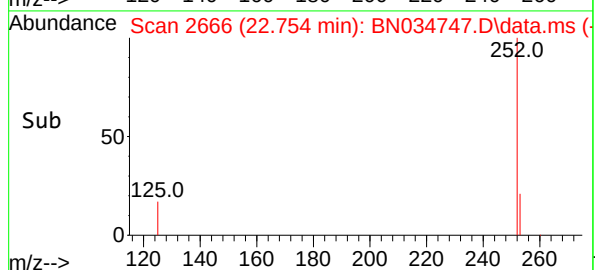
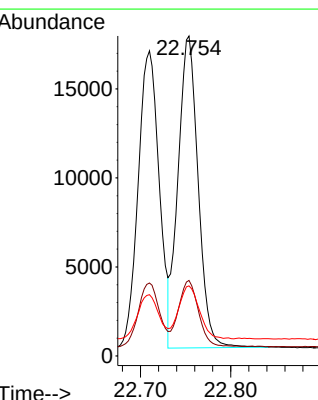
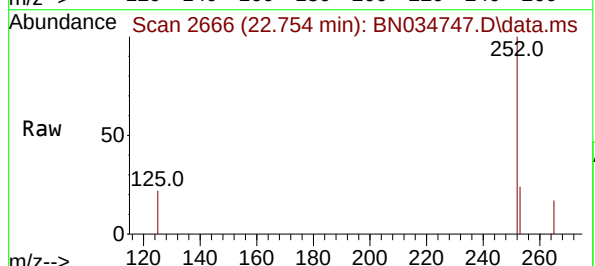
Tgt Ion:252 Resp: 27081

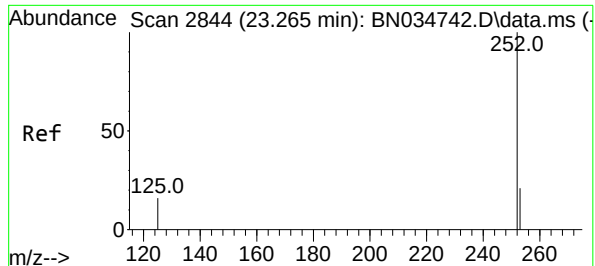
Ion Ratio Lower Upper

252 100

253 23.6 19.8 29.6

125 21.9 18.2 27.2





#39

Benzo(a)pyrene

Concen: 0.352 ng

RT: 23.262 min Scan# 21

Delta R.T. -0.002 min

Lab File: BN034747.D

Acq: 30 Oct 2024 15:21

Instrument :

BNA_N

ClientSampleId :

ICVBN103024

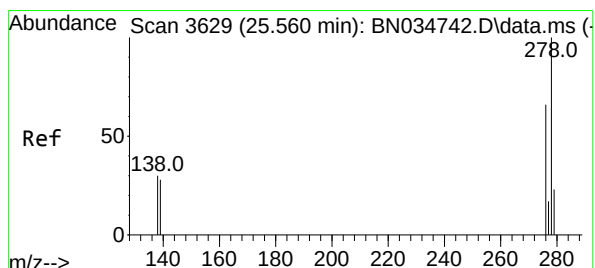
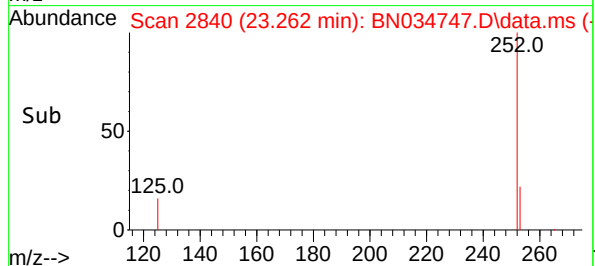
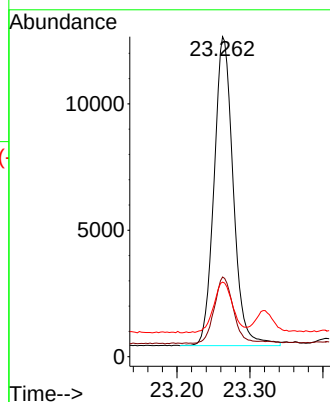
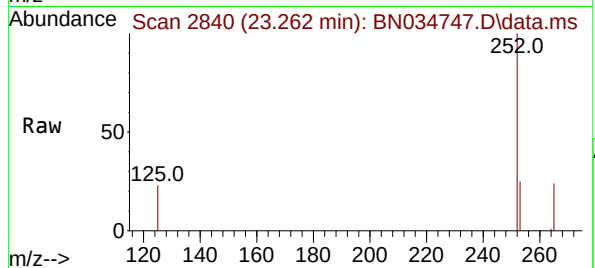
Tgt Ion:252 Resp: 22298

Ion Ratio Lower Upper

252 100

253 24.9 20.7 31.1

125 23.3 20.3 30.5



#40

Dibenzo(a,h)anthracene

Concen: 0.343 ng

RT: 25.558 min Scan# 3625

Delta R.T. -0.002 min

Lab File: BN034747.D

Acq: 30 Oct 2024 15:21

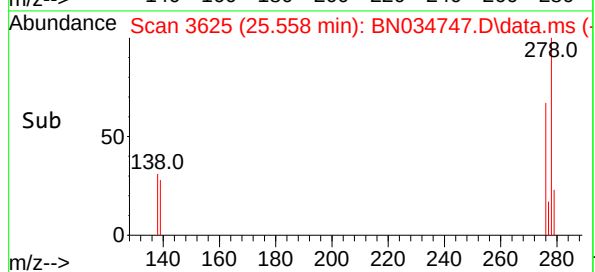
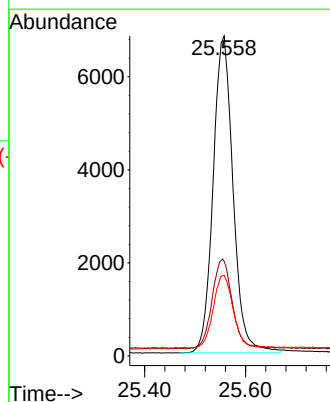
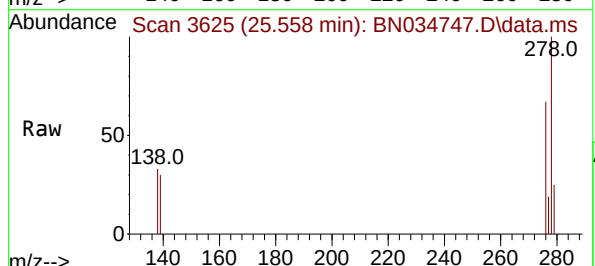
Tgt Ion:278 Resp: 18731

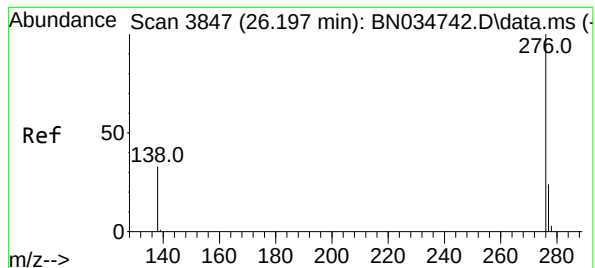
Ion Ratio Lower Upper

278 100

139 29.6 24.9 37.3

279 25.2 21.0 31.4





#41

Benzo(g,h,i)perylene

Concen: 0.343 ng

RT: 26.195 min Scan# 3843

Delta R.T. -0.002 min

Lab File: BN034747.D

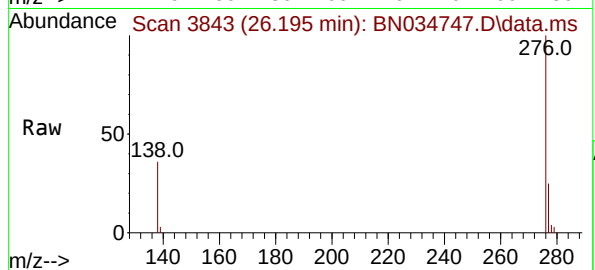
Acq: 30 Oct 2024 15:21

Instrument :

BNA_N

ClientSampleId :

ICVBN103024



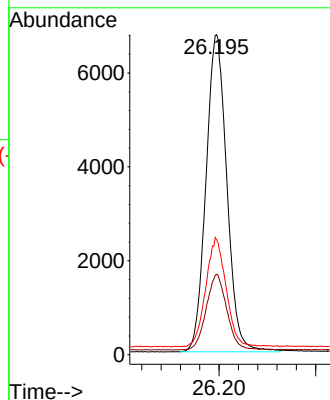
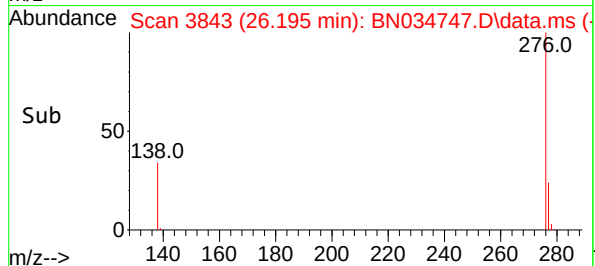
Tgt Ion:276 Resp: 20248

Ion Ratio Lower Upper

276 100

277 25.1 20.2 30.2

138 36.0 28.7 43.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN103024\
Data File : BN034747.D
Acq On : 30 Oct 2024 15:21
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN103024

Quant Time: Oct 30 15:57:34 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 30 13:28:24 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	100	0.00
2	1,4-Dioxane	0.439	0.405	7.7	99	0.00
3	n-Nitrosodimethylamine	0.494	0.473	4.3	108	0.00
4 S	2-Fluorophenol	1.212	1.239	-2.2	113	0.00
5 S	Phenol-d6	1.574	1.592	-1.1	113	0.00
6	bis(2-Chloroethyl)ether	1.149	1.056	8.1	100	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	101	0.00
8 S	Nitrobenzene-d5	0.314	0.267	15.0	97	0.00
9	Naphthalene	1.106	0.986	10.8	100	-0.01
10	Hexachlorobutadiene	0.182	0.163	10.4	100	-0.01
11 SURR	2-Methylnaphthalene-d10	0.579	0.524	9.5	102	0.00
12	2-Methylnaphthalene	0.723	0.640	11.5	99	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	101	0.00
14 S	2,4,6-Tribromophenol	0.198	0.166	16.2	106	0.00
15 S	2-Fluorobiphenyl	1.575	1.346	14.5	100	0.00
16	Acenaphthylene	2.007	1.637	18.4	99	0.00
17	Acenaphthene	1.337	1.125	15.9	100	0.00
18	Fluorene	1.667	1.423	14.6	100	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	103	0.00
20	4,6-Dinitro-2-methylphenol	0.059	0.041	30.5#	96	0.00
21	4-Bromophenyl-phenylether	0.231	0.201	13.0	99	0.00
22	Hexachlorobenzene	0.259	0.231	10.8	100	0.00
23	Atrazine	0.199	0.173	13.1	100	0.00
24	Pentachlorophenol	0.112	0.103	8.0	117	0.00
25	Phenanthrene	1.176	1.079	8.2	104	0.00
26	Anthracene	1.101	0.976	11.4	102	0.00
27 SURR	Fluoranthene-d10	0.938	0.891	5.0	109	0.00
28	Fluoranthene	1.297	1.208	6.9	106	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	117	0.00
30	Pyrene	2.091	1.782	14.8	108	0.00
31 S	Terphenyl-d14	0.859	0.723	15.8	107	0.00
32	Benzo(a)anthracene	1.592	1.424	10.6	118	0.00
33	Chrysene	1.559	1.427	8.5	119	0.00
34	Bis(2-ethylhexyl)phthalate	1.331	1.301	2.3	118	0.00
35 I	Perylene-d12	1.000	1.000	0.0	130	0.00
36	Indeno(1,2,3-cd)pyrene	1.471	1.264	14.1	123	0.00
37	Benzo(b)fluoranthene	1.610	1.426	11.4	128	0.00
38	Benzo(k)fluoranthene	1.571	1.421	9.5	132	0.00
39 C	Benzo(a)pyrene	1.329	1.170	12.0	129	0.00
40	Dibenzo(a,h)anthracene	1.147	0.983	14.3	123	0.00
41	Benzo(g,h,i)perylene	1.240	1.063	14.3	121	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN103024\
Data File : BN034747.D
Acq On : 30 Oct 2024 15:21
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN103024

Quant Time: Oct 30 15:57:34 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 30 13:28:24 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	100	0.00
2	1,4-Dioxane	0.400	0.370	7.5	99	0.00
3	n-Nitrosodimethylamine	0.400	0.382	4.5	108	0.00
4 S	2-Fluorophenol	0.400	0.409	-2.2	113	0.00
5 S	Phenol-d6	0.400	0.404	-1.0	113	0.00
6	bis(2-Chloroethyl)ether	0.400	0.368	8.0	100	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	101	0.00
8 S	Nitrobenzene-d5	0.400	0.340	15.0	97	0.00
9	Naphthalene	0.400	0.356	11.0	100	-0.01
10	Hexachlorobutadiene	0.400	0.357	10.8	100	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.362	9.5	102	0.00
12	2-Methylnaphthalene	0.400	0.354	11.5	99	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	101	0.00
14 S	2,4,6-Tribromophenol	0.400	0.336	16.0	106	0.00
15 S	2-Fluorobiphenyl	0.400	0.342	14.5	100	0.00
16	Acenaphthylene	0.400	0.326	18.5	99	0.00
17	Acenaphthene	0.400	0.336	16.0	100	0.00
18	Fluorene	0.400	0.341	14.8	100	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	103	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.396	1.0	96	0.00
21	4-Bromophenyl-phenylether	0.400	0.348	13.0	99	0.00
22	Hexachlorobenzene	0.400	0.356	11.0	100	0.00
23	Atrazine	0.400	0.347	13.3	100	0.00
24	Pentachlorophenol	0.400	0.369	7.8	117	0.00
25	Phenanthrene	0.400	0.367	8.3	104	0.00
26	Anthracene	0.400	0.354	11.5	102	0.00
27 SURR	Fluoranthene-d10	0.400	0.380	5.0	109	0.00
28	Fluoranthene	0.400	0.373	6.8	106	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	117	0.00
30	Pyrene	0.400	0.341	14.8	108	0.00
31 S	Terphenyl-d14	0.400	0.337	15.8	107	0.00
32	Benzo(a)anthracene	0.400	0.358	10.5	118	0.00
33	Chrysene	0.400	0.366	8.5	119	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.391	2.3	118	0.00
35 I	Perylene-d12	0.400	0.400	0.0	130	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.344	14.0	123	0.00
37	Benzo(b)fluoranthene	0.400	0.354	11.5	128	0.00
38	Benzo(k)fluoranthene	0.400	0.362	9.5	132	0.00
39 C	Benzo(a)pyrene	0.400	0.352	12.0	129	0.00
40	Dibenzo(a,h)anthracene	0.400	0.343	14.2	123	0.00
41	Benzo(g,h,i)perylene	0.400	0.343	14.2	121	0.00

(#) = Out of Range

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



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P4652 SAS No.: P4652 SDG No.: P4652

Instrument ID: BNA_N Calibration Date/Time: 11/04/2024 10:45

Lab File ID: BN034837.D Init. Calib. Date(s): 10/30/2024 10/30/2024

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 09:20 12:56

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.579	0.509		-12.1	20.0
Fluoranthene-d10	0.938	0.850		-9.4	20.0
2-Fluorophenol	1.212	1.321		9.0	20.0
Phenol-d6	1.574	1.765		12.1	20.0
Nitrobenzene-d5	0.314	0.267		-15.0	20.0
2-Fluorobiphenyl	1.575	1.431		-9.1	20.0
2,4,6-Tribromophenol	0.198	0.184		-7.1	20.0
Terphenyl-d14	0.859	0.704		-18.0	20.0
1,4-Dioxane	0.439	0.380		-13.4	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110424\
 Data File : BN034837.D
 Acq On : 04 Nov 2024 10:45
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 11/05/2024
 Supervised By :mohammad ahmed 11/06/2024

Quant Time: Nov 04 11:21:52 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Oct 30 13:28:24 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.597	152	8324	0.400	ng	0.00
7) Naphthalene-d8	10.362	136	24670	0.400	ng	#-0.01
13) Acenaphthene-d10	14.222	164	13111	0.400	ng	-0.01
19) Phenanthrene-d10	16.970	188	27070	0.400	ng	-0.01
29) Chrysene-d12	21.160	240	17835	0.400	ng	#-0.02
35) Perylene-d12	23.344	264	15548	0.400	ng	-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.213	112	10994	0.436	ng	0.00
5) Phenol-d6	6.773	99	14688	0.448	ng	0.00
8) Nitrobenzene-d5	8.728	82	6575	0.339	ng	-0.01
11) 2-Methylnaphthalene-d10	11.954	152	12567	0.352	ng	-0.02
14) 2,4,6-Tribromophenol	15.716	330	2415	0.373	ng	-0.01
15) 2-Fluorobiphenyl	12.843	172	18757	0.363	ng	-0.02
27) Fluoranthene-d10	19.006	212	23015	0.362	ng	0.00
31) Terphenyl-d14	19.614	244	12555	0.328	ng	-0.01
Target Compounds						
2) 1,4-Dioxane	3.198	88	3166	0.347	ng	92
3) n-Nitrosodimethylamine	3.502	42	4032	0.392	ng	# 89
6) bis(2-Chloroethyl)ether	7.026	93	9017	0.377	ng	98
9) Naphthalene	10.404	128	24838	0.364	ng	100
10) Hexachlorobutadiene	10.703	225	4204	0.374	ng	# 99
12) 2-Methylnaphthalene	12.026	142	15806	0.354	ng	99
16) Acenaphthylene	13.933	152	21430	0.326	ng	100
17) Acenaphthene	14.286	154	15095	0.344	ng	98
18) Fluorene	15.281	166	19063	0.349	ng	100
20) 4,6-Dinitro-2-methylph...	15.355	198	943	0.362	ng	87
21) 4-Bromophenyl-phenylether	16.175	248	5421	0.346	ng	96
22) Hexachlorobenzene	16.275	284	6598	0.376	ng	97
23) Atrazine	16.448	200	6167	0.457	ng	99
24) Pentachlorophenol	16.622	266	2534	0.336	ng	98
25) Phenanthrene	17.007	178	29558	0.371	ng	100
26) Anthracene	17.094	178	25840	0.347	ng	100
28) Fluoranthene	19.034	202	32410	0.369	ng	99
30) Pyrene	19.396	202	33058	0.355	ng	100
32) Benzo(a)anthracene	21.142	228	24572	0.346	ng	99
33) Chrysene	21.196	228	26217	0.377	ng	99
34) Bis(2-ethylhexyl)phtha...	21.107	149	19564m	0.330	ng	
36) Indeno(1,2,3-cd)pyrene	25.513	276	22092	0.386	ng	96
37) Benzo(b)fluoranthene	22.692	252	23215	0.371	ng	99
38) Benzo(k)fluoranthene	22.736	252	23241	0.381	ng	97
39) Benzo(a)pyrene	23.247	252	17914	0.347	ng	99
40) Dibenzo(a,h)anthracene	25.525	278	17024	0.382	ng	99
41) Benzo(g,h,i)perylene	26.168	276	18218	0.378	ng	97

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

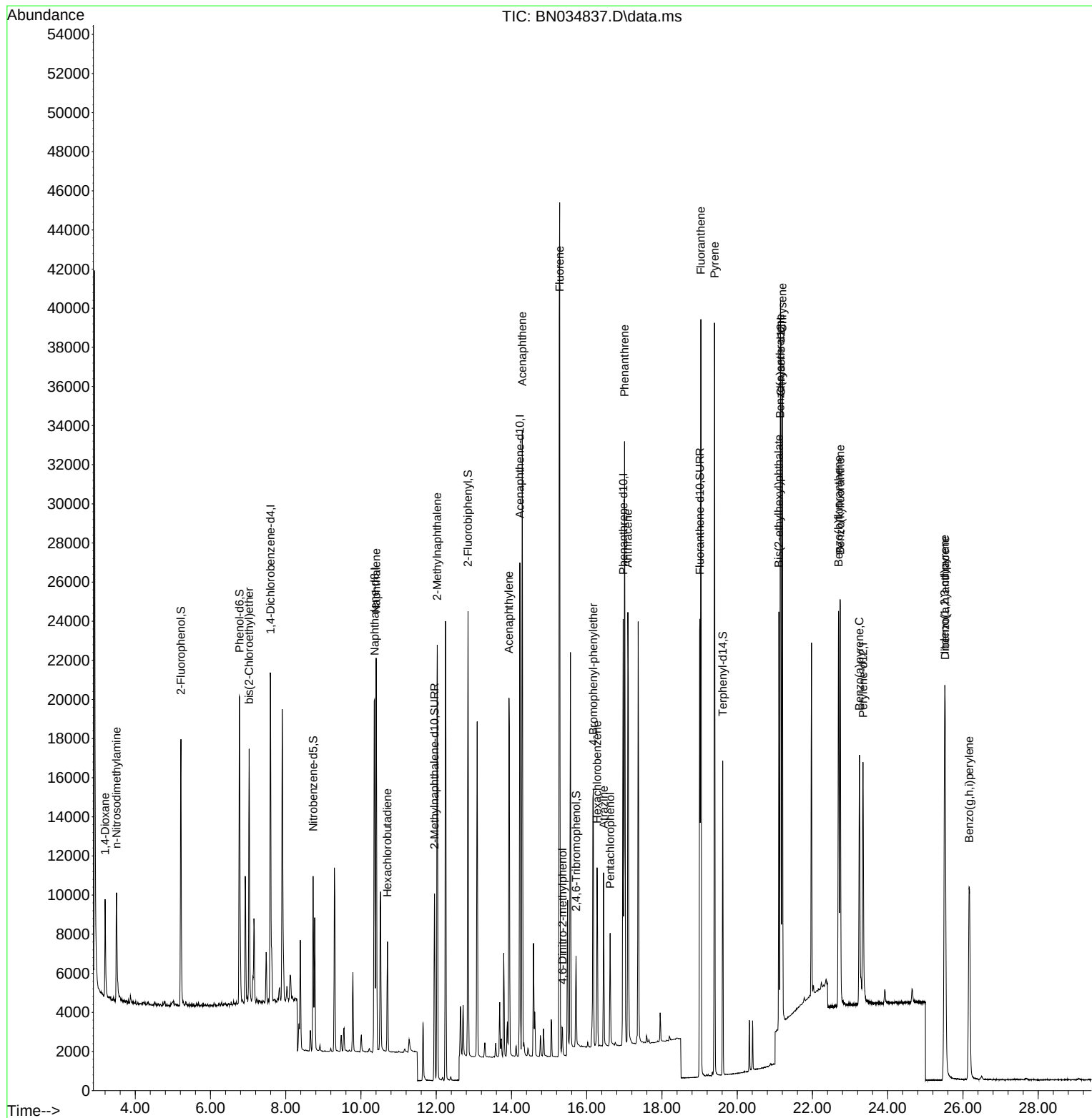
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Data File : BN034837.D
Acq On : 04 Nov 2024 10:45
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

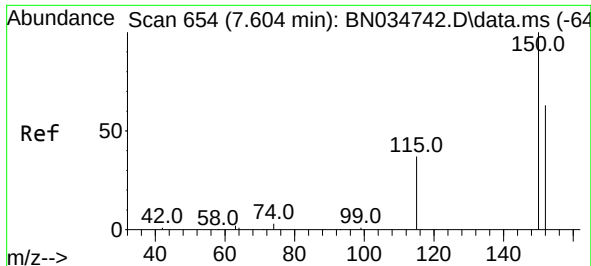
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Nov 04 11:21:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 30 13:28:24 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024





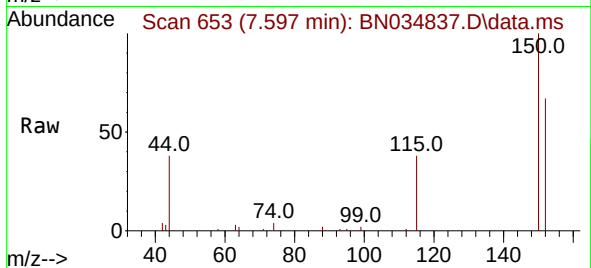
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.597 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN034837.D
Acq: 04 Nov 2024 10:45

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

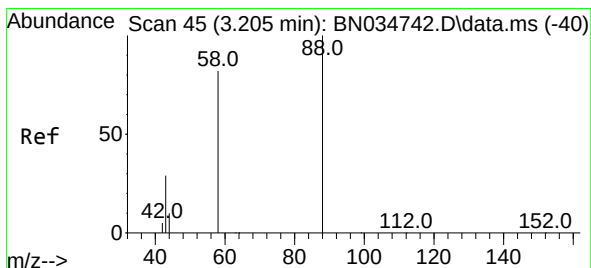
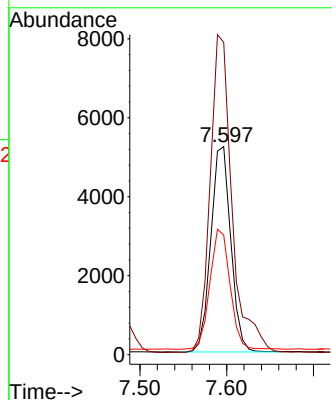


Tgt Ion: 152 Resp: 8324
Ion Ratio Lower Upper
152 100
150 150.1 124.9 187.3
115 57.4 50.2 75.2

Manual Integrations

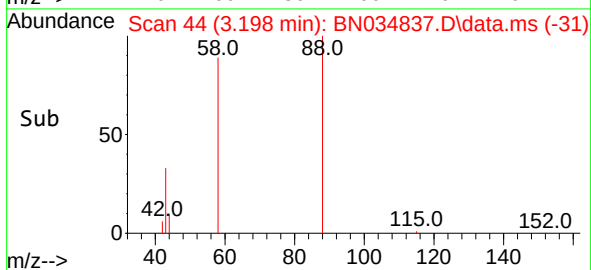
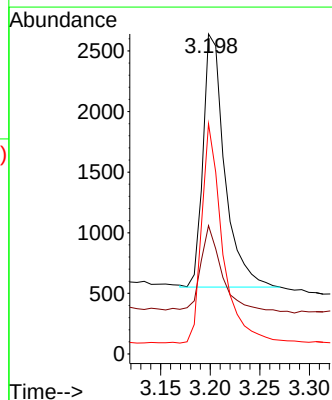
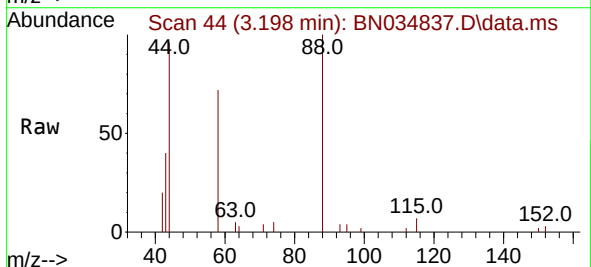
APPROVED

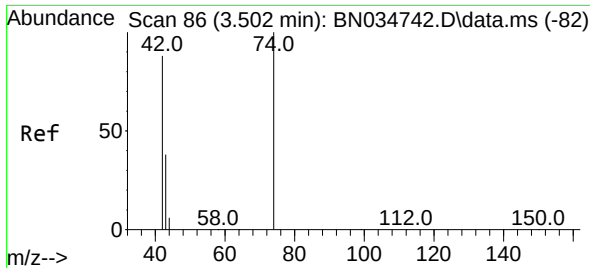
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



#2
1,4-Dioxane
Concen: 0.347 ng
RT: 3.198 min Scan# 44
Delta R.T. -0.007 min
Lab File: BN034837.D
Acq: 04 Nov 2024 10:45

Tgt Ion: 88 Resp: 3166
Ion Ratio Lower Upper
88 100
43 33.7 26.7 40.1
58 83.5 59.3 88.9





#3
n-Nitrosodimethylamine
Concen: 0.392 ng
RT: 3.502 min Scan# 80
Delta R.T. 0.000 min
Lab File: BN034837.D
Acq: 04 Nov 2024 10:45

Instrument :

BNA_N

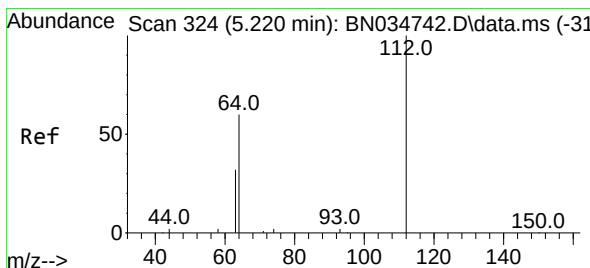
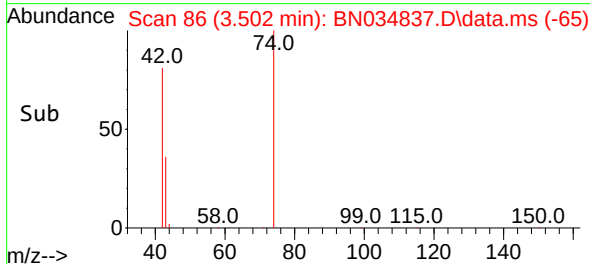
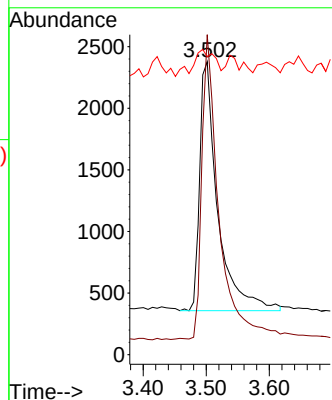
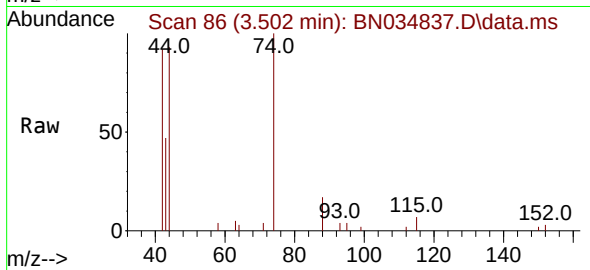
ClientSampleId :

SSTDCCC0.4

Tgt Ion: 42 Resp: 403
Ion Ratio Lower Upper
42 100
74 116.3 103.1 154.7
44 12.9 6.7 10.1

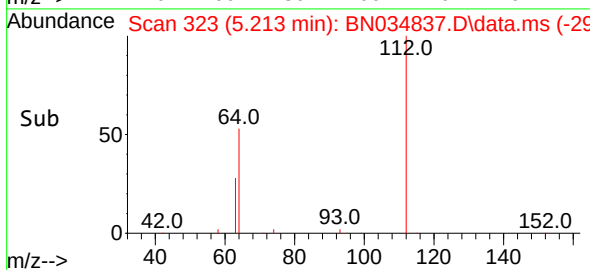
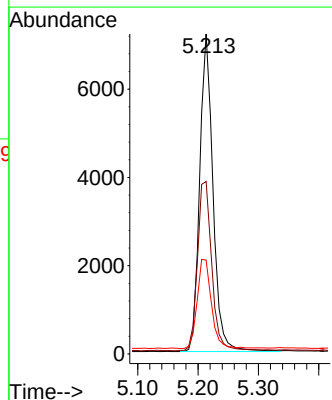
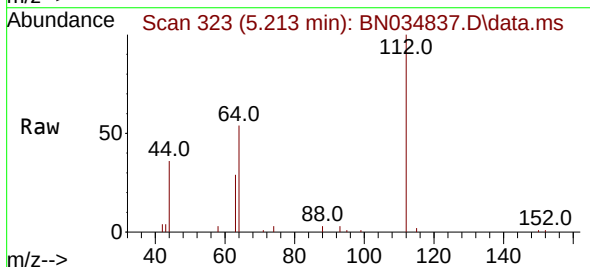
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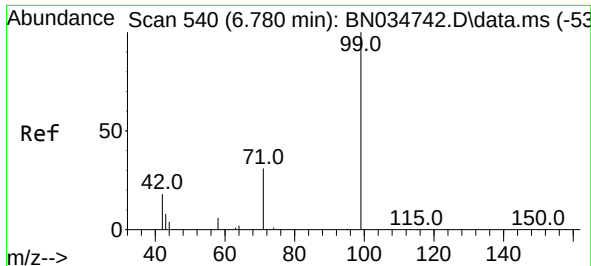
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



#4
2-Fluorophenol
Concen: 0.436 ng
RT: 5.213 min Scan# 323
Delta R.T. -0.007 min
Lab File: BN034837.D
Acq: 04 Nov 2024 10:45

Tgt Ion:112 Resp: 10994
Ion Ratio Lower Upper
112 100
64 57.6 44.9 67.3
63 30.2 23.5 35.3





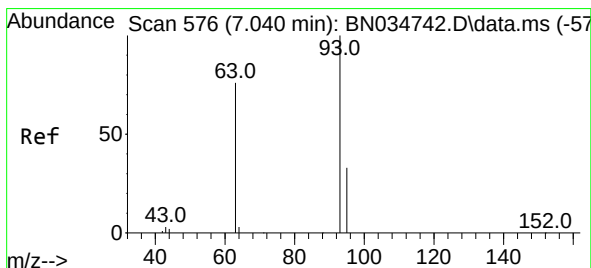
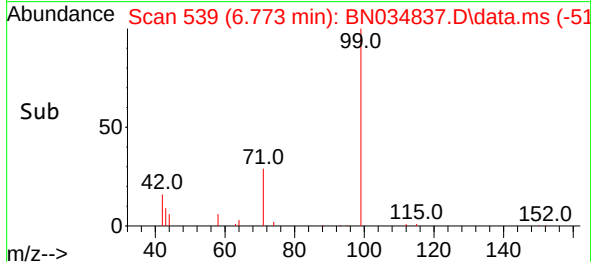
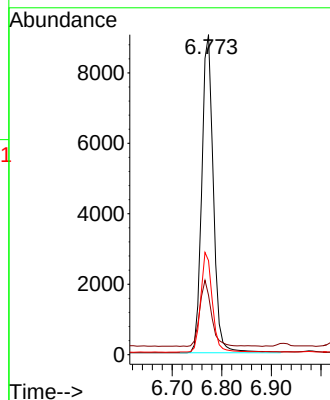
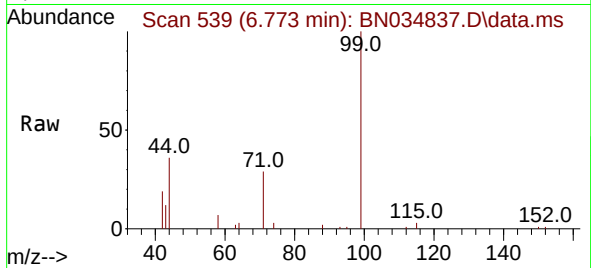
#5
Phenol-d6
Concen: 0.448 ng
RT: 6.773 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN034837.D
Acq: 04 Nov 2024 10:45

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 99 Resp: 1468
Ion Ratio Lower Upper
99 100
42 20.8 15.9 23.9
71 31.7 24.3 36.5

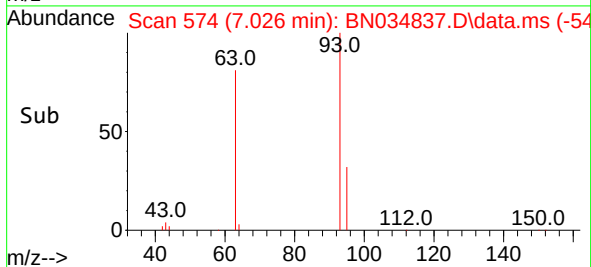
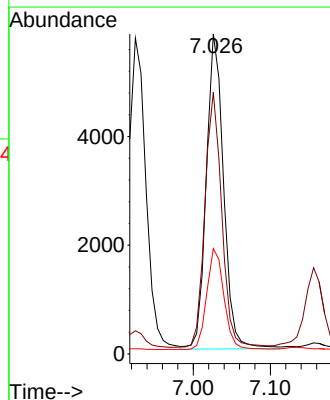
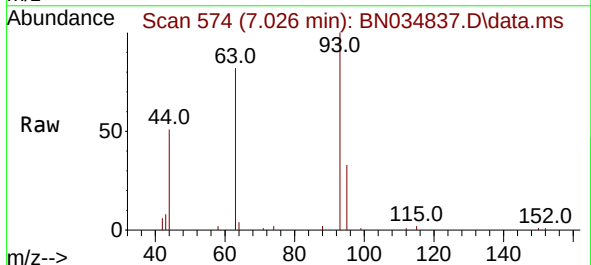
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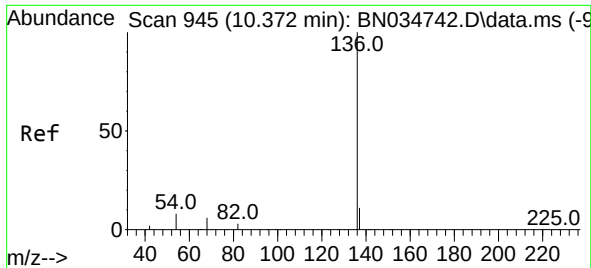
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.377 ng
RT: 7.026 min Scan# 574
Delta R.T. -0.014 min
Lab File: BN034837.D
Acq: 04 Nov 2024 10:45

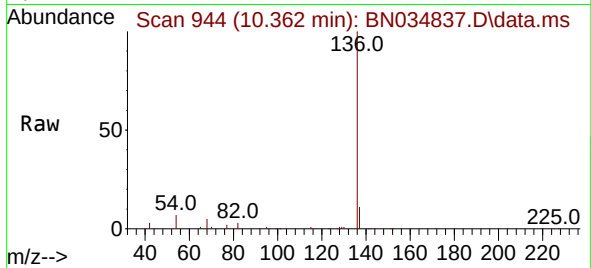
Tgt Ion: 93 Resp: 9017
Ion Ratio Lower Upper
93 100
63 78.7 61.2 91.8
95 32.0 25.8 38.8





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.362 min Scan# 945
Delta R.T. -0.011 min
Lab File: BN034837.D
Acq: 04 Nov 2024 10:45

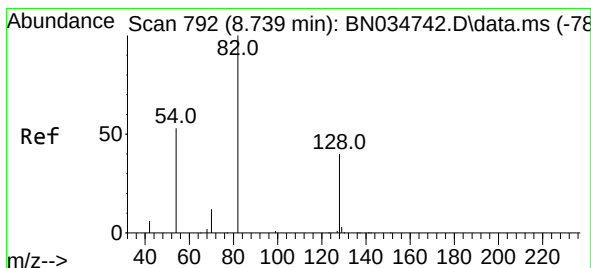
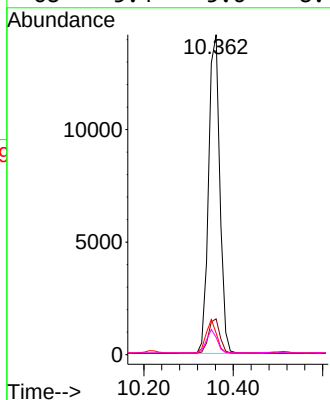
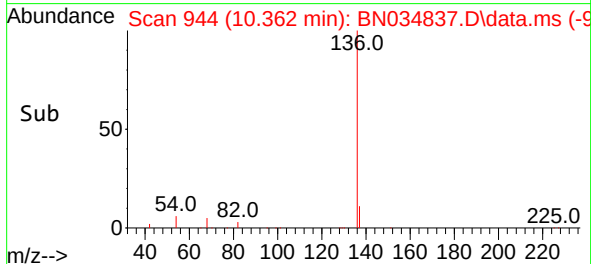
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:136 Resp: 24670
Ion Ratio Lower Upper
136 100
137 11.2 9.2 13.8
54 6.8 7.0 10.4
68 5.4 5.6 8.4#

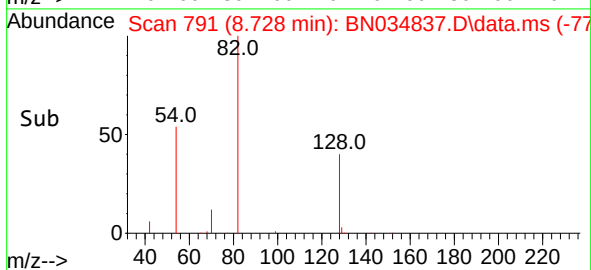
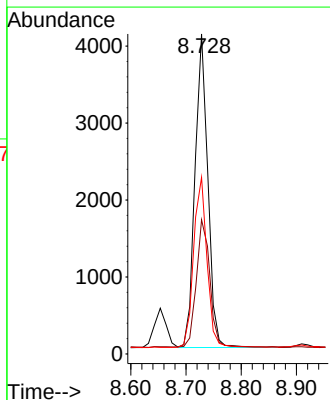
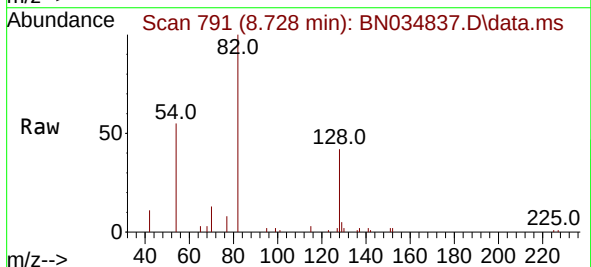
Manual Integrations
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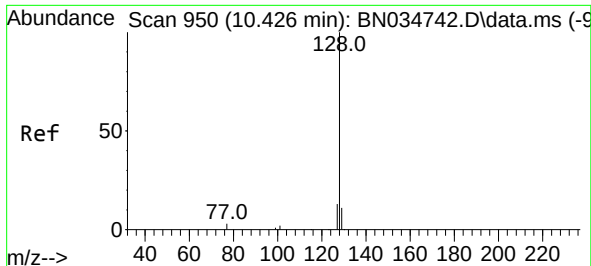
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



#8
Nitrobenzene-d5
Concen: 0.339 ng
RT: 8.728 min Scan# 791
Delta R.T. -0.011 min
Lab File: BN034837.D
Acq: 04 Nov 2024 10:45

Tgt Ion: 82 Resp: 6575
Ion Ratio Lower Upper
82 100
128 41.9 33.7 50.5
54 55.2 44.4 66.6





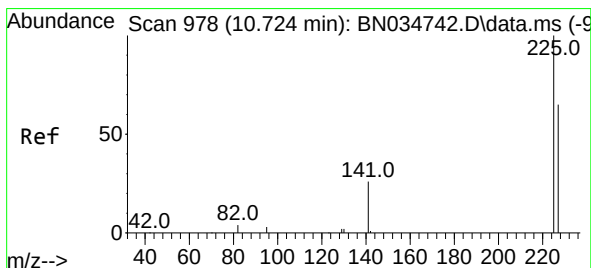
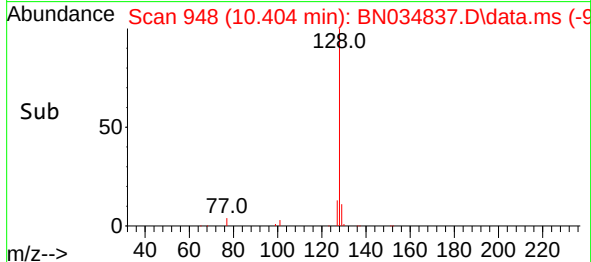
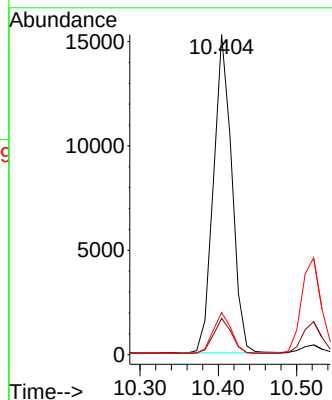
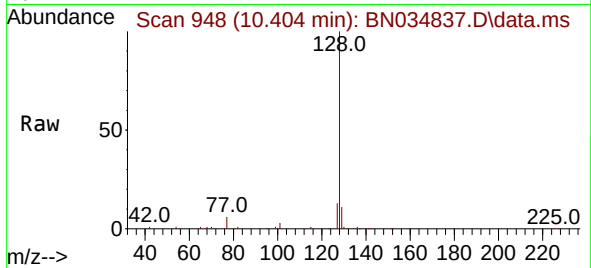
#9
Naphthalene
Concen: 0.364 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.021 min
Lab File: BN034837.D
Acq: 04 Nov 2024 10:45

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 24838
Ion Ratio Lower Upper
128 100
129 11.3 9.4 14.0
127 13.2 10.6 15.8

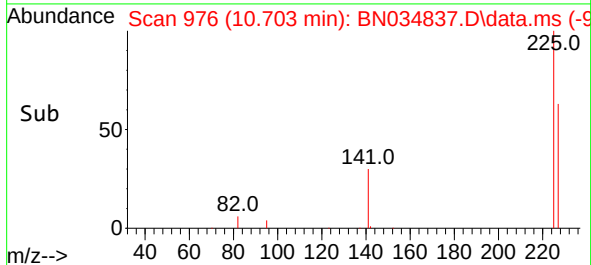
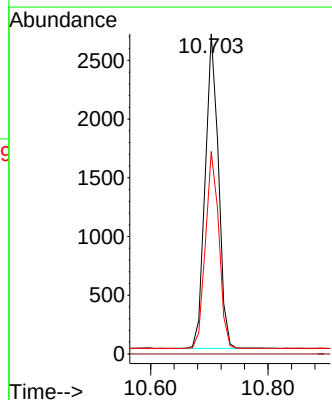
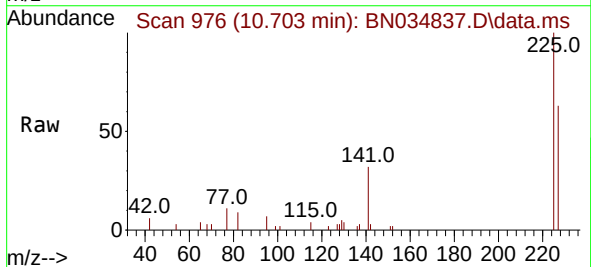
Manual Integrations
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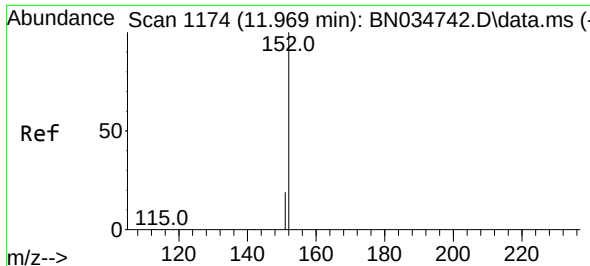
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



#10
Hexachlorobutadiene
Concen: 0.374 ng
RT: 10.703 min Scan# 976
Delta R.T. -0.021 min
Lab File: BN034837.D
Acq: 04 Nov 2024 10:45

Tgt Ion:225 Resp: 4204
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.6 51.4 77.2





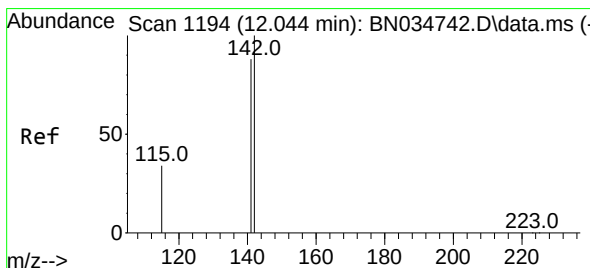
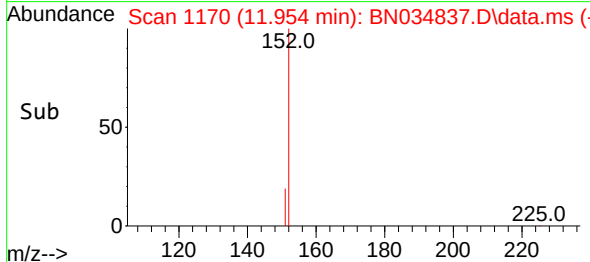
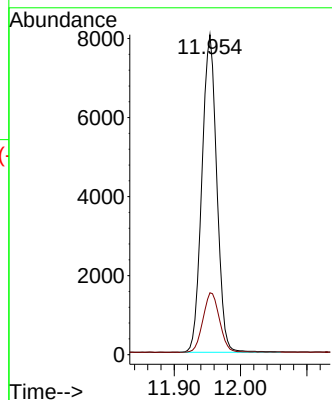
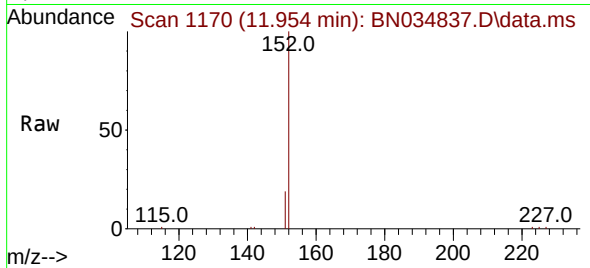
#11
2-Methylnaphthalene-d10
Concen: 0.352 ng
RT: 11.954 min Scan# 1174
Delta R.T. -0.015 min
Lab File: BN034837.D
Acq: 04 Nov 2024 10:45

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 1256
Ion Ratio Lower Upper
152 100
151 20.9 16.6 24.8

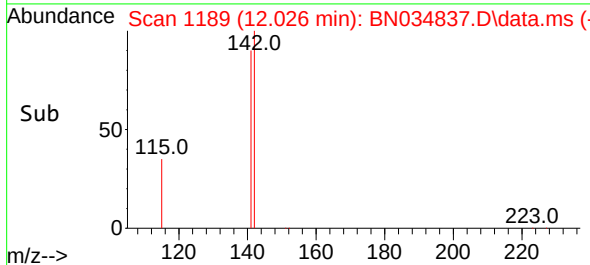
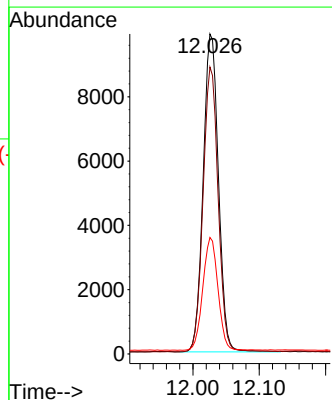
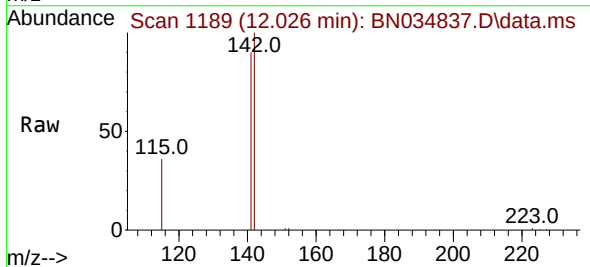
Manual Integrations
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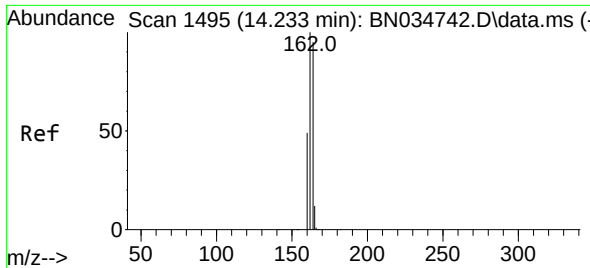
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



#12
2-Methylnaphthalene
Concen: 0.354 ng
RT: 12.026 min Scan# 1189
Delta R.T. -0.019 min
Lab File: BN034837.D
Acq: 04 Nov 2024 10:45

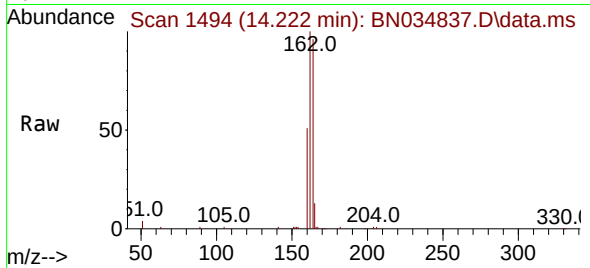
Tgt Ion:142 Resp: 15806
Ion Ratio Lower Upper
142 100
141 89.6 70.6 106.0
115 36.4 28.6 42.8





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.222 min Scan# 1494
Delta R.T. -0.011 min
Lab File: BN034837.D
Acq: 04 Nov 2024 10:45

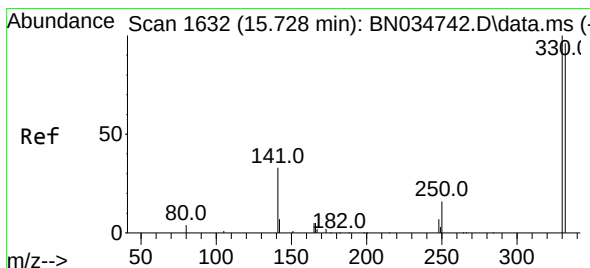
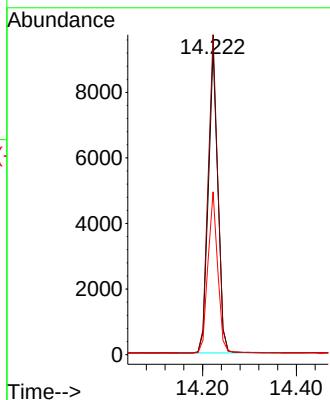
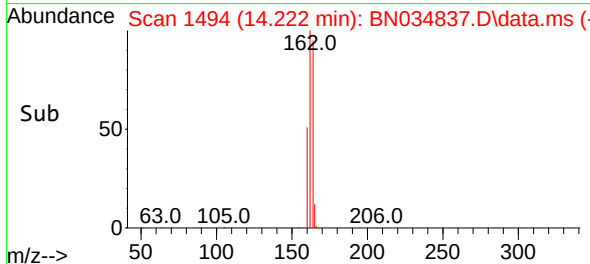
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



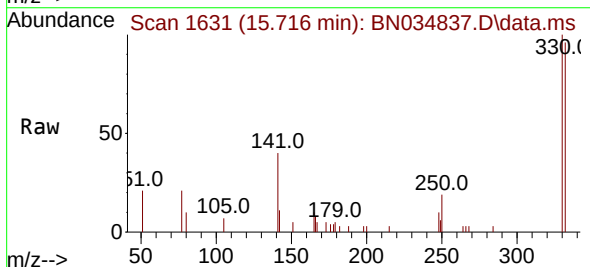
Tgt Ion:164 Resp: 1311
Ion Ratio Lower Upper
164 100
162 104.7 84.3 126.5
160 53.3 41.7 62.5

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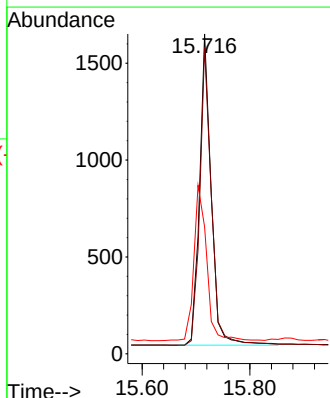
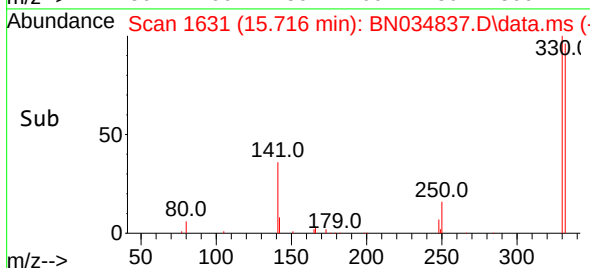
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024

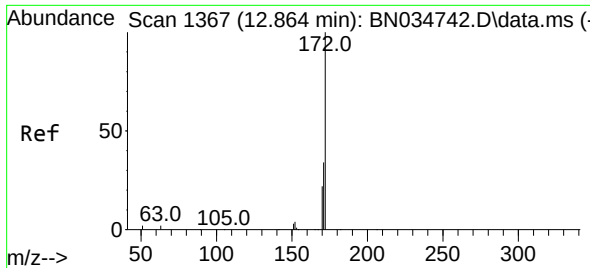


#14
2,4,6-Tribromophenol
Concen: 0.373 ng
RT: 15.716 min Scan# 1631
Delta R.T. -0.012 min
Lab File: BN034837.D
Acq: 04 Nov 2024 10:45



Tgt Ion:330 Resp: 2415
Ion Ratio Lower Upper
330 100
332 95.6 77.8 116.6
141 54.8 41.0 61.4





#15
2-Fluorobiphenyl
Concen: 0.363 ng
RT: 12.843 min Scan# 11
Delta R.T. -0.021 min
Lab File: BN034837.D
Acq: 04 Nov 2024 10:45

Instrument :

BNA_N

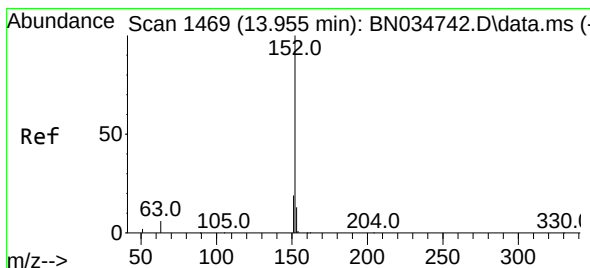
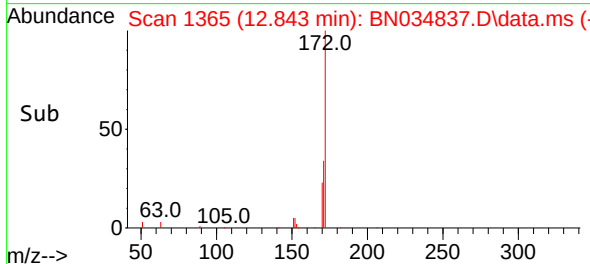
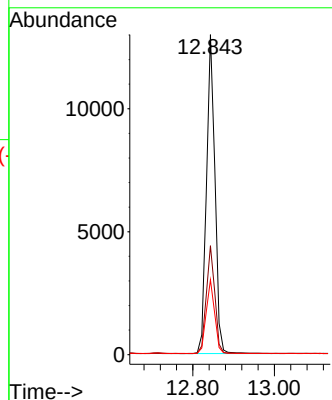
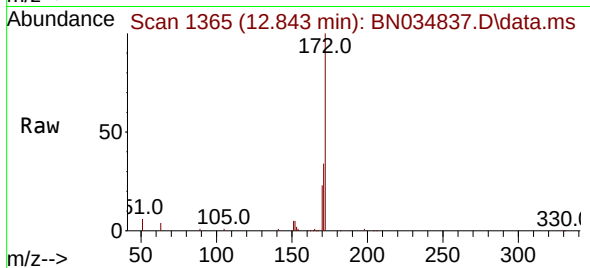
ClientSampleId :

SSTDCCC0.4

Tgt Ion:172 Resp: 1875
Ion Ratio Lower Upper
172 100
171 34.1 27.2 40.8
170 23.4 18.0 27.0

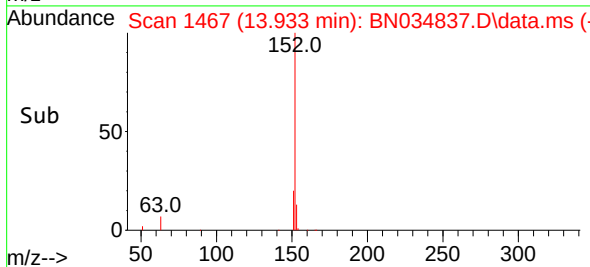
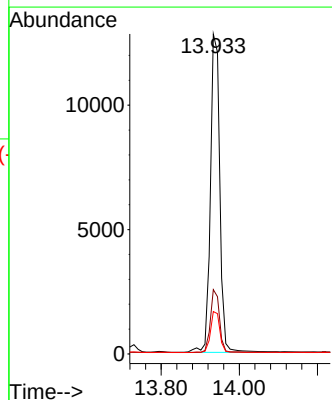
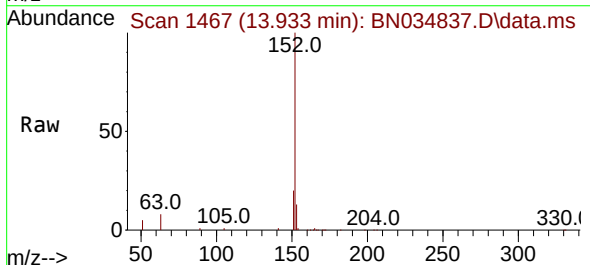
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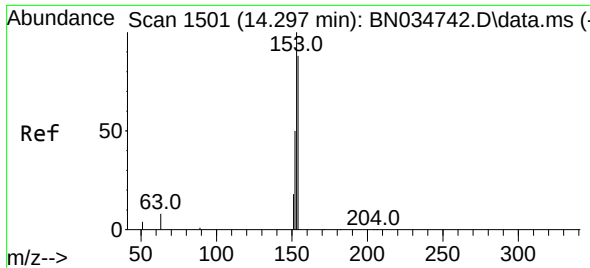
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



#16
Acenaphthylene
Concen: 0.326 ng
RT: 13.933 min Scan# 1467
Delta R.T. -0.021 min
Lab File: BN034837.D
Acq: 04 Nov 2024 10:45

Tgt Ion:152 Resp: 21430
Ion Ratio Lower Upper
152 100
151 19.2 15.4 23.2
153 13.0 10.2 15.4





#17
Acenaphthene
Concen: 0.344 ng
RT: 14.286 min Scan# 1509
Delta R.T. -0.011 min
Lab File: BN034837.D
Acq: 04 Nov 2024 10:45

Instrument :

BNA_N

ClientSampleId :

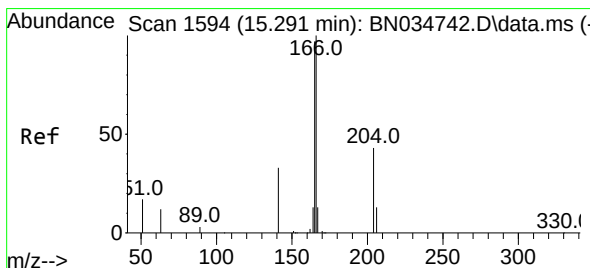
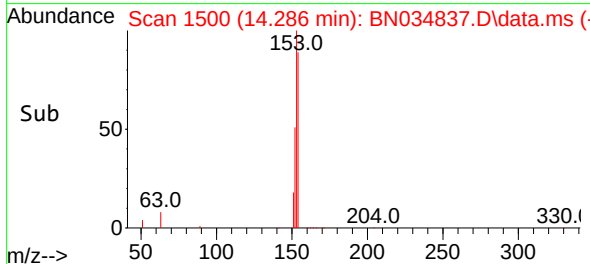
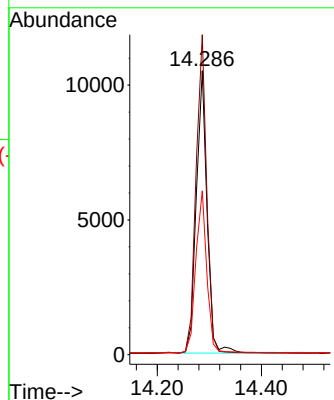
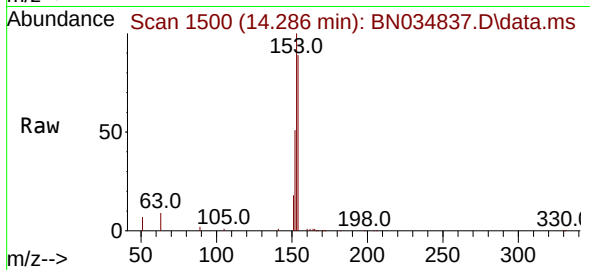
SSTDCCC0.4

Tgt Ion:	154	Resp:	1509
Ion Ratio	Lower	Upper	
154	100		
153	111.7	87.8	131.6
152	58.0	44.6	67.0

Manual Integrations

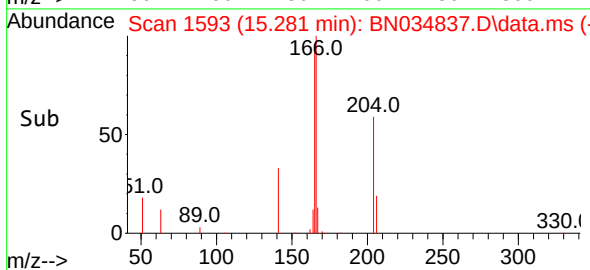
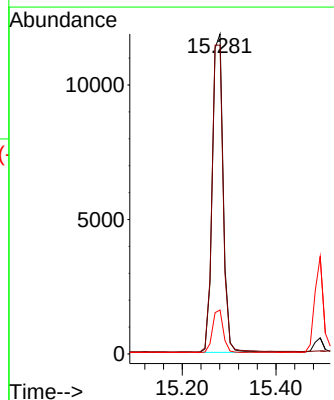
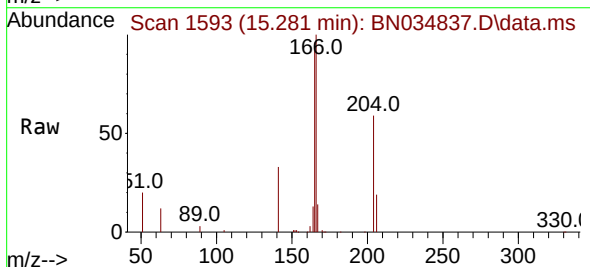
APPROVED

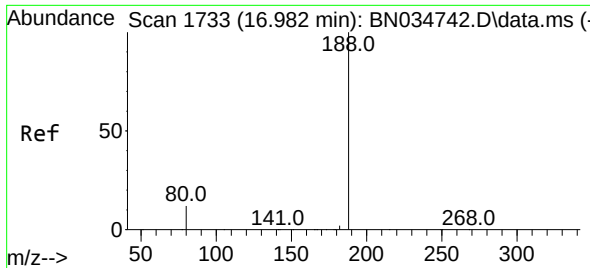
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



#18
Fluorene
Concen: 0.349 ng
RT: 15.281 min Scan# 1593
Delta R.T. -0.011 min
Lab File: BN034837.D
Acq: 04 Nov 2024 10:45

Tgt Ion:	166	Resp:	19063
Ion Ratio	Lower	Upper	
166	100		
165	98.3	78.5	117.7
167	13.4	10.8	16.2





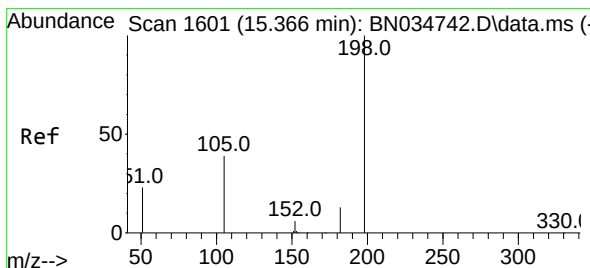
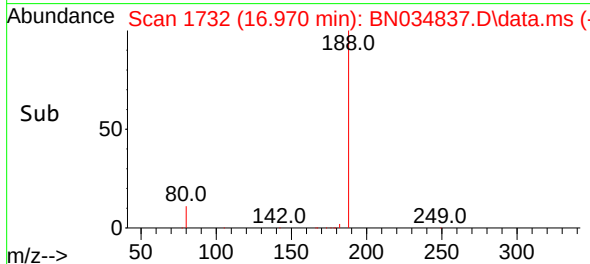
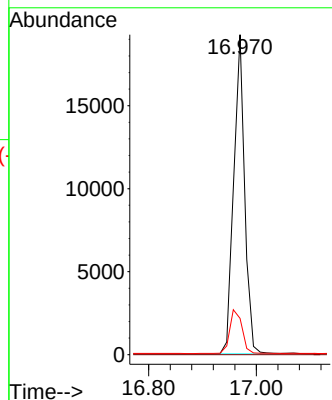
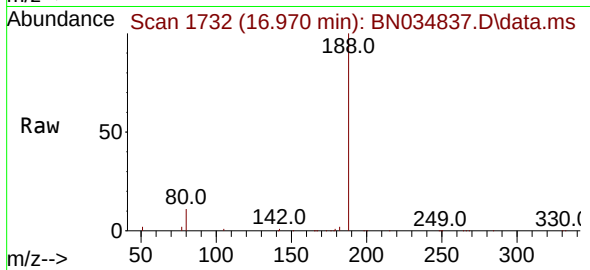
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.970 min Scan# 11
Delta R.T. -0.012 min
Lab File: BN034837.D
Acq: 04 Nov 2024 10:45

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:188 Resp: 27070
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 11.3 9.8 14.6

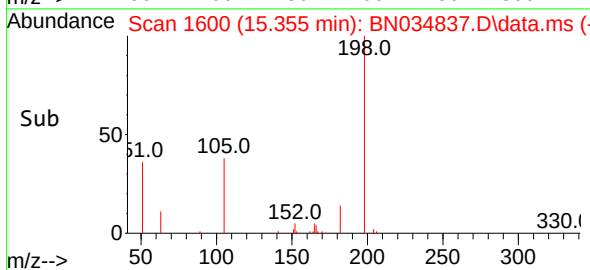
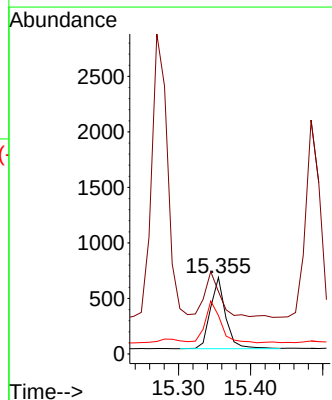
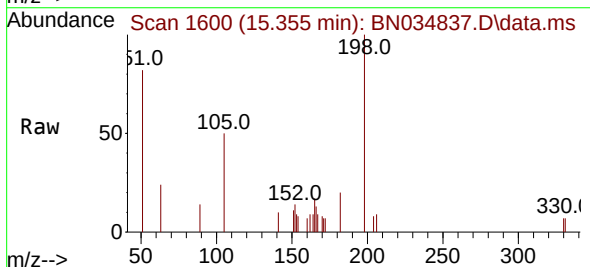
Manual Integrations
APPROVED

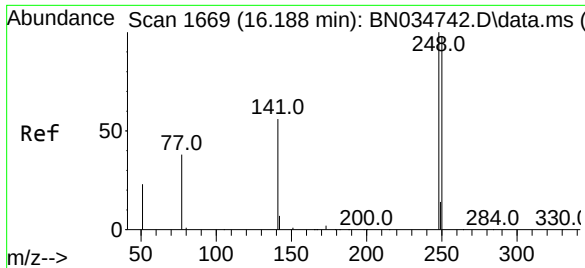
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



#20
4,6-Dinitro-2-methylphenol
Concen: 0.362 ng
RT: 15.355 min Scan# 1600
Delta R.T. -0.011 min
Lab File: BN034837.D
Acq: 04 Nov 2024 10:45

Tgt Ion:198 Resp: 943
Ion Ratio Lower Upper
198 100
51 81.7 58.0 87.0
105 50.2 49.1 73.7





#21
4-Bromophenyl-phenylether
Concen: 0.346 ng
RT: 16.175 min Scan# 1668
Delta R.T. -0.012 min
Lab File: BN034837.D
Acq: 04 Nov 2024 10:45

Instrument :

BNA_N

ClientSampleId :

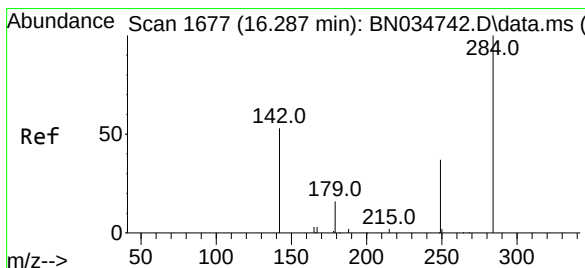
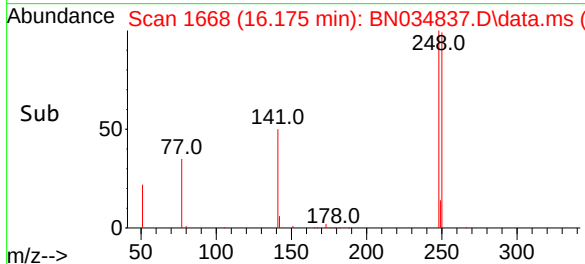
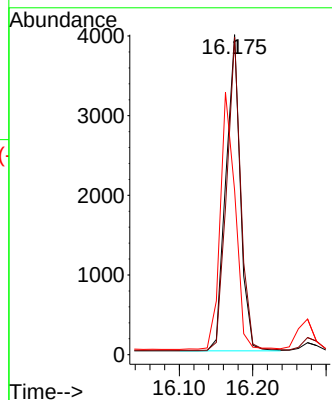
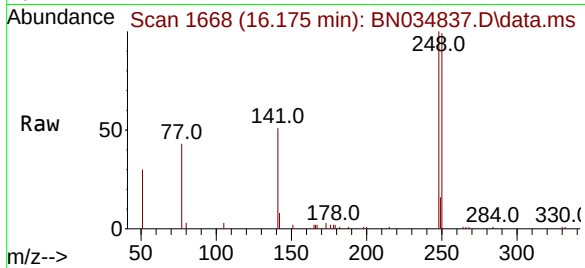
SSTDCCC0.4

Tgt Ion:248 Resp: 542
Ion Ratio Lower Upper
248 100
250 99.2 78.7 118.1
141 51.3 46.4 69.6

Manual Integrations

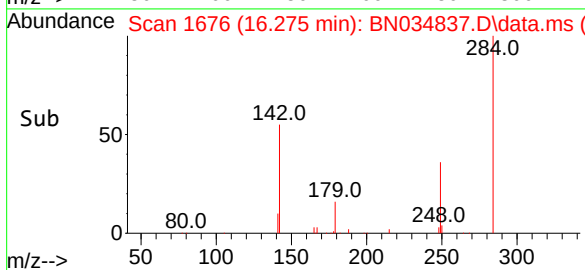
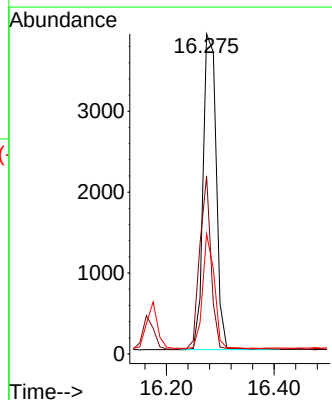
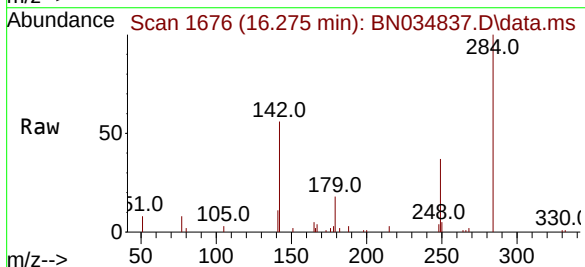
APPROVED

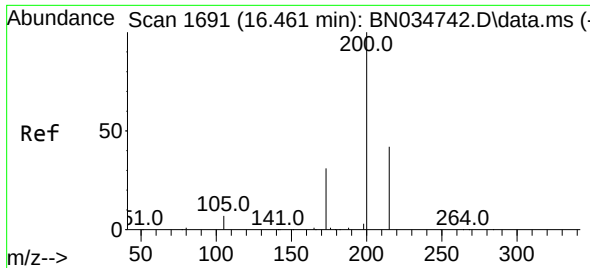
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



#22
Hexachlorobenzene
Concen: 0.376 ng
RT: 16.275 min Scan# 1676
Delta R.T. -0.012 min
Lab File: BN034837.D
Acq: 04 Nov 2024 10:45

Tgt Ion:284 Resp: 6598
Ion Ratio Lower Upper
284 100
142 47.0 35.4 53.0
249 32.3 25.7 38.5





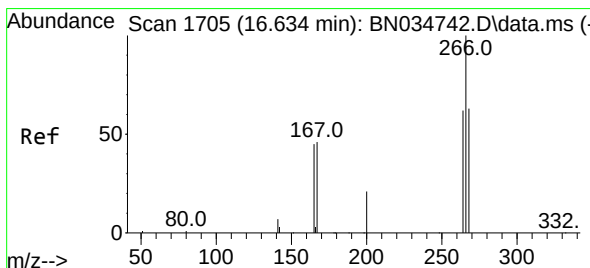
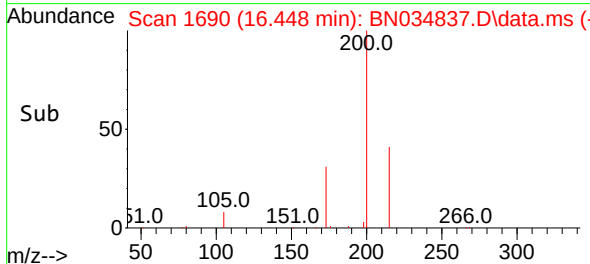
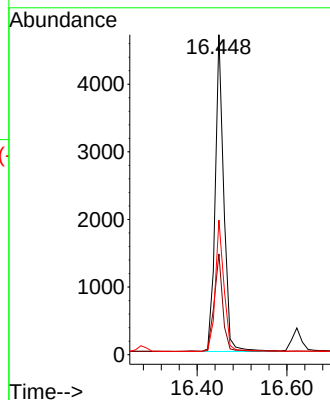
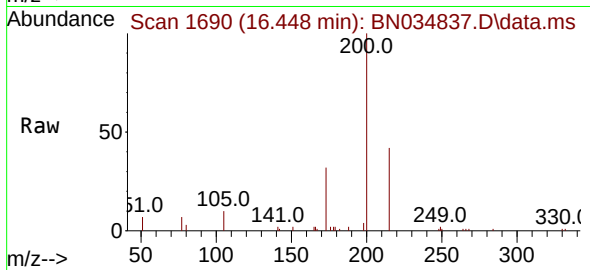
#23
Atrazine
Concen: 0.457 ng
RT: 16.448 min Scan# 1691
Delta R.T. -0.012 min
Lab File: BN034837.D
Acq: 04 Nov 2024 10:45

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:200 Resp: 616
Ion Ratio Lower Upper
200 100
173 31.5 25.8 38.6
215 42.1 34.2 51.4

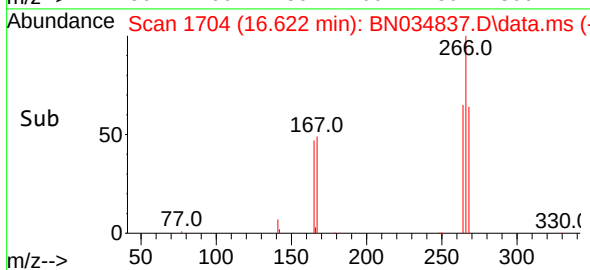
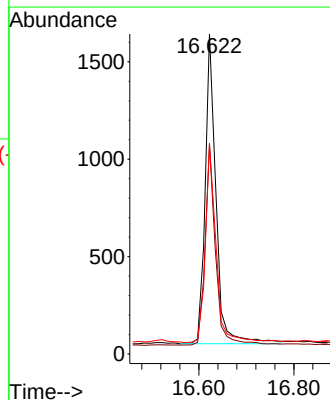
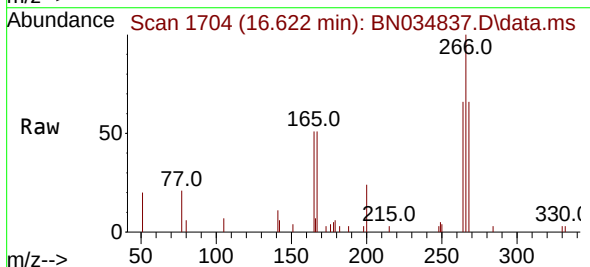
Manual Integrations
APPROVED

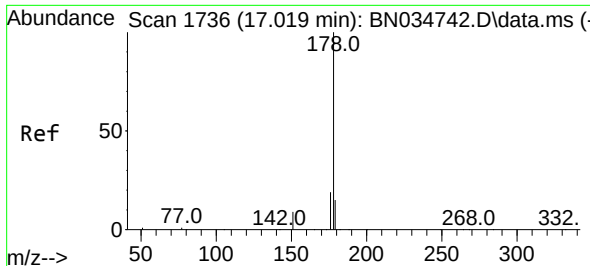
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



#24
Pentachlorophenol
Concen: 0.336 ng
RT: 16.622 min Scan# 1704
Delta R.T. -0.012 min
Lab File: BN034837.D
Acq: 04 Nov 2024 10:45

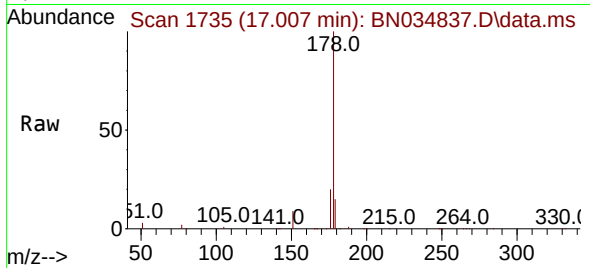
Tgt Ion:266 Resp: 2534
Ion Ratio Lower Upper
266 100
264 62.5 48.7 73.1
268 63.8 50.2 75.4





#25
Phenanthrene
Concen: 0.371 ng
RT: 17.007 min Scan# 1735
Delta R.T. -0.012 min
Lab File: BN034837.D
Acq: 04 Nov 2024 10:45

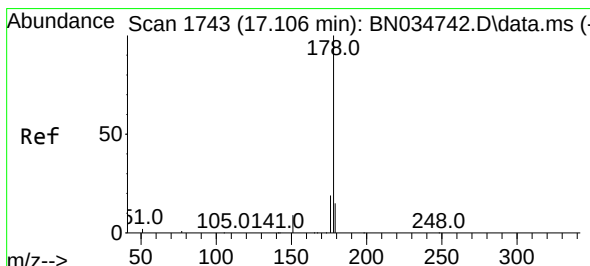
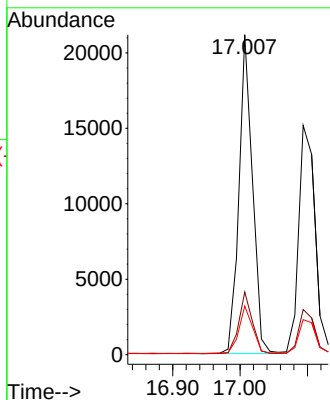
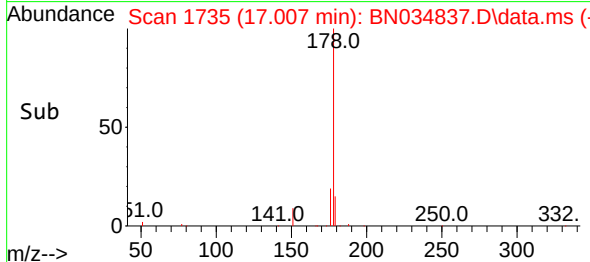
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



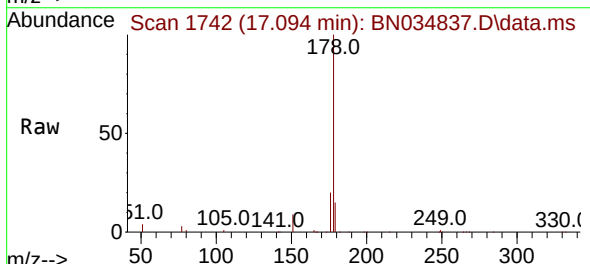
Tgt Ion:178 Resp: 29558
Ion Ratio Lower Upper
178 100
176 19.3 15.4 23.0
179 15.1 12.2 18.4

Manual Integrations
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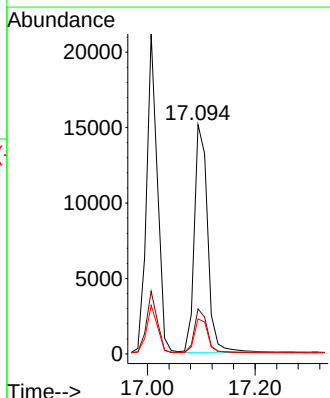
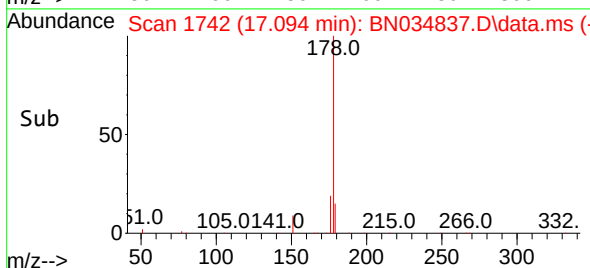
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024

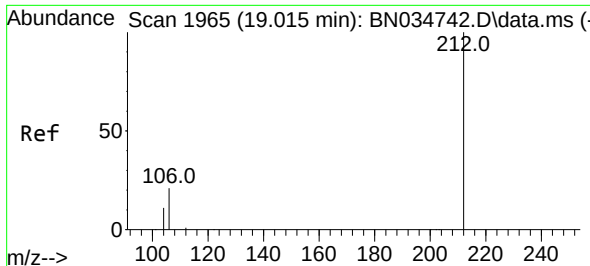


#26
Anthracene
Concen: 0.347 ng
RT: 17.094 min Scan# 1742
Delta R.T. -0.012 min
Lab File: BN034837.D
Acq: 04 Nov 2024 10:45



Tgt Ion:178 Resp: 25840
Ion Ratio Lower Upper
178 100
176 18.6 15.0 22.6
179 15.1 12.2 18.2





#27
Fluoranthene-d10
Concen: 0.362 ng
RT: 19.006 min Scan# 1963
Delta R.T. -0.009 min
Lab File: BN034837.D
Acq: 04 Nov 2024 10:45

Instrument :

BNA_N

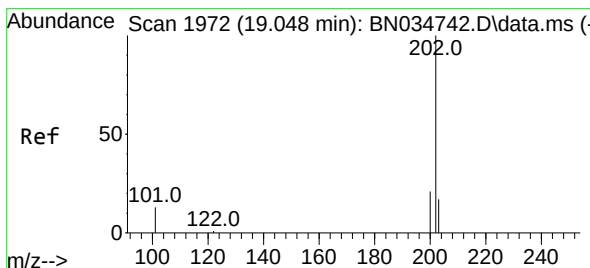
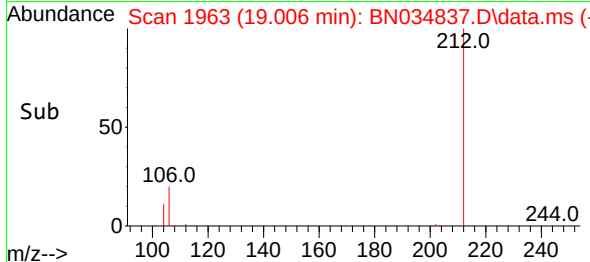
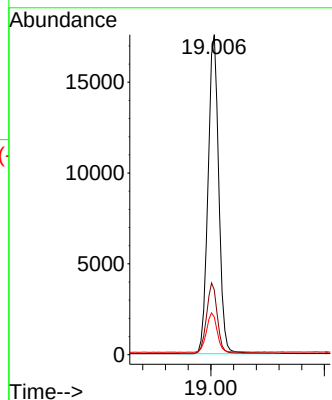
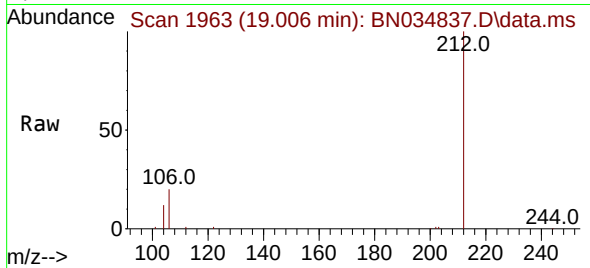
ClientSampleId :

SSTDCCC0.4

Tgt Ion:212 Resp: 2301
Ion Ratio Lower Upper
212 100
106 21.9 16.1 24.1
104 12.2 9.2 13.8

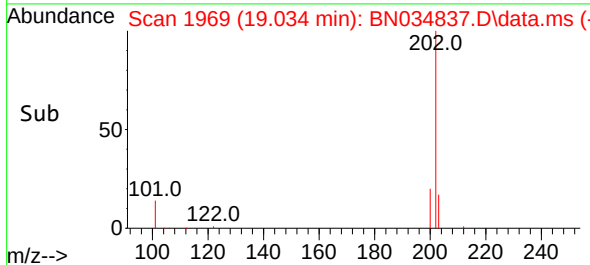
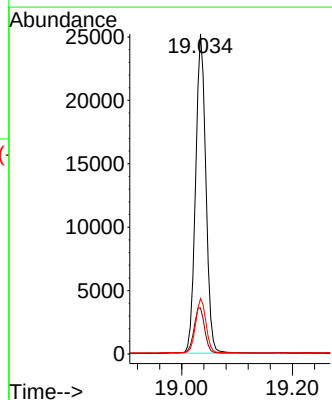
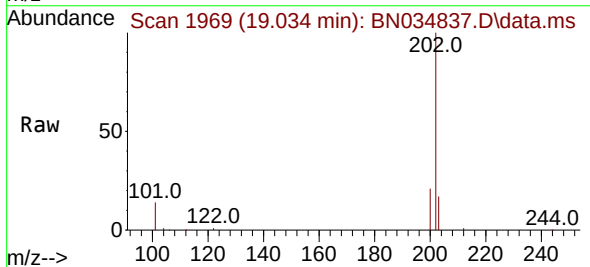
Manual Integrations
APPROVED

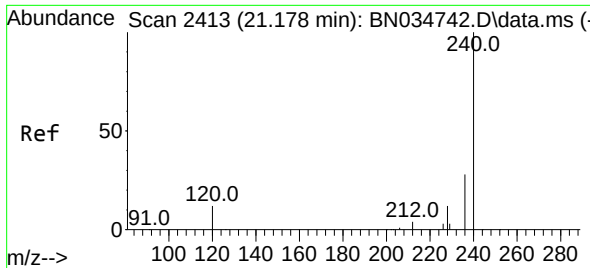
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



#28
Fluoranthene
Concen: 0.369 ng
RT: 19.034 min Scan# 1969
Delta R.T. -0.014 min
Lab File: BN034837.D
Acq: 04 Nov 2024 10:45

Tgt Ion:202 Resp: 32410
Ion Ratio Lower Upper
202 100
101 15.0 11.4 17.0
203 17.2 13.7 20.5





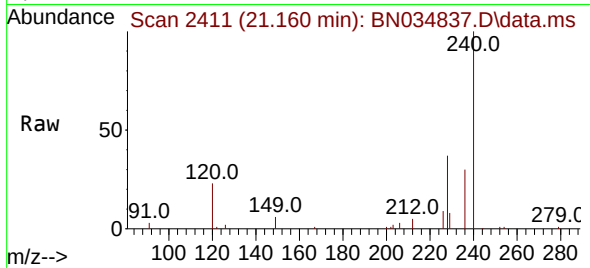
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.160 min Scan# 2411
Delta R.T. -0.018 min
Lab File: BN034837.D
Acq: 04 Nov 2024 10:45

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

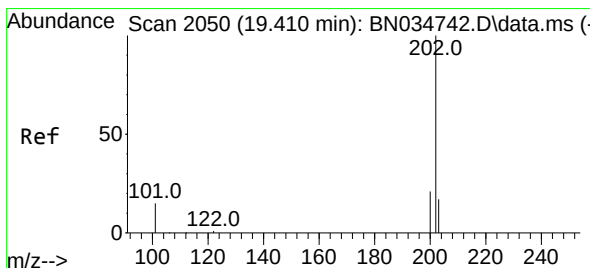
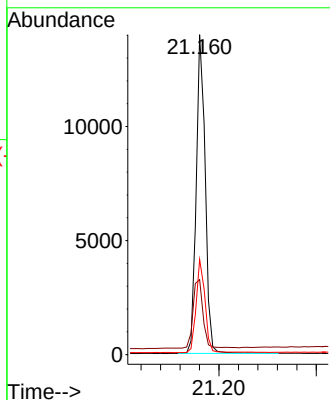
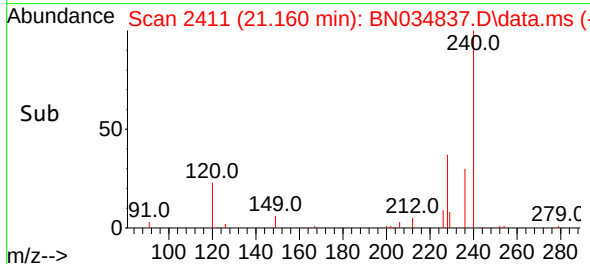


Tgt Ion:240 Resp: 17835
Ion Ratio Lower Upper
240 100
120 23.5 11.5 17.3
236 29.8 23.2 34.8

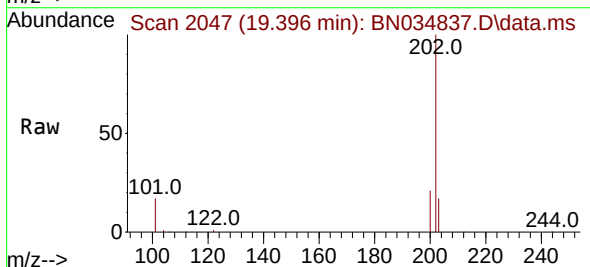
Manual Integrations

APPROVED

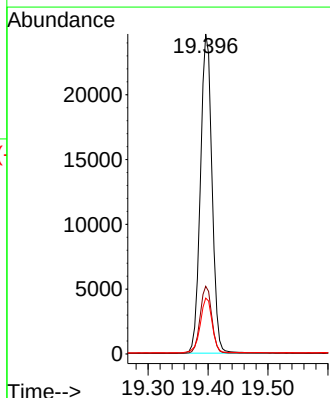
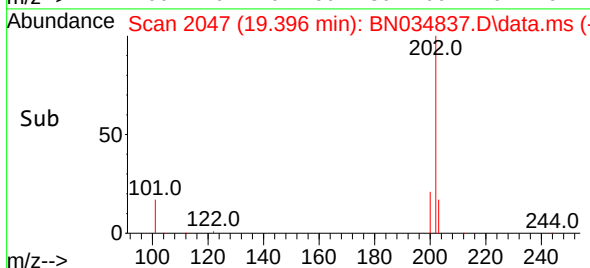
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024

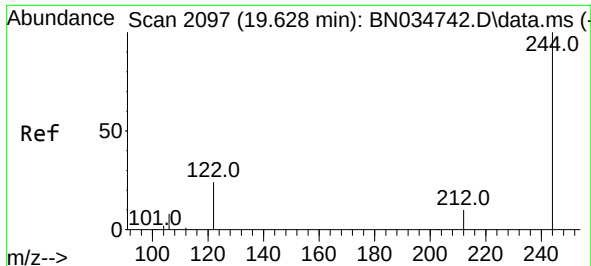


#30
Pyrene
Concen: 0.355 ng
RT: 19.396 min Scan# 2047
Delta R.T. -0.014 min
Lab File: BN034837.D
Acq: 04 Nov 2024 10:45



Tgt Ion:202 Resp: 33058
Ion Ratio Lower Upper
202 100
200 21.1 17.0 25.4
203 17.7 14.2 21.2





#31
 Terphenyl-d14
 Concen: 0.328 ng
 RT: 19.614 min Scan# 2094
 Delta R.T. -0.014 min
 Lab File: BN034837.D
 Acq: 04 Nov 2024 10:45

Instrument :

BNA_N

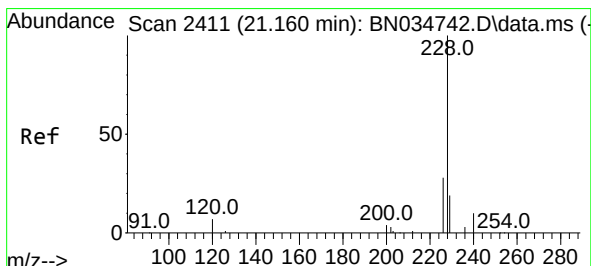
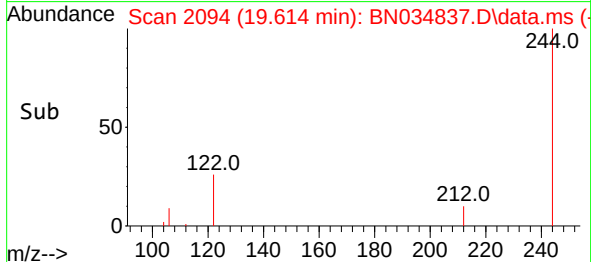
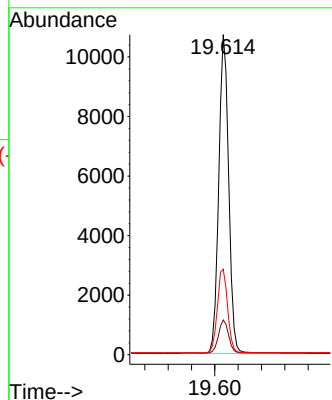
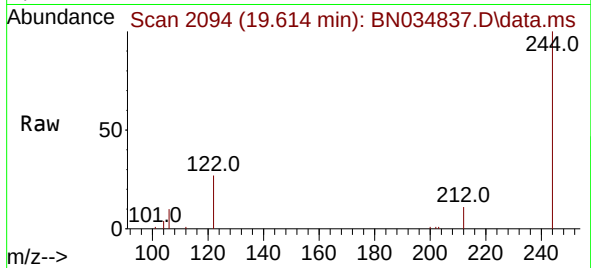
ClientSampleId :

SSTDCCC0.4

Tgt Ion:244 Resp: 1255
 Ion Ratio Lower Upper
 244 100
 212 10.8 8.2 12.4
 122 26.7 19.8 29.6

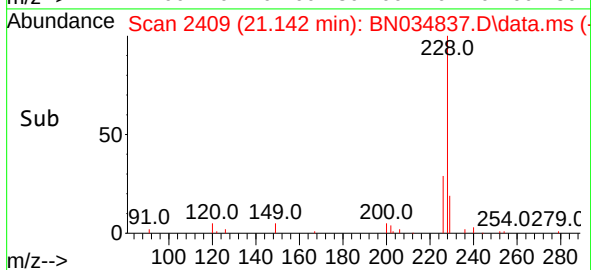
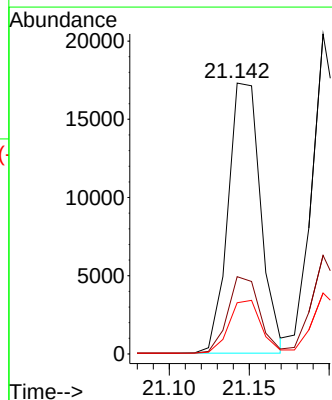
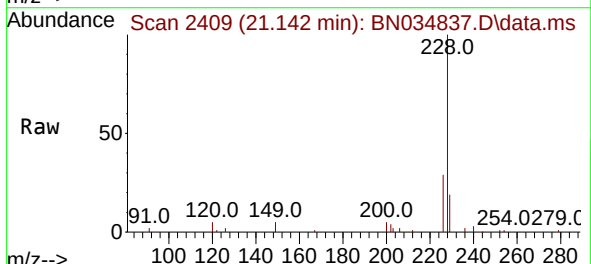
Manual Integrations
 APPROVED

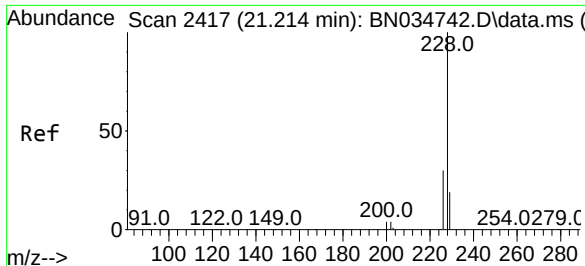
Reviewed By :Jagrut Upadhyay 11/05/2024
 Supervised By :mohammad ahmed 11/06/2024



#32
 Benzo(a)anthracene
 Concen: 0.346 ng
 RT: 21.142 min Scan# 2409
 Delta R.T. -0.018 min
 Lab File: BN034837.D
 Acq: 04 Nov 2024 10:45

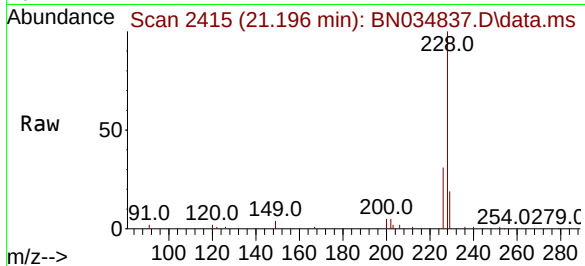
Tgt Ion:228 Resp: 24572
 Ion Ratio Lower Upper
 228 100
 226 28.5 22.6 33.8
 229 18.9 15.7 23.5





#33
Chrysene
Concen: 0.377 ng
RT: 21.196 min Scan# 2415
Delta R.T. -0.018 min
Lab File: BN034837.D
Acq: 04 Nov 2024 10:45

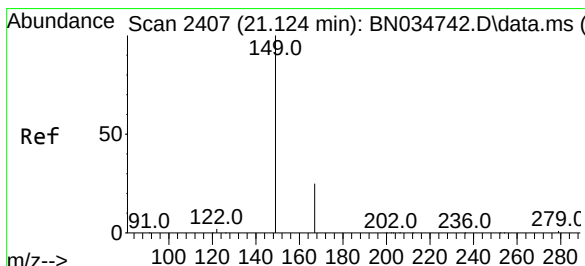
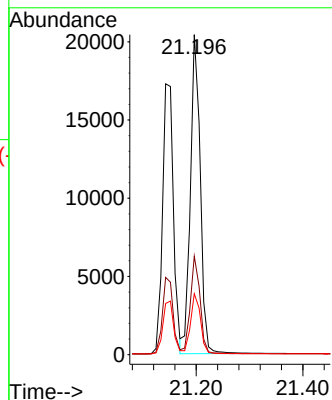
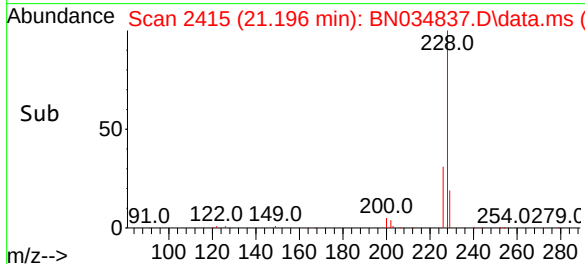
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



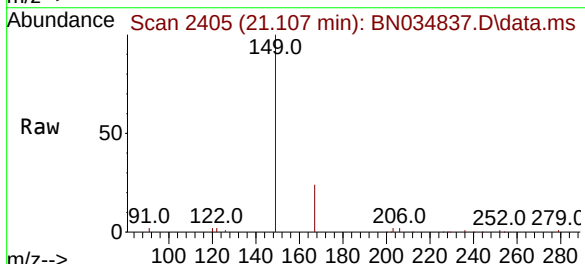
Tgt Ion:228 Resp: 2621
Ion Ratio Lower Upper
228 100
226 30.8 24.4 36.6
229 19.1 15.6 23.4

Manual Integrations
APPROVED

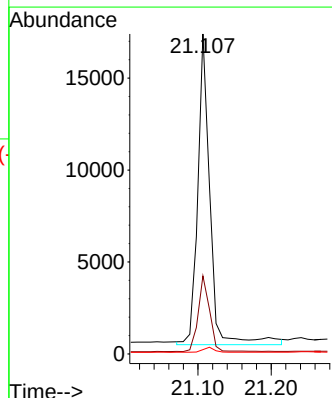
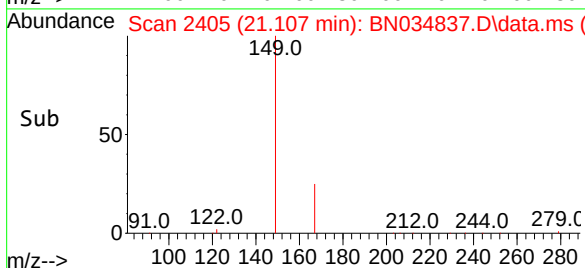
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024

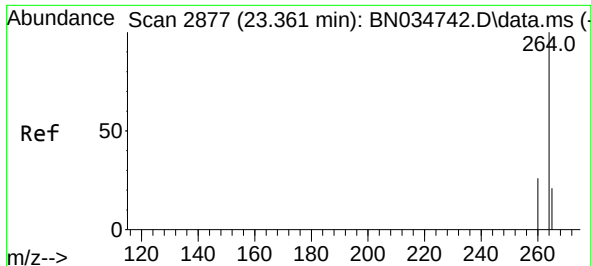


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.330 ng m
RT: 21.107 min Scan# 2405
Delta R.T. -0.018 min
Lab File: BN034837.D
Acq: 04 Nov 2024 10:45



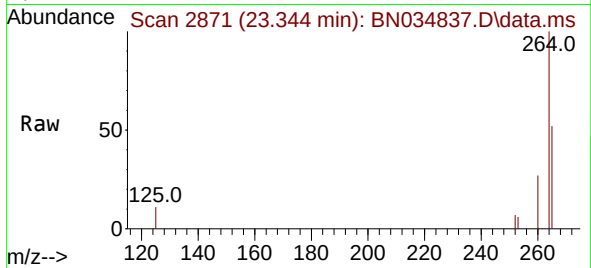
Tgt Ion:149 Resp: 19564
Ion Ratio Lower Upper
149 100
167 22.7 20.6 30.8
279 1.7 1.5 2.3





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.344 min Scan# 21
Delta R.T. -0.017 min
Lab File: BN034837.D
Acq: 04 Nov 2024 10:45

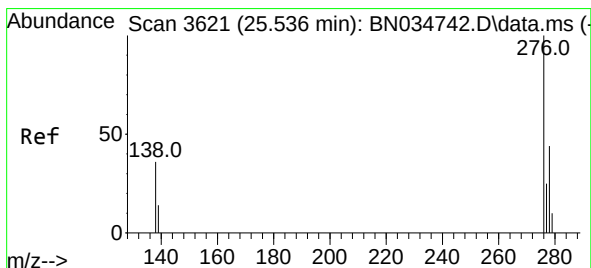
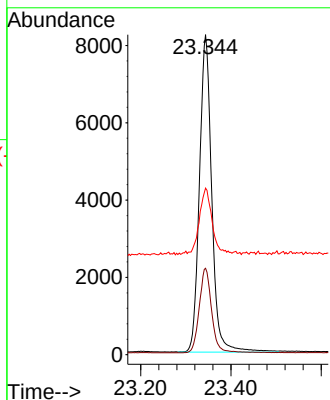
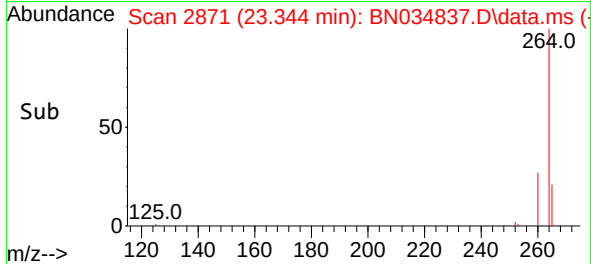
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:264 Resp: 15548
Ion Ratio Lower Upper
264 100
260 27.0 21.5 32.3
265 52.0 47.5 71.3

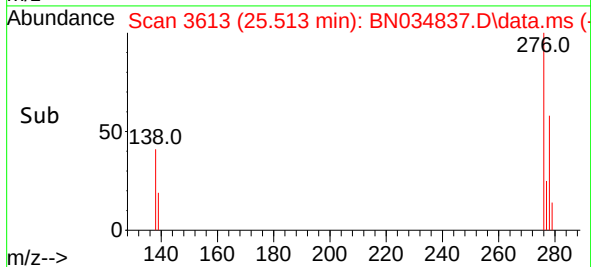
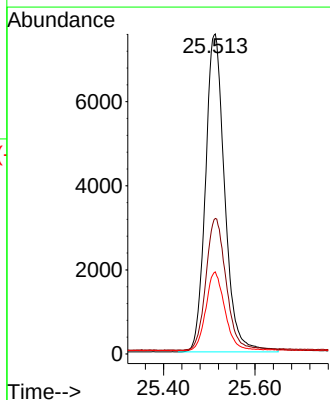
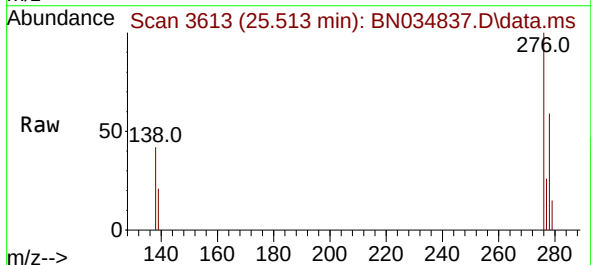
Manual Integrations
APPROVED

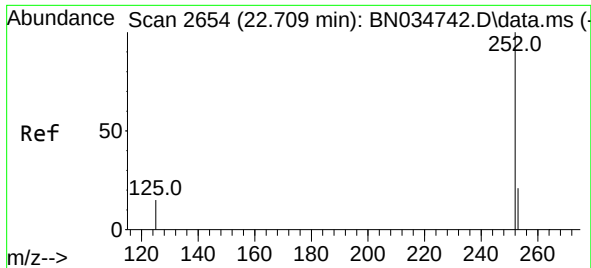
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.386 ng
RT: 25.513 min Scan# 3613
Delta R.T. -0.023 min
Lab File: BN034837.D
Acq: 04 Nov 2024 10:45

Tgt Ion:276 Resp: 22092
Ion Ratio Lower Upper
276 100
138 43.4 31.5 47.3
277 24.5 19.7 29.5





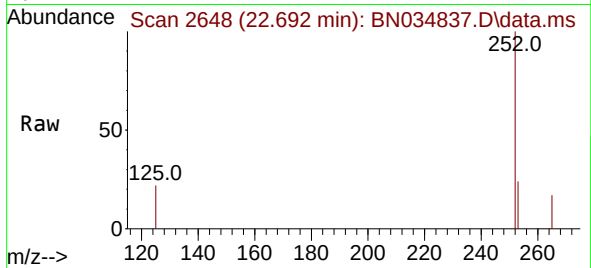
#37
Benzo(b)fluoranthene
Concen: 0.371 ng
RT: 22.692 min Scan# 2648
Delta R.T. -0.017 min
Lab File: BN034837.D
Acq: 04 Nov 2024 10:45

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

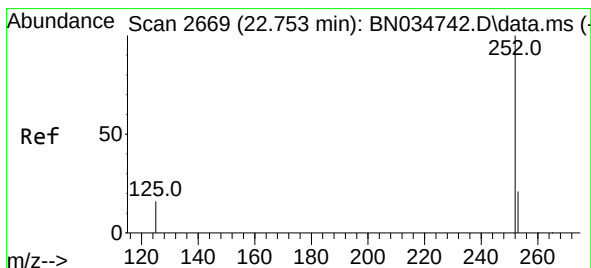
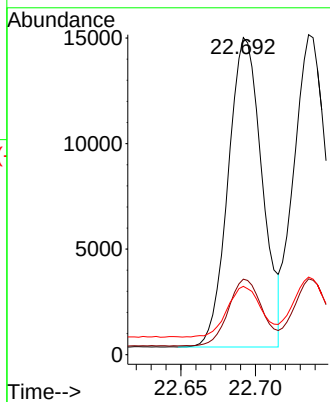
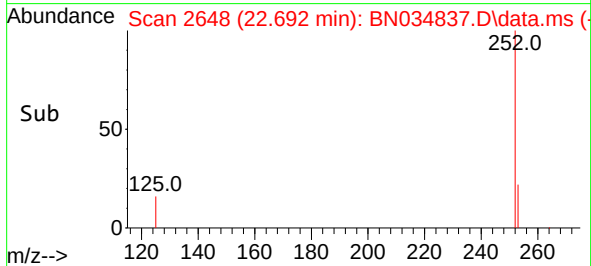


Tgt Ion:252 Resp: 23215
Ion Ratio Lower Upper
252 100
253 23.8 19.7 29.5
125 21.6 17.1 25.7

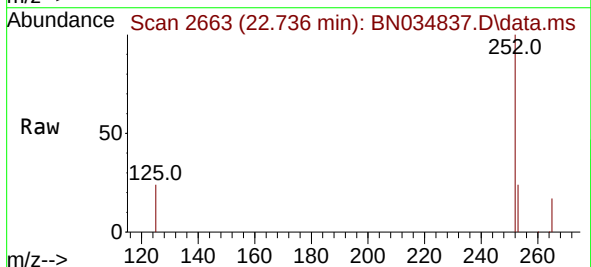
Manual Integrations

APPROVED

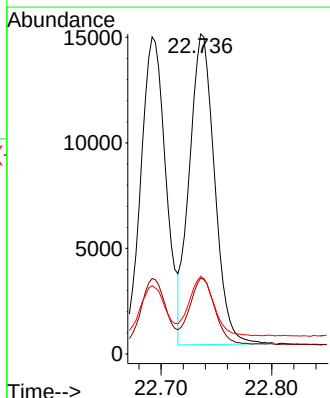
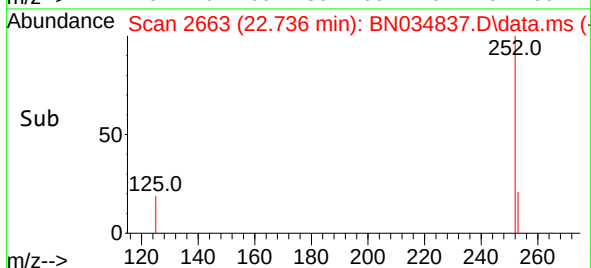
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024

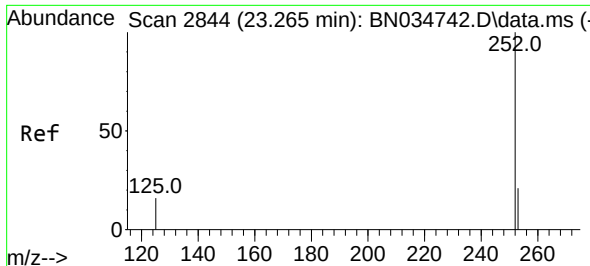


#38
Benzo(k)fluoranthene
Concen: 0.381 ng
RT: 22.736 min Scan# 2663
Delta R.T. -0.017 min
Lab File: BN034837.D
Acq: 04 Nov 2024 10:45



Tgt Ion:252 Resp: 23241
Ion Ratio Lower Upper
252 100
253 23.7 19.8 29.6
125 24.3 18.2 27.2





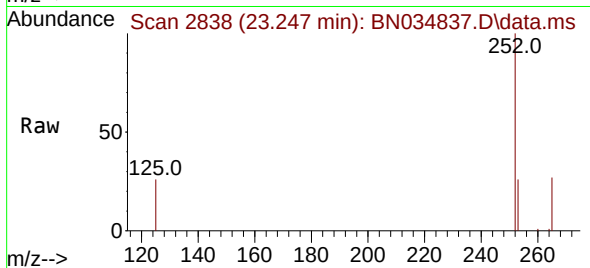
#39
Benzo(a)pyrene
Concen: 0.347 ng
RT: 23.247 min Scan# 21
Delta R.T. -0.017 min
Lab File: BN034837.D
Acq: 04 Nov 2024 10:45

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

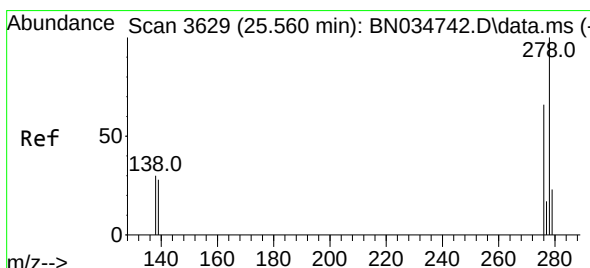
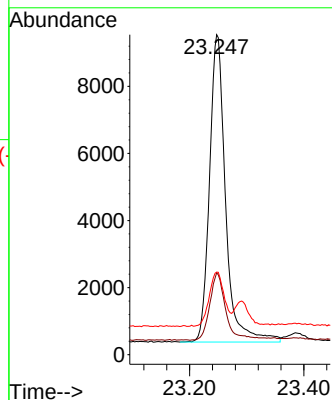
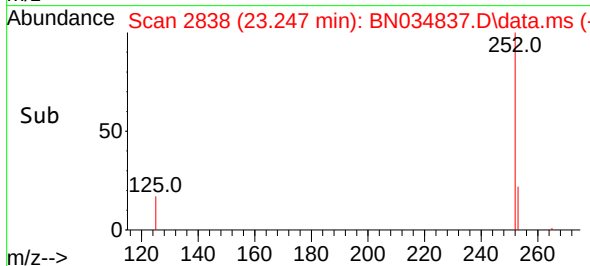


Tgt Ion:252 Resp: 17914
Ion Ratio Lower Upper
252 100
253 25.6 20.7 31.1
125 25.8 20.3 30.5

Manual Integrations

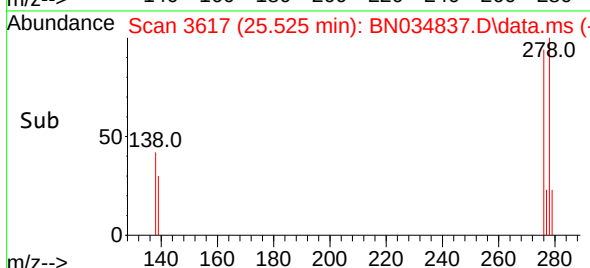
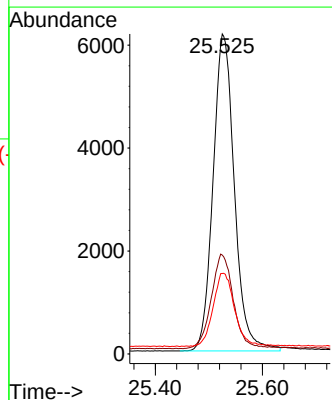
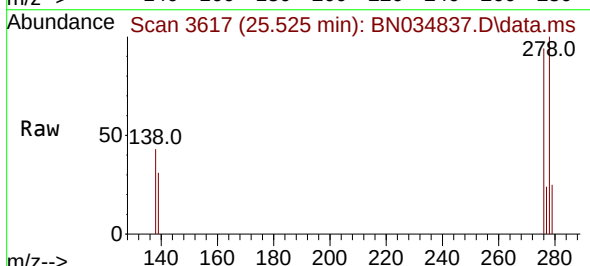
APPROVED

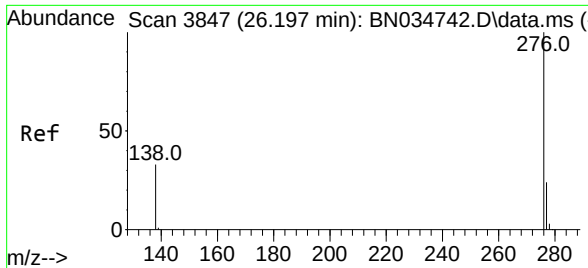
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



#40
Dibenzo(a,h)anthracene
Concen: 0.382 ng
RT: 25.525 min Scan# 3617
Delta R.T. -0.035 min
Lab File: BN034837.D
Acq: 04 Nov 2024 10:45

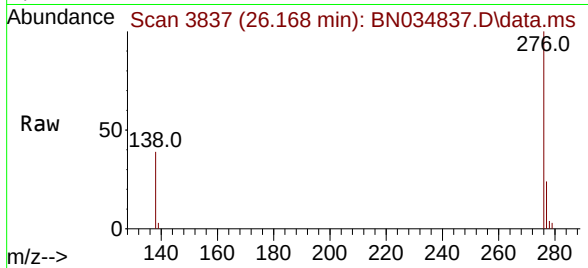
Tgt Ion:278 Resp: 17024
Ion Ratio Lower Upper
278 100
139 30.9 24.9 37.3
279 25.2 21.0 31.4





#41
Benzo(g,h,i)perylene
Concen: 0.378 ng
RT: 26.168 min Scan# 3847
Delta R.T. -0.029 min
Lab File: BN034837.D
Acq: 04 Nov 2024 10:45

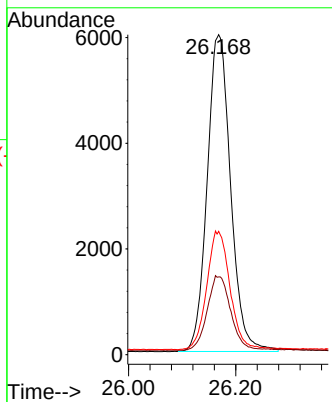
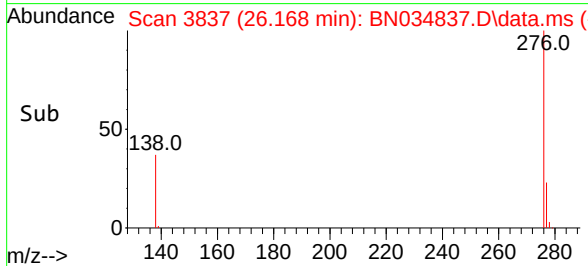
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion: 276 Resp: 18218
Ion Ratio Lower Upper
276 100
277 24.3 20.2 30.2
138 38.6 28.7 43.1

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110424\
Data File : BN034837.D
Acq On : 04 Nov 2024 10:45
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Nov 04 11:21:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 30 13:28:24 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	104	0.00
2	1,4-Dioxane	0.439	0.380	13.4	97	0.00
3	n-Nitrosodimethylamine	0.494	0.484	2.0	115	0.00
4 S	2-Fluorophenol	1.212	1.321	-9.0	125	0.00
5 S	Phenol-d6	1.574	1.765	-12.1	130	0.00
6	bis(2-Chloroethyl)ether	1.149	1.083	5.7	107	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	102	0.01
8 S	Nitrobenzene-d5	0.314	0.267	15.0	98	0.00
9	Naphthalene	1.106	1.007	9.0	103	0.00
10	Hexachlorobutadiene	0.182	0.170	6.6	106	0.00
11 SURR	2-Methylnaphthalene-d10	0.579	0.509	12.1	100	0.00
12	2-Methylnaphthalene	0.723	0.641	11.3	101	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	96	0.00
14 S	2,4,6-Tribromophenol	0.198	0.184	7.1	112	0.00
15 S	2-Fluorobiphenyl	1.575	1.431	9.1	101	0.00
16	Acenaphthylene	2.007	1.635	18.5	93	0.00
17	Acenaphthene	1.337	1.151	13.9	97	0.00
18	Fluorene	1.667	1.454	12.8	97	0.01
19 I	Phenanthrene-d10	1.000	1.000	0.0	97	0.00
20	4,6-Dinitro-2-methylphenol	0.059	0.035	40.7#	76	0.00
21	4-Bromophenyl-phenylether	0.231	0.200	13.4	93	0.00
22	Hexachlorobenzene	0.259	0.244	5.8	100	0.00
23	Atrazine	0.199	0.228	-14.6	124	0.00
24	Pentachlorophenol	0.112	0.094	16.1	100	0.00
25	Phenanthrene	1.176	1.092	7.1	99	0.00
26	Anthracene	1.101	0.955	13.3	94	0.00
27 SURR	Fluoranthene-d10	0.938	0.850	9.4	97	0.00
28	Fluoranthene	1.297	1.197	7.7	99	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	103	0.00
30	Pyrene	2.091	1.854	11.3	99	0.00
31 S	Terphenyl-d14	0.859	0.704	18.0	92	0.00
32	Benzo(a)anthracene	1.592	1.378	13.4	101	0.00
33	Chrysene	1.559	1.470	5.7	108	0.00
34	Bis(2-ethylhexyl)phthalate	1.331	1.097	17.6	88	0.00
35 I	Perylene-d12	1.000	1.000	0.0	106	0.00
36	Indeno(1,2,3-cd)pyrene	1.471	1.421	3.4	113	0.00
37	Benzo(b)fluoranthene	1.610	1.493	7.3	109	0.00
38	Benzo(k)fluoranthene	1.571	1.495	4.8	113	0.00
39 C	Benzo(a)pyrene	1.329	1.152	13.3	103	0.00
40	Dibenzo(a,h)anthracene	1.147	1.095	4.5	112	0.00
41	Benzo(g,h,i)perylene	1.240	1.172	5.5	109	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110424\
Data File : BN034837.D
Acq On : 04 Nov 2024 10:45
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Nov 04 11:21:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 30 13:28:24 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	104	0.00
2	1,4-Dioxane	0.400	0.347	13.3	97	0.00
3	n-Nitrosodimethylamine	0.400	0.392	2.0	115	0.00
4 S	2-Fluorophenol	0.400	0.436	-9.0	125	0.00
5 S	Phenol-d6	0.400	0.448	-12.0	130	0.00
6	bis(2-Chloroethyl)ether	0.400	0.377	5.8	107	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	102	0.01
8 S	Nitrobenzene-d5	0.400	0.339	15.3	98	0.00
9	Naphthalene	0.400	0.364	9.0	103	0.00
10	Hexachlorobutadiene	0.400	0.374	6.5	106	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.352	12.0	100	0.00
12	2-Methylnaphthalene	0.400	0.354	11.5	101	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	96	0.00
14 S	2,4,6-Tribromophenol	0.400	0.373	6.8	112	0.00
15 S	2-Fluorobiphenyl	0.400	0.363	9.3	101	0.00
16	Acenaphthylene	0.400	0.326	18.5	93	0.00
17	Acenaphthene	0.400	0.344	14.0	97	0.00
18	Fluorene	0.400	0.349	12.8	97	0.01
19 I	Phenanthrene-d10	0.400	0.400	0.0	97	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.362	9.5	76	0.00
21	4-Bromophenyl-phenylether	0.400	0.346	13.5	93	0.00
22	Hexachlorobenzene	0.400	0.376	6.0	100	0.00
23	Atrazine	0.400	0.457	-14.2	124	0.00
24	Pentachlorophenol	0.400	0.336	16.0	100	0.00
25	Phenanthrene	0.400	0.371	7.3	99	0.00
26	Anthracene	0.400	0.347	13.3	94	0.00
27 SURR	Fluoranthene-d10	0.400	0.362	9.5	97	0.00
28	Fluoranthene	0.400	0.369	7.8	99	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	103	0.00
30	Pyrene	0.400	0.355	11.3	99	0.00
31 S	Terphenyl-d14	0.400	0.328	18.0	92	0.00
32	Benzo(a)anthracene	0.400	0.346	13.5	101	0.00
33	Chrysene	0.400	0.377	5.8	108	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.330	17.5	88	0.00
35 I	Perylene-d12	0.400	0.400	0.0	106	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.386	3.5	113	0.00
37	Benzo(b)fluoranthene	0.400	0.371	7.3	109	0.00
38	Benzo(k)fluoranthene	0.400	0.381	4.8	113	0.00
39 C	Benzo(a)pyrene	0.400	0.347	13.3	103	0.00
40	Dibenzo(a,h)anthracene	0.400	0.382	4.5	112	0.00
41	Benzo(g,h,i)perylene	0.400	0.378	5.5	109	0.00

(#) = Out of Range

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



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P4652 SAS No.: P4652 SDG No.: P4652

Instrument ID: BNA_N Calibration Date/Time: 11/04/2024 20:18

Lab File ID: BN034848.D Init. Calib. Date(s): 10/30/2024 10/30/2024

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 09:20 12:56

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.579	0.488		-15.7	50.0
Fluoranthene-d10	0.938	0.802		-14.5	50.0
2-Fluorophenol	1.212	1.008		-16.8	50.0
Phenol-d6	1.574	1.339		-14.9	50.0
Nitrobenzene-d5	0.314	0.263		-16.2	50.0
2-Fluorobiphenyl	1.575	1.392		-11.6	50.0
2,4,6-Tribromophenol	0.198	0.112		-43.4	50.0
Terphenyl-d14	0.859	0.716		-16.6	50.0
1,4-Dioxane	0.439	0.402		-8.4	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110424\
 Data File : BN034848.D
 Acq On : 04 Nov 2024 20:18
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Nov 04 23:45:10 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 30 13:28:24 2024
 Response via : Initial Calibration

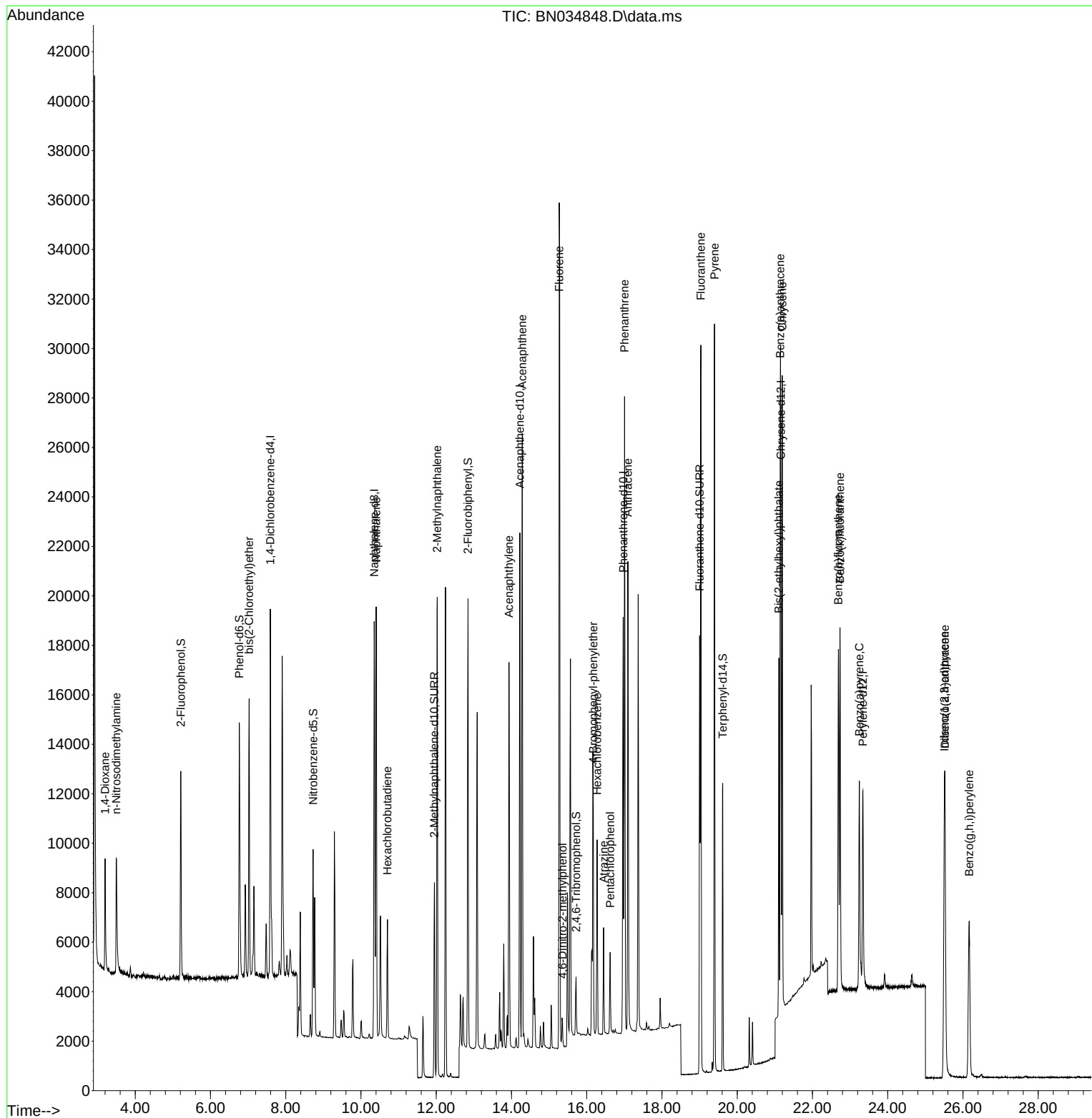
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.589	152	6946	0.400	ng	-0.01
7) Naphthalene-d8	10.351	136	21775	0.400	ng	#-0.02
13) Acenaphthene-d10	14.222	164	11088	0.400	ng	-0.01
19) Phenanthrene-d10	16.970	188	21807	0.400	ng	-0.01
29) Chrysene-d12	21.160	240	13250	0.400	ng	#-0.02
35) Perylene-d12	23.341	264	10244	0.400	ng	-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.213	112	7000	0.333	ng	0.00
5) Phenol-d6	6.766	99	9300	0.340	ng	-0.01
8) Nitrobenzene-d5	8.728	82	5736	0.335	ng	-0.01
11) 2-Methylnaphthalene-d10	11.950	152	10631	0.337	ng	-0.02
14) 2,4,6-Tribromophenol	15.716	330	1240	0.226	ng	-0.01
15) 2-Fluorobiphenyl	12.843	172	15433	0.353	ng	-0.02
27) Fluoranthene-d10	19.001	212	17483	0.342	ng	-0.01
31) Terphenyl-d14	19.614	244	9492	0.334	ng	-0.01
Target Compounds						
2) 1,4-Dioxane	3.198	88	2791	0.367	ng	93
3) n-Nitrosodimethylamine	3.494	42	3580	0.417	ng	# 86
6) bis(2-Chloroethyl)ether	7.026	93	7541	0.378	ng	95
9) Naphthalene	10.404	128	21480	0.357	ng	99
10) Hexachlorobutadiene	10.703	225	3485	0.351	ng	# 100
12) 2-Methylnaphthalene	12.026	142	13370	0.339	ng	99
16) Acenaphthylene	13.933	152	17314	0.311	ng	100
17) Acenaphthene	14.286	154	12416	0.335	ng	98
18) Fluorene	15.270	166	15421	0.334	ng	100
20) 4,6-Dinitro-2-methylph...	15.355	198	723	0.353	ng	# 81
21) 4-Bromophenyl-phenylether	16.175	248	4301	0.341	ng	# 91
22) Hexachlorobenzene	16.275	284	5282	0.374	ng	96
23) Atrazine	16.448	200	3056	0.281	ng	97
24) Pentachlorophenol	16.622	266	1471	0.242	ng	97
25) Phenanthrene	17.007	178	23998	0.374	ng	100
26) Anthracene	17.094	178	20428	0.340	ng	100
28) Fluoranthene	19.034	202	25007	0.354	ng	99
30) Pyrene	19.396	202	25683	0.371	ng	100
32) Benzo(a)anthracene	21.142	228	18294	0.347	ng	100
33) Chrysene	21.196	228	19433	0.376	ng	100
34) Bis(2-ethylhexyl)phtha...	21.107	149	12489	0.283	ng	97
36) Indeno(1,2,3-cd)pyrene	25.504	276	14033	0.372	ng	95
37) Benzo(b)fluoranthene	22.689	252	16473	0.399	ng	98
38) Benzo(k)fluoranthene	22.733	252	16371	0.407	ng	96
39) Benzo(a)pyrene	23.244	252	11949	0.351	ng	95
40) Dibenzo(a,h)anthracene	25.522	278	10794	0.367	ng	99
41) Benzo(g,h,i)perylene	26.165	276	11582	0.365	ng	96

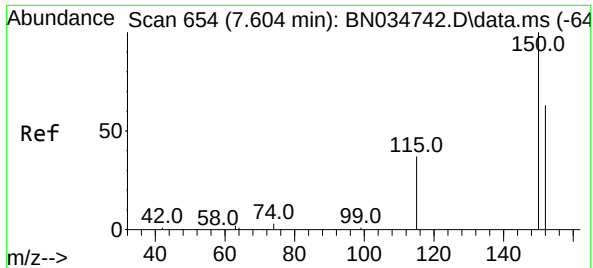
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Acq On : 04 Nov 2024 20:18
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Nov 04 23:45:10 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 30 13:28:24 2024
Response via : Initial Calibration

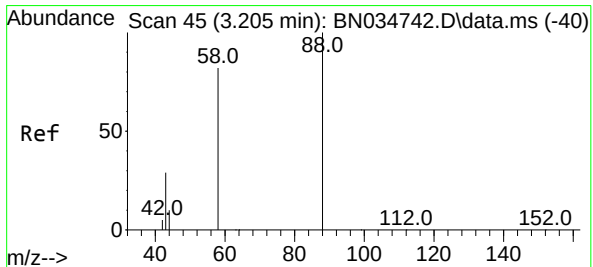
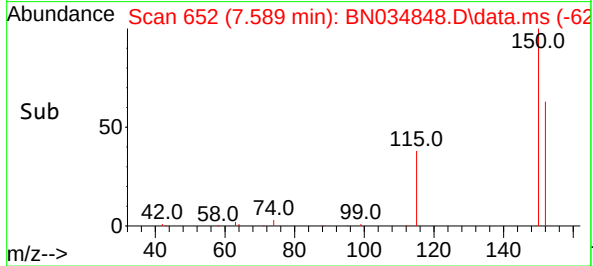
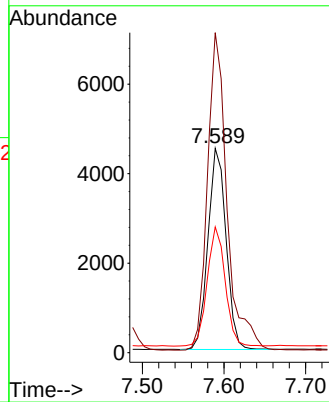
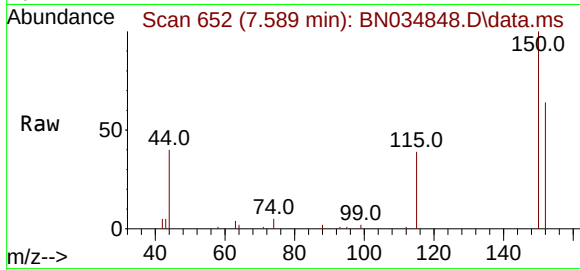




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.589 min Scan# 61
Delta R.T. -0.015 min
Lab File: BN034848.D
Acq: 04 Nov 2024 20:18

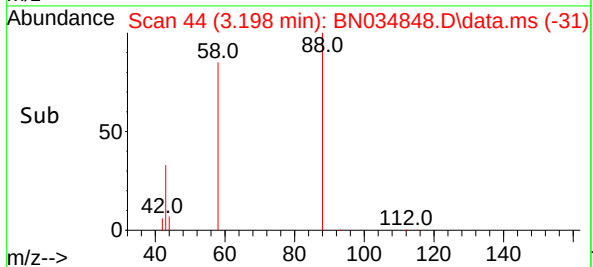
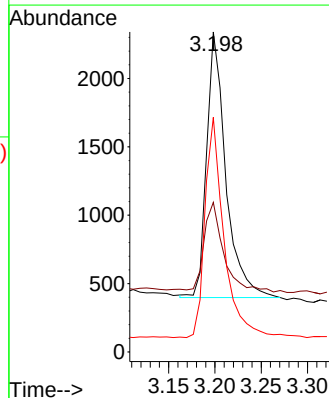
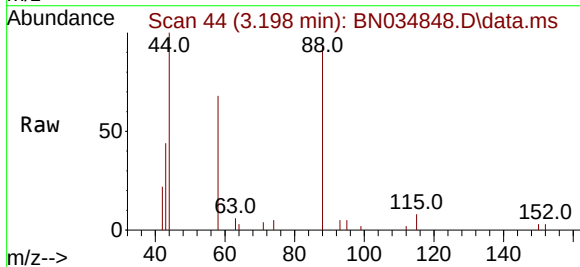
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BNA_N
ClientSampleId :
SSTDCCC0.4EC

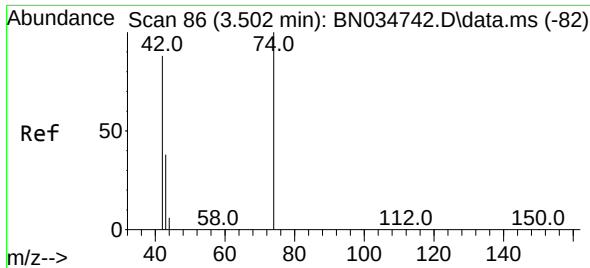
Tgt Ion:152 Resp: 6946
Ion Ratio Lower Upper
152 100
150 156.6 124.9 187.3
115 61.6 50.2 75.2



#2
1,4-Dioxane
Concen: 0.367 ng
RT: 3.198 min Scan# 44
Delta R.T. -0.007 min
Lab File: BN034848.D
Acq: 04 Nov 2024 20:18

Tgt Ion: 88 Resp: 2791
Ion Ratio Lower Upper
88 100
43 34.5 26.7 40.1
58 82.0 59.3 88.9

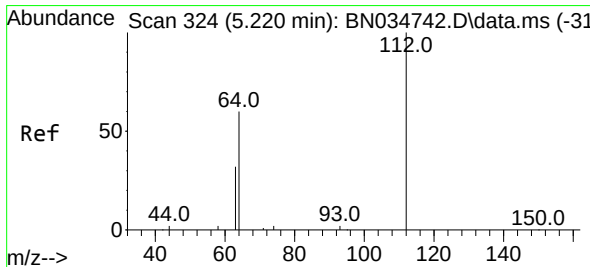
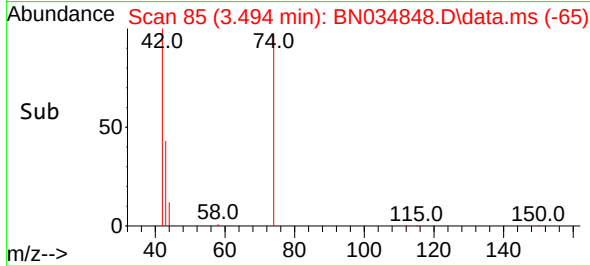
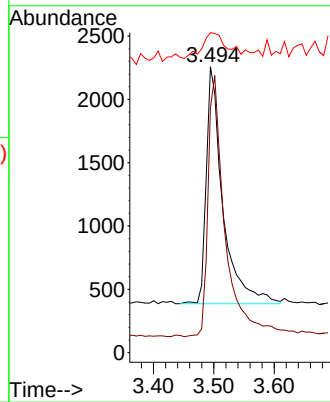
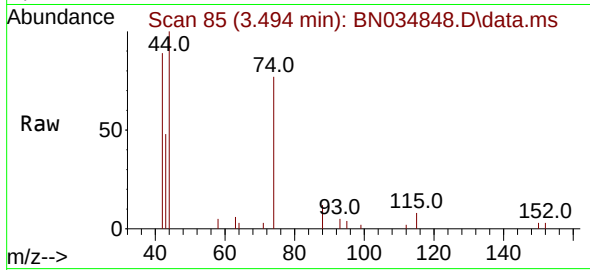




#3
n-Nitrosodimethylamine
Concen: 0.417 ng
RT: 3.494 min Scan# 81
Delta R.T. -0.007 min
Lab File: BN034848.D
Acq: 04 Nov 2024 20:18

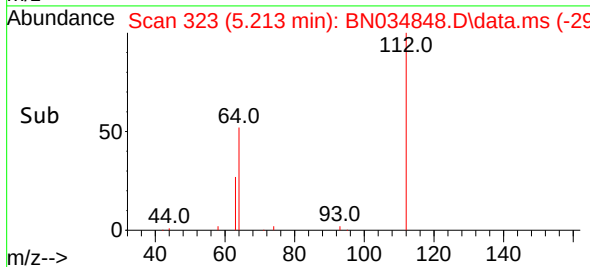
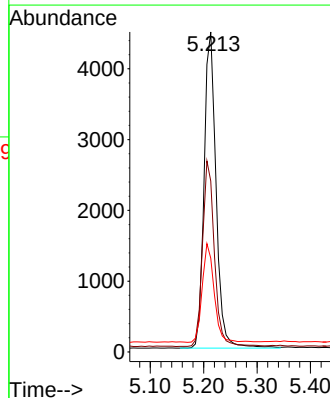
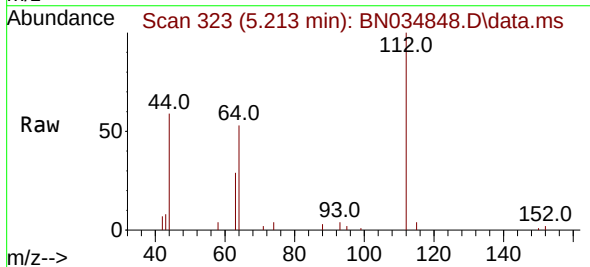
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

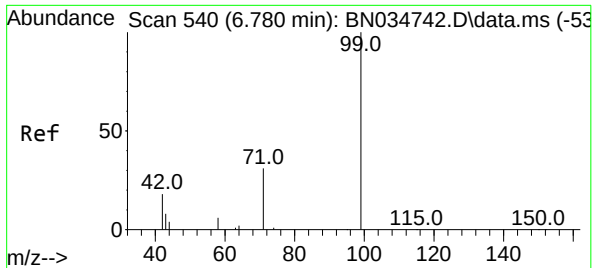
Tgt Ion: 42 Resp: 3580
Ion Ratio Lower Upper
42 100
74 114.1 103.1 154.7
44 19.7 6.7 10.1#



#4
2-Fluorophenol
Concen: 0.333 ng
RT: 5.213 min Scan# 323
Delta R.T. -0.007 min
Lab File: BN034848.D
Acq: 04 Nov 2024 20:18

Tgt Ion: 112 Resp: 7000
Ion Ratio Lower Upper
112 100
64 58.4 44.9 67.3
63 30.8 23.5 35.3

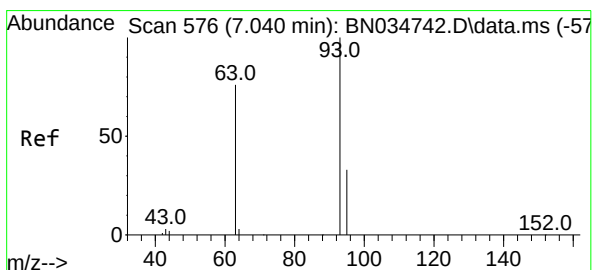
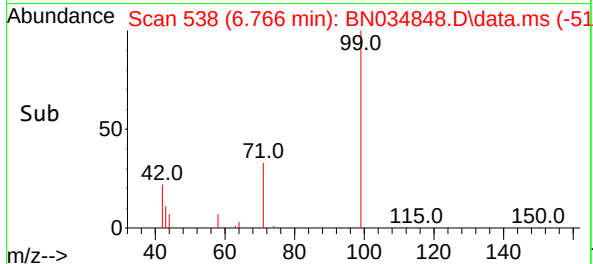
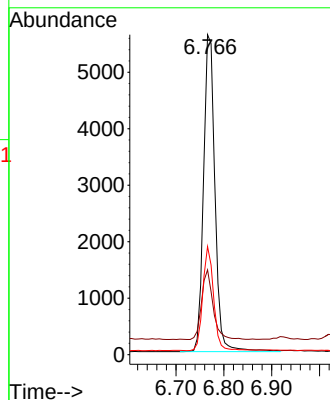
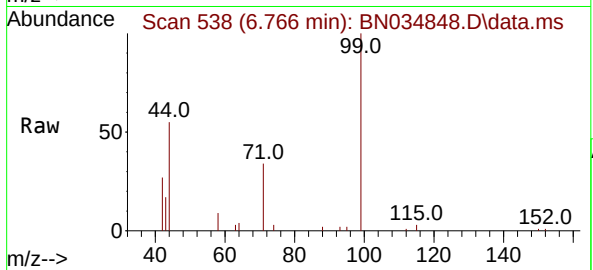




#5
Phenol-d6
Concen: 0.340 ng
RT: 6.766 min Scan# 51
Delta R.T. -0.014 min
Lab File: BN034848.D
Acq: 04 Nov 2024 20:18

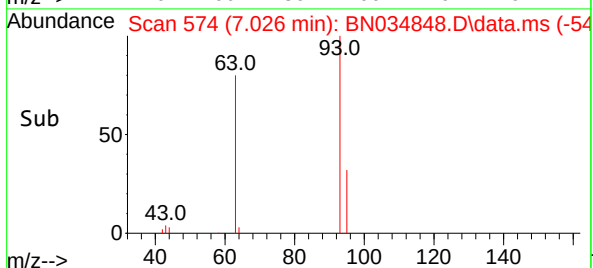
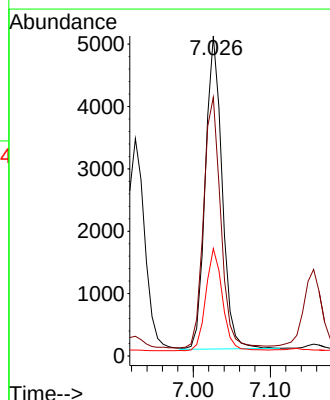
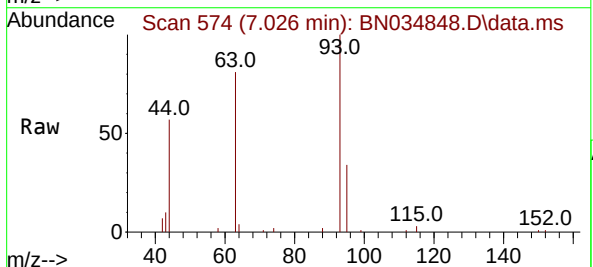
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

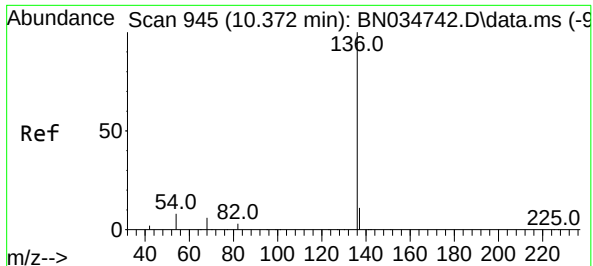
Tgt Ion: 99 Resp: 9300
Ion Ratio Lower Upper
99 100
42 21.9 15.9 23.9
71 31.3 24.3 36.5



#6
bis(2-Chloroethyl)ether
Concen: 0.378 ng
RT: 7.026 min Scan# 574
Delta R.T. -0.014 min
Lab File: BN034848.D
Acq: 04 Nov 2024 20:18

Tgt Ion: 93 Resp: 7541
Ion Ratio Lower Upper
93 100
63 82.1 61.2 91.8
95 32.3 25.8 38.8

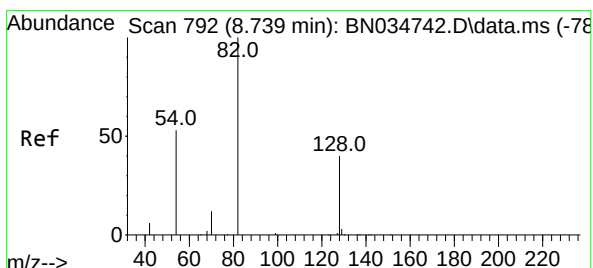
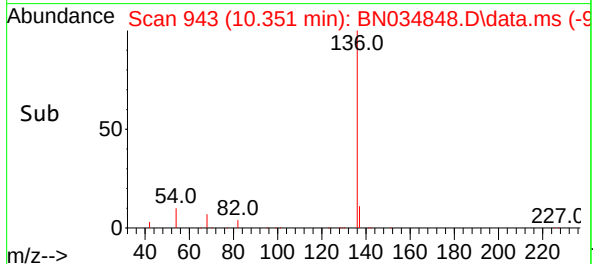
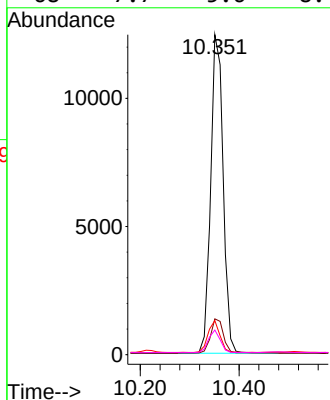
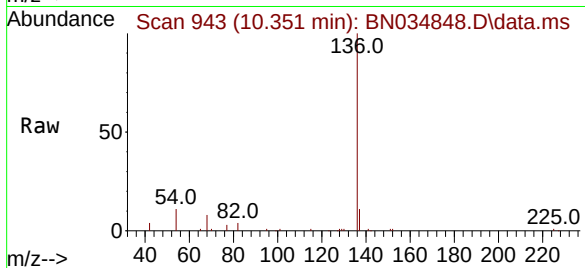




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 94
Delta R.T. -0.021 min
Lab File: BN034848.D
Acq: 04 Nov 2024 20:18

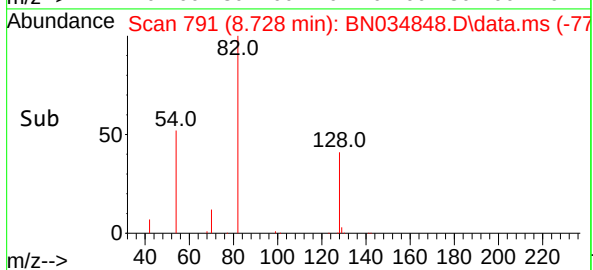
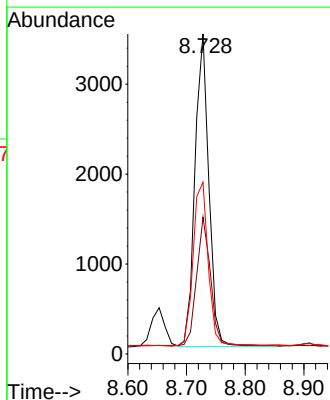
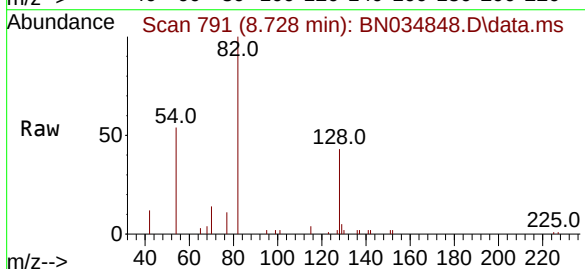
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

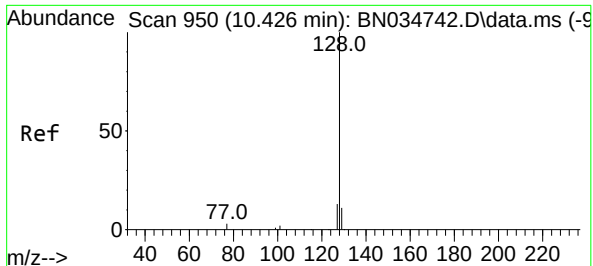
Tgt Ion:	136	Resp:	21775
Ion Ratio	Lower	Upper	
136	100		
137	11.2	9.2	13.8
54	10.6	7.0	10.4#
68	7.7	5.6	8.4



#8
Nitrobenzene-d5
Concen: 0.335 ng
RT: 8.728 min Scan# 791
Delta R.T. -0.011 min
Lab File: BN034848.D
Acq: 04 Nov 2024 20:18

Tgt Ion:	82	Resp:	5736
Ion Ratio	Lower	Upper	
82	100		
128	42.7	33.7	50.5
54	53.7	44.4	66.6

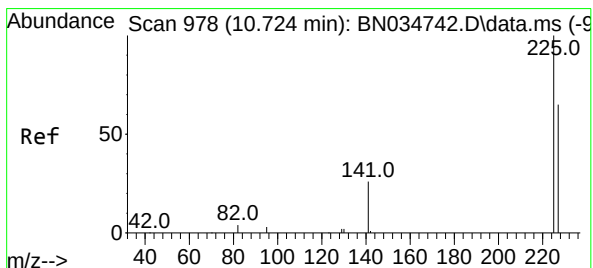
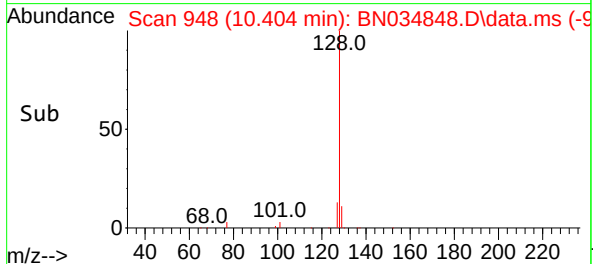
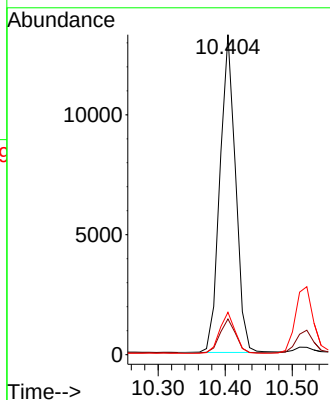
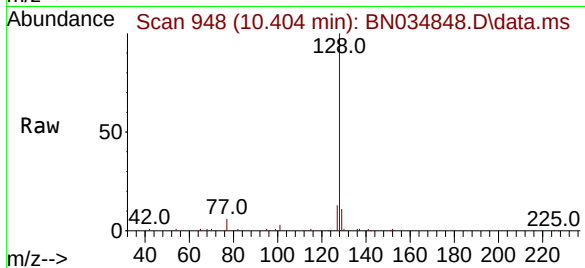




#9
Naphthalene
Concen: 0.357 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.021 min
Lab File: BN034848.D
Acq: 04 Nov 2024 20:18

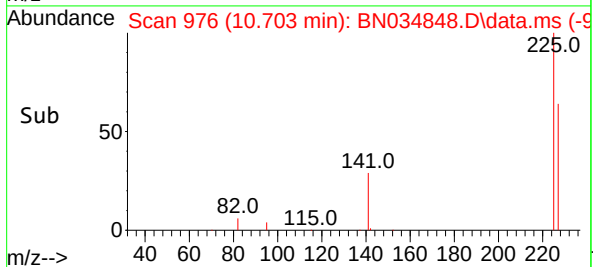
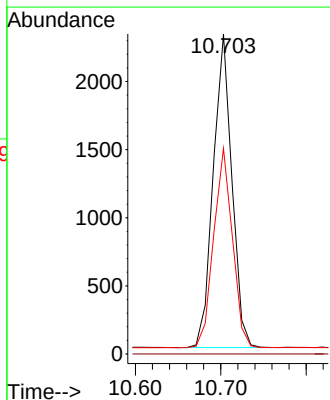
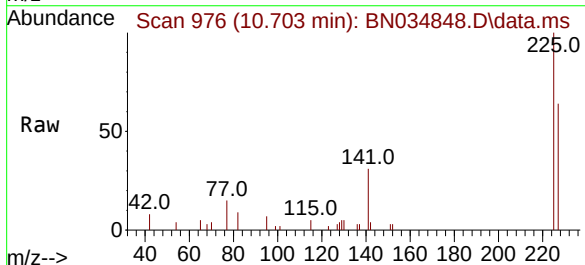
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

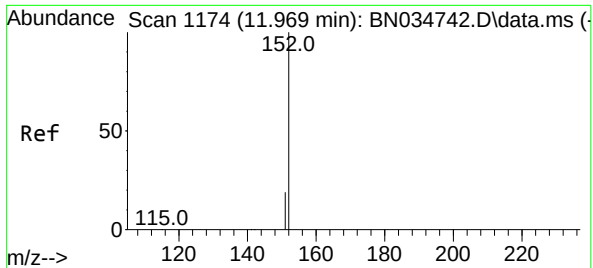
Tgt Ion:128 Resp: 21480
Ion Ratio Lower Upper
128 100
129 11.2 9.4 14.0
127 13.3 10.6 15.8



#10
Hexachlorobutadiene
Concen: 0.351 ng
RT: 10.703 min Scan# 976
Delta R.T. -0.021 min
Lab File: BN034848.D
Acq: 04 Nov 2024 20:18

Tgt Ion:225 Resp: 3485
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.2 51.4 77.2

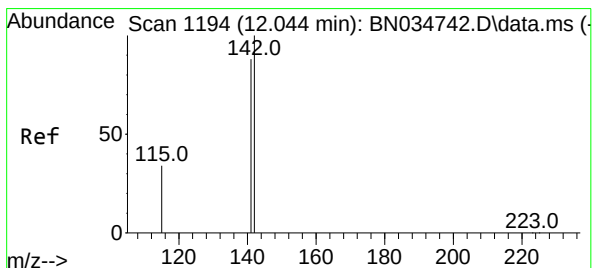
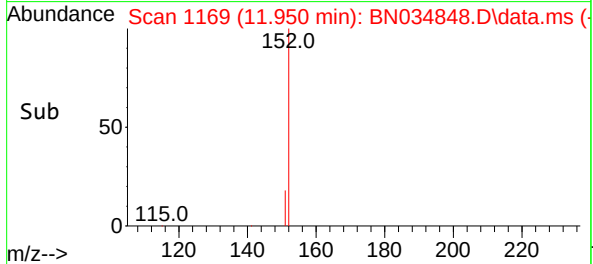
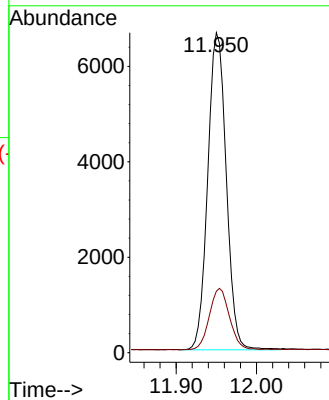
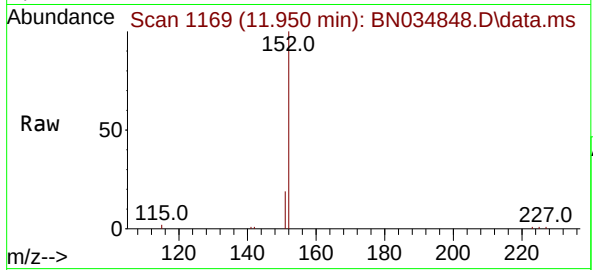




#11
2-Methylnaphthalene-d10
Concen: 0.337 ng
RT: 11.950 min Scan# 1189
Delta R.T. -0.019 min
Lab File: BN034848.D
Acq: 04 Nov 2024 20:18

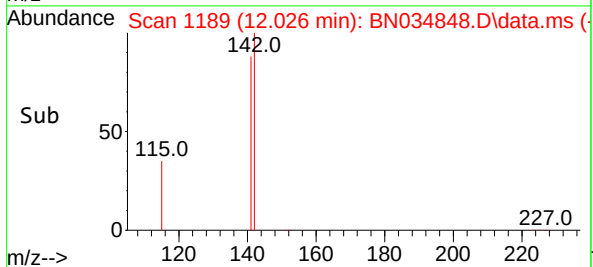
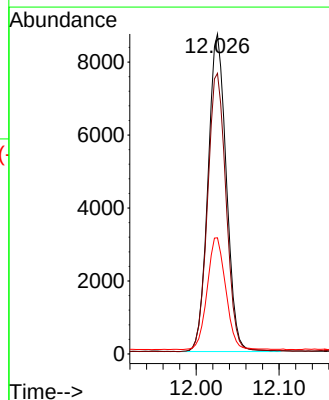
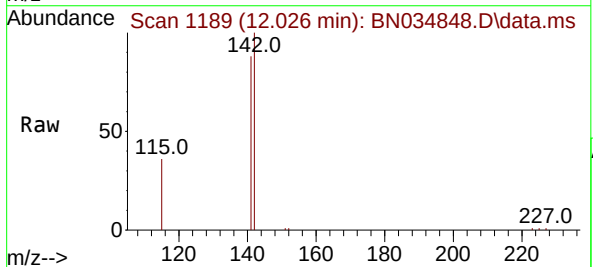
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

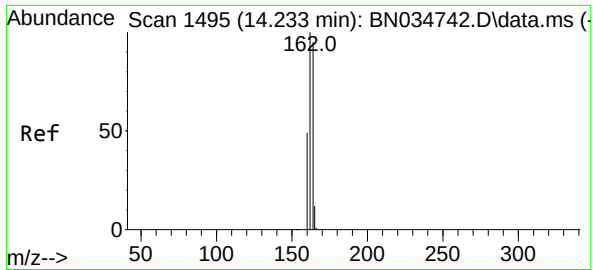
Tgt Ion:152 Resp: 10631
Ion Ratio Lower Upper
152 100
151 21.0 16.6 24.8



#12
2-Methylnaphthalene
Concen: 0.339 ng
RT: 12.026 min Scan# 1189
Delta R.T. -0.019 min
Lab File: BN034848.D
Acq: 04 Nov 2024 20:18

Tgt Ion:142 Resp: 13370
Ion Ratio Lower Upper
142 100
141 87.7 70.6 106.0
115 36.3 28.6 42.8

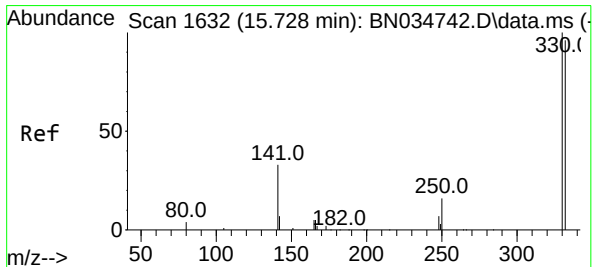
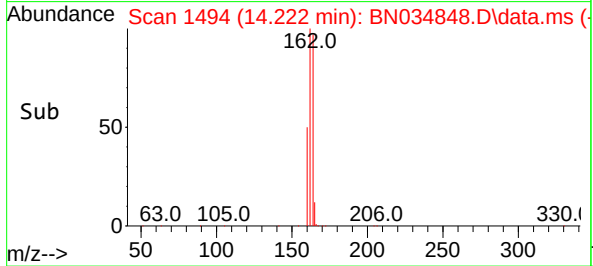
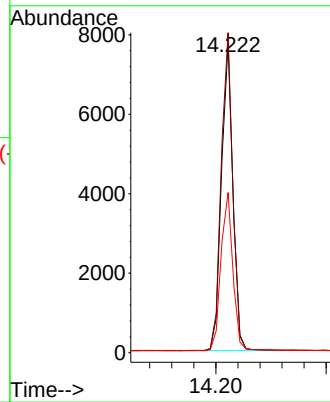
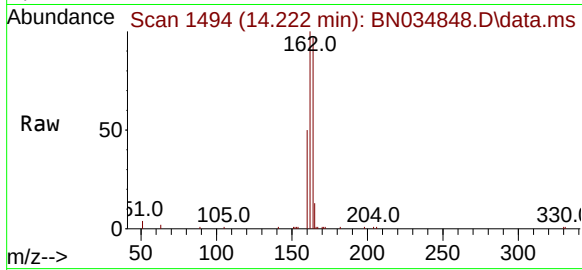




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.222 min Scan# 1494
Delta R.T. -0.011 min
Lab File: BN034848.D
Acq: 04 Nov 2024 20:18

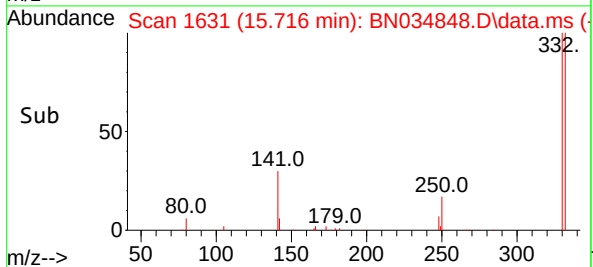
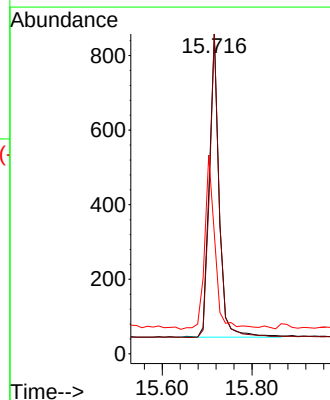
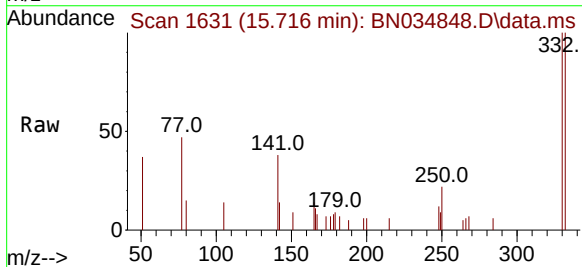
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

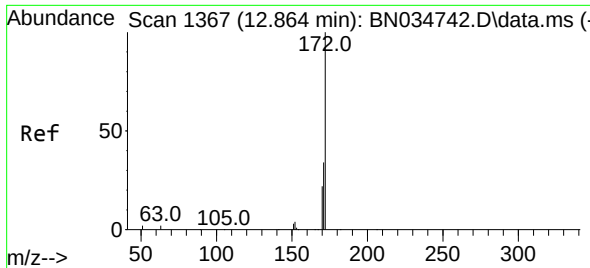
Tgt Ion:164 Resp: 11088
Ion Ratio Lower Upper
164 100
162 103.5 84.3 126.5
160 51.8 41.7 62.5



#14
2,4,6-Tribromophenol
Concen: 0.226 ng
RT: 15.716 min Scan# 1631
Delta R.T. -0.012 min
Lab File: BN034848.D
Acq: 04 Nov 2024 20:18

Tgt Ion:330 Resp: 1240
Ion Ratio Lower Upper
330 100
332 97.5 77.8 116.6
141 59.8 41.0 61.4

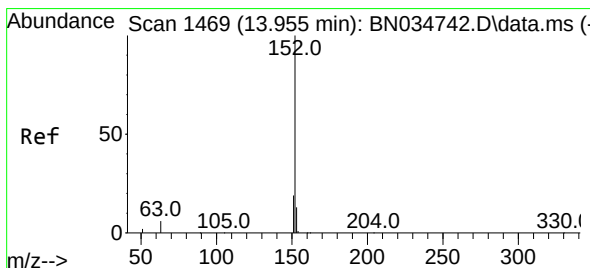
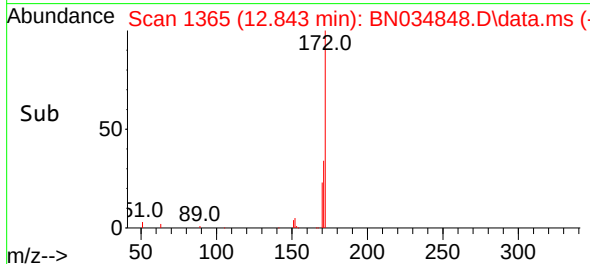
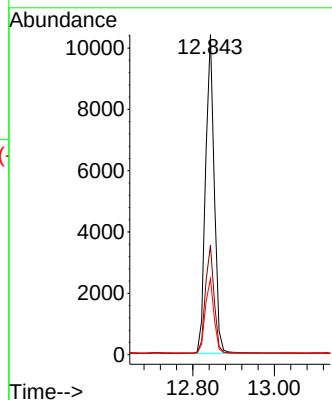
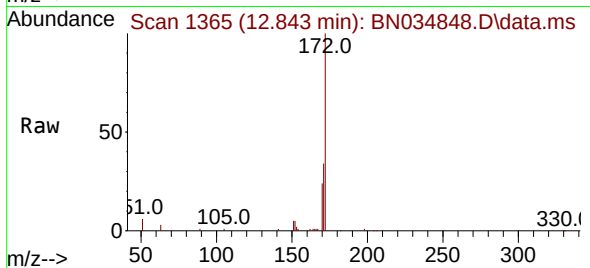




#15
2-Fluorobiphenyl
Concen: 0.353 ng
RT: 12.843 min Scan# 11
Delta R.T. -0.021 min
Lab File: BN034848.D
Acq: 04 Nov 2024 20:18

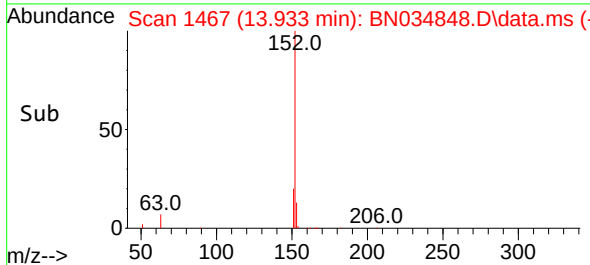
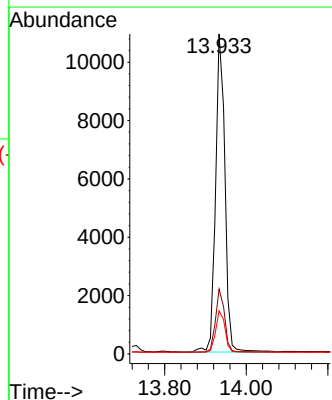
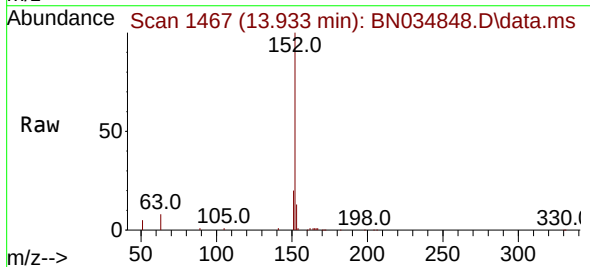
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

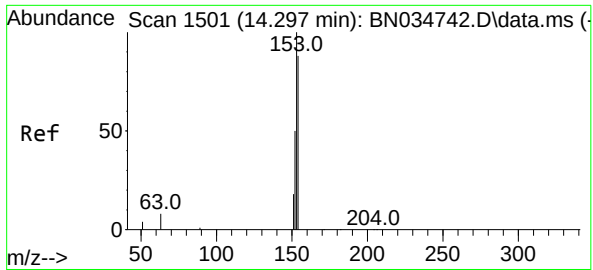
Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.2	27.2	40.8
170	23.8	18.0	27.0



#16
Acenaphthylene
Concen: 0.311 ng
RT: 13.933 min Scan# 1467
Delta R.T. -0.021 min
Lab File: BN034848.D
Acq: 04 Nov 2024 20:18

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.2	15.4	23.2
153	13.1	10.2	15.4

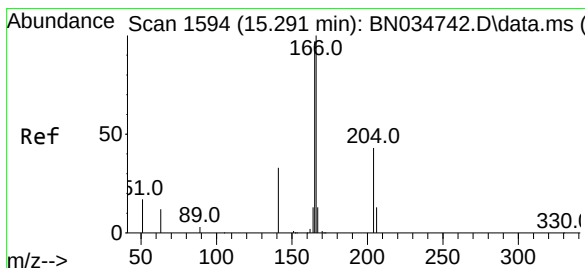
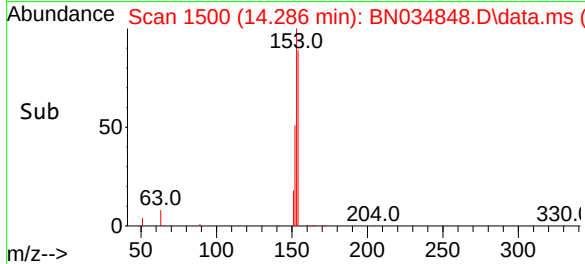
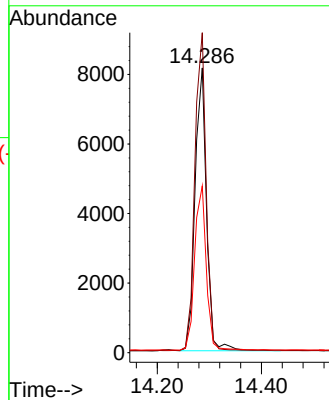
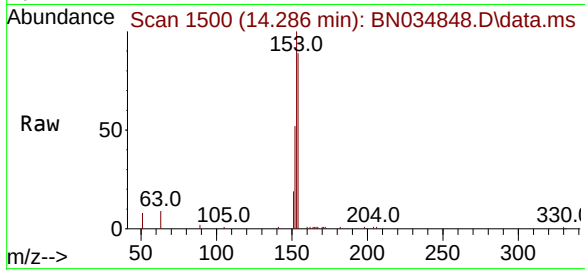




#17
Acenaphthene
Concen: 0.335 ng
RT: 14.286 min Scan# 1500
Delta R.T. -0.011 min
Lab File: BN034848.D
Acq: 04 Nov 2024 20:18

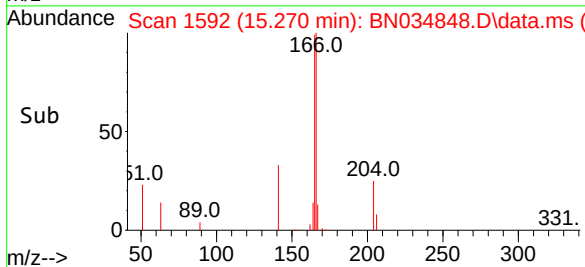
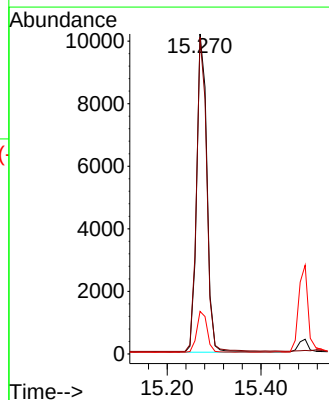
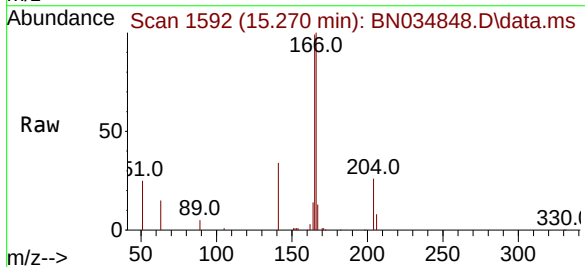
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

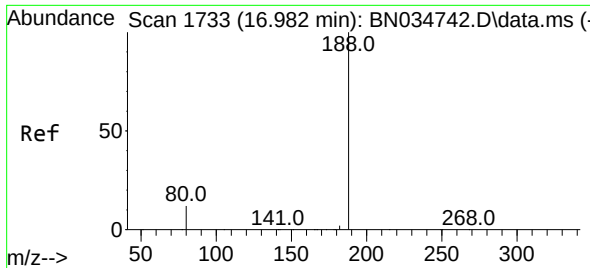
Tgt Ion:154 Resp: 12416
Ion Ratio Lower Upper
154 100
153 110.9 87.8 131.6
152 59.1 44.6 67.0



#18
Fluorene
Concen: 0.334 ng
RT: 15.270 min Scan# 1592
Delta R.T. -0.021 min
Lab File: BN034848.D
Acq: 04 Nov 2024 20:18

Tgt Ion:166 Resp: 15421
Ion Ratio Lower Upper
166 100
165 98.0 78.5 117.7
167 13.4 10.8 16.2

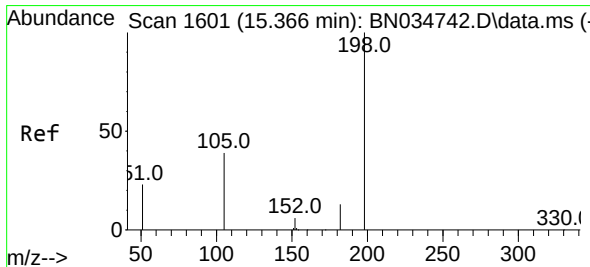
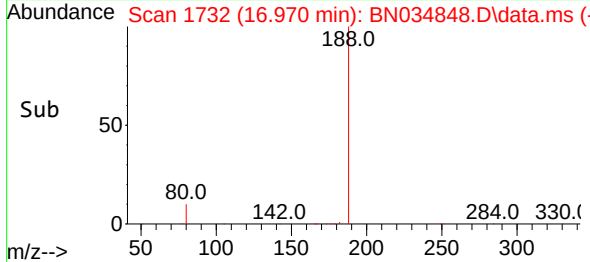
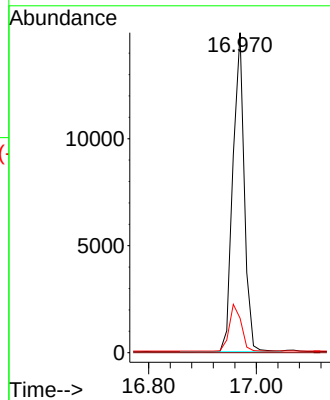
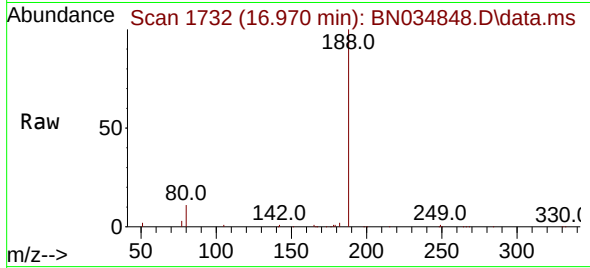




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.970 min Scan# 11
Delta R.T. -0.012 min
Lab File: BN034848.D
Acq: 04 Nov 2024 20:18

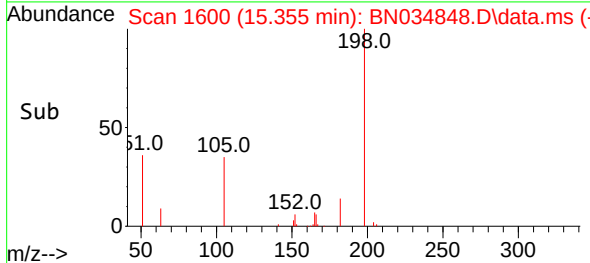
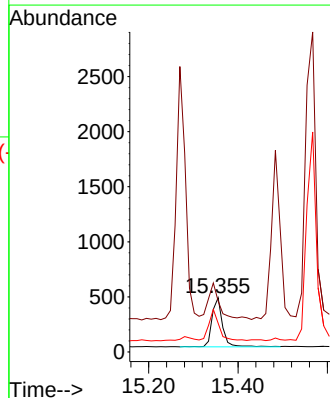
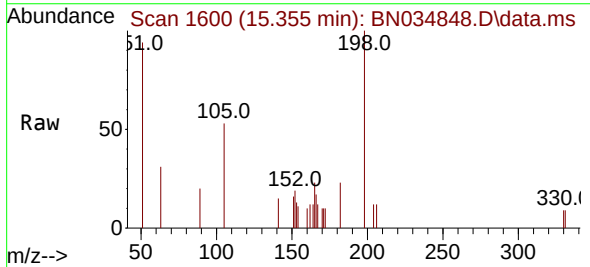
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

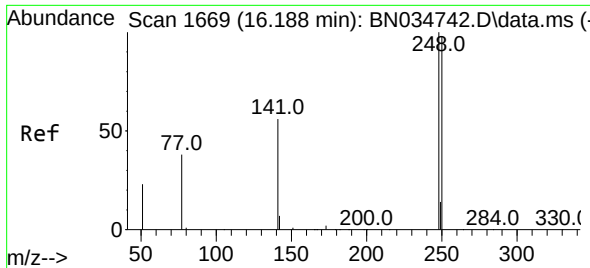
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.8	9.8	14.6



#20
4,6-Dinitro-2-methylphenol
Concen: 0.353 ng
RT: 15.355 min Scan# 1600
Delta R.T. -0.011 min
Lab File: BN034848.D
Acq: 04 Nov 2024 20:18

Tgt Ion	Ratio	Lower	Upper
198	100		
51	94.3	58.0	87.0#
105	53.0	49.1	73.7

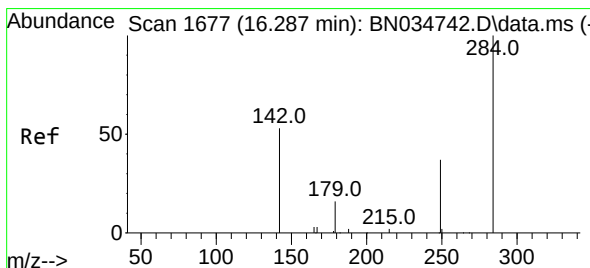
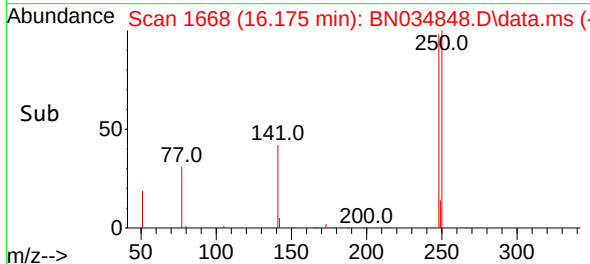
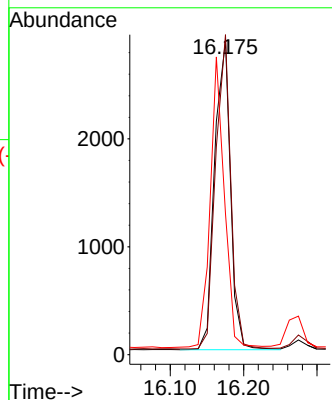
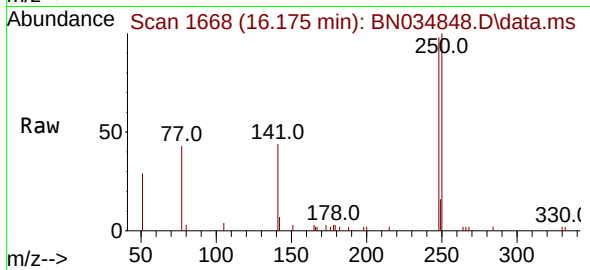




#21
4-Bromophenyl-phenylether
Concen: 0.341 ng
RT: 16.175 min Scan# 1668
Delta R.T. -0.012 min
Lab File: BN034848.D
Acq: 04 Nov 2024 20:18

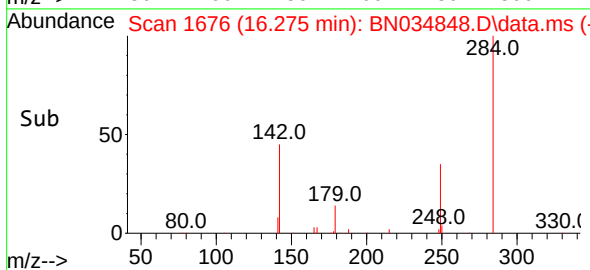
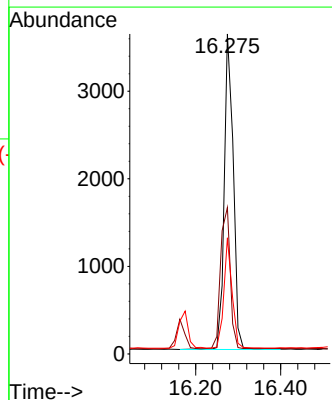
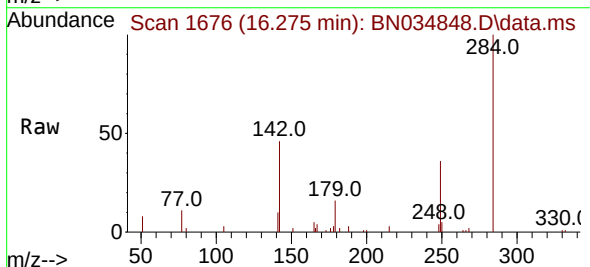
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

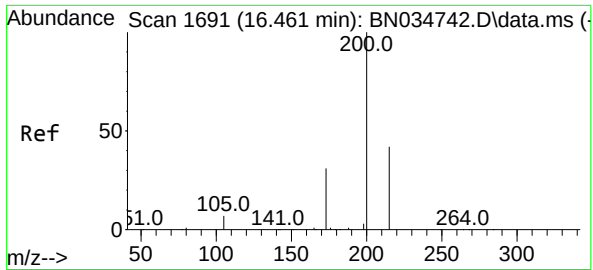
Tgt Ion:248 Resp: 4301
Ion Ratio Lower Upper
248 100
250 102.0 78.7 118.1
141 45.0 46.4 69.6#



#22
Hexachlorobenzene
Concen: 0.374 ng
RT: 16.275 min Scan# 1676
Delta R.T. -0.012 min
Lab File: BN034848.D
Acq: 04 Nov 2024 20:18

Tgt Ion:284 Resp: 5282
Ion Ratio Lower Upper
284 100
142 48.2 35.4 53.0
249 31.8 25.7 38.5

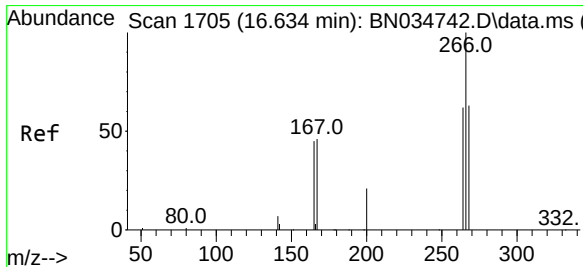
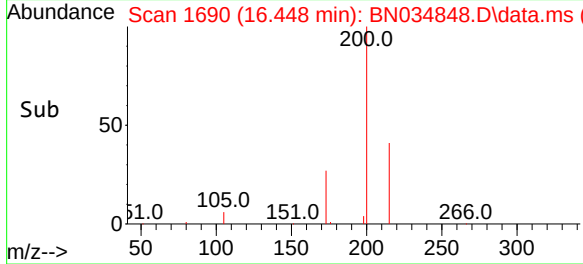
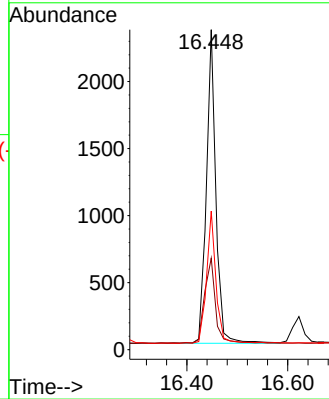
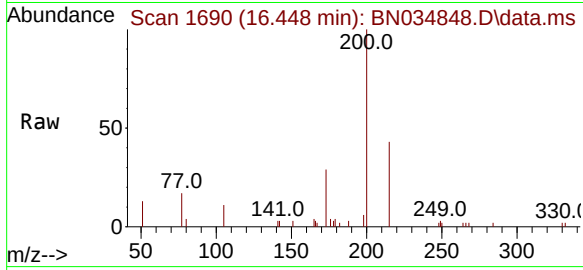




#23
Atrazine
Concen: 0.281 ng
RT: 16.448 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN034848.D
Acq: 04 Nov 2024 20:18

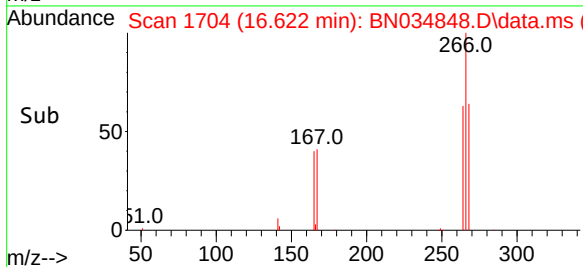
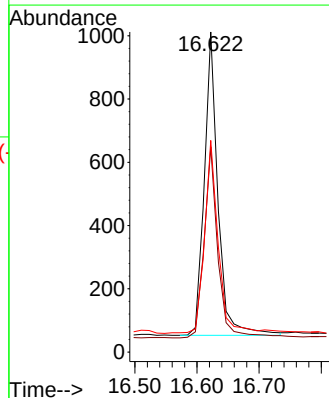
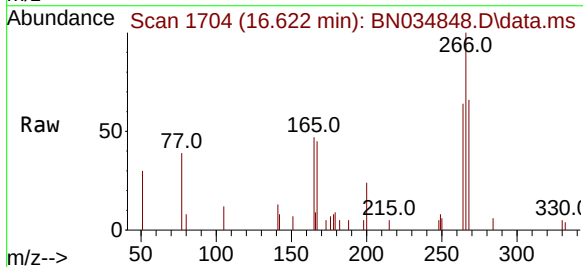
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

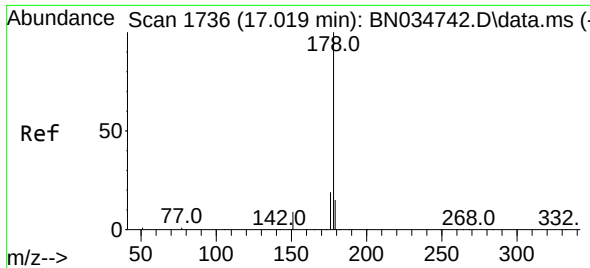
Tgt Ion	200	Resp:	3056
Ion Ratio	Lower	Upper	
200	100		
173	28.6	25.8	38.6
215	43.3	34.2	51.4



#24
Pentachlorophenol
Concen: 0.242 ng
RT: 16.622 min Scan# 1704
Delta R.T. -0.012 min
Lab File: BN034848.D
Acq: 04 Nov 2024 20:18

Tgt Ion	266	Resp:	1471
Ion Ratio	Lower	Upper	
266	100		
264	63.8	48.7	73.1
268	65.1	50.2	75.4

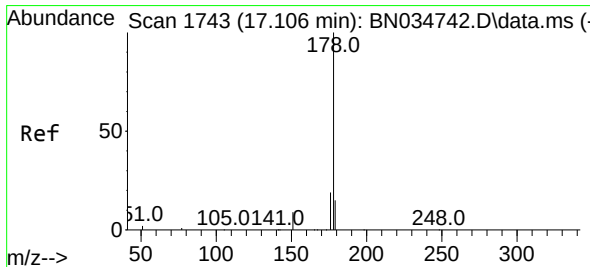
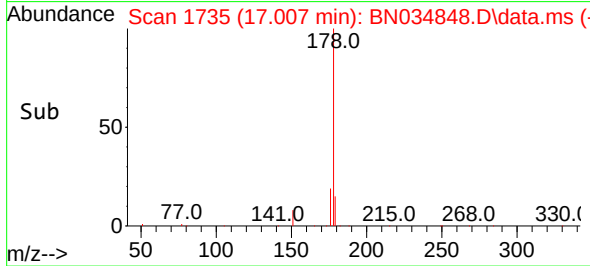
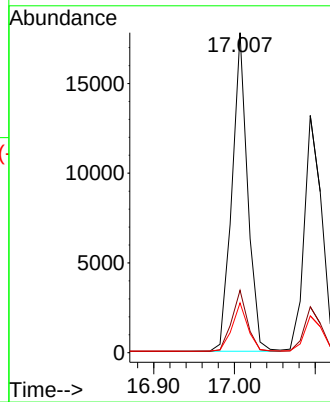
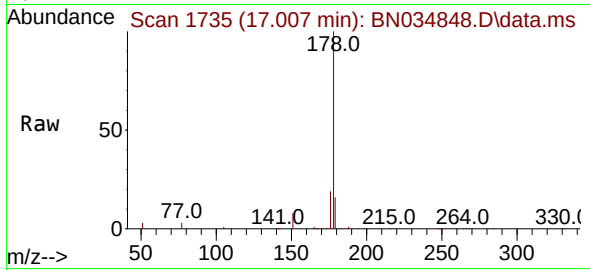




#25
Phenanthrene
Concen: 0.374 ng
RT: 17.007 min Scan# 1742
Delta R.T. -0.012 min
Lab File: BN034848.D
Acq: 04 Nov 2024 20:18

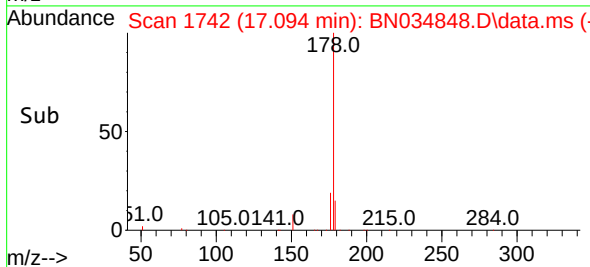
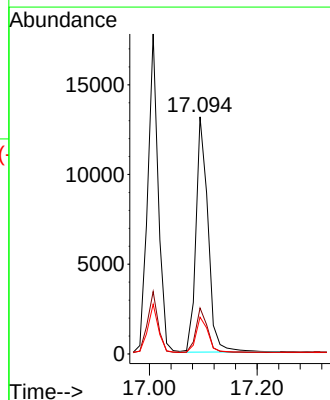
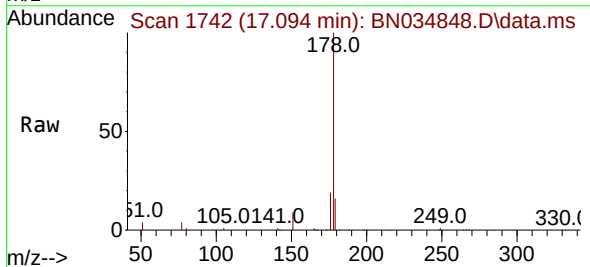
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

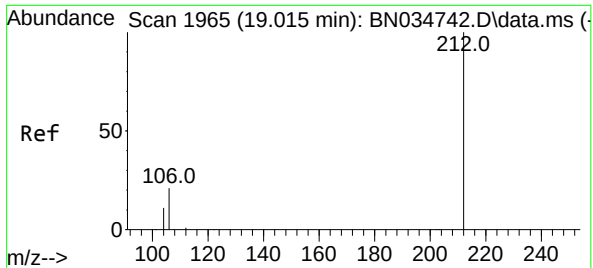
Tgt Ion:178 Resp: 23998
Ion Ratio Lower Upper
178 100
176 19.3 15.4 23.0
179 15.2 12.2 18.4



#26
Anthracene
Concen: 0.340 ng
RT: 17.094 min Scan# 1742
Delta R.T. -0.012 min
Lab File: BN034848.D
Acq: 04 Nov 2024 20:18

Tgt Ion:178 Resp: 20428
Ion Ratio Lower Upper
178 100
176 18.6 15.0 22.6
179 15.2 12.2 18.2

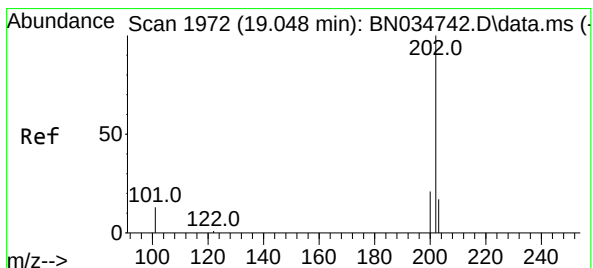
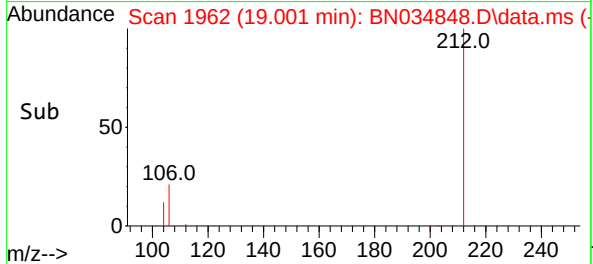
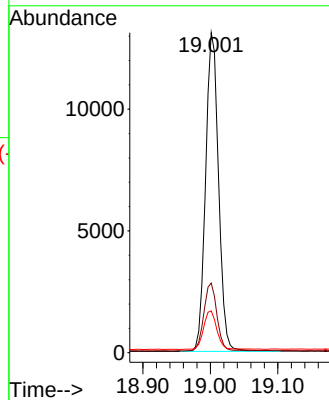
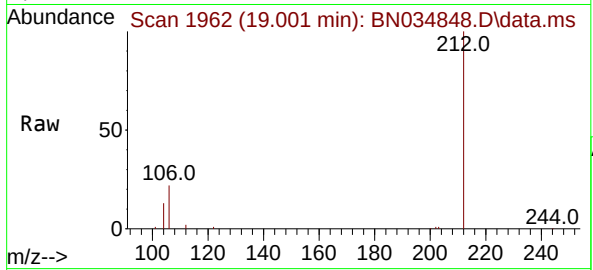




#27
Fluoranthene-d10
Concen: 0.342 ng
RT: 19.001 min Scan# 1969
Delta R.T. -0.014 min
Lab File: BN034848.D
Acq: 04 Nov 2024 20:18

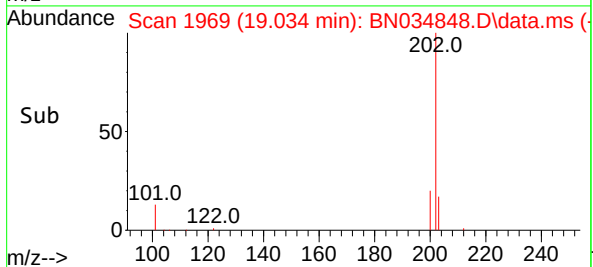
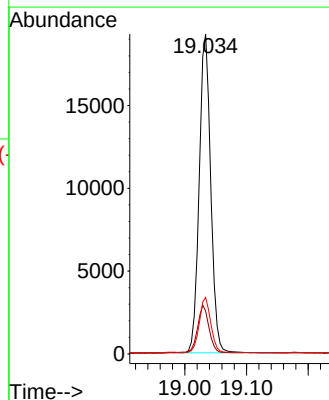
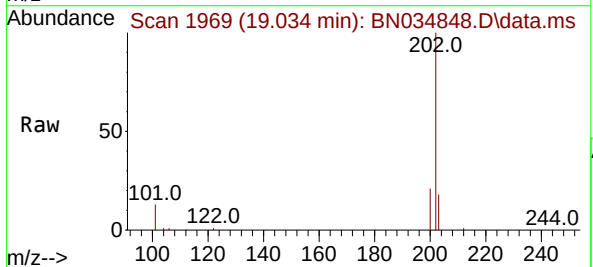
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

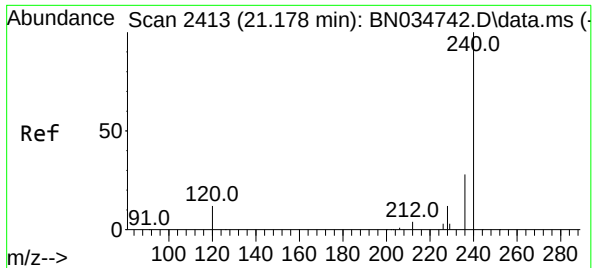
Tgt Ion:212 Resp: 17483
Ion Ratio Lower Upper
212 100
106 21.4 16.1 24.1
104 12.4 9.2 13.8



#28
Fluoranthene
Concen: 0.354 ng
RT: 19.034 min Scan# 1969
Delta R.T. -0.014 min
Lab File: BN034848.D
Acq: 04 Nov 2024 20:18

Tgt Ion:202 Resp: 25007
Ion Ratio Lower Upper
202 100
101 15.0 11.4 17.0
203 17.1 13.7 20.5

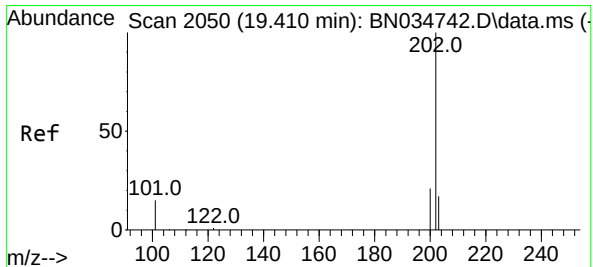
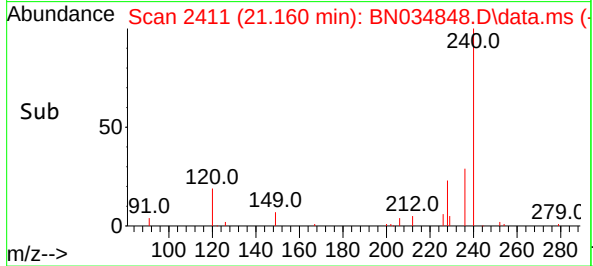
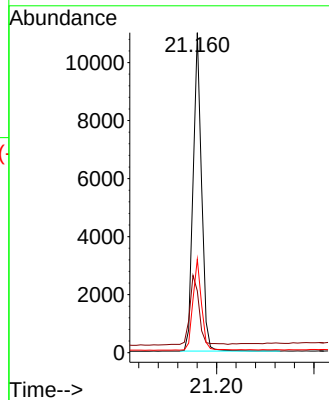
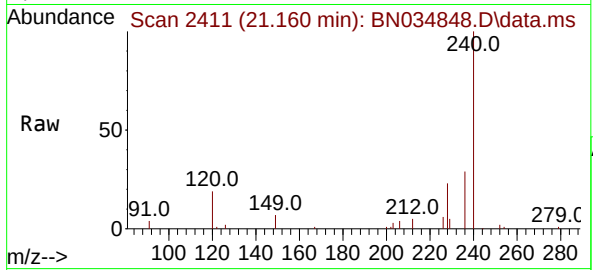




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.160 min Scan# 2411
Delta R.T. -0.018 min
Lab File: BN034848.D
Acq: 04 Nov 2024 20:18

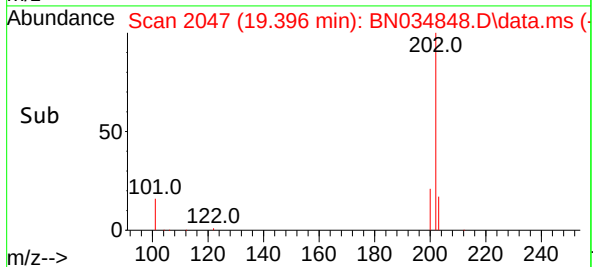
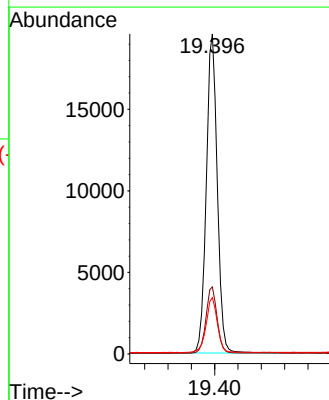
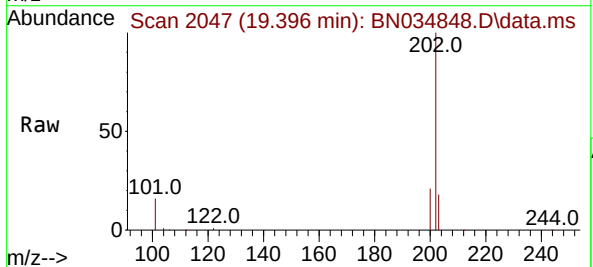
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

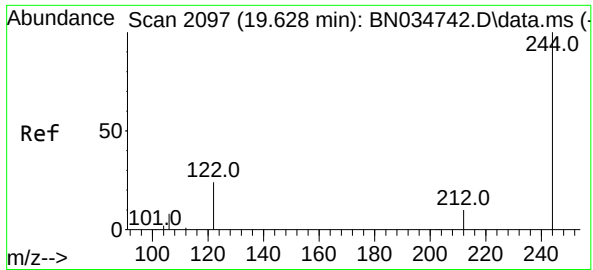
Tgt Ion:240 Resp: 13250
Ion Ratio Lower Upper
240 100
120 19.3 11.5 17.3#
236 29.2 23.2 34.8



#30
Pyrene
Concen: 0.371 ng
RT: 19.396 min Scan# 2047
Delta R.T. -0.014 min
Lab File: BN034848.D
Acq: 04 Nov 2024 20:18

Tgt Ion:202 Resp: 25683
Ion Ratio Lower Upper
202 100
200 21.0 17.0 25.4
203 17.6 14.2 21.2

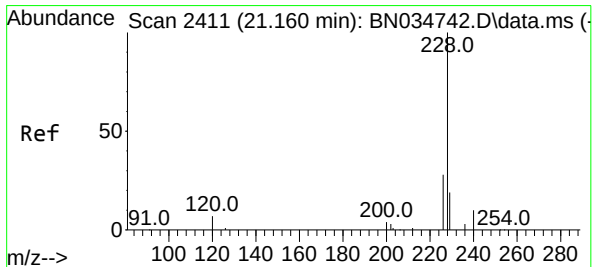
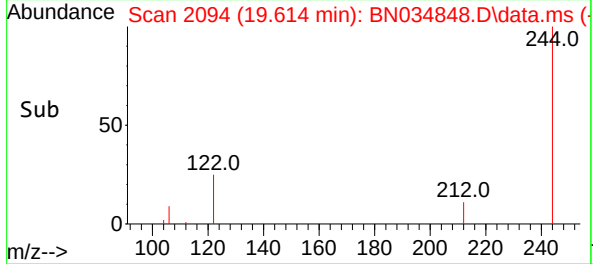
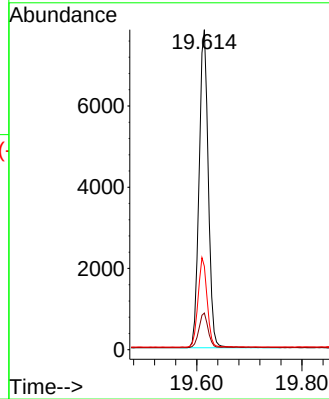
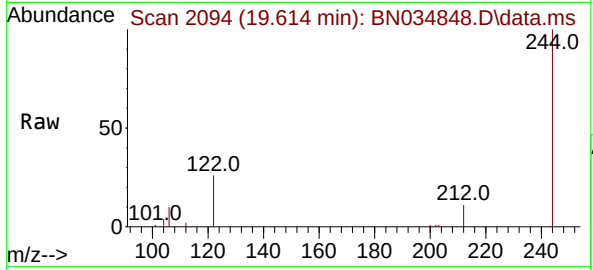




#31
Terphenyl-d14
Concen: 0.334 ng
RT: 19.614 min Scan# 2094
Delta R.T. -0.014 min
Lab File: BN034848.D
Acq: 04 Nov 2024 20:18

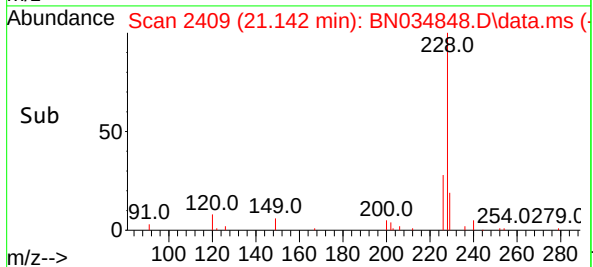
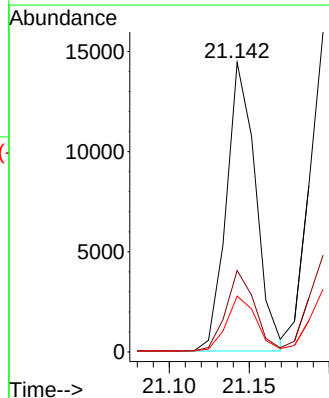
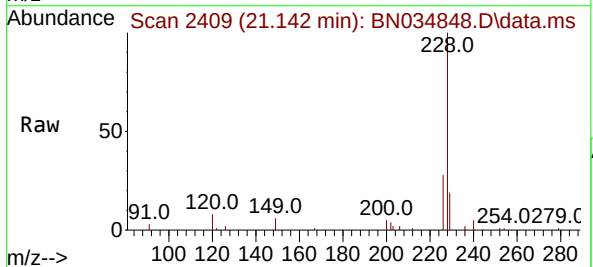
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

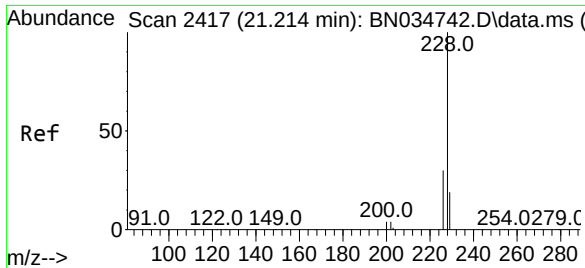
Tgt Ion:244 Resp: 9492
Ion Ratio Lower Upper
244 100
212 11.4 8.2 12.4
122 26.0 19.8 29.6



#32
Benzo(a)anthracene
Concen: 0.347 ng
RT: 21.142 min Scan# 2409
Delta R.T. -0.018 min
Lab File: BN034848.D
Acq: 04 Nov 2024 20:18

Tgt Ion:228 Resp: 18294
Ion Ratio Lower Upper
228 100
226 28.1 22.6 33.8
229 19.3 15.7 23.5





#33

Chrysene

Concen: 0.376 ng

RT: 21.196 min Scan# 2415

Delta R.T. -0.018 min

Lab File: BN034848.D

Acq: 04 Nov 2024 20:18

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

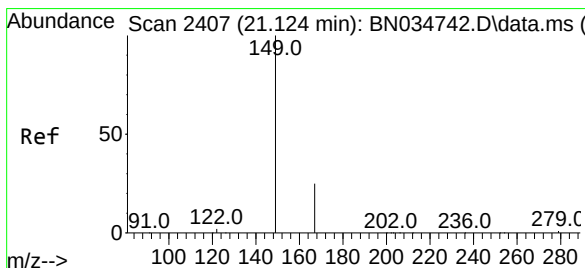
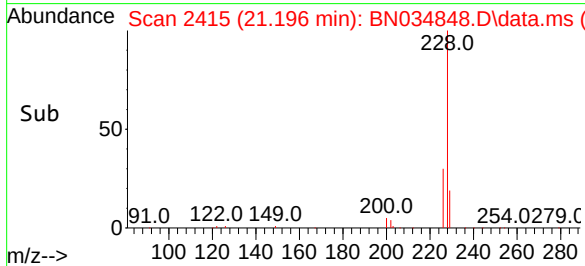
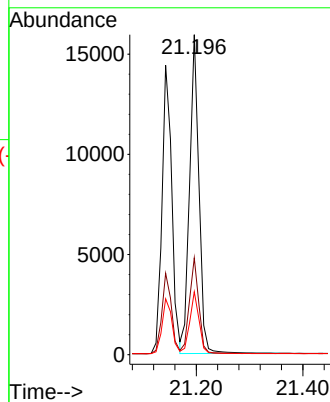
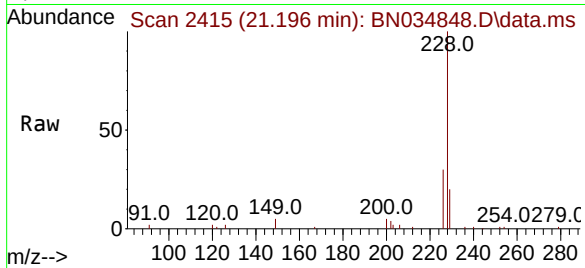
Tgt Ion:228 Resp: 19433

Ion Ratio Lower Upper

228 100

226 30.3 24.4 36.6

229 19.6 15.6 23.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.283 ng

RT: 21.107 min Scan# 2405

Delta R.T. -0.018 min

Lab File: BN034848.D

Acq: 04 Nov 2024 20:18

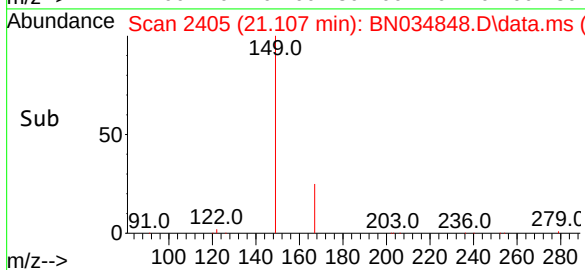
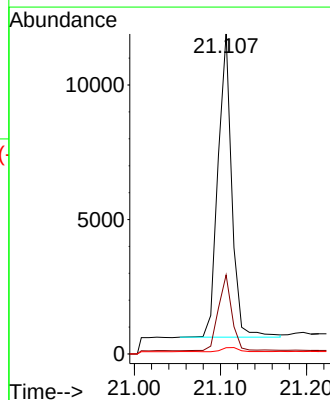
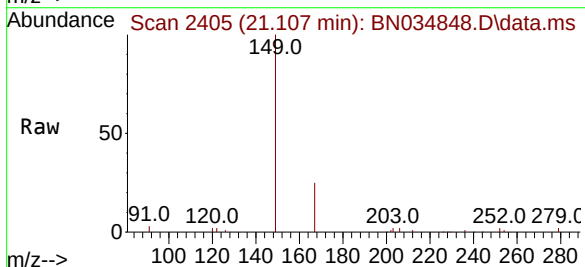
Tgt Ion:149 Resp: 12489

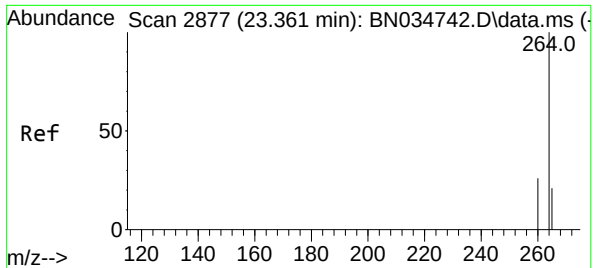
Ion Ratio Lower Upper

149 100

167 24.3 20.6 30.8

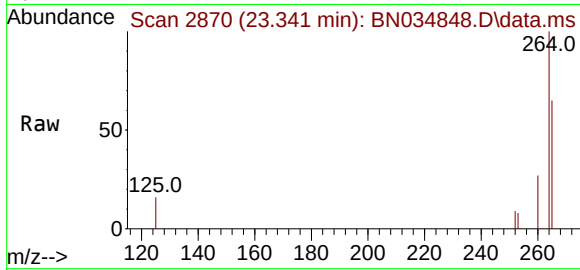
279 1.6 1.5 2.3



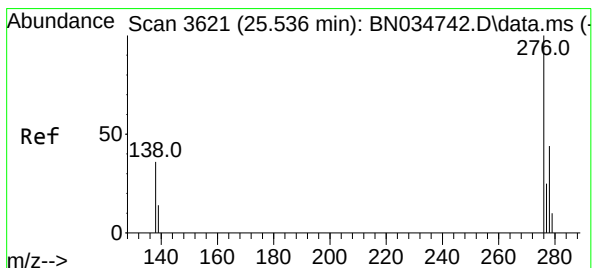
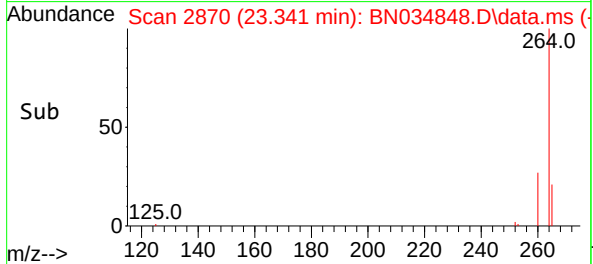
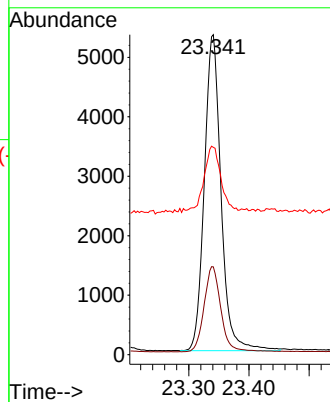


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.341 min Scan# 21
Delta R.T. -0.020 min
Lab File: BN034848.D
Acq: 04 Nov 2024 20:18

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

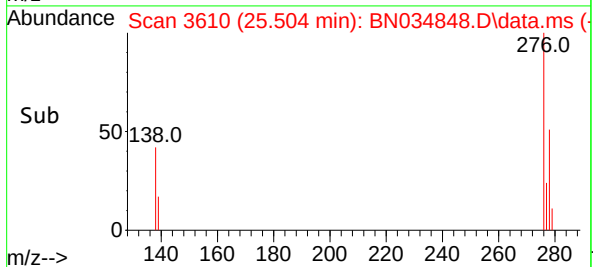
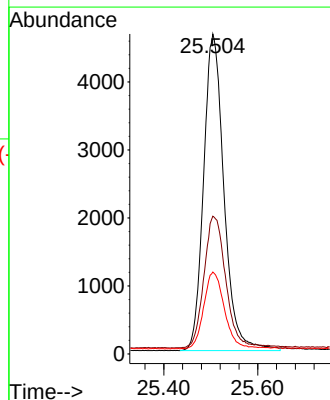
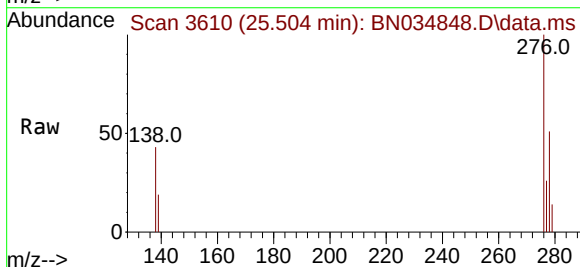


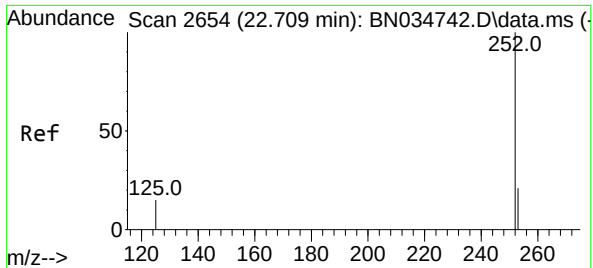
Tgt Ion:264 Resp: 10244
Ion Ratio Lower Upper
264 100
260 27.4 21.5 32.3
265 64.8 47.5 71.3



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.372 ng
RT: 25.504 min Scan# 3610
Delta R.T. -0.032 min
Lab File: BN034848.D
Acq: 04 Nov 2024 20:18

Tgt Ion:276 Resp: 14033
Ion Ratio Lower Upper
276 100
138 44.1 31.5 47.3
277 24.6 19.7 29.5





#37

Benzo(b)fluoranthene

Concen: 0.399 ng

RT: 22.689 min Scan# 2

Delta R.T. -0.020 min

Lab File: BN034848.D

Acq: 04 Nov 2024 20:18

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

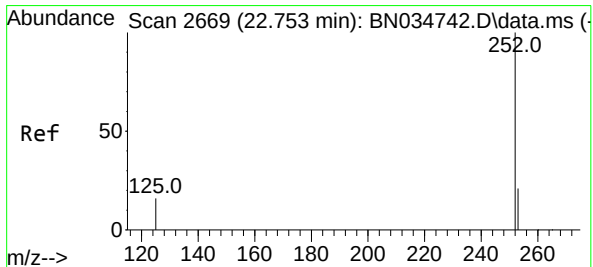
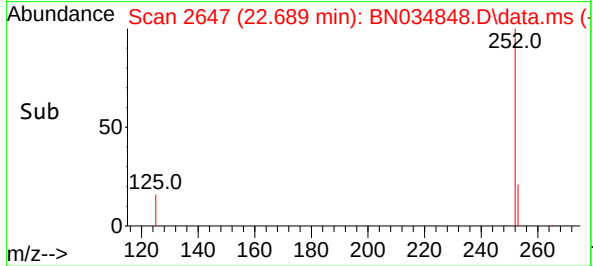
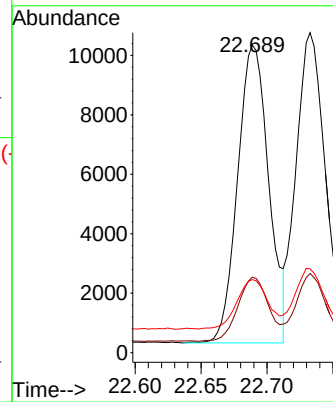
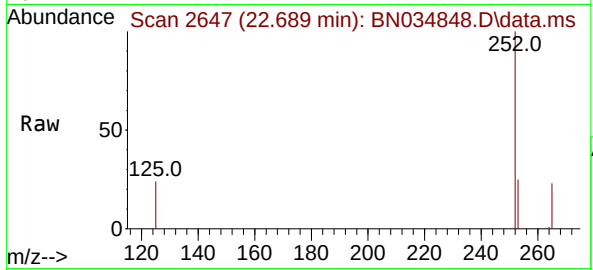
Tgt Ion:252 Resp: 16473

Ion Ratio Lower Upper

252 100

253 24.5 19.7 29.5

125 23.8 17.1 25.7



#38

Benzo(k)fluoranthene

Concen: 0.407 ng

RT: 22.733 min Scan# 2662

Delta R.T. -0.020 min

Lab File: BN034848.D

Acq: 04 Nov 2024 20:18

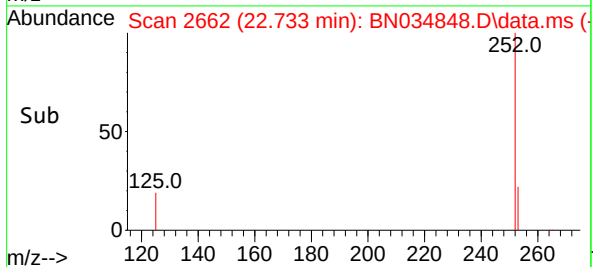
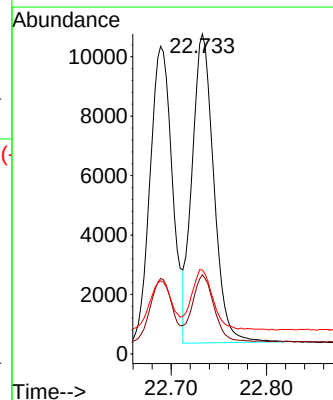
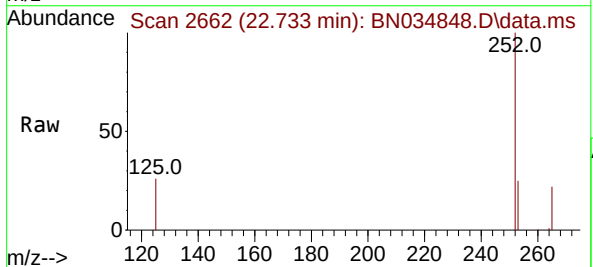
Tgt Ion:252 Resp: 16371

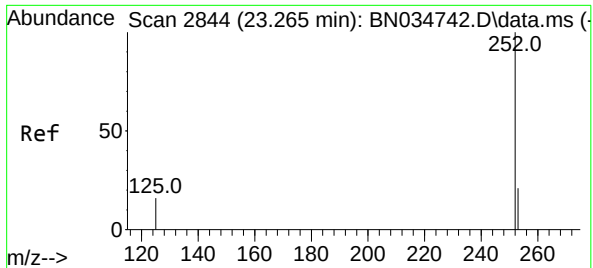
Ion Ratio Lower Upper

252 100

253 24.8 19.8 29.6

125 26.2 18.2 27.2





#39

Benzo(a)pyrene

Concen: 0.351 ng

RT: 23.244 min Scan# 21

Delta R.T. -0.020 min

Lab File: BN034848.D

Acq: 04 Nov 2024 20:18

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

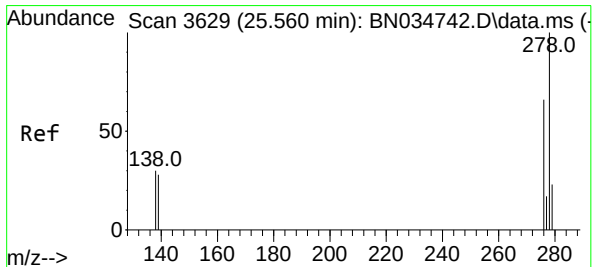
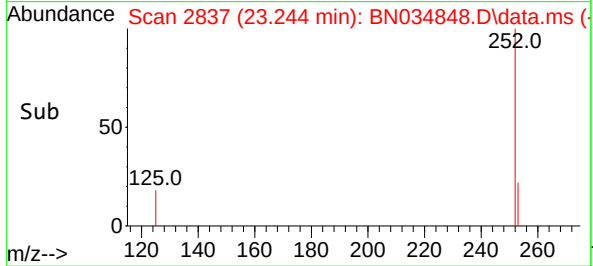
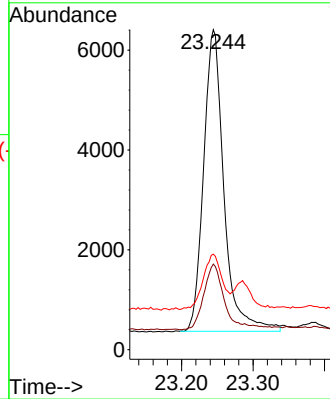
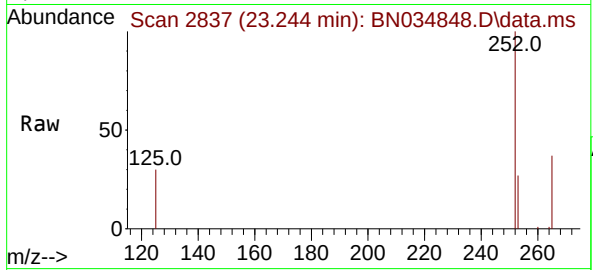
Tgt Ion:252 Resp: 11949

Ion Ratio Lower Upper

252 100

253 26.7 20.7 31.1

125 29.9 20.3 30.5



#40

Dibenzo(a,h)anthracene

Concen: 0.367 ng

RT: 25.522 min Scan# 3616

Delta R.T. -0.038 min

Lab File: BN034848.D

Acq: 04 Nov 2024 20:18

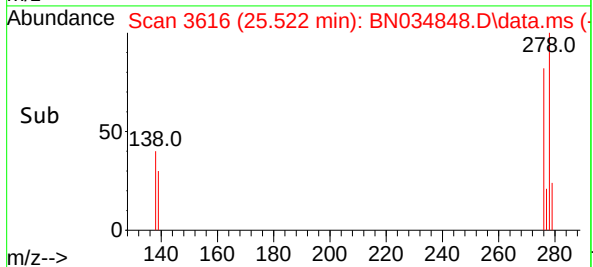
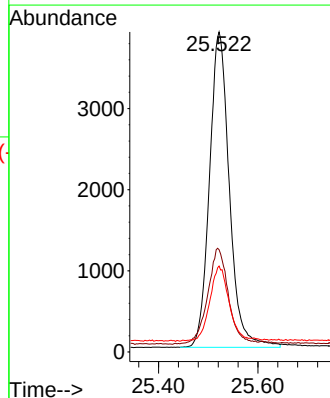
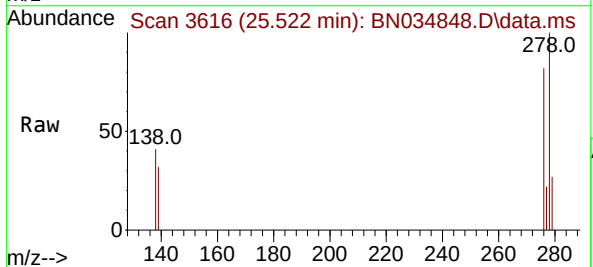
Tgt Ion:278 Resp: 10794

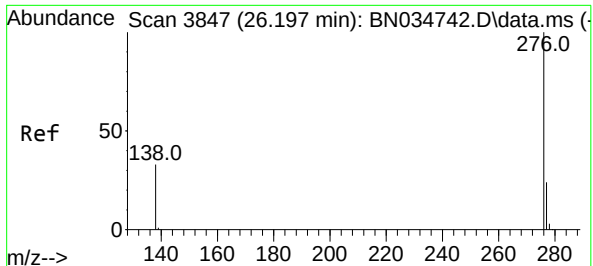
Ion Ratio Lower Upper

278 100

139 31.9 24.9 37.3

279 26.9 21.0 31.4





#41

Benzo(g,h,i)perylene

Concen: 0.365 ng

RT: 26.165 min Scan# 3836

Delta R.T. -0.032 min

Lab File: BN034848.D

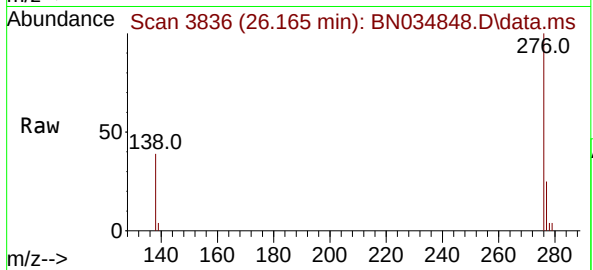
Acq: 04 Nov 2024 20:18

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



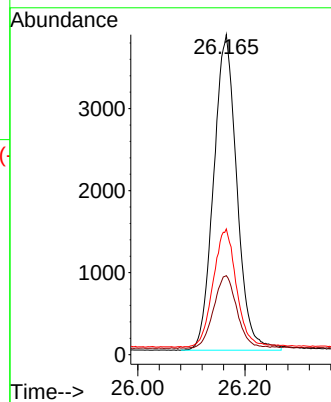
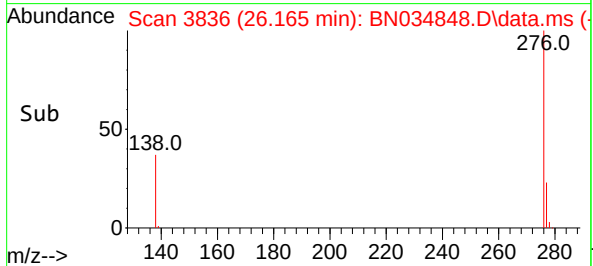
Tgt Ion:276 Resp: 11582

Ion Ratio Lower Upper

276 100

277 24.7 20.2 30.2

138 39.3 28.7 43.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110424\
 Data File : BN034848.D
 Acq On : 04 Nov 2024 20:18
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Nov 04 23:45:10 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 30 13:28:24 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	87	0.00
2	1,4-Dioxane	0.439	0.402	8.4	86	0.00
3	n-Nitrosodimethylamine	0.494	0.515	-4.3	102	0.00
4 S	2-Fluorophenol	1.212	1.008	16.8	80	0.00
5 S	Phenol-d6	1.574	1.339	14.9	83	0.00
6	bis(2-Chloroethyl)ether	1.149	1.086	5.5	89	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	90	0.00
8 S	Nitrobenzene-d5	0.314	0.263	16.2	85	0.00
9	Naphthalene	1.106	0.986	10.8	89	0.00
10	Hexachlorobutadiene	0.182	0.160	12.1	88	0.00
11 SURR	2-Methylnaphthalene-d10	0.579	0.488	15.7	85	0.00
12	2-Methylnaphthalene	0.723	0.614	15.1	85	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	81	0.00
14 S	2,4,6-Tribromophenol	0.198	0.112	43.4#	57	0.00
15 S	2-Fluorobiphenyl	1.575	1.392	11.6	83	0.00
16	Acenaphthylene	2.007	1.562	22.2	75	0.00
17	Acenaphthene	1.337	1.120	16.2	80	0.00
18	Fluorene	1.667	1.391	16.6	78	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	78	0.00
20	4,6-Dinitro-2-methylphenol	0.059	0.033	44.1#	58	0.00
21	4-Bromophenyl-phenylether	0.231	0.197	14.7	73	0.00
22	Hexachlorobenzene	0.259	0.242	6.6	80	0.00
23	Atrazine	0.199	0.140	29.6#	61	0.00
24	Pentachlorophenol	0.112	0.067	40.2#	58	0.00
25	Phenanthrene	1.176	1.100	6.5	80	0.00
26	Anthracene	1.101	0.937	14.9	74	0.00
27 SURR	Fluoranthene-d10	0.938	0.802	14.5	74	0.00
28	Fluoranthene	1.297	1.147	11.6	76	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	77	0.00
30	Pyrene	2.091	1.938	7.3	77	0.00
31 S	Terphenyl-d14	0.859	0.716	16.6	70	0.00
32	Benzo(a)anthracene	1.592	1.381	13.3	75	0.00
33	Chrysene	1.559	1.467	5.9	80	0.00
34	Bis(2-ethylhexyl)phthalate	1.331	0.943	29.2#	56	0.00
35 I	Perylene-d12	1.000	1.000	0.0	70	0.00
36	Indeno(1,2,3-cd)pyrene	1.471	1.370	6.9	72	0.00
37	Benzo(b)fluoranthene	1.610	1.608	0.1	77	0.00
38	Benzo(k)fluoranthene	1.571	1.598	-1.7	80	0.00
39 C	Benzo(a)pyrene	1.329	1.166	12.3	69	0.00
40	Dibenzo(a,h)anthracene	1.147	1.054	8.1	71	0.00
41	Benzo(g,h,i)perylene	1.240	1.131	8.8	69	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110424\
Data File : BN034848.D
Acq On : 04 Nov 2024 20:18
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Nov 04 23:45:10 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 30 13:28:24 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	87	0.00
2	1,4-Dioxane	0.400	0.367	8.3	86	0.00
3	n-Nitrosodimethylamine	0.400	0.417	-4.2	102	0.00
4 S	2-Fluorophenol	0.400	0.333	16.8	80	0.00
5 S	Phenol-d6	0.400	0.340	15.0	83	0.00
6	bis(2-Chloroethyl)ether	0.400	0.378	5.5	89	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	90	0.00
8 S	Nitrobenzene-d5	0.400	0.335	16.3	85	0.00
9	Naphthalene	0.400	0.357	10.8	89	0.00
10	Hexachlorobutadiene	0.400	0.351	12.3	88	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.337	15.8	85	0.00
12	2-Methylnaphthalene	0.400	0.339	15.3	85	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	81	0.00
14 S	2,4,6-Tribromophenol	0.400	0.226	43.5#	57	0.00
15 S	2-Fluorobiphenyl	0.400	0.353	11.8	83	0.00
16	Acenaphthylene	0.400	0.311	22.3	75	0.00
17	Acenaphthene	0.400	0.335	16.3	80	0.00
18	Fluorene	0.400	0.334	16.5	78	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	78	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.353	11.8	58	0.00
21	4-Bromophenyl-phenylether	0.400	0.341	14.8	73	0.00
22	Hexachlorobenzene	0.400	0.374	6.5	80	0.00
23	Atrazine	0.400	0.281	29.8#	61	0.00
24	Pentachlorophenol	0.400	0.242	39.5#	58	0.00
25	Phenanthrene	0.400	0.374	6.5	80	0.00
26	Anthracene	0.400	0.340	15.0	74	0.00
27 SURR	Fluoranthene-d10	0.400	0.342	14.5	74	0.00
28	Fluoranthene	0.400	0.354	11.5	76	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	77	0.00
30	Pyrene	0.400	0.371	7.3	77	0.00
31 S	Terphenyl-d14	0.400	0.334	16.5	70	0.00
32	Benzo(a)anthracene	0.400	0.347	13.3	75	0.00
33	Chrysene	0.400	0.376	6.0	80	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.283	29.3#	56	0.00
35 I	Perylene-d12	0.400	0.400	0.0	70	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.372	7.0	72	0.00
37	Benzo(b)fluoranthene	0.400	0.399	0.3	77	0.00
38	Benzo(k)fluoranthene	0.400	0.407	-1.7	80	0.00
39 C	Benzo(a)pyrene	0.400	0.351	12.3	69	0.00
40	Dibenzo(a,h)anthracene	0.400	0.367	8.3	71	0.00
41	Benzo(g,h,i)perylene	0.400	0.365	8.8	69	0.00

(#) = Out of Range

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



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P4652 SAS No.: P4652 SDG No.: P4652

Instrument ID: BNA_N Calibration Date/Time: 11/04/2024 21:33

Lab File ID: BN034850.D Init. Calib. Date(s): 10/30/2024 10/30/2024

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 09:20 12:56

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.579	0.495		-14.5	20.0
Fluoranthene-d10	0.938	0.829		-11.6	20.0
2-Fluorophenol	1.212	1.320		8.9	20.0
Phenol-d6	1.574	1.837		16.7	20.0
Nitrobenzene-d5	0.314	0.268		-14.6	20.0
2-Fluorobiphenyl	1.575	1.396		-11.4	20.0
2,4,6-Tribromophenol	0.198	0.157		-20.7	20.0
Terphenyl-d14	0.859	0.690		-19.7	20.0
1,4-Dioxane	0.439	0.410		-6.6	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110424\
 Data File : BN034850.D
 Acq On : 04 Nov 2024 21:33
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Nov 05 00:11:13 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 05 00:03:28 2024
 Response via : Initial Calibration

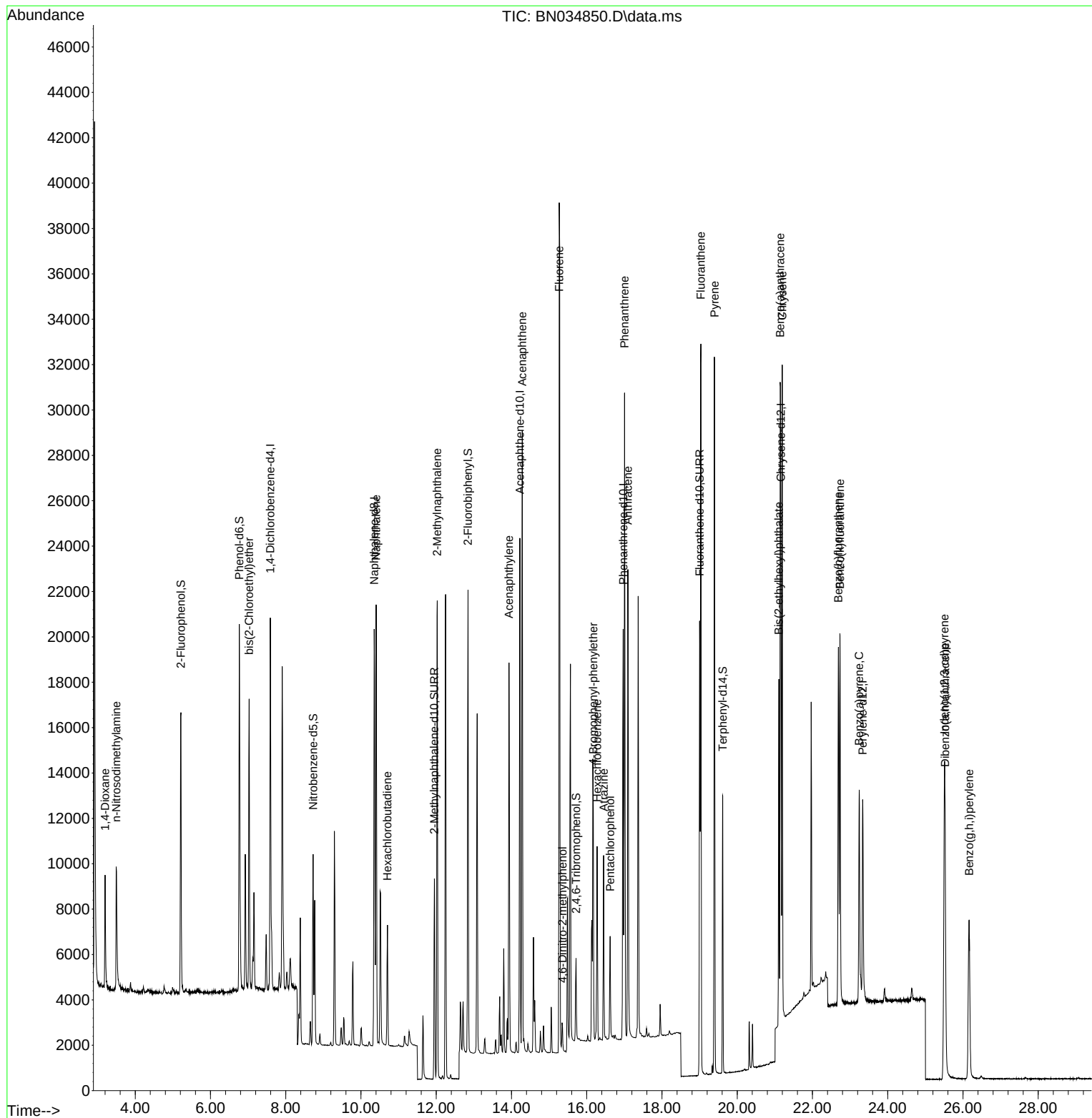
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.589	152	7674	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	23850	0.400	ng	# 0.00
13) Acenaphthene-d10	14.222	164	12009	0.400	ng	0.00
19) Phenanthrene-d10	16.970	188	23508	0.400	ng	0.00
29) Chrysene-d12	21.160	240	14579	0.400	ng	# 0.00
35) Perylene-d12	23.335	264	11281	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.213	112	10132	0.436	ng	0.00
5) Phenol-d6	6.766	99	14098	0.467	ng	0.00
8) Nitrobenzene-d5	8.728	82	6385	0.341	ng	0.00
11) 2-Methylnaphthalene-d10	11.950	152	11814	0.342	ng	0.00
14) 2,4,6-Tribromophenol	15.716	330	1886	0.318	ng	0.00
15) 2-Fluorobiphenyl	12.843	172	16764	0.354	ng	0.00
27) Fluoranthene-d10	19.001	212	19478	0.353	ng	0.00
31) Terphenyl-d14	19.615	244	10056	0.321	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.198	88	3144	0.374	ng	92
3) n-Nitrosodimethylamine	3.494	42	4129	0.435	ng	# 85
6) bis(2-Chloroethyl)ether	7.026	93	8704	0.395	ng	97
9) Naphthalene	10.404	128	23856	0.362	ng	99
10) Hexachlorobutadiene	10.703	225	3900	0.359	ng	# 99
12) 2-Methylnaphthalene	12.026	142	14586	0.338	ng	99
16) Acenaphthylene	13.934	152	18997	0.315	ng	100
17) Acenaphthene	14.286	154	13333	0.332	ng	95
18) Fluorene	15.270	166	16800	0.336	ng	99
20) 4,6-Dinitro-2-methylph...	15.355	198	752	0.347	ng	88
21) 4-Bromophenyl-phenylether	16.175	248	4638	0.341	ng	92
22) Hexachlorobenzene	16.275	284	5661	0.372	ng	94
23) Atrazine	16.448	200	5580	0.477	ng	97
24) Pentachlorophenol	16.622	266	2026	0.309	ng	98
25) Phenanthrene	17.007	178	26321	0.381	ng	100
26) Anthracene	17.094	178	22246	0.344	ng	99
28) Fluoranthene	19.034	202	27481	0.361	ng	99
30) Pyrene	19.396	202	28018	0.368	ng	100
32) Benzo(a)anthracene	21.143	228	20082	0.346	ng	100
33) Chrysene	21.196	228	21768	0.383	ng	99
34) Bis(2-ethylhexyl)phtha...	21.107	149	13933	0.287	ng	96
36) Indeno(1,2,3-cd)pyrene	25.504	276	15750	0.380	ng	94
37) Benzo(b)fluoranthene	22.689	252	17915	0.394	ng	97
38) Benzo(k)fluoranthene	22.730	252	18784	0.424	ng	97
39) Benzo(a)pyrene	23.241	252	13171	0.351	ng	96
40) Dibenzo(a,h)anthracene	25.525	278	12198	0.377	ng	99
41) Benzo(g,h,i)perylene	26.165	276	12966	0.371	ng	96

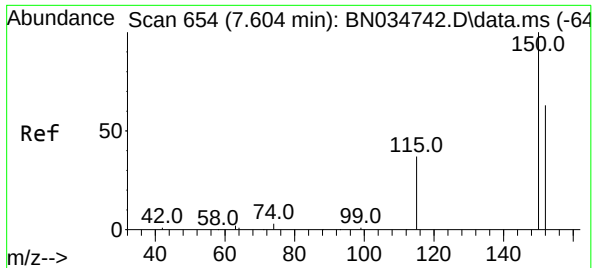
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110424\
Data File : BN034850.D
Acq On : 04 Nov 2024 21:33
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Nov 05 00:11:13 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 05 00:03:28 2024
Response via : Initial Calibration

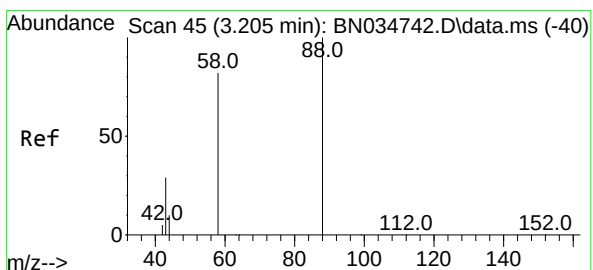
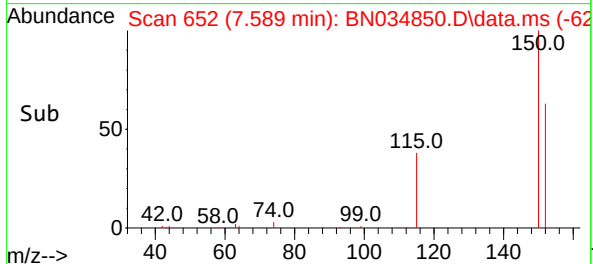
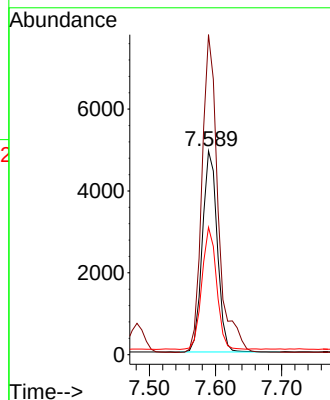
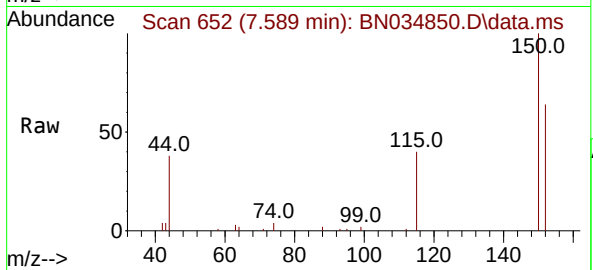




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.589 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN034850.D
Acq: 04 Nov 2024 21:33

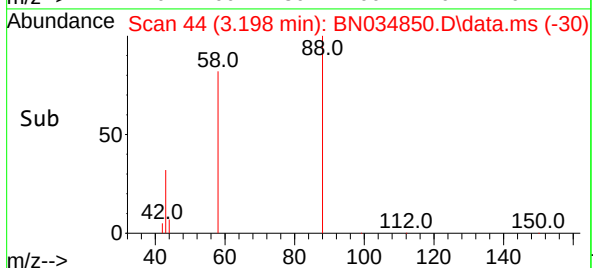
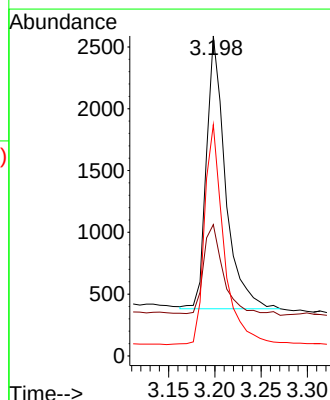
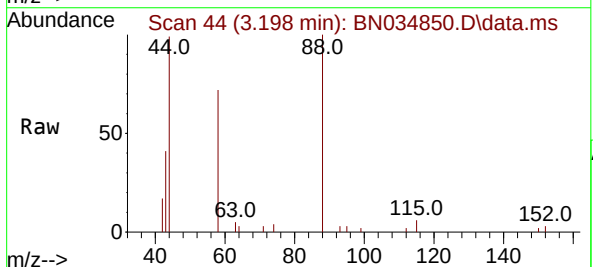
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 7674
Ion Ratio Lower Upper
152 100
150 157.2 124.9 187.3
115 62.5 50.2 75.2

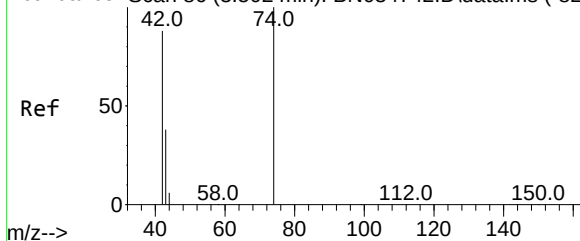


#2
1,4-Dioxane
Concen: 0.374 ng
RT: 3.198 min Scan# 44
Delta R.T. 0.000 min
Lab File: BN034850.D
Acq: 04 Nov 2024 21:33

Tgt Ion: 88 Resp: 3144
Ion Ratio Lower Upper
88 100
43 35.8 26.7 40.1
58 82.6 59.3 88.9



Abundance Scan 86 (3.502 min): BN034742.D\data.ms (-82)



#3

n-Nitrosodimethylamine

Concen: 0.435 ng

RT: 3.494 min Scan# 81

Delta R.T. 0.000 min

Lab File: BN034850.D

Acq: 04 Nov 2024 21:33

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion: 42 Resp: 4129

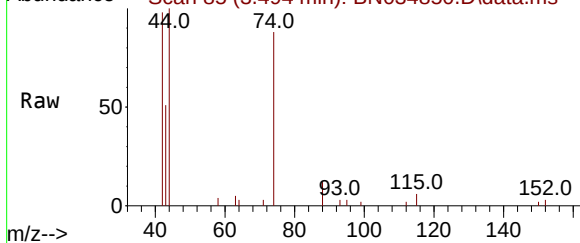
Ion Ratio Lower Upper

42 100

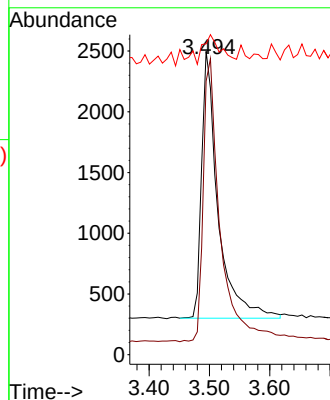
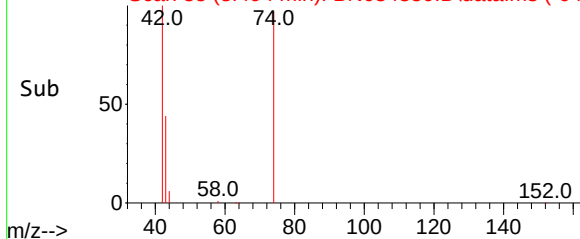
74 110.6 103.1 154.7

44 11.0 6.7 10.1#

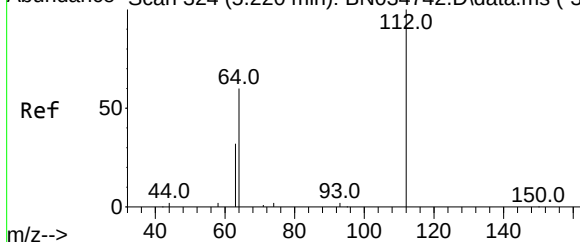
Abundance Scan 85 (3.494 min): BN034850.D\data.ms



Abundance Scan 85 (3.494 min): BN034850.D\data.ms (-64)



Abundance Scan 324 (5.220 min): BN034742.D\data.ms (-31)



#4

2-Fluorophenol

Concen: 0.436 ng

RT: 5.213 min Scan# 323

Delta R.T. 0.000 min

Lab File: BN034850.D

Acq: 04 Nov 2024 21:33

Tgt Ion: 112 Resp: 10132

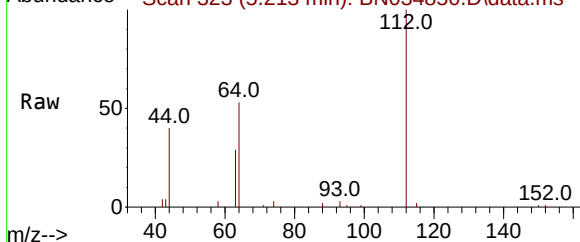
Ion Ratio Lower Upper

112 100

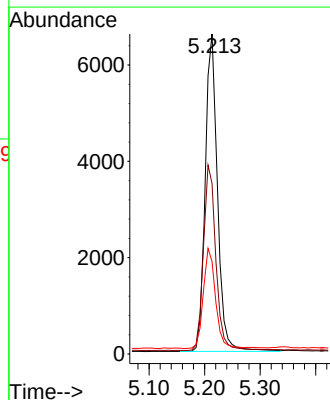
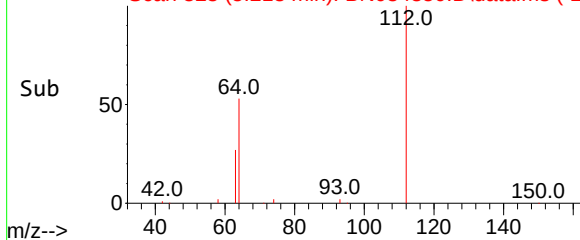
64 59.5 44.9 67.3

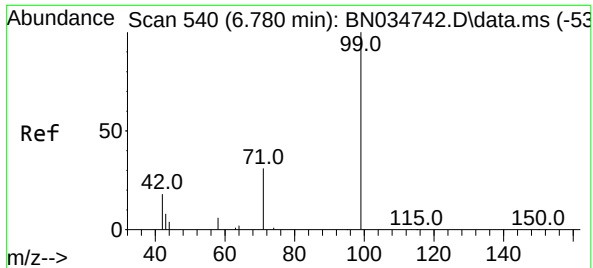
63 31.8 23.5 35.3

Abundance Scan 323 (5.213 min): BN034850.D\data.ms



Abundance Scan 323 (5.213 min): BN034850.D\data.ms (-29)

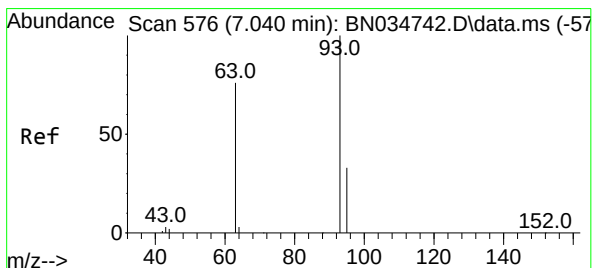
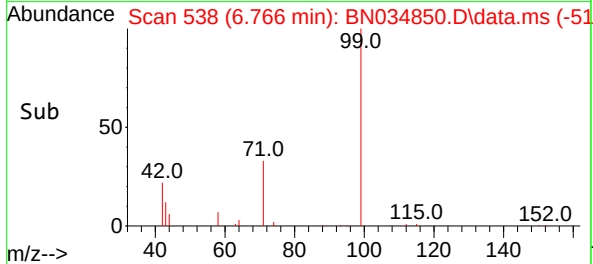
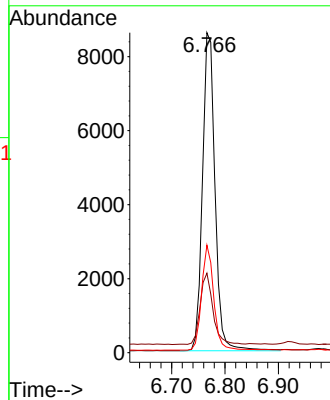
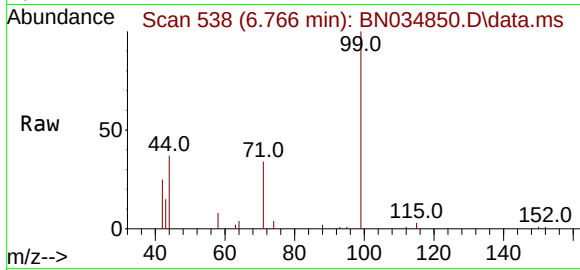




#5
Phenol-d6
Concen: 0.467 ng
RT: 6.766 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN034850.D
Acq: 04 Nov 2024 21:33

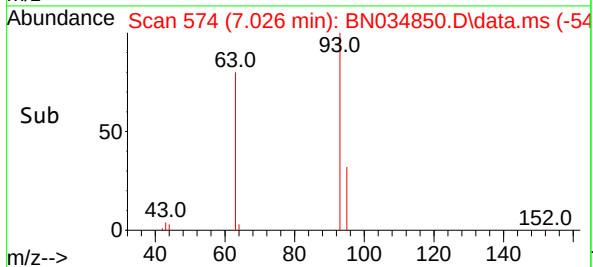
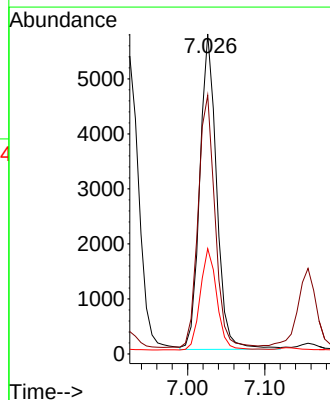
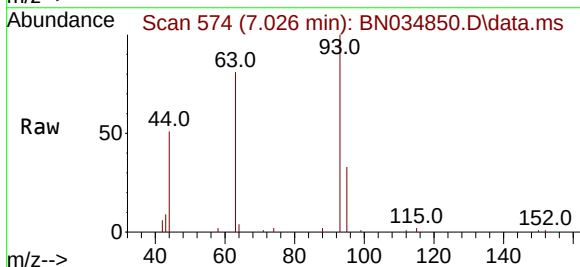
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

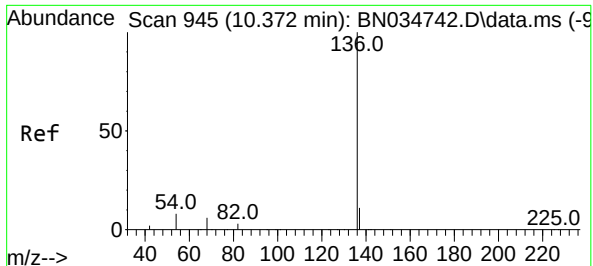
Tgt Ion: 99 Resp: 14098
Ion Ratio Lower Upper
99 100
42 22.8 15.9 23.9
71 32.1 24.3 36.5



#6
bis(2-Chloroethyl)ether
Concen: 0.395 ng
RT: 7.026 min Scan# 574
Delta R.T. 0.000 min
Lab File: BN034850.D
Acq: 04 Nov 2024 21:33

Tgt Ion: 93 Resp: 8704
Ion Ratio Lower Upper
93 100
63 80.2 61.2 91.8
95 31.7 25.8 38.8

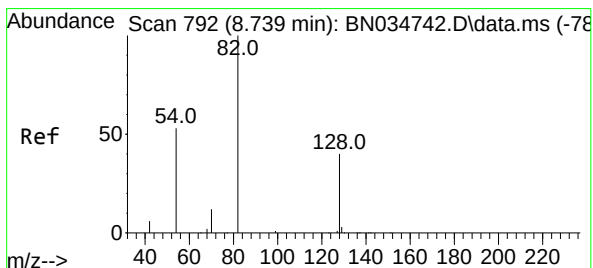
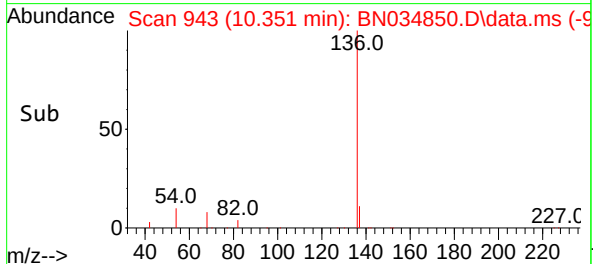
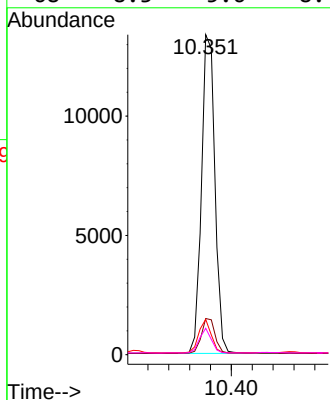
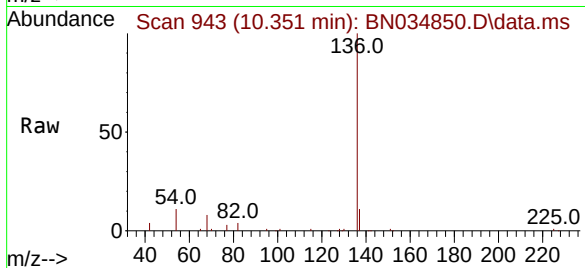




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 945
Delta R.T. 0.000 min
Lab File: BN034850.D
Acq: 04 Nov 2024 21:33

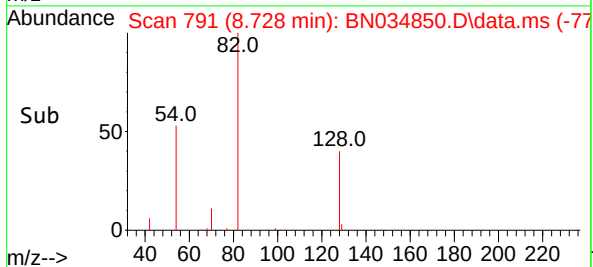
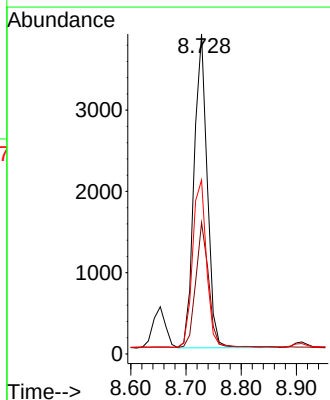
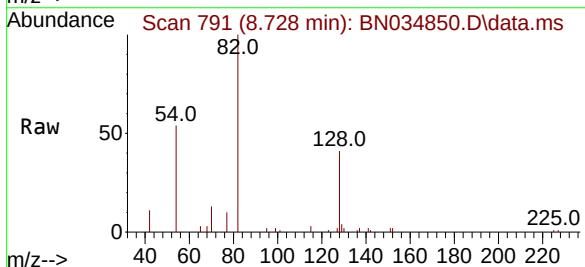
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

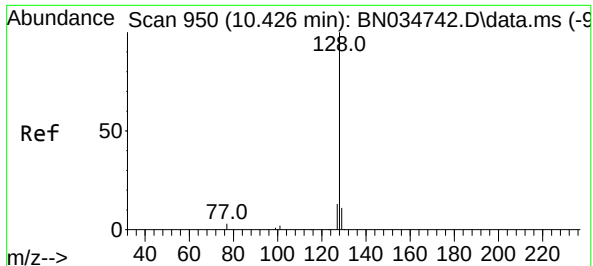
Tgt Ion:	136	Resp:	23850
Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.2	13.8
54	11.0	7.0	10.4
68	8.3	5.6	8.4



#8
Nitrobenzene-d5
Concen: 0.341 ng
RT: 8.728 min Scan# 791
Delta R.T. 0.000 min
Lab File: BN034850.D
Acq: 04 Nov 2024 21:33

Tgt Ion:	82	Resp:	6385
Ion	Ratio	Lower	Upper
82	100		
128	41.0	33.7	50.5
54	54.4	44.4	66.6

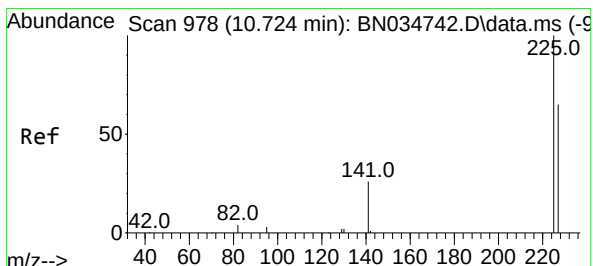
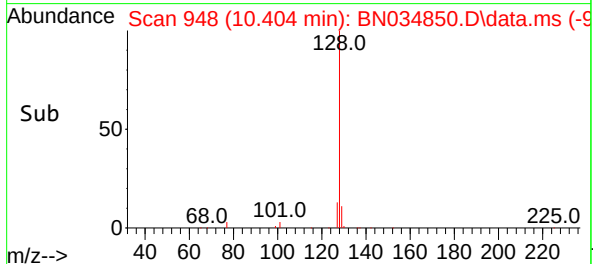
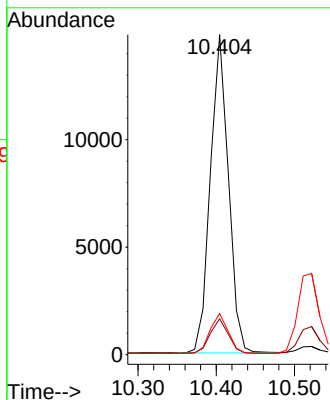
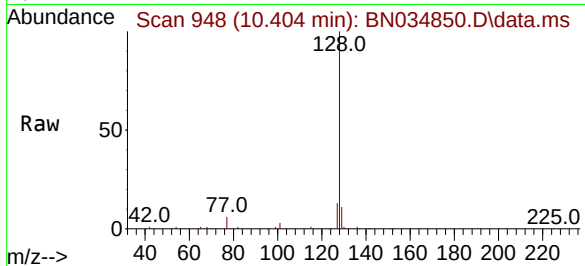




#9
Naphthalene
Concen: 0.362 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN034850.D
Acq: 04 Nov 2024 21:33

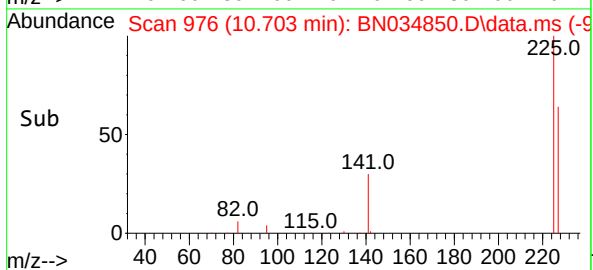
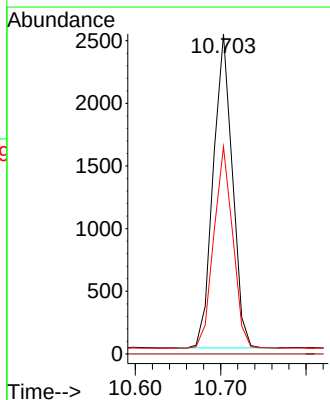
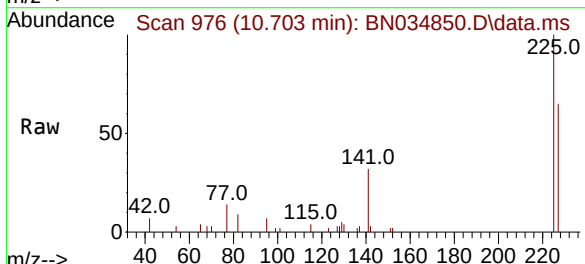
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

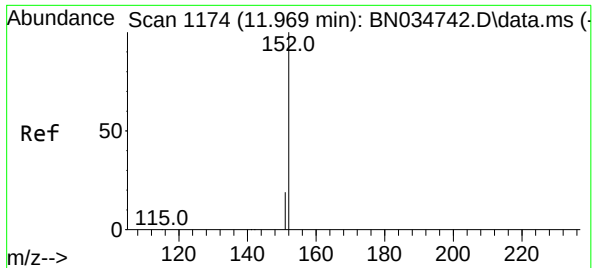
Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.2	9.4	14.0
127	12.8	10.6	15.8



#10
Hexachlorobutadiene
Concen: 0.359 ng
RT: 10.703 min Scan# 976
Delta R.T. 0.000 min
Lab File: BN034850.D
Acq: 04 Nov 2024 21:33

Tgt Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.7	51.4	77.2

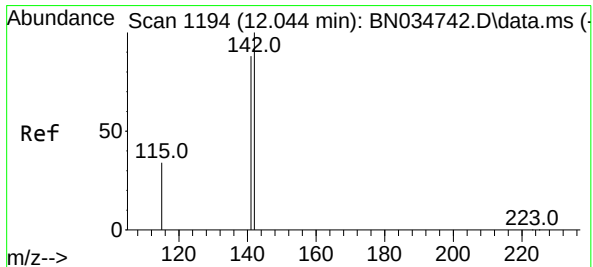
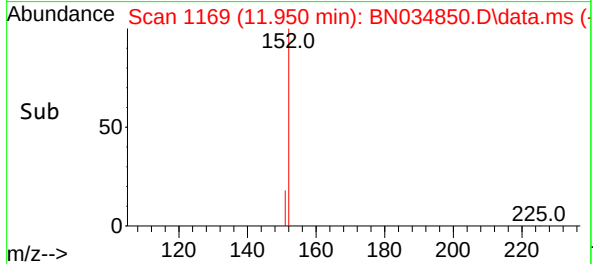
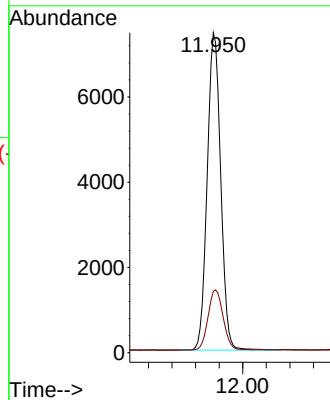
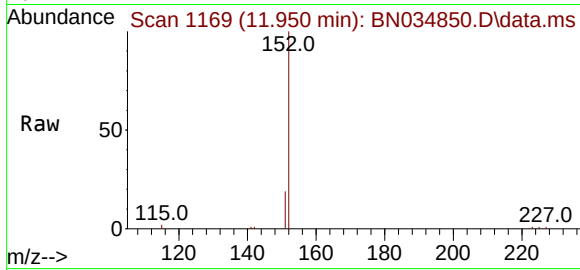




#11
2-Methylnaphthalene-d10
Concen: 0.342 ng
RT: 11.950 min Scan# 1169
Delta R.T. 0.000 min
Lab File: BN034850.D
Acq: 04 Nov 2024 21:33

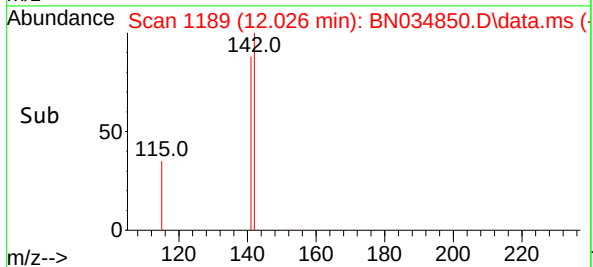
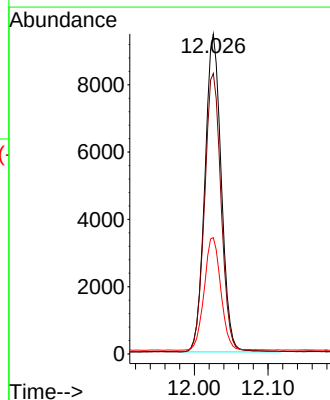
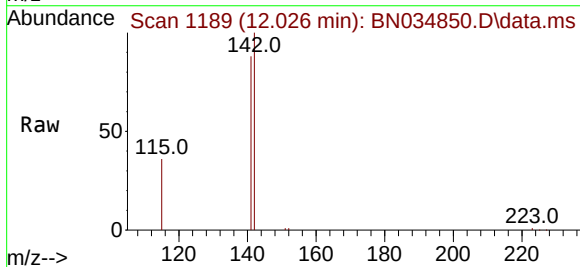
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

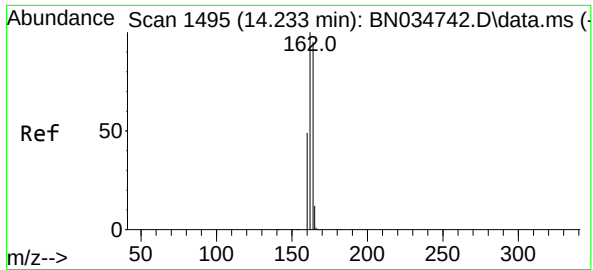
Tgt Ion:152 Resp: 11814
Ion Ratio Lower Upper
152 100
151 21.1 16.6 24.8



#12
2-Methylnaphthalene
Concen: 0.338 ng
RT: 12.026 min Scan# 1189
Delta R.T. 0.000 min
Lab File: BN034850.D
Acq: 04 Nov 2024 21:33

Tgt Ion:142 Resp: 14586
Ion Ratio Lower Upper
142 100
141 87.6 70.6 106.0
115 36.3 28.6 42.8

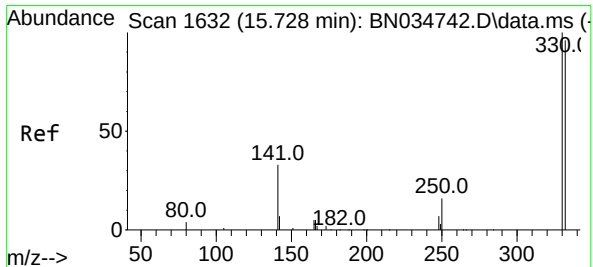
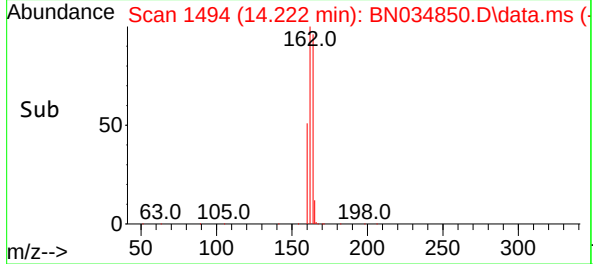
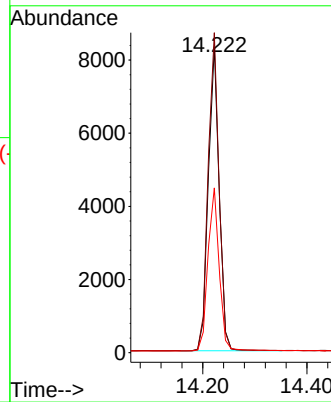
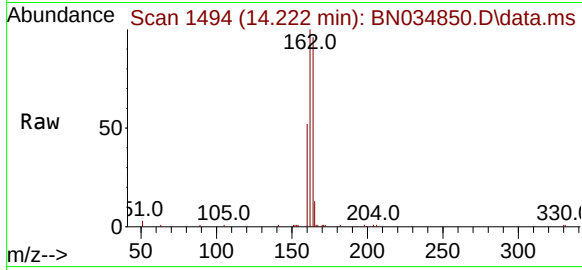




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.222 min Scan# 1494
Delta R.T. 0.000 min
Lab File: BN034850.D
Acq: 04 Nov 2024 21:33

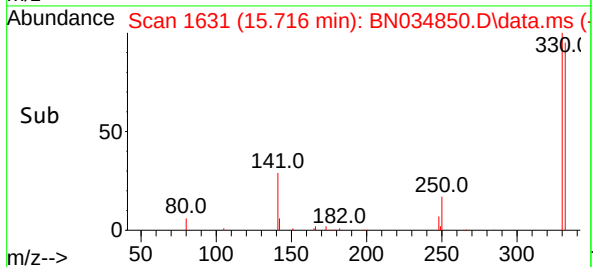
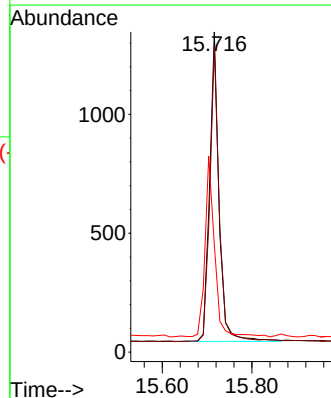
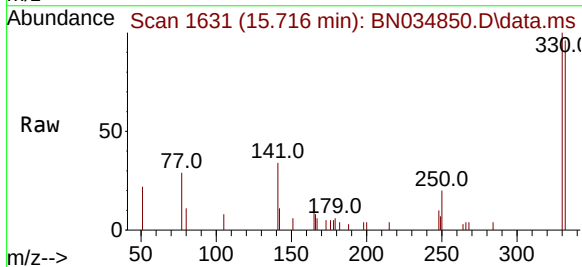
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

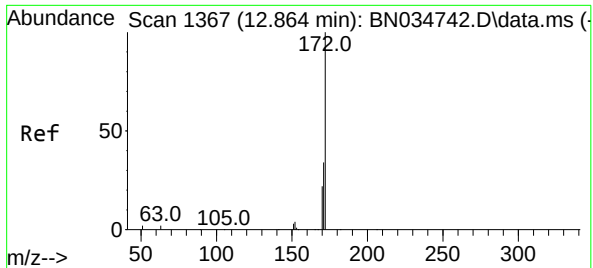
Tgt Ion:164 Resp: 12009
Ion Ratio Lower Upper
164 100
162 104.6 84.3 126.5
160 53.9 41.7 62.5



#14
2,4,6-Tribromophenol
Concen: 0.318 ng
RT: 15.716 min Scan# 1631
Delta R.T. 0.000 min
Lab File: BN034850.D
Acq: 04 Nov 2024 21:33

Tgt Ion:330 Resp: 1886
Ion Ratio Lower Upper
330 100
332 96.1 77.8 116.6
141 60.1 41.0 61.4

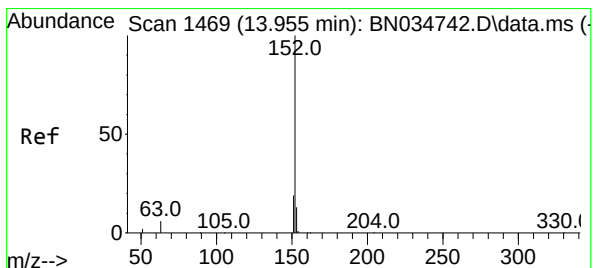
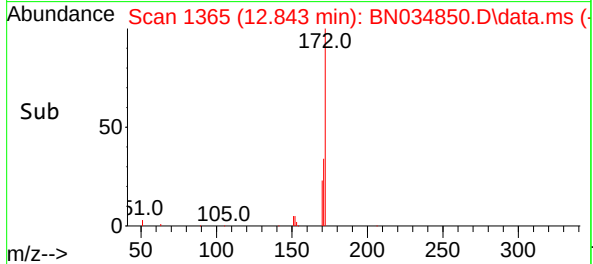
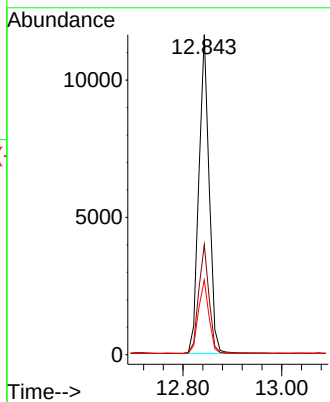
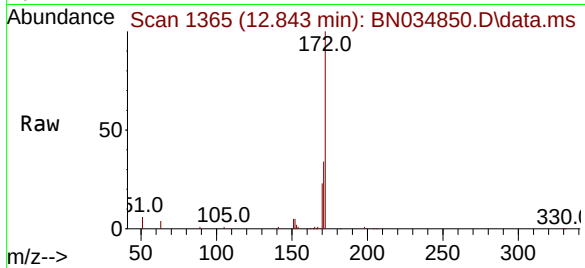




#15
2-Fluorobiphenyl
Concen: 0.354 ng
RT: 12.843 min Scan# 1365
Delta R.T. 0.000 min
Lab File: BN034850.D
Acq: 04 Nov 2024 21:33

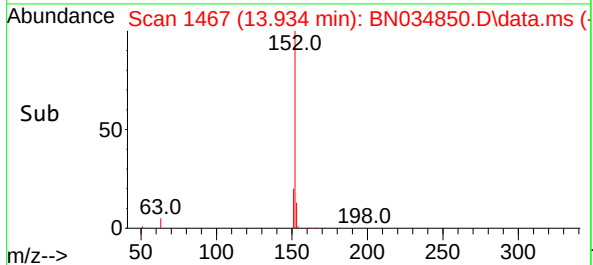
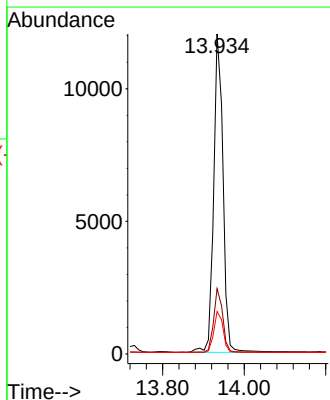
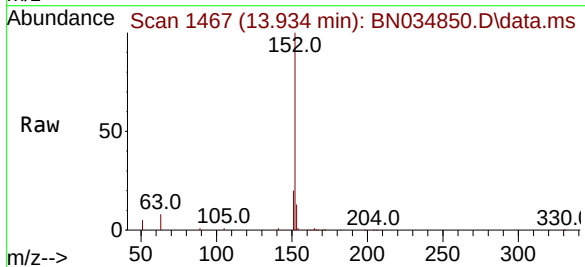
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

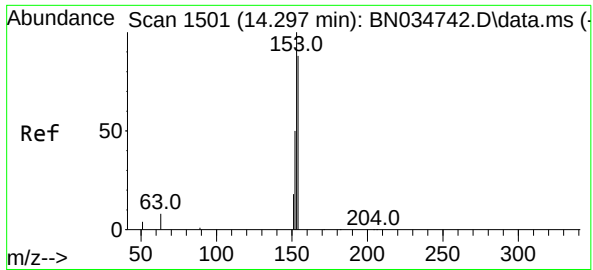
Tgt Ion:	172	Resp:	16764
Ion	Ratio	Lower	Upper
172	100		
171	34.4	27.2	40.8
170	23.4	18.0	27.0



#16
Acenaphthylene
Concen: 0.315 ng
RT: 13.934 min Scan# 1467
Delta R.T. 0.000 min
Lab File: BN034850.D
Acq: 04 Nov 2024 21:33

Tgt Ion:	152	Resp:	18997
Ion	Ratio	Lower	Upper
152	100		
151	19.3	15.4	23.2
153	12.8	10.2	15.4

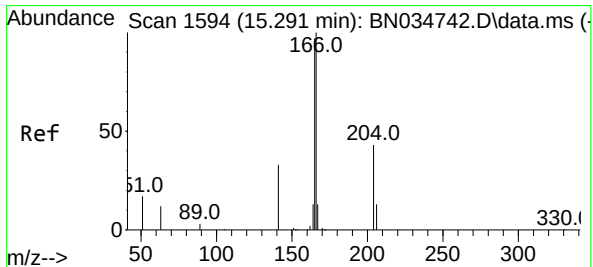
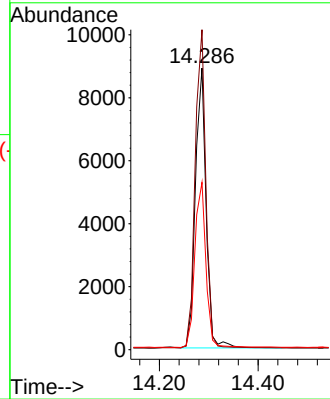
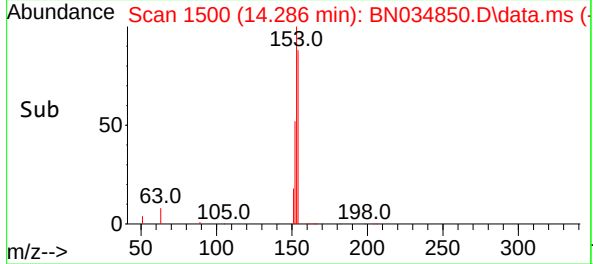
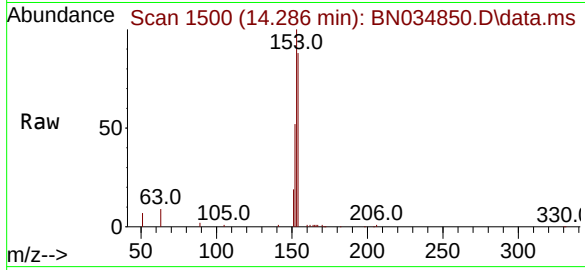




#17
Acenaphthene
Concen: 0.332 ng
RT: 14.286 min Scan# 1500
Delta R.T. 0.000 min
Lab File: BN034850.D
Acq: 04 Nov 2024 21:33

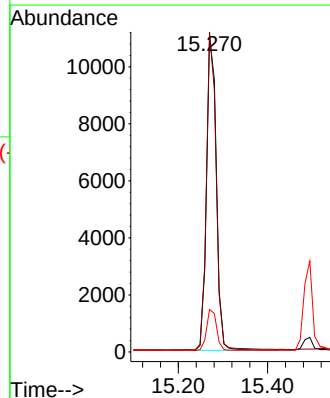
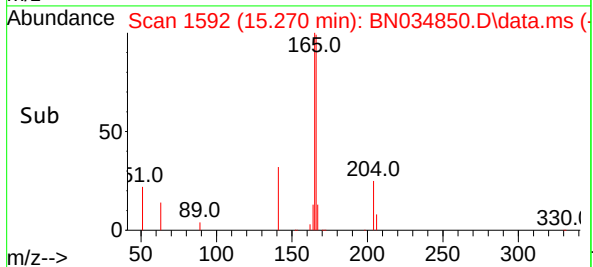
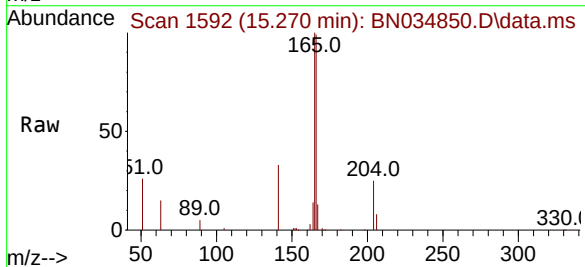
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

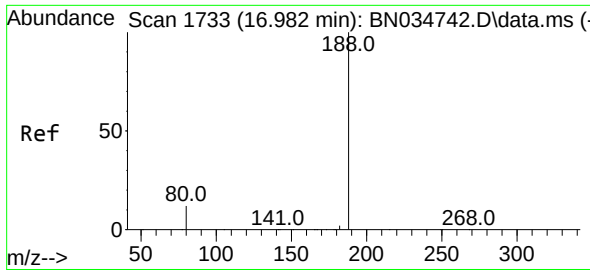
Tgt Ion:154 Resp: 13333
Ion Ratio Lower Upper
154 100
153 113.0 87.8 131.6
152 61.5 44.6 67.0



#18
Fluorene
Concen: 0.336 ng
RT: 15.270 min Scan# 1592
Delta R.T. 0.000 min
Lab File: BN034850.D
Acq: 04 Nov 2024 21:33

Tgt Ion:166 Resp: 16800
Ion Ratio Lower Upper
166 100
165 99.1 78.5 117.7
167 13.2 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.970 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN034850.D

Acq: 04 Nov 2024 21:33

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

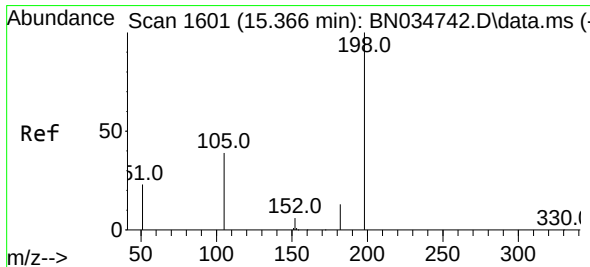
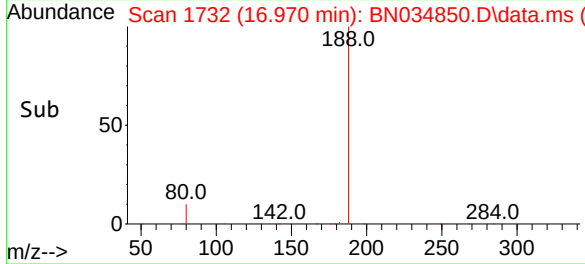
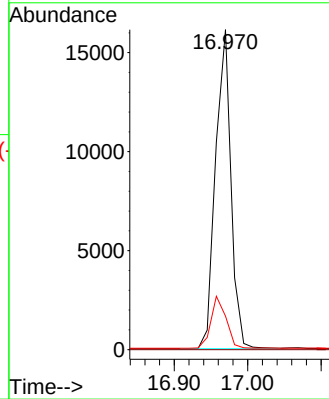
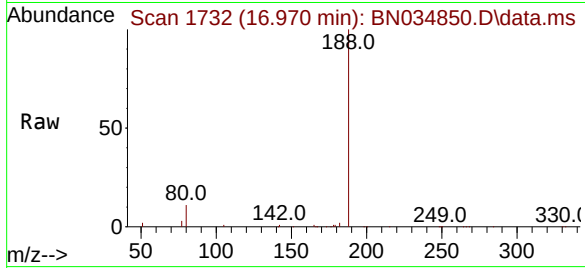
Tgt Ion:188 Resp: 23508

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.5 9.8 14.6



#20

4,6-Dinitro-2-methylphenol

Concen: 0.347 ng

RT: 15.355 min Scan# 1600

Delta R.T. 0.000 min

Lab File: BN034850.D

Acq: 04 Nov 2024 21:33

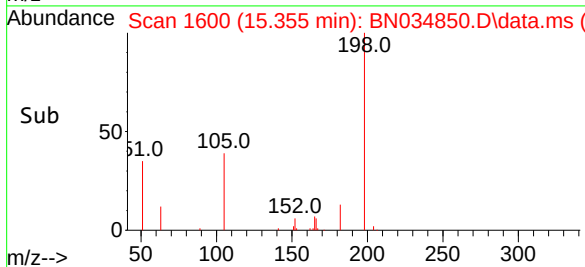
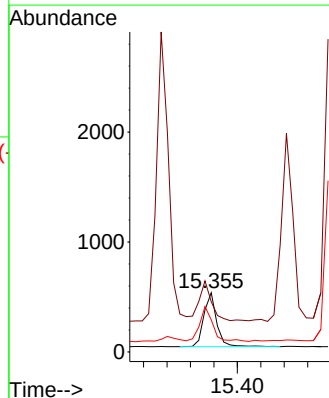
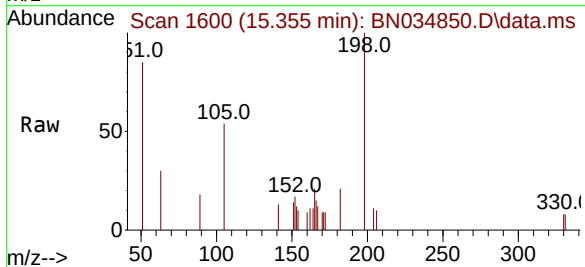
Tgt Ion:198 Resp: 752

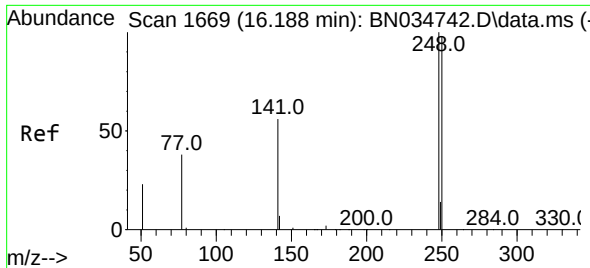
Ion Ratio Lower Upper

198 100

51 84.9 58.0 87.0

105 54.5 49.1 73.7

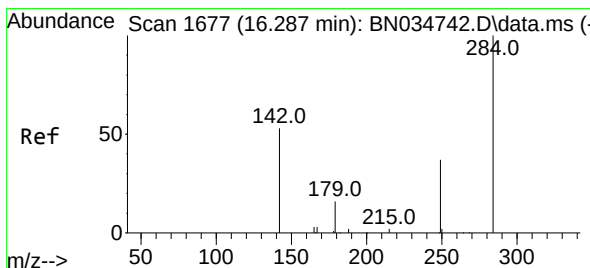
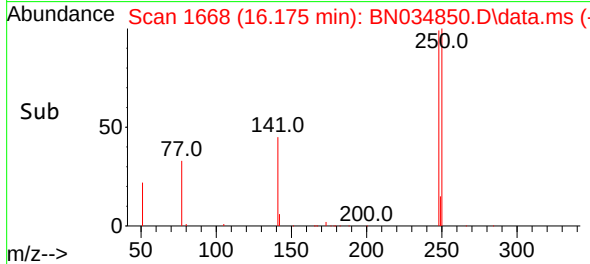
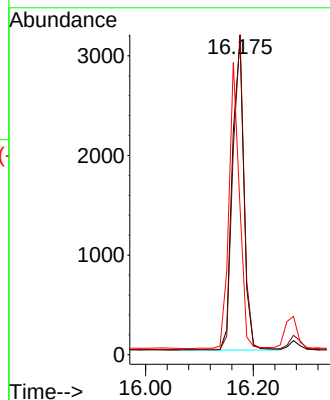
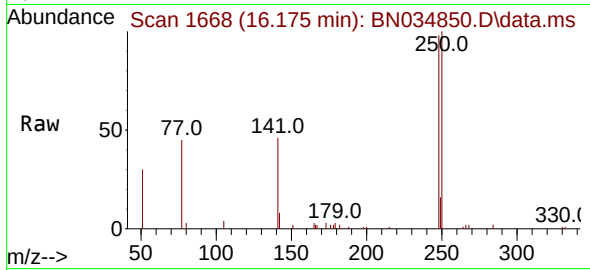




#21
4-Bromophenyl-phenylether
Concen: 0.341 ng
RT: 16.175 min Scan# 1668
Delta R.T. 0.000 min
Lab File: BN034850.D
Acq: 04 Nov 2024 21:33

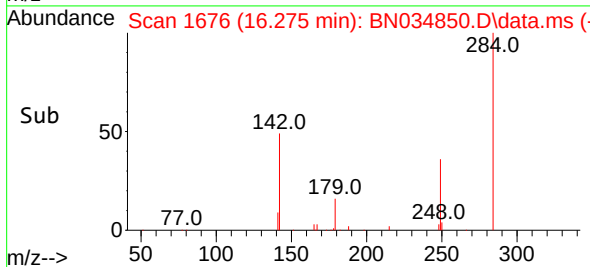
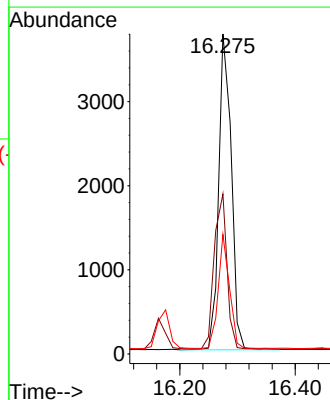
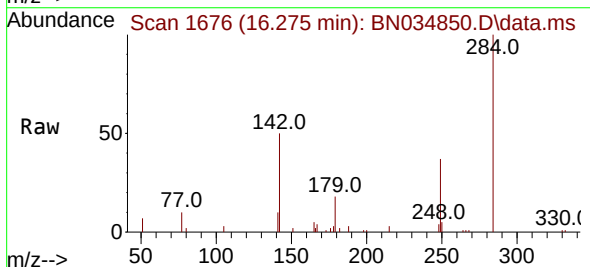
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

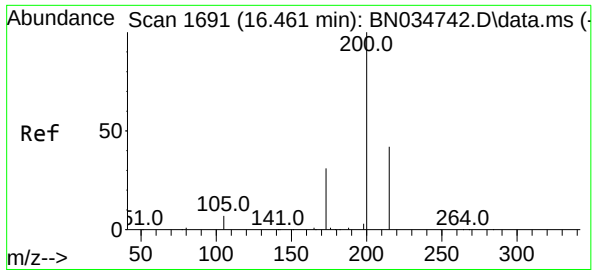
Tgt Ion	Ratio	Lower	Upper
248	100		
250	101.5	78.7	118.1
141	46.7	46.4	69.6



#22
Hexachlorobenzene
Concen: 0.372 ng
RT: 16.275 min Scan# 1676
Delta R.T. 0.000 min
Lab File: BN034850.D
Acq: 04 Nov 2024 21:33

Tgt Ion	Ratio	Lower	Upper
284	100		
142	50.3	35.4	53.0
249	32.6	25.7	38.5

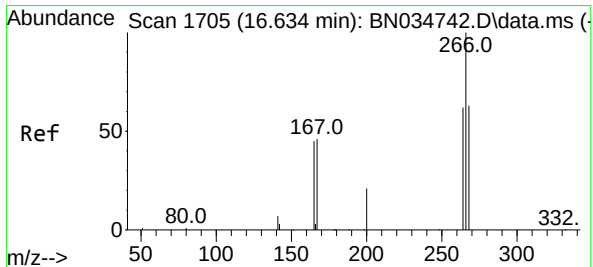
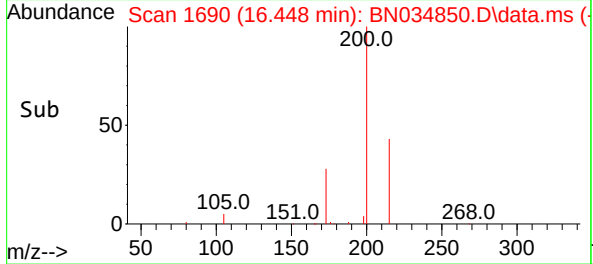
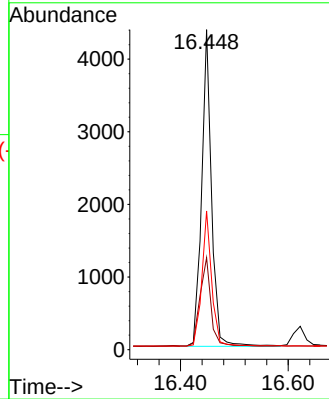
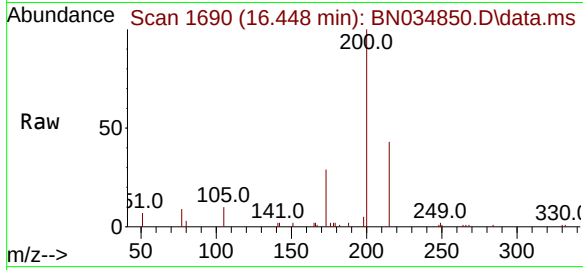




#23
Atrazine
Concen: 0.477 ng
RT: 16.448 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN034850.D
Acq: 04 Nov 2024 21:33

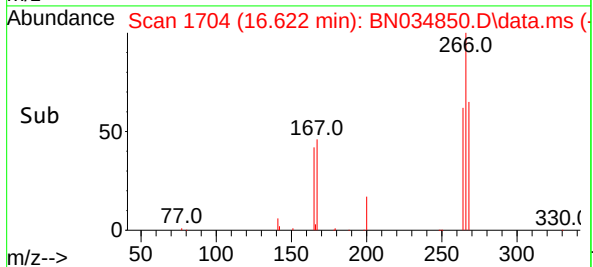
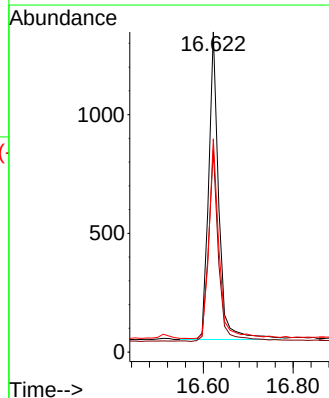
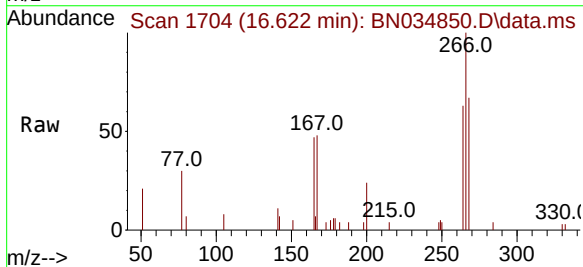
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

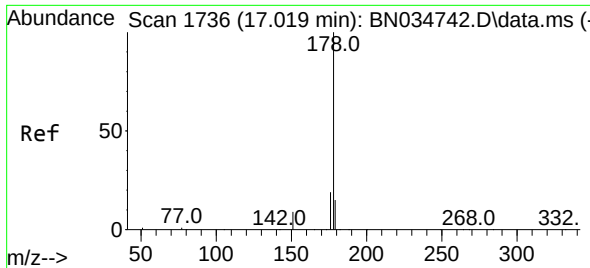
Tgt Ion:	200	Resp:	5580
Ion Ratio	Lower	Upper	
200	100		
173	28.7	25.8	38.6
215	43.4	34.2	51.4



#24
Pentachlorophenol
Concen: 0.309 ng
RT: 16.622 min Scan# 1704
Delta R.T. 0.000 min
Lab File: BN034850.D
Acq: 04 Nov 2024 21:33

Tgt Ion:	266	Resp:	2026
Ion Ratio	Lower	Upper	
266	100		
264	62.1	48.7	73.1
268	64.9	50.2	75.4

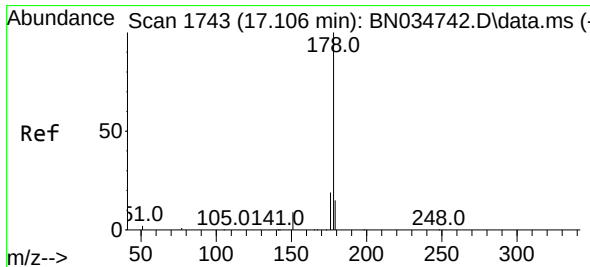
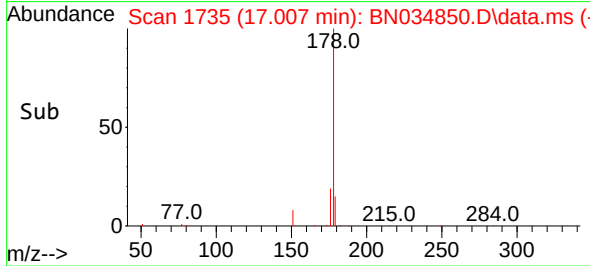
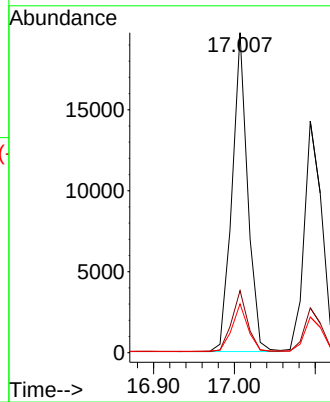
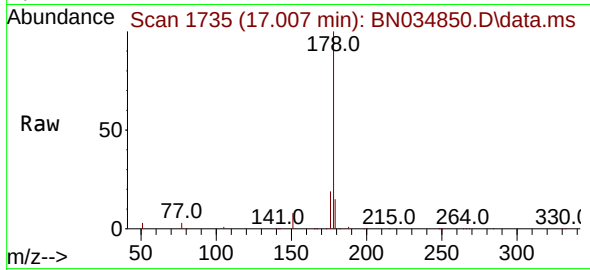




#25
Phenanthrene
Concen: 0.381 ng
RT: 17.007 min Scan# 1742
Delta R.T. 0.000 min
Lab File: BN034850.D
Acq: 04 Nov 2024 21:33

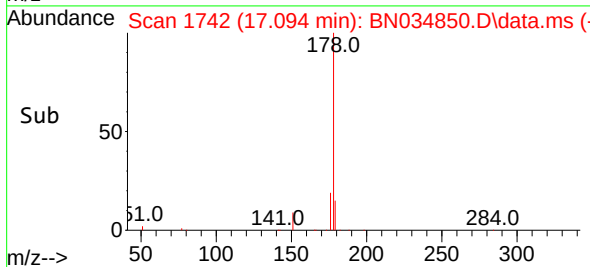
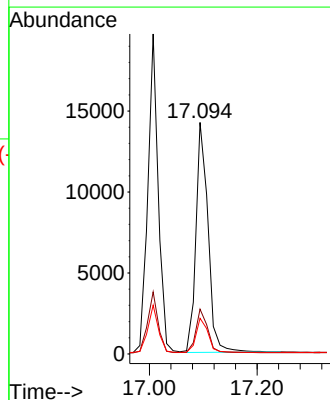
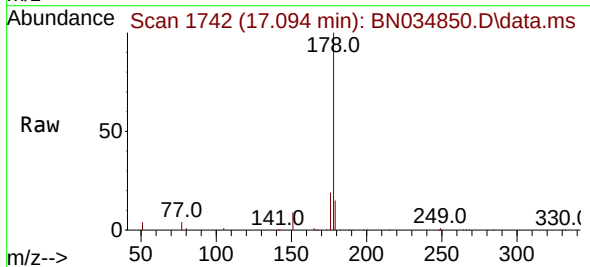
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

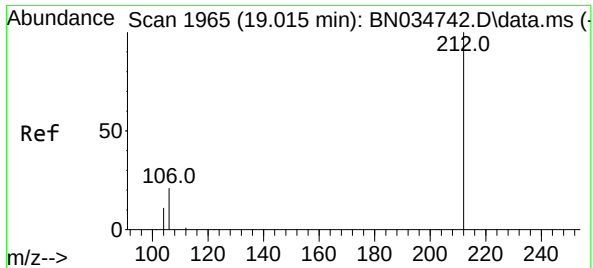
Tgt Ion:178 Resp: 26321
Ion Ratio Lower Upper
178 100
176 19.3 15.4 23.0
179 15.2 12.2 18.4



#26
Anthracene
Concen: 0.344 ng
RT: 17.094 min Scan# 1742
Delta R.T. 0.000 min
Lab File: BN034850.D
Acq: 04 Nov 2024 21:33

Tgt Ion:178 Resp: 22246
Ion Ratio Lower Upper
178 100
176 18.6 15.0 22.6
179 14.9 12.2 18.2

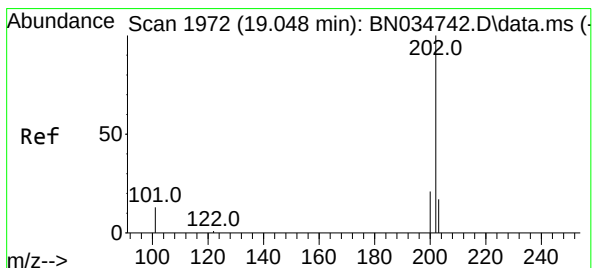
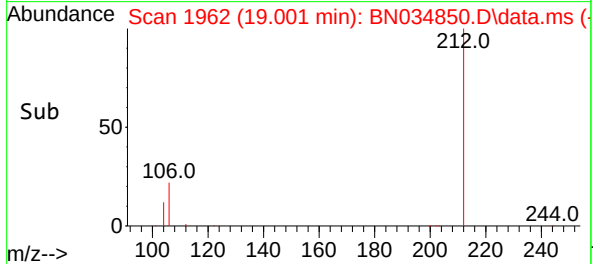
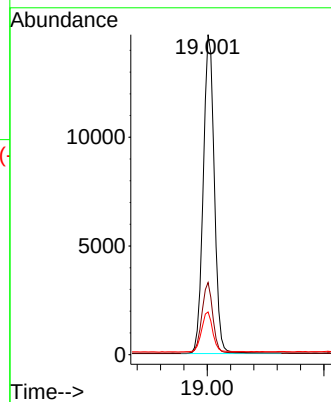
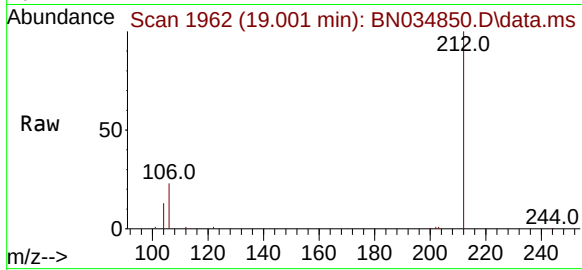




#27
Fluoranthene-d10
Concen: 0.353 ng
RT: 19.001 min Scan# 1969
Delta R.T. 0.000 min
Lab File: BN034850.D
Acq: 04 Nov 2024 21:33

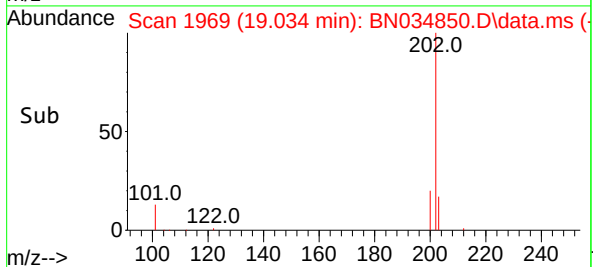
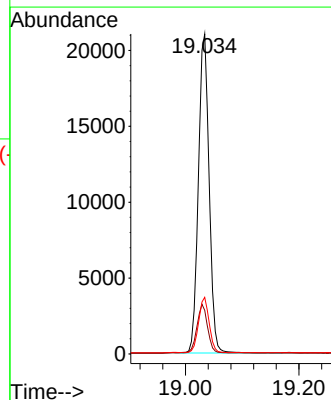
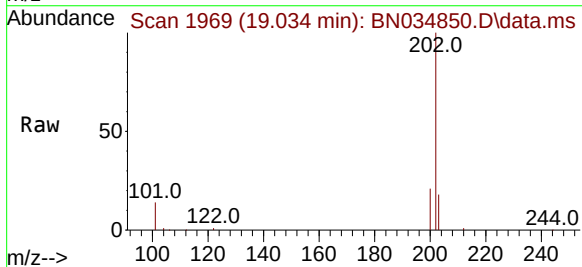
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

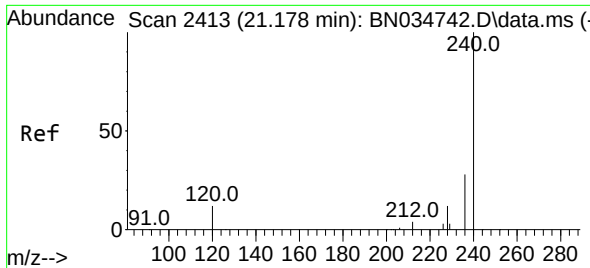
Tgt Ion	Ratio	Lower	Upper
212	100		
106	21.7	16.1	24.1
104	12.5	9.2	13.8



#28
Fluoranthene
Concen: 0.361 ng
RT: 19.034 min Scan# 1969
Delta R.T. 0.000 min
Lab File: BN034850.D
Acq: 04 Nov 2024 21:33

Tgt Ion	Ratio	Lower	Upper
202	100		
101	15.2	11.4	17.0
203	17.0	13.7	20.5

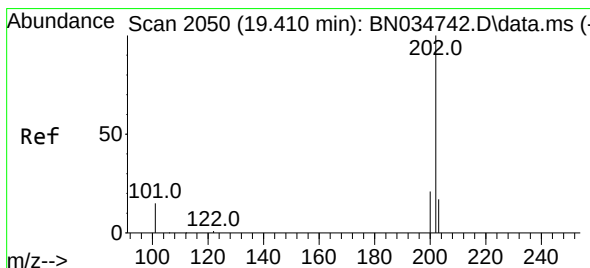
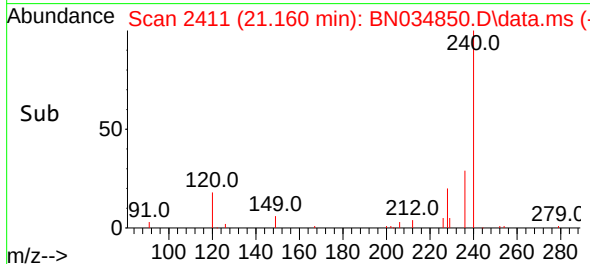
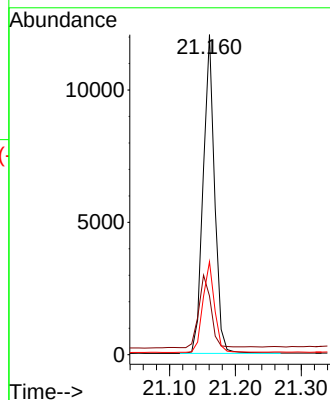
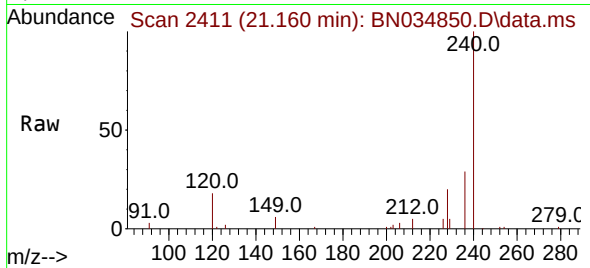




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.160 min Scan# 2411
Delta R.T. 0.000 min
Lab File: BN034850.D
Acq: 04 Nov 2024 21:33

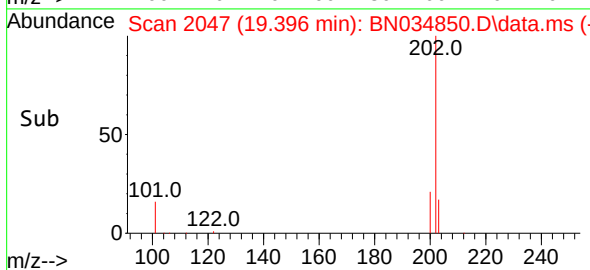
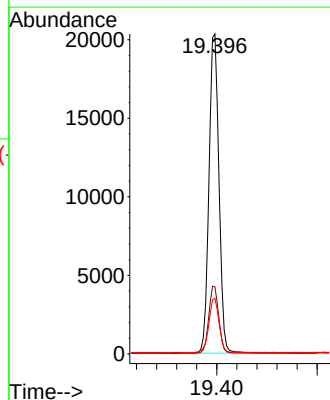
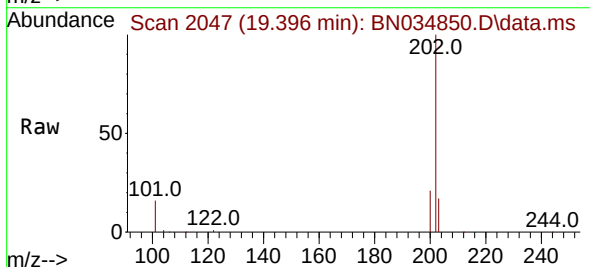
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

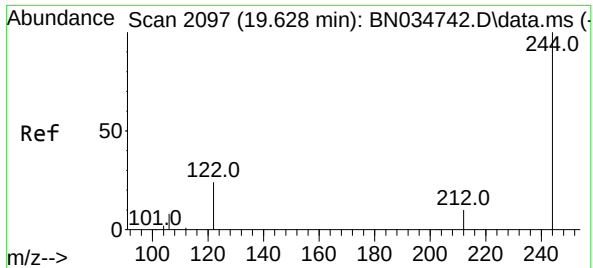
Tgt Ion:240 Resp: 14579
Ion Ratio Lower Upper
240 100
120 18.4 11.5 17.3#
236 29.1 23.2 34.8



#30
Pyrene
Concen: 0.368 ng
RT: 19.396 min Scan# 2047
Delta R.T. 0.000 min
Lab File: BN034850.D
Acq: 04 Nov 2024 21:33

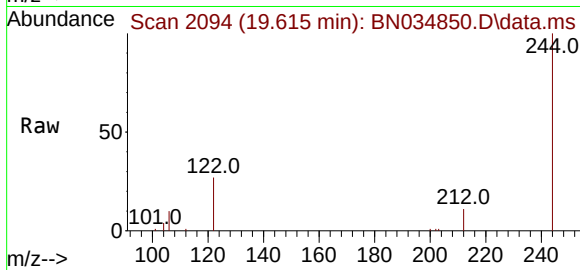
Tgt Ion:202 Resp: 28018
Ion Ratio Lower Upper
202 100
200 20.9 17.0 25.4
203 17.6 14.2 21.2



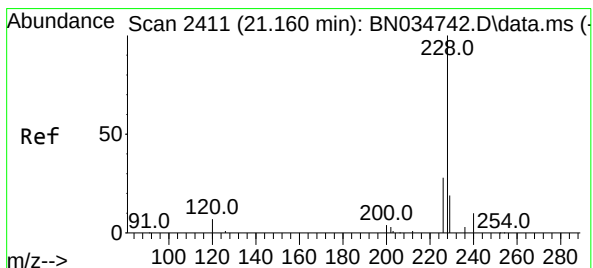
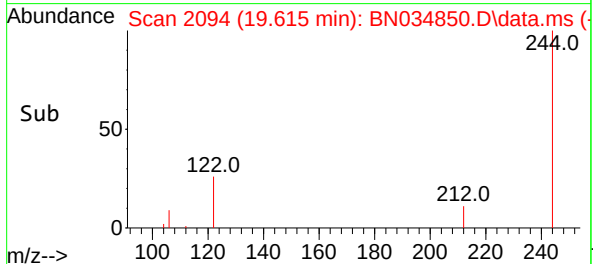
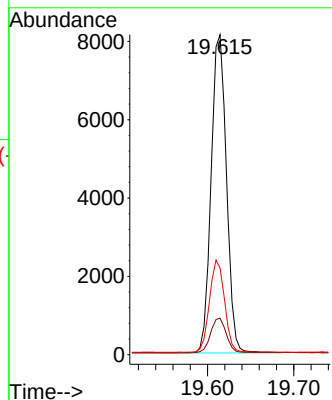


#31
Terphenyl-d14
Concen: 0.321 ng
RT: 19.615 min Scan# 2094
Delta R.T. 0.000 min
Lab File: BN034850.D
Acq: 04 Nov 2024 21:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

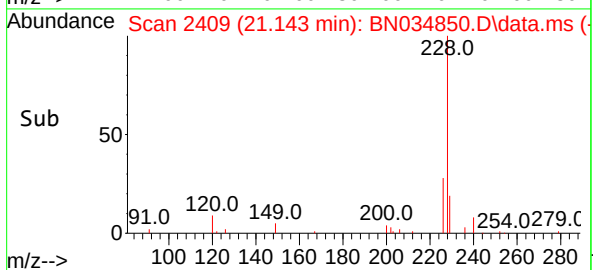
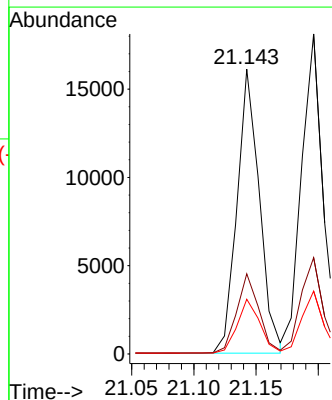
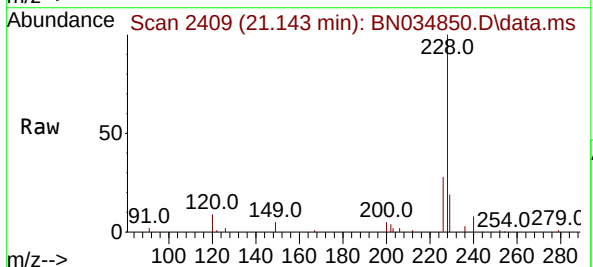


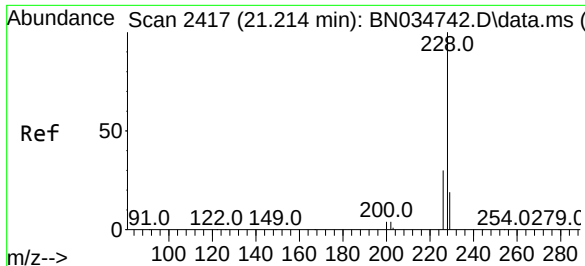
Tgt Ion:244 Resp: 10056
Ion Ratio Lower Upper
244 100
212 11.4 8.2 12.4
122 27.1 19.8 29.6



#32
Benzo(a)anthracene
Concen: 0.346 ng
RT: 21.143 min Scan# 2409
Delta R.T. 0.000 min
Lab File: BN034850.D
Acq: 04 Nov 2024 21:33

Tgt Ion:228 Resp: 20082
Ion Ratio Lower Upper
228 100
226 28.1 22.6 33.8
229 19.2 15.7 23.5

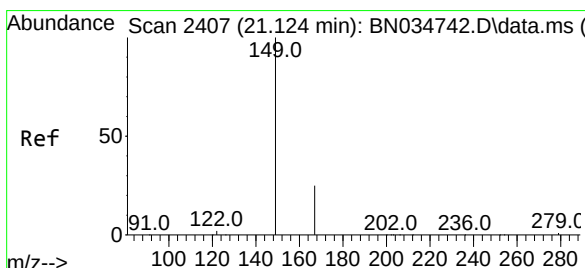
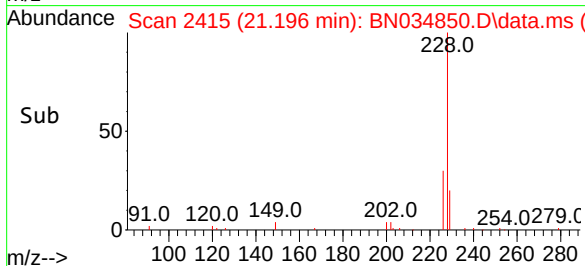
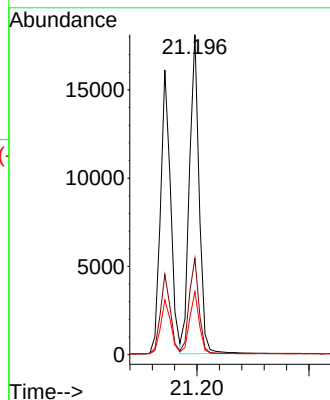
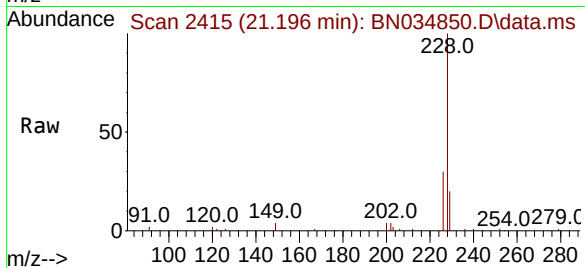




#33
Chrysene
Concen: 0.383 ng
RT: 21.196 min Scan# 2415
Delta R.T. 0.000 min
Lab File: BN034850.D
Acq: 04 Nov 2024 21:33

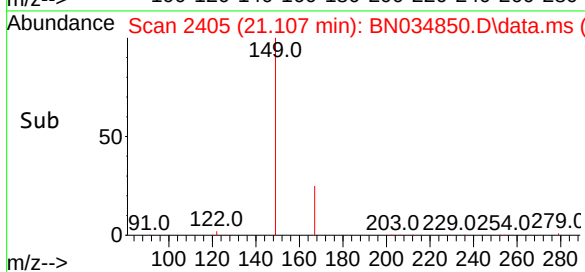
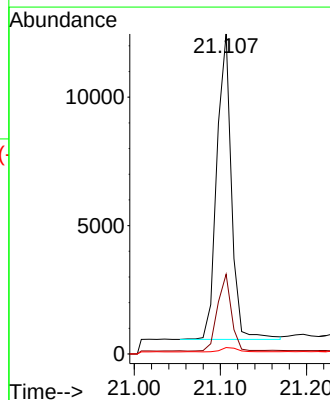
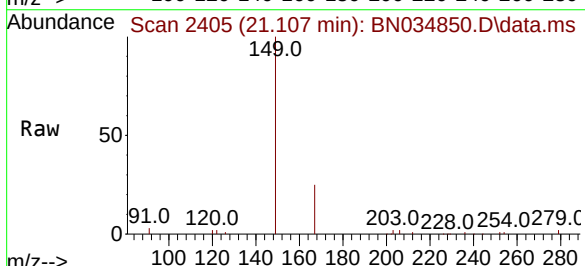
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

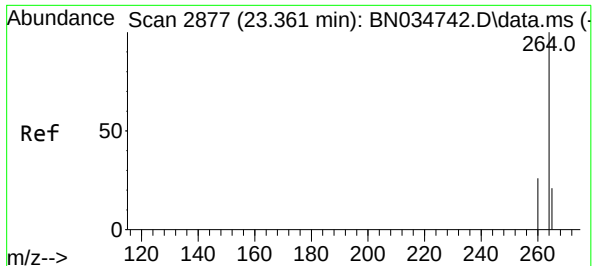
Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.1	24.4	36.6
229	19.7	15.6	23.4



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.287 ng
RT: 21.107 min Scan# 2405
Delta R.T. 0.000 min
Lab File: BN034850.D
Acq: 04 Nov 2024 21:33

Tgt Ion	Ratio	Lower	Upper
149	100		
167	23.8	20.6	30.8
279	1.7	1.5	2.3





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.335 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN034850.D

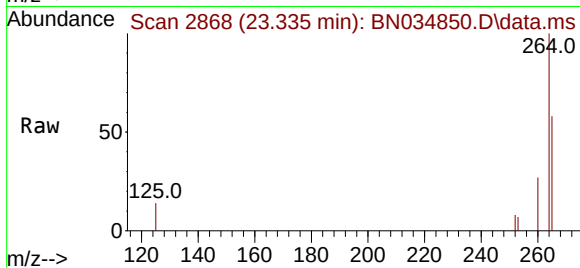
Acq: 04 Nov 2024 21:33

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



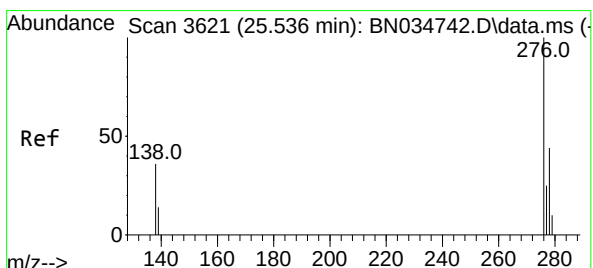
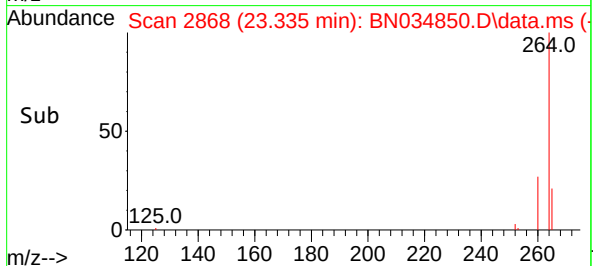
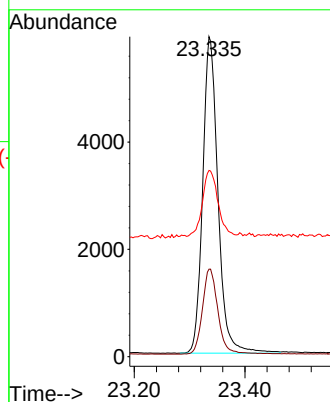
Tgt Ion:264 Resp: 11281

Ion Ratio Lower Upper

264 100

260 27.3 21.5 32.3

265 58.2 47.5 71.3



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.380 ng

RT: 25.504 min Scan# 3610

Delta R.T. 0.000 min

Lab File: BN034850.D

Acq: 04 Nov 2024 21:33

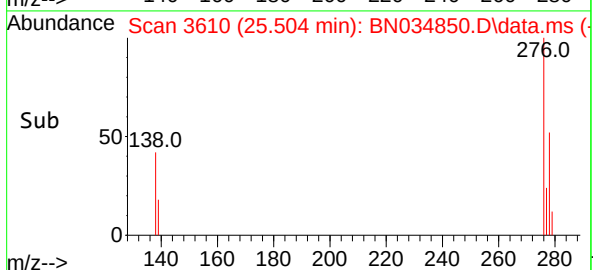
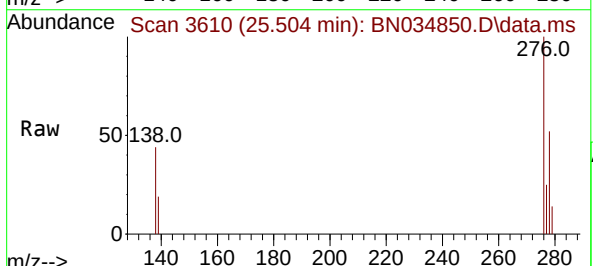
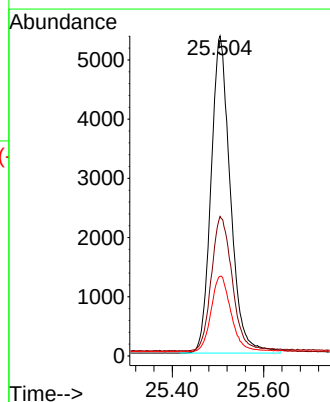
Tgt Ion:276 Resp: 15750

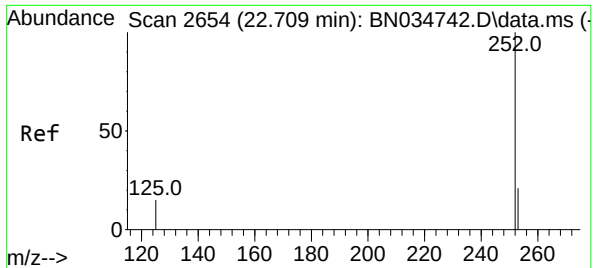
Ion Ratio Lower Upper

276 100

138 45.3 31.5 47.3

277 24.4 19.7 29.5

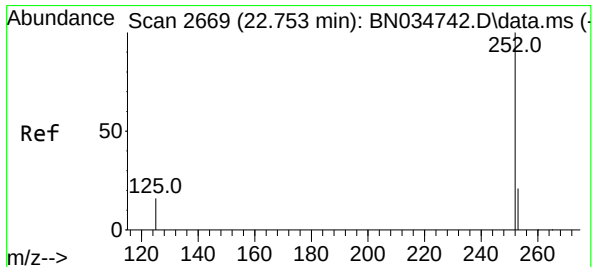
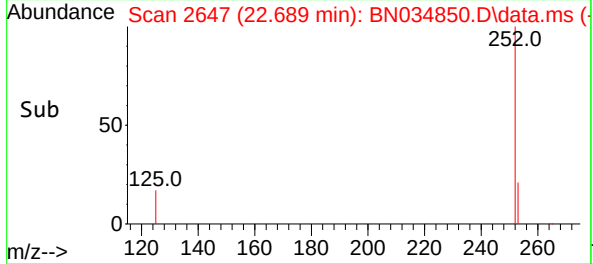
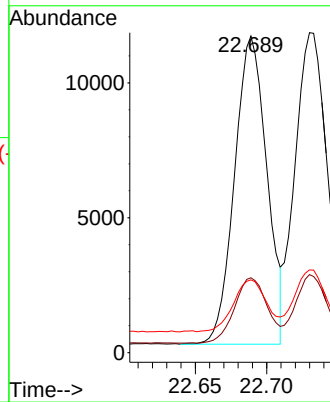
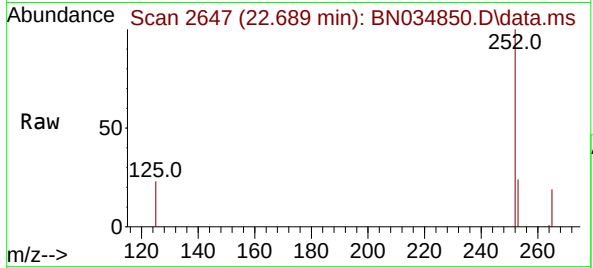




#37
Benzo(b)fluoranthene
Concen: 0.394 ng
RT: 22.689 min Scan# 2647
Delta R.T. 0.000 min
Lab File: BN034850.D
Acq: 04 Nov 2024 21:33

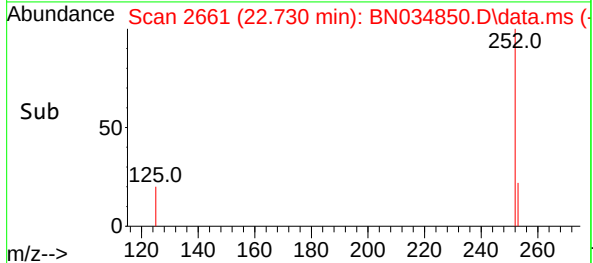
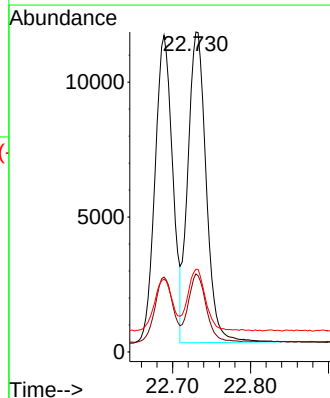
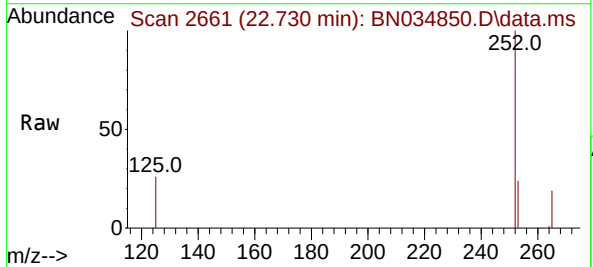
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

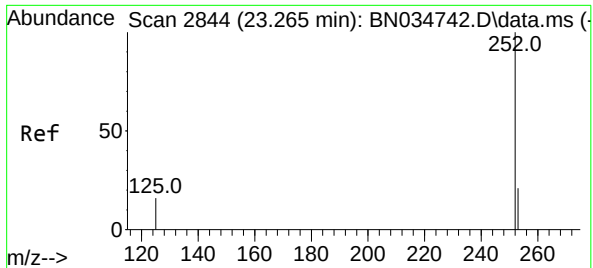
Tgt Ion:252 Resp: 17915
Ion Ratio Lower Upper
252 100
253 23.7 19.7 29.5
125 23.0 17.1 25.7



#38
Benzo(k)fluoranthene
Concen: 0.424 ng
RT: 22.730 min Scan# 2661
Delta R.T. 0.000 min
Lab File: BN034850.D
Acq: 04 Nov 2024 21:33

Tgt Ion:252 Resp: 18784
Ion Ratio Lower Upper
252 100
253 24.4 19.8 29.6
125 25.8 18.2 27.2





#39

Benzo(a)pyrene

Concen: 0.351 ng

RT: 23.241 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN034850.D

Acq: 04 Nov 2024 21:33

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

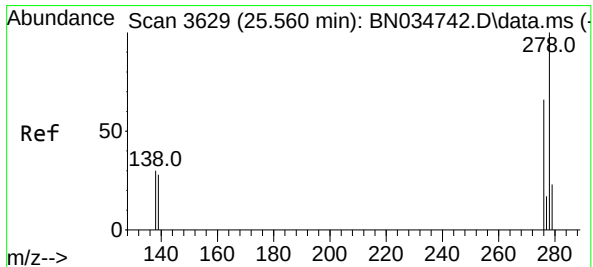
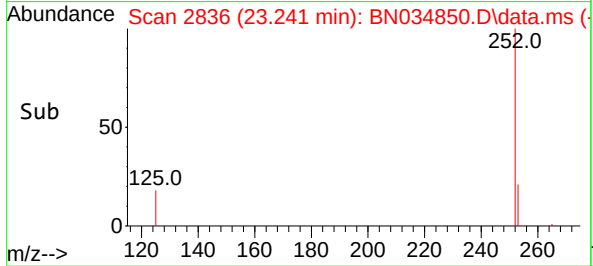
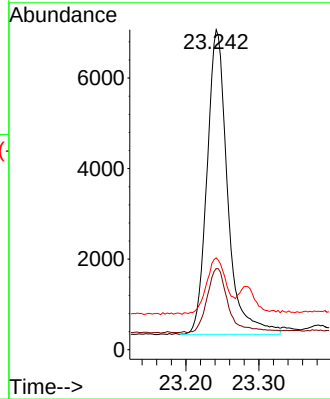
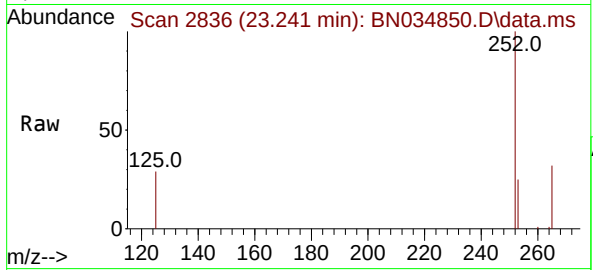
Tgt Ion:252 Resp: 13171

Ion Ratio Lower Upper

252 100

253 25.3 20.7 31.1

125 28.7 20.3 30.5



#40

Dibenzo(a,h)anthracene

Concen: 0.377 ng

RT: 25.525 min Scan# 3617

Delta R.T. 0.000 min

Lab File: BN034850.D

Acq: 04 Nov 2024 21:33

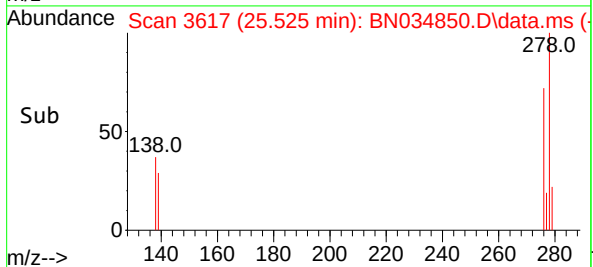
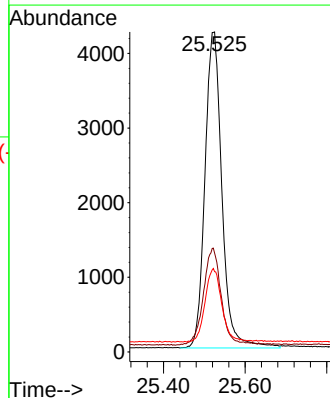
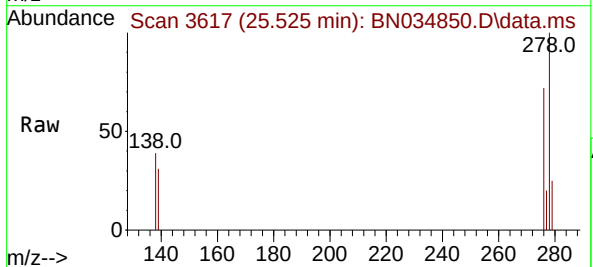
Tgt Ion:278 Resp: 12198

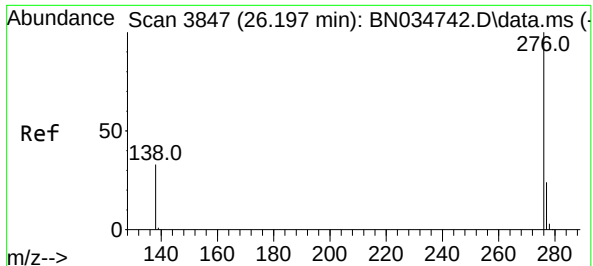
Ion Ratio Lower Upper

278 100

139 30.9 24.9 37.3

279 25.1 21.0 31.4





#41

Benzo(g,h,i)perylene

Concen: 0.371 ng

RT: 26.165 min Scan# 3836

Delta R.T. 0.000 min

Lab File: BN034850.D

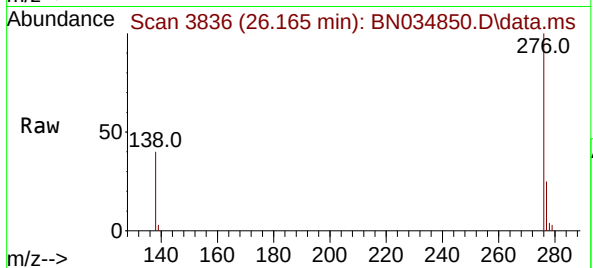
Acq: 04 Nov 2024 21:33

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



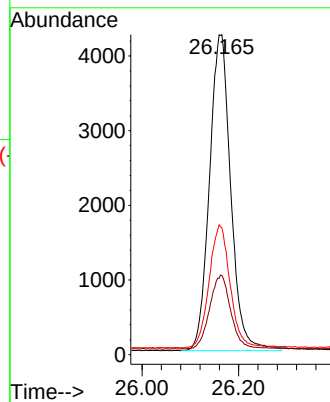
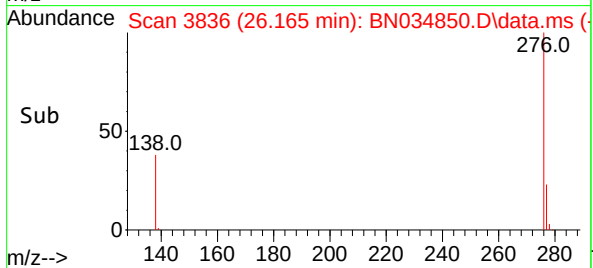
Tgt Ion:276 Resp: 12966

Ion Ratio Lower Upper

276 100

277 24.8 20.2 30.2

138 39.6 28.7 43.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110424\
Data File : BN034850.D
Acq On : 04 Nov 2024 21:33
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Nov 05 00:11:13 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 05 00:03:28 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	96	0.00
2	1,4-Dioxane	0.439	0.410	6.6	97	0.00
3	n-Nitrosodimethylamine	0.494	0.538	-8.9	118	0.00
4 S	2-Fluorophenol	1.212	1.320	-8.9	115	0.00
5 S	Phenol-d6	1.574	1.837	-16.7	125	0.00
6	bis(2-Chloroethyl)ether	1.149	1.134	1.3	103	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	99	0.00
8 S	Nitrobenzene-d5	0.314	0.268	14.6	95	0.00
9	Naphthalene	1.106	1.000	9.6	99	0.00
10	Hexachlorobutadiene	0.182	0.164	9.9	98	0.00
11 SURR	2-Methylnaphthalene-d10	0.579	0.495	14.5	94	0.00
12	2-Methylnaphthalene	0.723	0.612	15.4	93	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	88	0.00
14 S	2,4,6-Tribromophenol	0.198	0.157	20.7	87	0.00
15 S	2-Fluorobiphenyl	1.575	1.396	11.4	90	0.00
16	Acenaphthylene	2.007	1.582	21.2	83	0.00
17	Acenaphthene	1.337	1.110	17.0	86	0.00
18	Fluorene	1.667	1.399	16.1	86	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	84	0.00
20	4,6-Dinitro-2-methylphenol	0.059	0.032	45.8#	60	0.00
21	4-Bromophenyl-phenylether	0.231	0.197	14.7	79	0.00
22	Hexachlorobenzene	0.259	0.241	6.9	85	0.00
23	Atrazine	0.199	0.237	-19.1	112	0.00
24	Pentachlorophenol	0.112	0.086	23.2	80	0.00
25	Phenanthrene	1.176	1.120	4.8	88	0.00
26	Anthracene	1.101	0.946	14.1	81	0.00
27 SURR	Fluoranthene-d10	0.938	0.829	11.6	82	0.00
28	Fluoranthene	1.297	1.169	9.9	84	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	84	0.00
30	Pyrene	2.091	1.922	8.1	84	0.00
31 S	Terphenyl-d14	0.859	0.690	19.7	74	0.00
32	Benzo(a)anthracene	1.592	1.377	13.5	83	0.00
33	Chrysene	1.559	1.493	4.2	89	0.00
34	Bis(2-ethylhexyl)phthalate	1.331	0.956	28.2#	62	0.00
35 I	Perylene-d12	1.000	1.000	0.0	77	0.00
36	Indeno(1,2,3-cd)pyrene	1.471	1.396	5.1	81	0.00
37	Benzo(b)fluoranthene	1.610	1.588	1.4	84	0.00
38	Benzo(k)fluoranthene	1.571	1.665	-6.0	92	0.00
39 C	Benzo(a)pyrene	1.329	1.168	12.1	76	0.00
40	Dibenzo(a,h)anthracene	1.147	1.081	5.8	80	0.00
41	Benzo(g,h,i)perylene	1.240	1.149	7.3	78	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110424\
Data File : BN034850.D
Acq On : 04 Nov 2024 21:33
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Nov 05 00:11:13 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 05 00:03:28 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	96	0.00
2	1,4-Dioxane	0.400	0.374	6.5	97	0.00
3	n-Nitrosodimethylamine	0.400	0.435	-8.7	118	0.00
4 S	2-Fluorophenol	0.400	0.436	-9.0	115	0.00
5 S	Phenol-d6	0.400	0.467	-16.8	125	0.00
6	bis(2-Chloroethyl)ether	0.400	0.395	1.3	103	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	99	0.00
8 S	Nitrobenzene-d5	0.400	0.341	14.8	95	0.00
9	Naphthalene	0.400	0.362	9.5	99	0.00
10	Hexachlorobutadiene	0.400	0.359	10.3	98	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.342	14.5	94	0.00
12	2-Methylnaphthalene	0.400	0.338	15.5	93	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	88	0.00
14 S	2,4,6-Tribromophenol	0.400	0.318	20.5	87	0.00
15 S	2-Fluorobiphenyl	0.400	0.354	11.5	90	0.00
16	Acenaphthylene	0.400	0.315	21.3	83	0.00
17	Acenaphthene	0.400	0.332	17.0	86	0.00
18	Fluorene	0.400	0.336	16.0	86	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	84	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.347	13.3	60	0.00
21	4-Bromophenyl-phenylether	0.400	0.341	14.8	79	0.00
22	Hexachlorobenzene	0.400	0.372	7.0	85	0.00
23	Atrazine	0.400	0.477	-19.2	112	0.00
24	Pentachlorophenol	0.400	0.309	22.8	80	0.00
25	Phenanthrene	0.400	0.381	4.8	88	0.00
26	Anthracene	0.400	0.344	14.0	81	0.00
27 SURR	Fluoranthene-d10	0.400	0.353	11.8	82	0.00
28	Fluoranthene	0.400	0.361	9.8	84	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	84	0.00
30	Pyrene	0.400	0.368	8.0	84	0.00
31 S	Terphenyl-d14	0.400	0.321	19.8	74	0.00
32	Benzo(a)anthracene	0.400	0.346	13.5	83	0.00
33	Chrysene	0.400	0.383	4.3	89	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.287	28.3#	62	0.00
35 I	Perylene-d12	0.400	0.400	0.0	77	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.380	5.0	81	0.00
37	Benzo(b)fluoranthene	0.400	0.394	1.5	84	0.00
38	Benzo(k)fluoranthene	0.400	0.424	-6.0	92	0.00
39 C	Benzo(a)pyrene	0.400	0.351	12.3	76	0.00
40	Dibenzo(a,h)anthracene	0.400	0.377	5.8	80	0.00
41	Benzo(g,h,i)perylene	0.400	0.371	7.3	78	0.00

(#) = Out of Range

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



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P4652 SAS No.: P4652 SDG No.: P4652

Instrument ID: BNA_N Calibration Date/Time: 11/05/2024 04:09

Lab File ID: BN034861.D Init. Calib. Date(s): 10/30/2024 10/30/2024

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 09:20 12:56

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.579	0.506		-12.6	50.0
Fluoranthene-d10	0.938	0.812		-13.4	50.0
2-Fluorophenol	1.212	1.041		-14.1	50.0
Phenol-d6	1.574	1.409		-10.5	50.0
Nitrobenzene-d5	0.314	0.279		-11.1	50.0
2-Fluorobiphenyl	1.575	1.451		-7.9	50.0
2,4,6-Tribromophenol	0.198	0.105		-47.0	50.0
Terphenyl-d14	0.859	0.735		-14.4	50.0
1,4-Dioxane	0.439	0.451		2.7	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110424\
 Data File : BN034861.D
 Acq On : 05 Nov 2024 04:09
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Manual Integrations
 APPROVED

Reviewed By :Jagrut Upadhyay 11/05/2024
 Supervised By :mohammad ahmed 11/06/2024

Quant Time: Nov 05 04:35:52 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 05 00:03:28 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.589	152	6839	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	21431	0.400	ng	0.00
13) Acenaphthene-d10	14.222	164	10867	0.400	ng	0.00
19) Phenanthrene-d10	16.970	188	21411	0.400	ng	0.00
29) Chrysene-d12	21.160	240	12483	0.400	ng	# 0.00
35) Perylene-d12	23.341	264	9733	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.213	112	7120	0.344	ng	0.00
5) Phenol-d6	6.766	99	9636	0.358	ng	0.00
8) Nitrobenzene-d5	8.728	82	5987	0.355	ng	0.00
11) 2-Methylnaphthalene-d10	11.950	152	10849	0.350	ng	0.00
14) 2,4,6-Tribromophenol	15.716	330	1137	0.212	ng	0.00
15) 2-Fluorobiphenyl	12.843	172	15772	0.368	ng	0.00
27) Fluoranthene-d10	19.001	212	17385	0.346	ng	0.00
31) Terphenyl-d14	19.614	244	9173	0.342	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.198	88	3081	0.411	ng	Qvalue 92
3) n-Nitrosodimethylamine	3.494	42	4138	0.490	ng	# 81
6) bis(2-Chloroethyl)ether	7.026	93	8023	0.408	ng	95
9) Naphthalene	10.404	128	22001	0.371	ng	99
10) Hexachlorobutadiene	10.703	225	3576	0.366	ng	# 99
12) 2-Methylnaphthalene	12.026	142	13519	0.349	ng	99
16) Acenaphthylene	13.933	152	17717	0.325	ng	100
17) Acenaphthene	14.286	154	12570	0.346	ng	95
18) Fluorene	15.270	166	15790	0.349	ng	99
20) 4,6-Dinitro-2-methylph...	15.355	198	711	0.353	ng	# 79
21) 4-Bromophenyl-phenylether	16.175	248	4117	0.332	ng	# 91
22) Hexachlorobenzene	16.275	284	5221	0.376	ng	93
23) Atrazine	16.448	200	2930	0.275	ng	96
24) Pentachlorophenol	16.622	266	1399	0.234	ng	96
25) Phenanthrene	17.007	178	24192	0.384	ng	100
26) Anthracene	17.094	178	20428	0.347	ng	100
28) Fluoranthene	19.034	202	25234	0.364	ng	99
30) Pyrene	19.396	202	25452	0.390	ng	100
32) Benzo(a)anthracene	21.142	228	17648	0.355	ng	99
33) Chrysene	21.196	228	19265	0.396	ng	100
34) Bis(2-ethylhexyl)phtha...	21.107	149	11721	0.282	ng	# 96
36) Indeno(1,2,3-cd)pyrene	25.501	276	14740	0.412	ng	92
37) Benzo(b)fluoranthene	22.689	252	15905	0.406	ng	96
38) Benzo(k)fluoranthene	22.733	252	16776m	0.439	ng	
39) Benzo(a)pyrene	23.241	252	11941	0.369	ng	# 93
40) Dibenzo(a,h)anthracene	25.516	278	11413	0.409	ng	98
41) Benzo(g,h,i)perylene	26.159	276	12092	0.401	ng	95

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

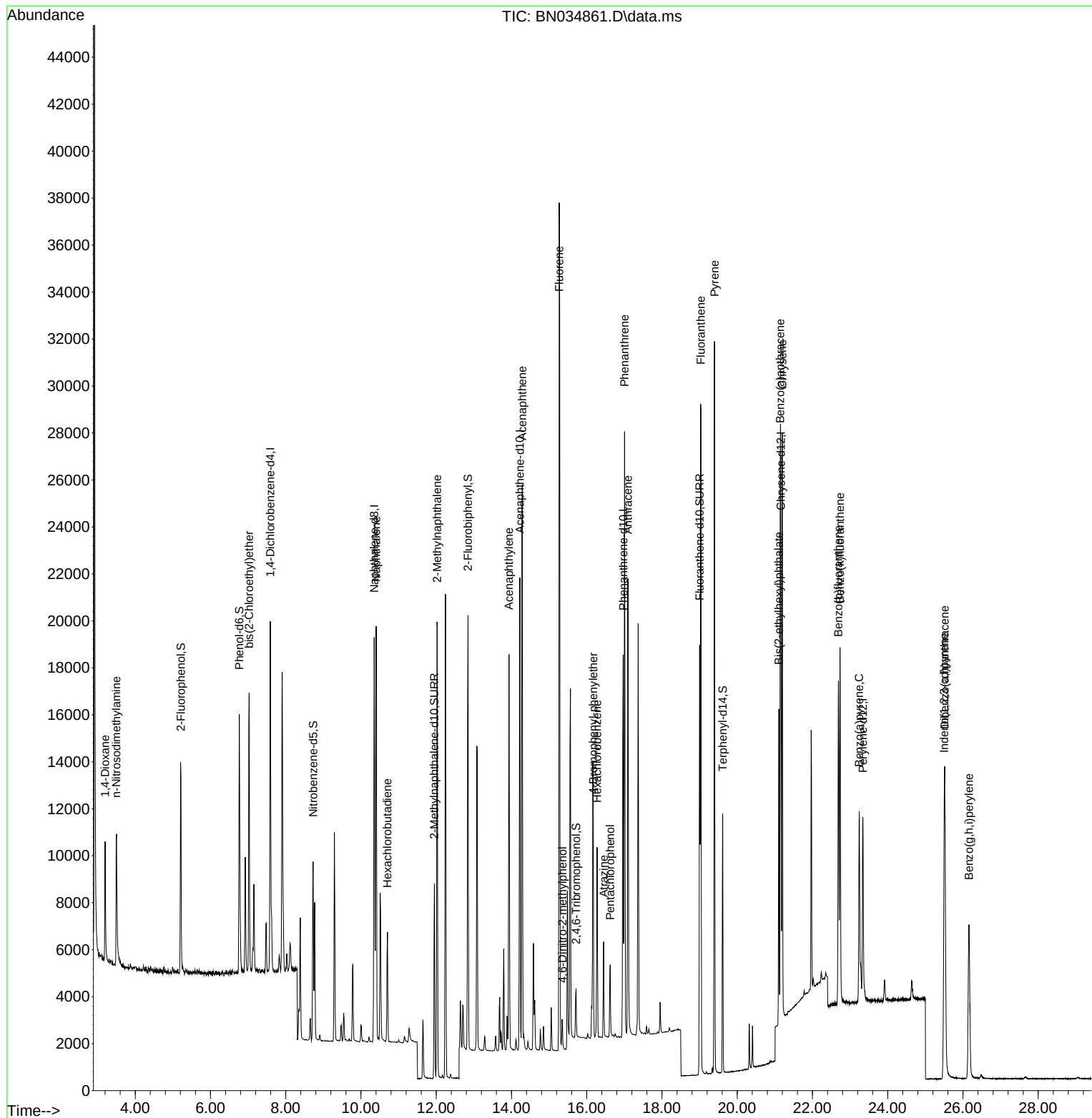
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Data File : BN034861.D
Acq On : 05 Nov 2024 04:09
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 25 Sample Multiplier: 1

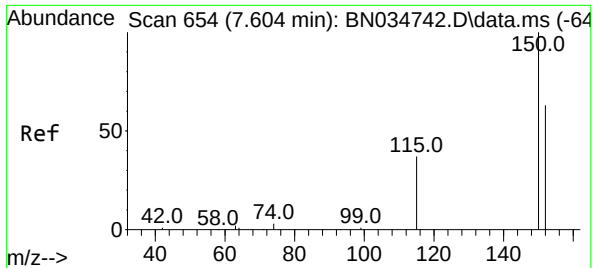
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024

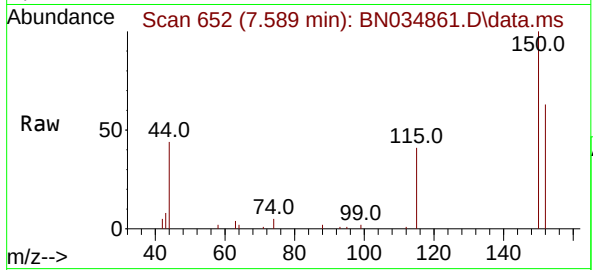
Quant Time: Nov 05 04:35:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 05 00:03:28 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.589 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

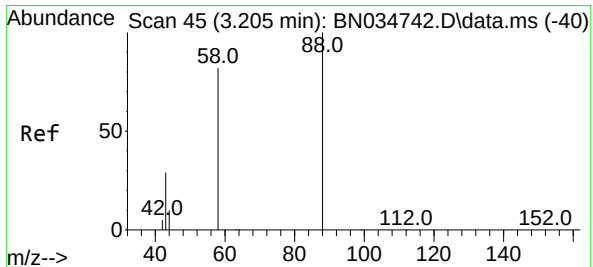
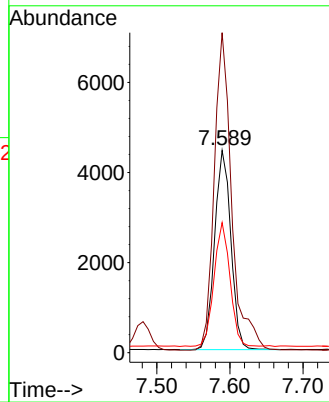
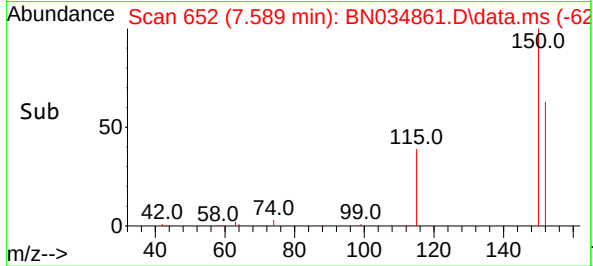
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion: 152 Resp: 6839
Ion Ratio Lower Upper
152 100
150 158.2 124.9 187.3
115 64.3 50.2 75.2

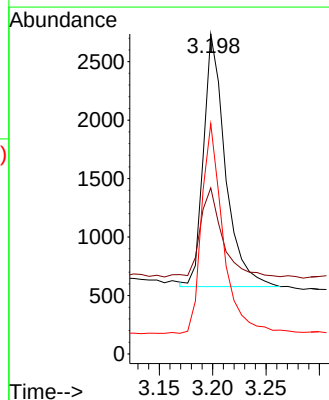
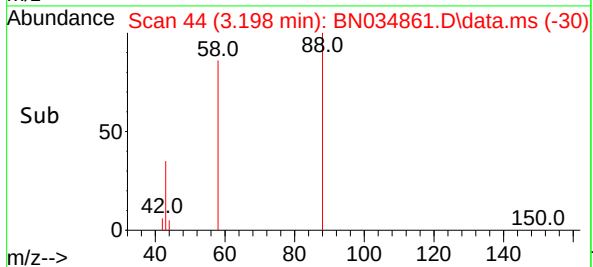
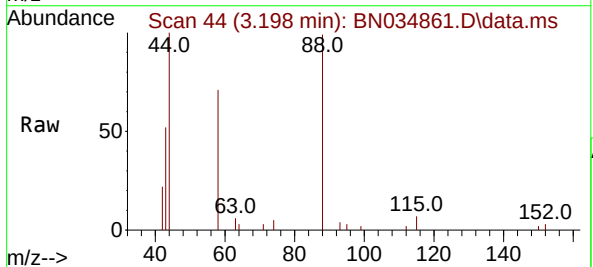
Manual Integrations
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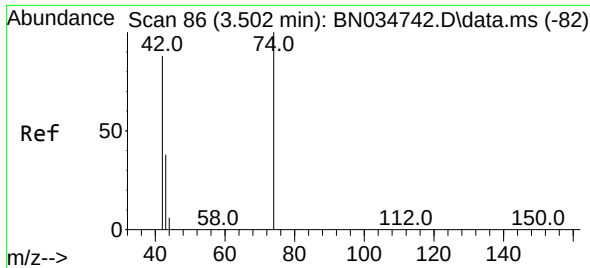
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



#2
1,4-Dioxane
Concen: 0.411 ng
RT: 3.198 min Scan# 44
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

Tgt Ion: 88 Resp: 3081
Ion Ratio Lower Upper
88 100
43 35.7 26.7 40.1
58 82.6 59.3 88.9





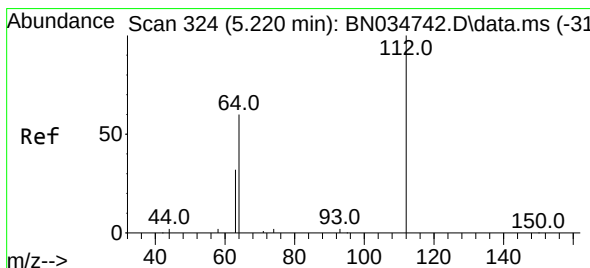
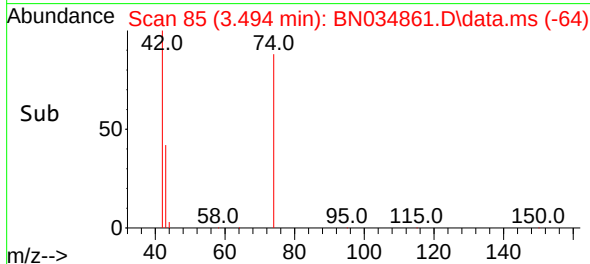
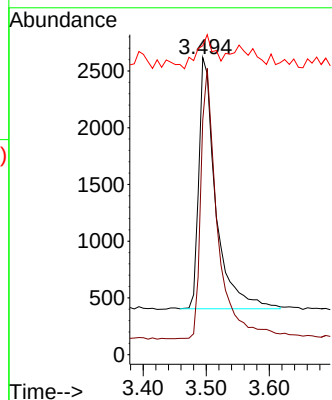
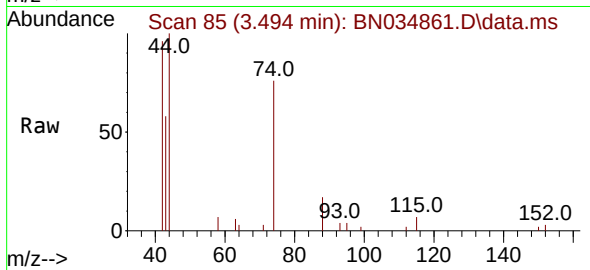
#3
n-Nitrosodimethylamine
Concen: 0.490 ng
RT: 3.494 min Scan# 80
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 42 Resp: 4138
Ion Ratio Lower Upper
42 100
74 106.6 103.1 154.7
44 12.9 6.7 10.1

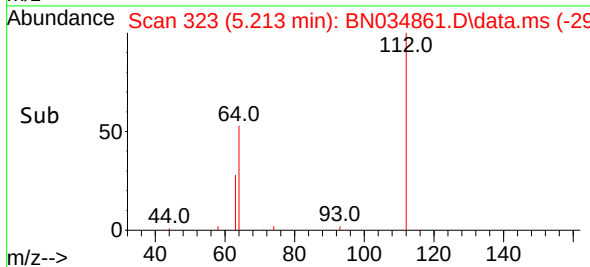
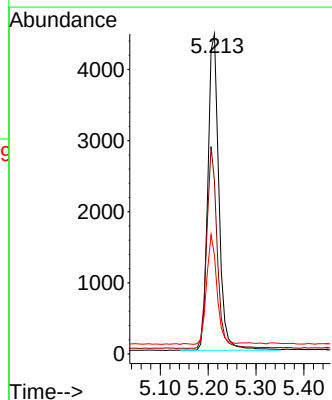
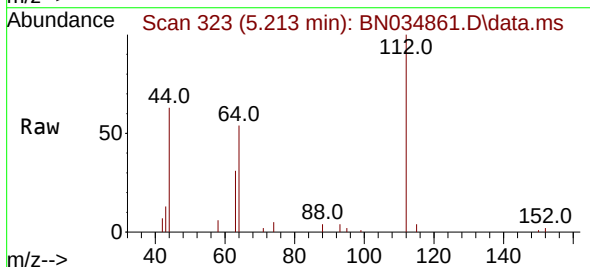
Manual Integrations
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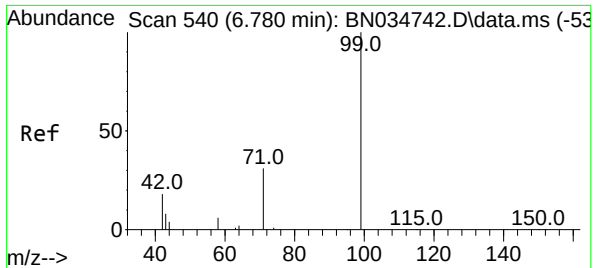
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



#4
2-Fluorophenol
Concen: 0.344 ng
RT: 5.213 min Scan# 323
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

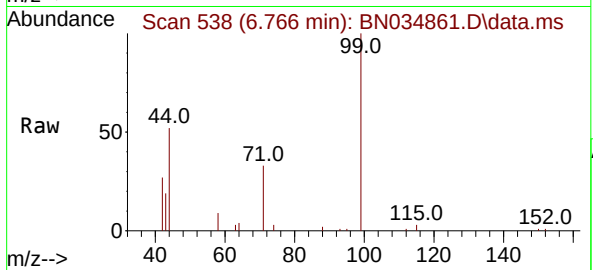
Tgt Ion:112 Resp: 7120
Ion Ratio Lower Upper
112 100
64 60.3 44.9 67.3
63 32.5 23.5 35.3





#5
Phenol-d6
Concen: 0.358 ng
RT: 6.766 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

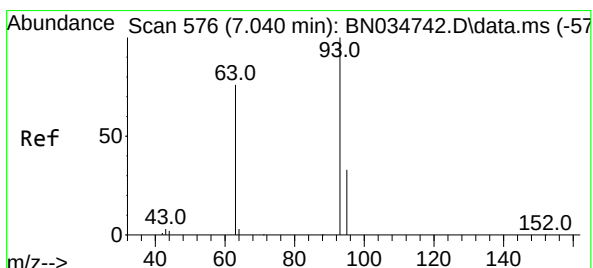
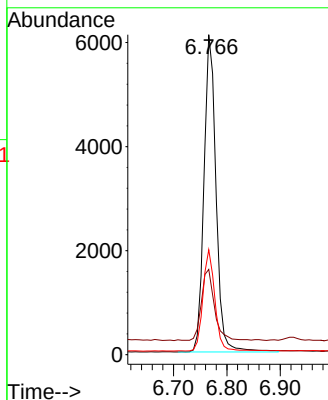
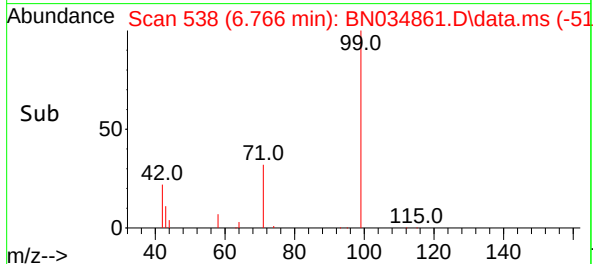
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion: 99 Resp: 9630
Ion Ratio Lower Upper
99 100
42 23.8 15.9 23.9
71 31.9 24.3 36.5

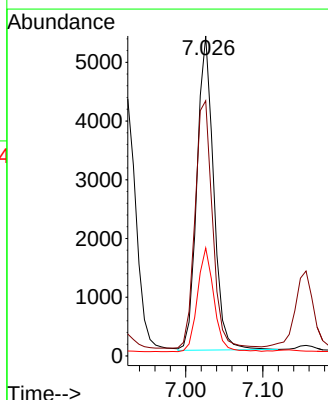
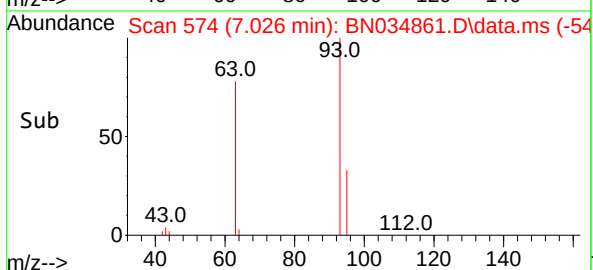
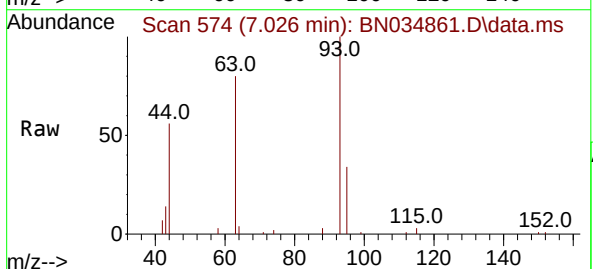
Manual Integrations
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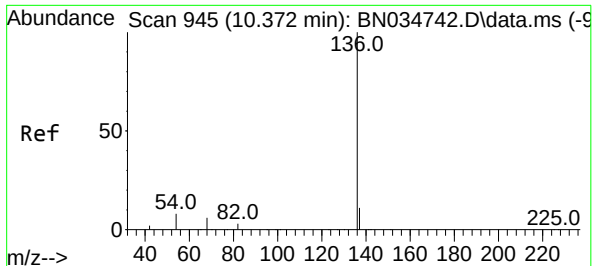
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.408 ng
RT: 7.026 min Scan# 574
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

Tgt Ion: 93 Resp: 8023
Ion Ratio Lower Upper
93 100
63 82.9 61.2 91.8
95 32.5 25.8 38.8





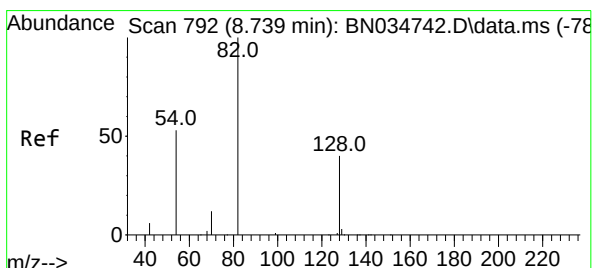
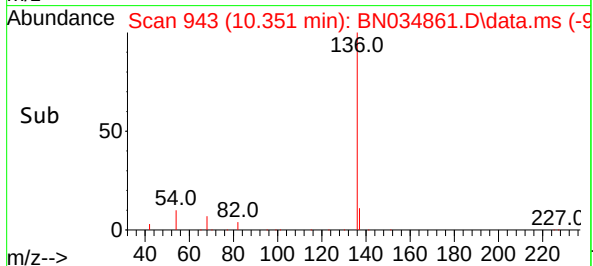
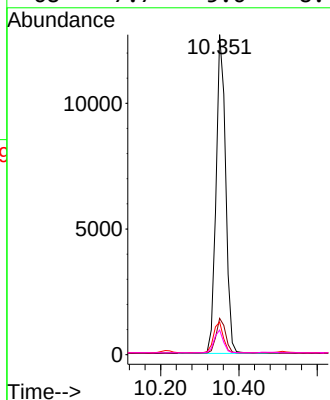
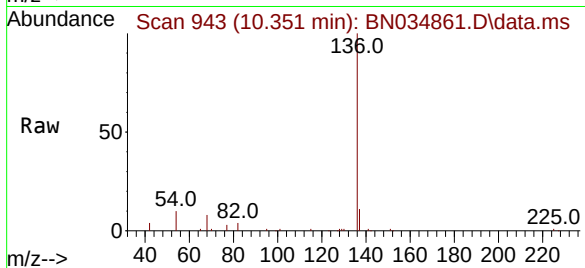
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 945
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:	136	Resp:	2143
Ion Ratio	Lower	Upper	
136	100		
137	11.3	9.2	13.8
54	10.2	7.0	10.4
68	7.7	5.6	8.4

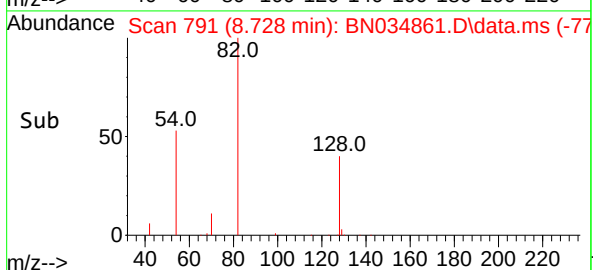
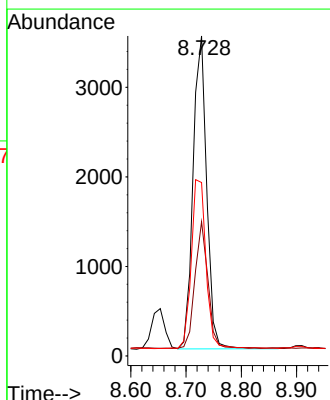
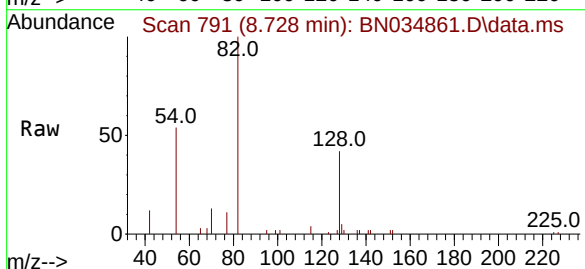
Manual Integrations
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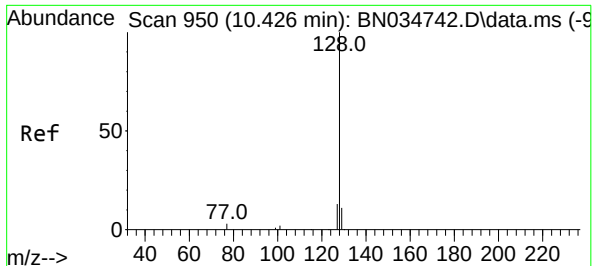
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



#8
Nitrobenzene-d5
Concen: 0.355 ng
RT: 8.728 min Scan# 791
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

Tgt Ion:	82	Resp:	5987
Ion Ratio	Lower	Upper	
82	100		
128	41.9	33.7	50.5
54	54.2	44.4	66.6





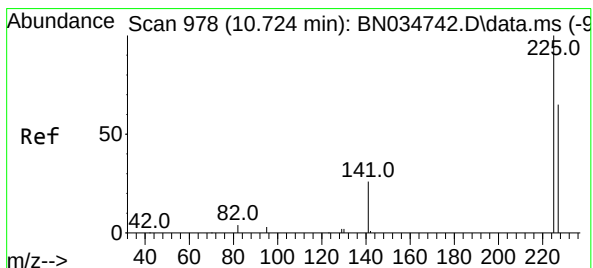
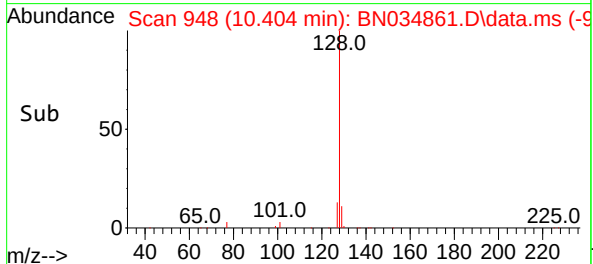
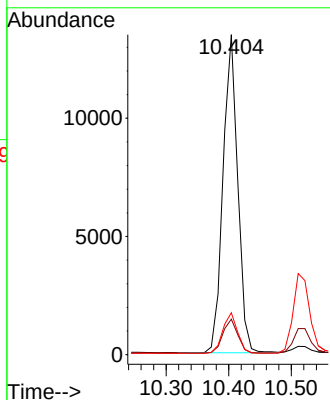
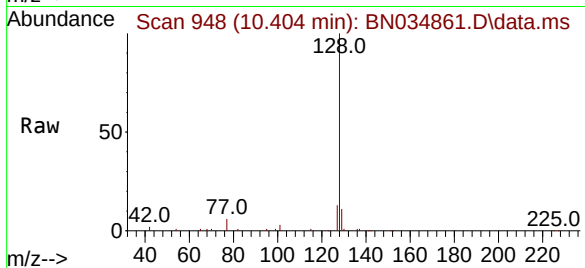
#9
Naphthalene
Concen: 0.371 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:128 Resp: 2200
Ion Ratio Lower Upper
128 100
129 11.1 9.4 14.0
127 13.1 10.6 15.8

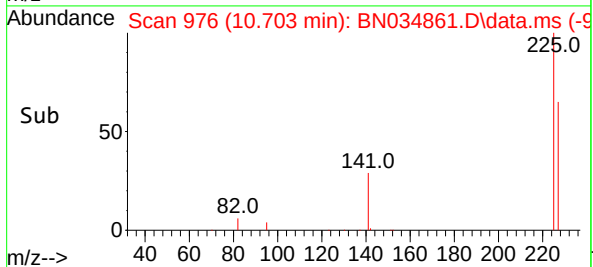
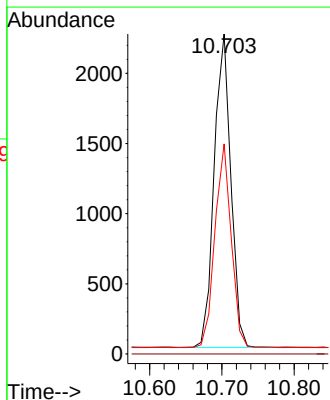
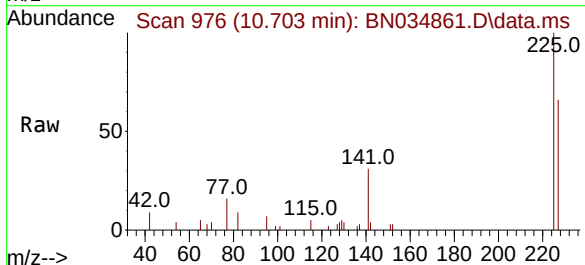
Manual Integrations
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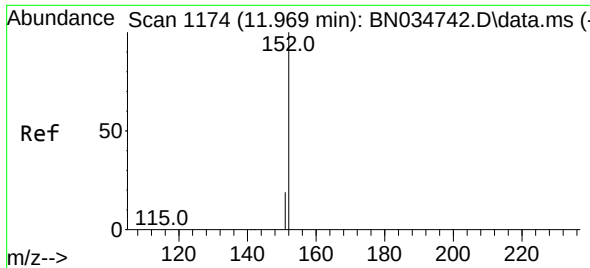
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



#10
Hexachlorobutadiene
Concen: 0.366 ng
RT: 10.703 min Scan# 976
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

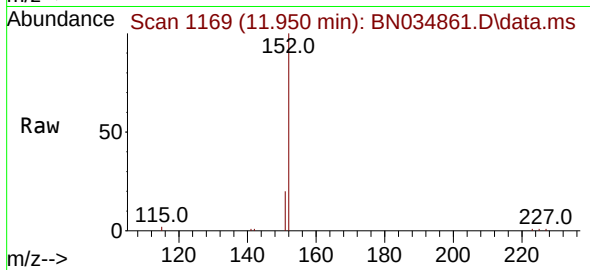
Tgt Ion:225 Resp: 3576
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.5 51.4 77.2





#11
2-Methylnaphthalene-d10
Concen: 0.350 ng
RT: 11.950 min Scan# 1174
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

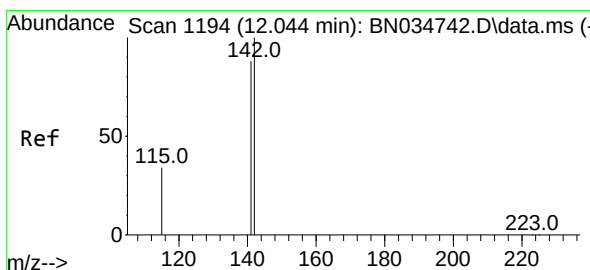
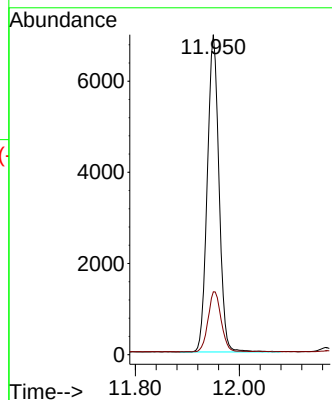
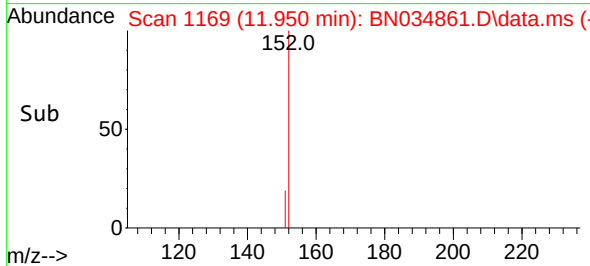
Instrument :
BNA_N
ClientSampleId :
SSTDC00.4EC



Tgt Ion:152 Resp: 10849
Ion Ratio Lower Upper
152 100
151 21.2 16.6 24.8

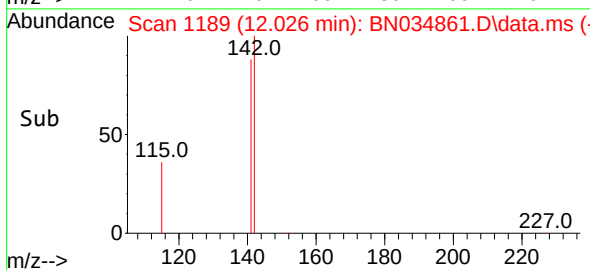
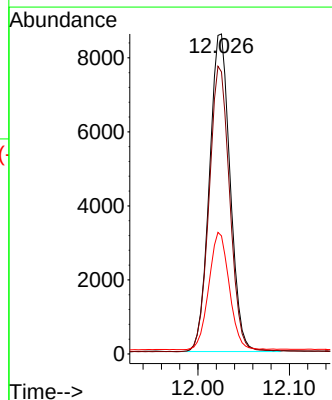
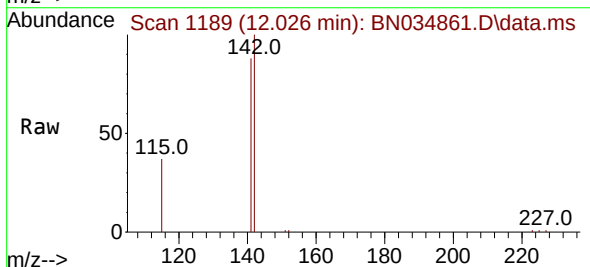
Manual Integrations
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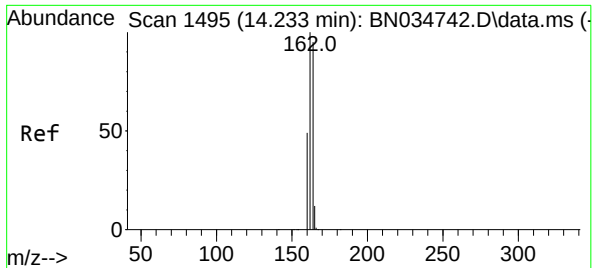
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



#12
2-Methylnaphthalene
Concen: 0.349 ng
RT: 12.026 min Scan# 1189
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

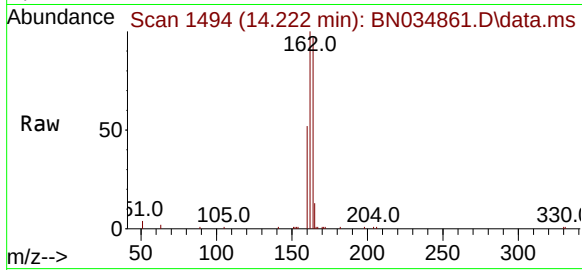
Tgt Ion:142 Resp: 13519
Ion Ratio Lower Upper
142 100
141 88.2 70.6 106.0
115 36.9 28.6 42.8





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.222 min Scan# 1494
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

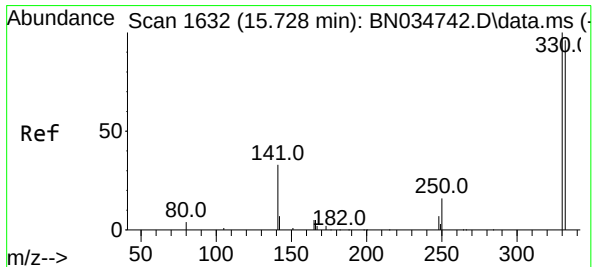
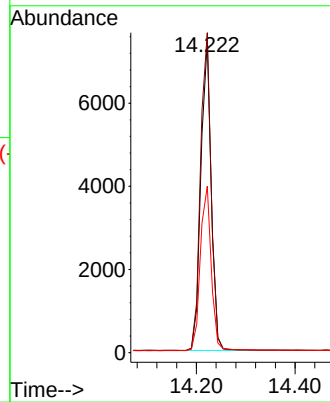
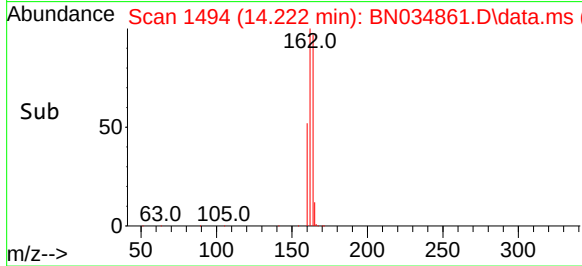
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



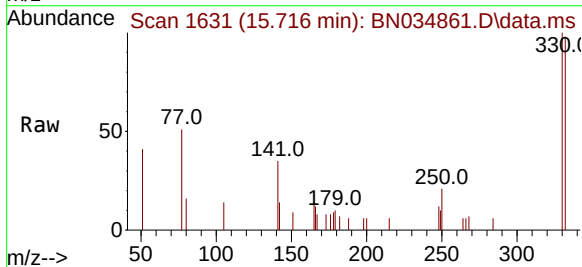
Tgt Ion:164 Resp: 1086
Ion Ratio Lower Upper
164 100
162 102.8 84.3 126.5
160 53.4 41.7 62.5

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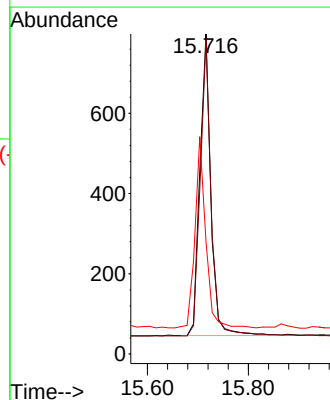
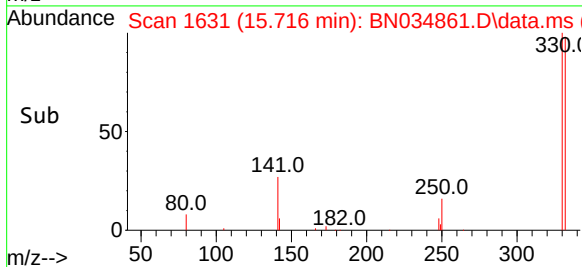
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024

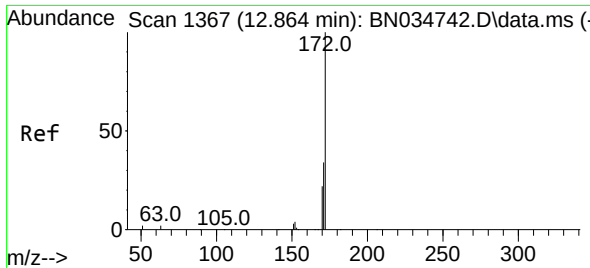


#14
2,4,6-Tribromophenol
Concen: 0.212 ng
RT: 15.716 min Scan# 1631
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09



Tgt Ion:330 Resp: 1137
Ion Ratio Lower Upper
330 100
332 97.5 77.8 116.6
141 61.7 41.0 61.4#





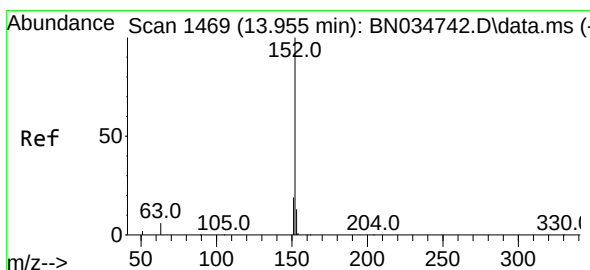
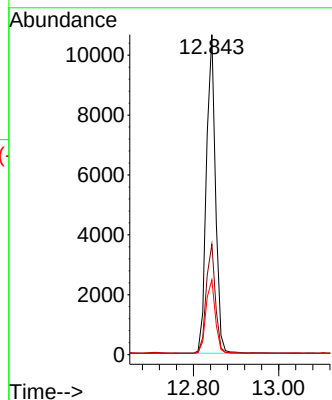
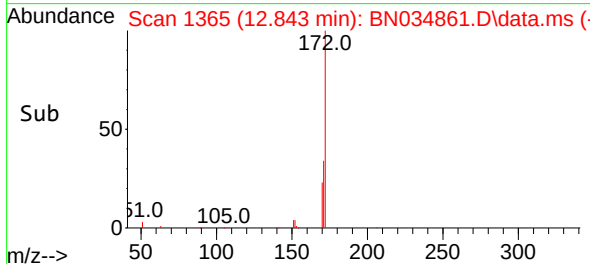
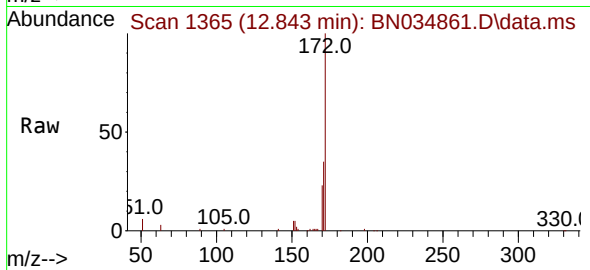
#15
2-Fluorobiphenyl
Concen: 0.368 ng
RT: 12.843 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:172 Resp: 15772
Ion Ratio Lower Upper
172 100
171 34.5 27.2 40.8
170 23.4 18.0 27.0

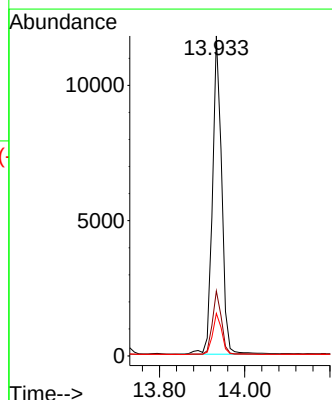
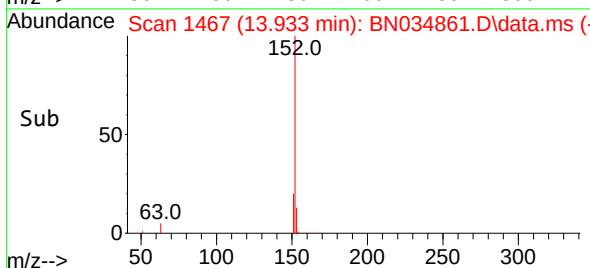
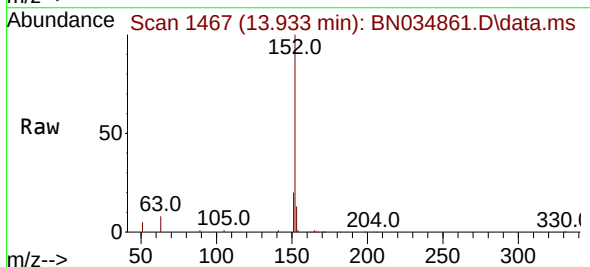
Manual Integrations
APPROVED

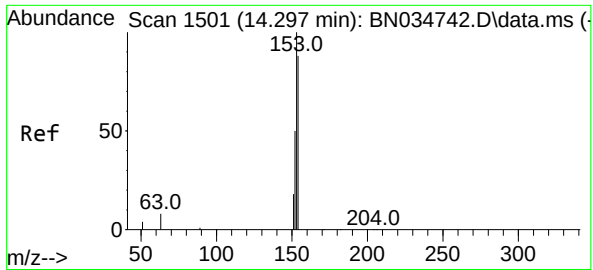
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



#16
Acenaphthylene
Concen: 0.325 ng
RT: 13.933 min Scan# 1467
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

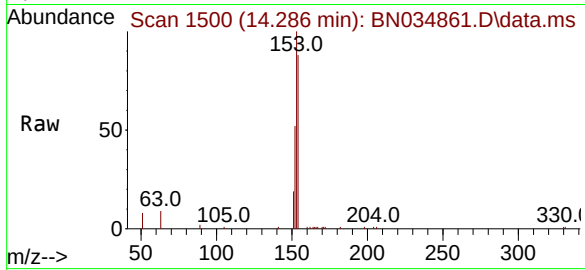
Tgt Ion:152 Resp: 17717
Ion Ratio Lower Upper
152 100
151 19.4 15.4 23.2
153 13.0 10.2 15.4





#17
Acenaphthene
Concen: 0.346 ng
RT: 14.286 min Scan# 1500
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

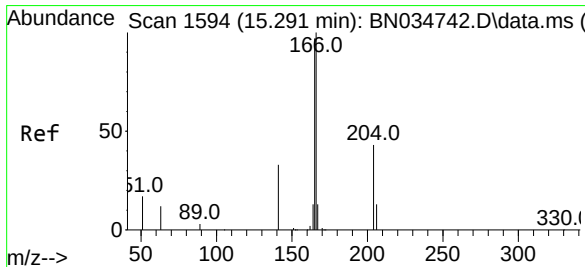
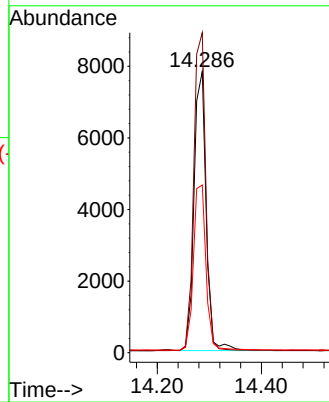
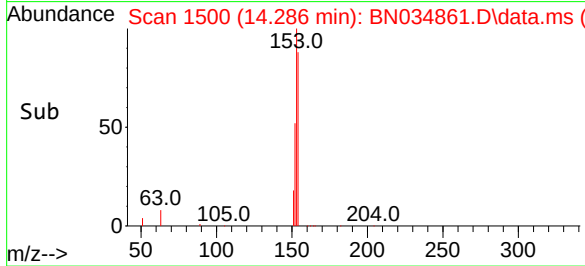
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:154 Resp: 12570
Ion Ratio Lower Upper
154 100
153 113.6 87.8 131.6
152 61.6 44.6 67.0

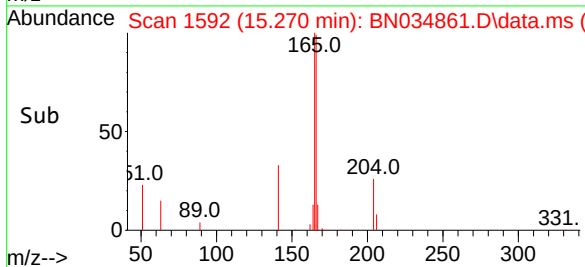
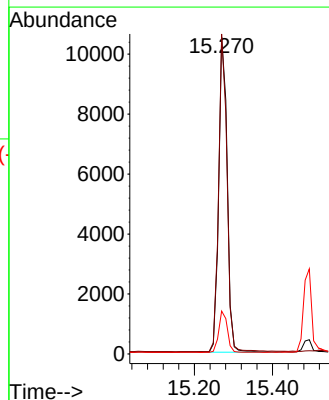
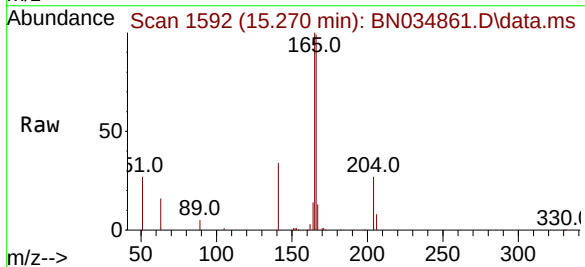
Manual Integrations
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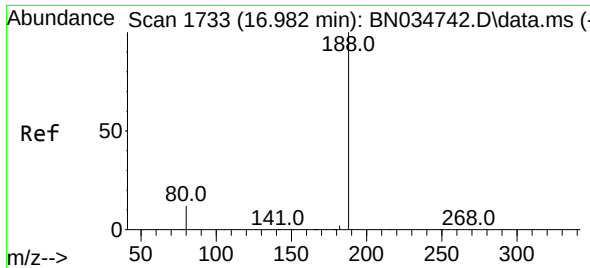
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



#18
Fluorene
Concen: 0.349 ng
RT: 15.270 min Scan# 1592
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

Tgt Ion:166 Resp: 15790
Ion Ratio Lower Upper
166 100
165 99.3 78.5 117.7
167 13.4 10.8 16.2





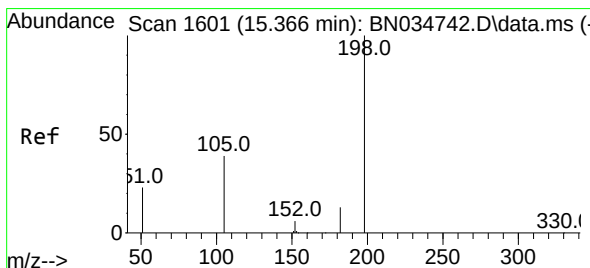
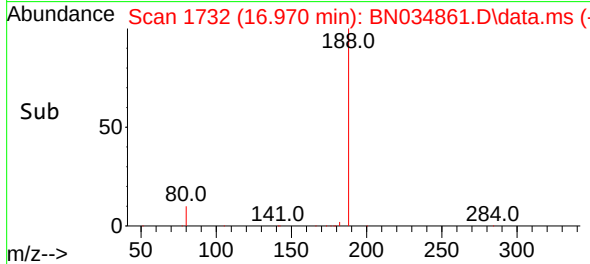
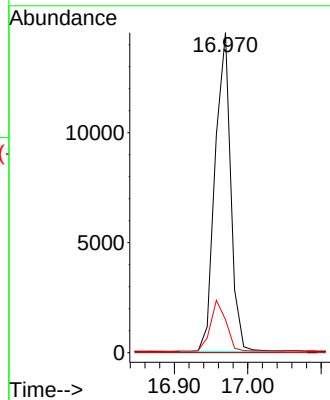
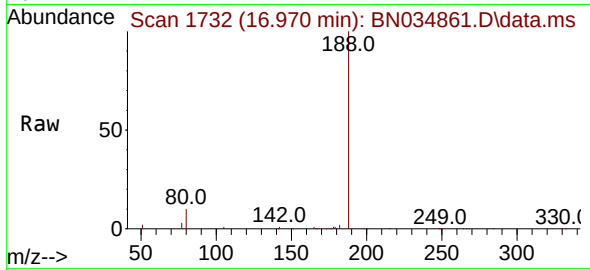
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.970 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.4	9.8	14.6

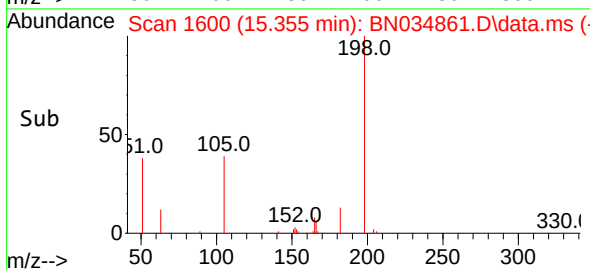
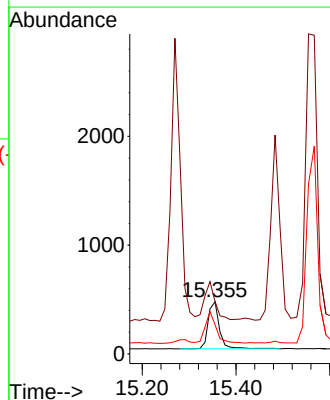
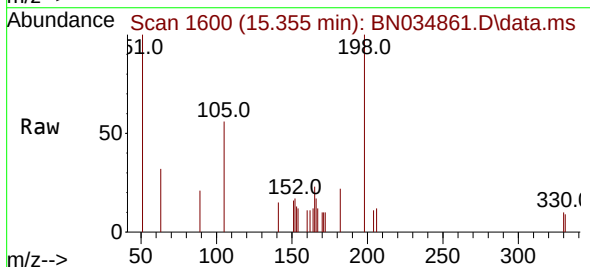
Manual Integrations
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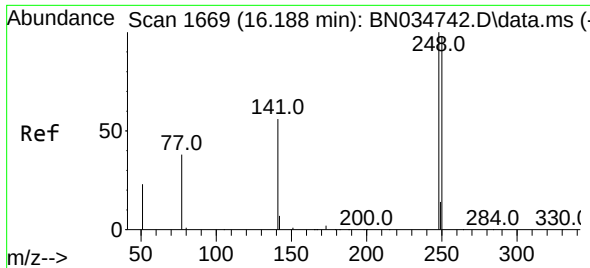
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



#20
4,6-Dinitro-2-methylphenol
Concen: 0.353 ng
RT: 15.355 min Scan# 1600
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

Tgt Ion	Ratio	Lower	Upper
198	100		
51	100.4	58.0	87.0#
105	55.8	49.1	73.7





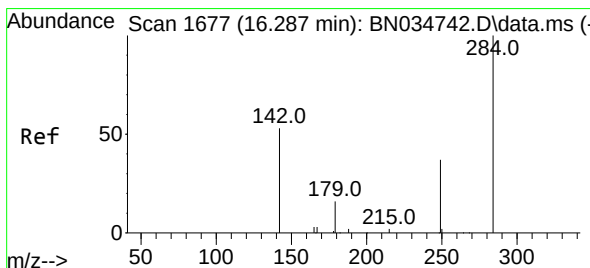
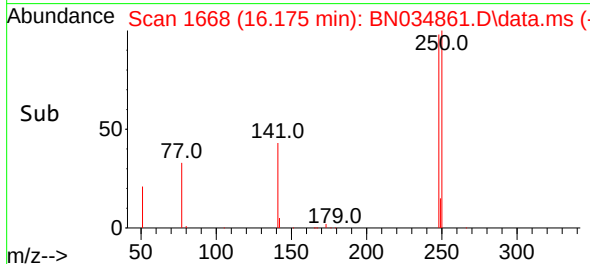
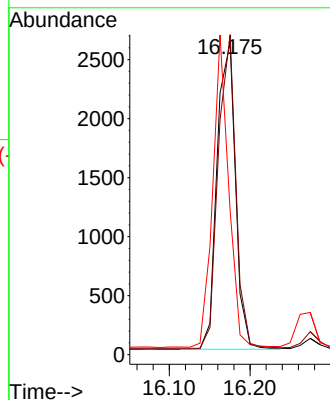
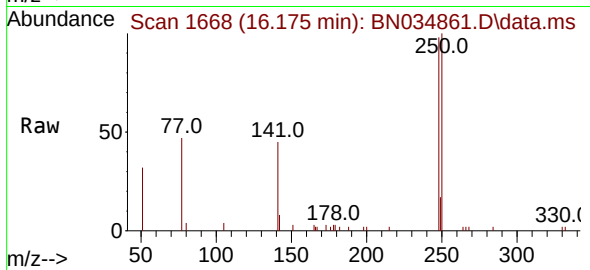
#21
4-Bromophenyl-phenylether
Concen: 0.332 ng
RT: 16.175 min Scan# 1668
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:248 Resp: 411
Ion Ratio Lower Upper
248 100
250 102.5 78.7 118.1
141 46.2 46.4 69.6

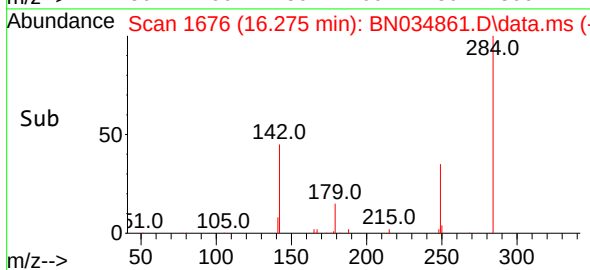
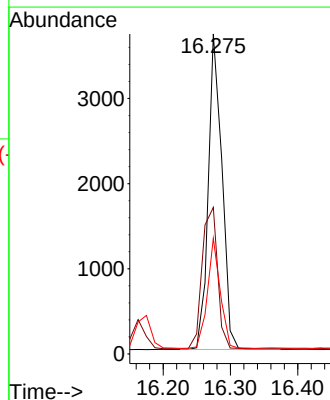
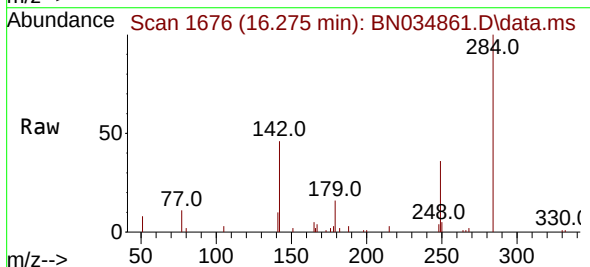
Manual Integrations
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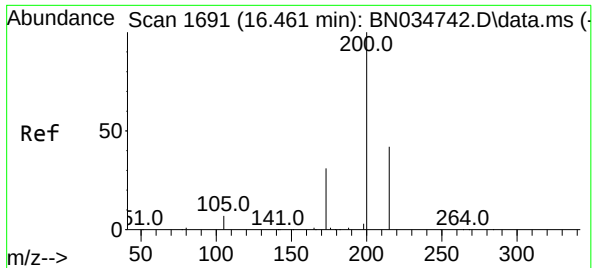
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



#22
Hexachlorobenzene
Concen: 0.376 ng
RT: 16.275 min Scan# 1676
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

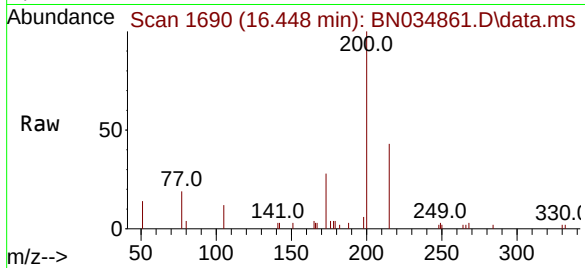
Tgt Ion:284 Resp: 5221
Ion Ratio Lower Upper
284 100
142 51.0 35.4 53.0
249 32.9 25.7 38.5





#23
Atrazine
Concen: 0.275 ng
RT: 16.448 min Scan# 1690
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

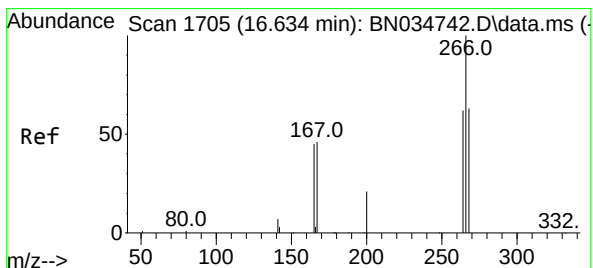
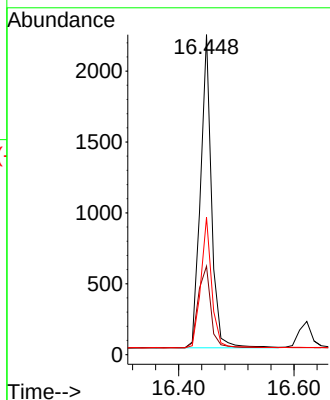
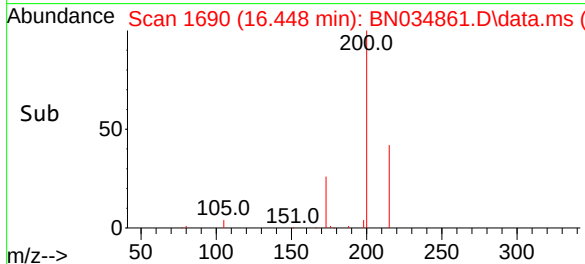
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:200 Resp: 2930
Ion Ratio Lower Upper
200 100
173 27.6 25.8 38.6
215 42.9 34.2 51.4

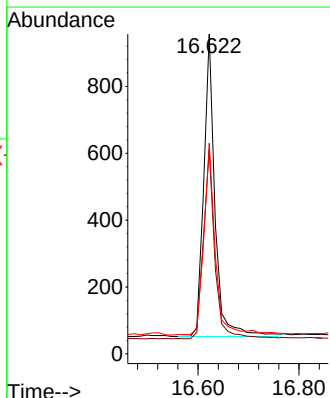
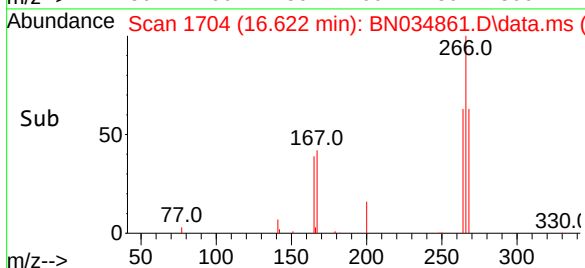
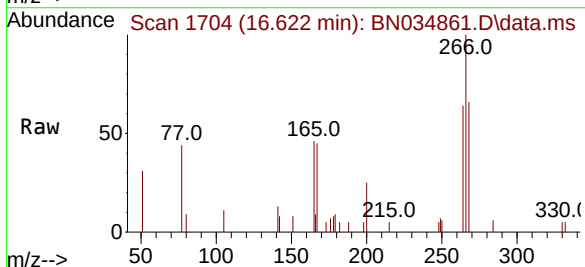
Manual Integrations
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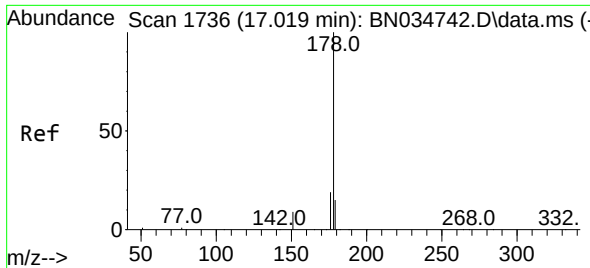
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



#24
Pentachlorophenol
Concen: 0.234 ng
RT: 16.622 min Scan# 1704
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

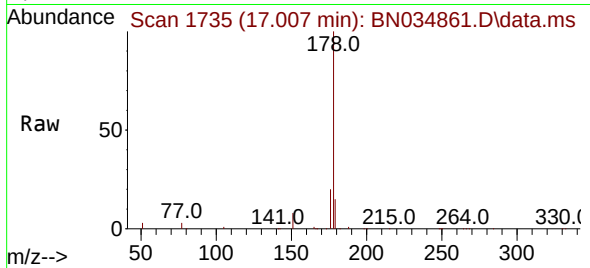
Tgt Ion:266 Resp: 1399
Ion Ratio Lower Upper
266 100
264 63.8 48.7 73.1
268 66.2 50.2 75.4





#25
Phenanthrene
Concen: 0.384 ng
RT: 17.007 min Scan# 1735
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

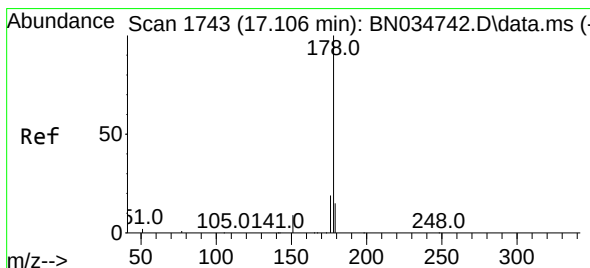
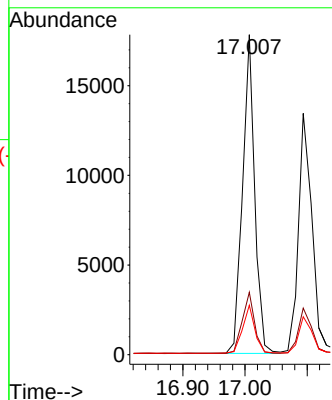
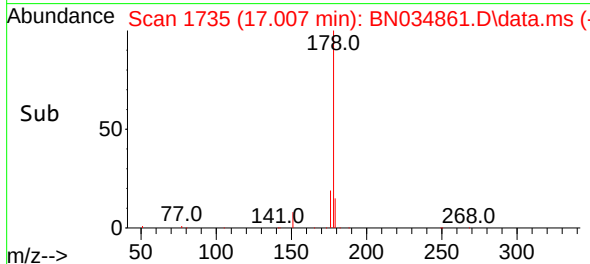
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:178 Resp: 2419
Ion Ratio Lower Upper
178 100
176 19.5 15.4 23.0
179 15.2 12.2 18.4

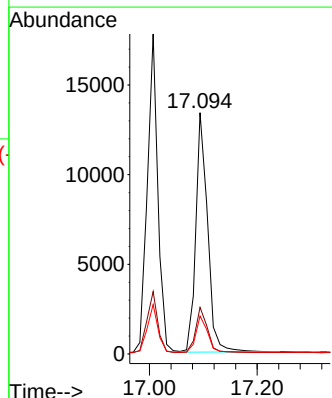
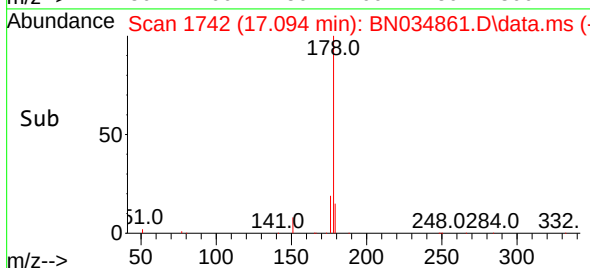
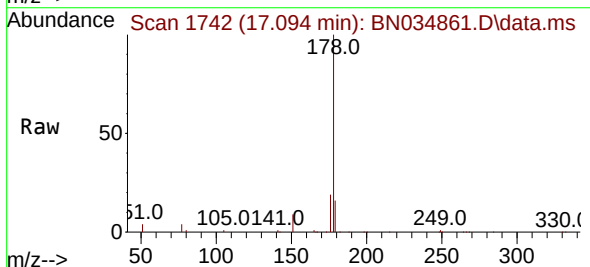
Manual Integrations
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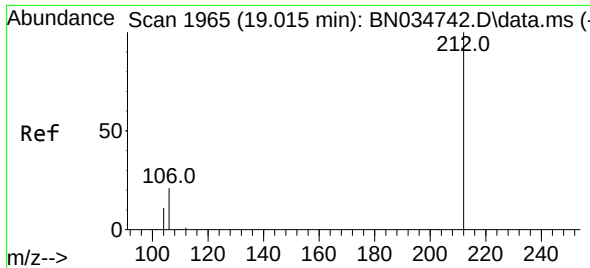
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



#26
Anthracene
Concen: 0.347 ng
RT: 17.094 min Scan# 1742
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

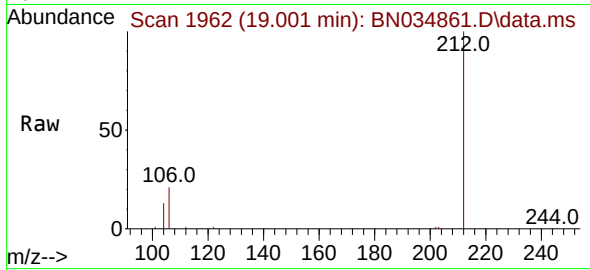
Tgt Ion:178 Resp: 20428
Ion Ratio Lower Upper
178 100
176 19.0 15.0 22.6
179 15.2 12.2 18.2





#27
Fluoranthene-d10
Concen: 0.346 ng
RT: 19.001 min Scan# 1969
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

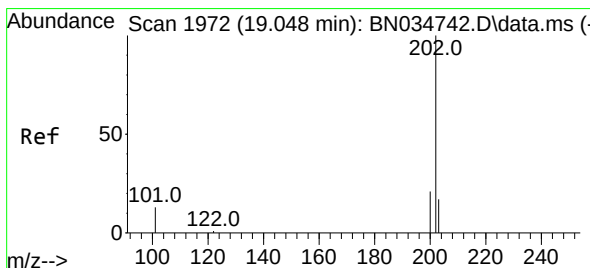
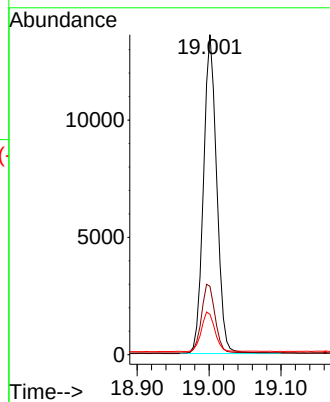
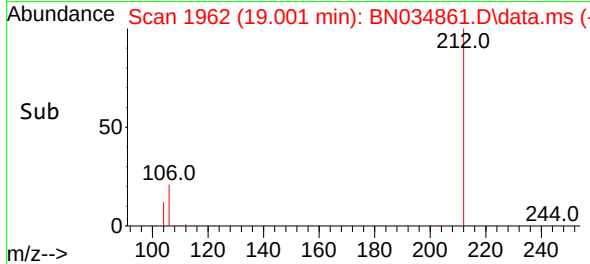
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



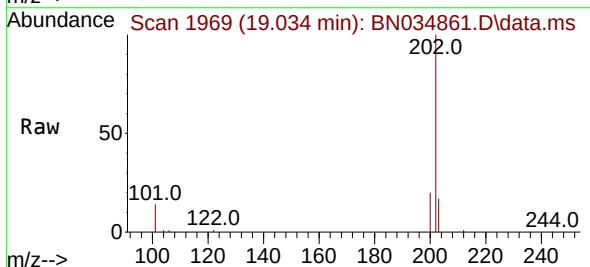
Tgt Ion:212 Resp: 1738
Ion Ratio Lower Upper
212 100
106 22.3 16.1 24.1
104 12.6 9.2 13.8

Manual Integrations
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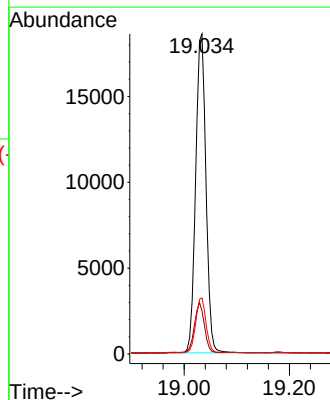
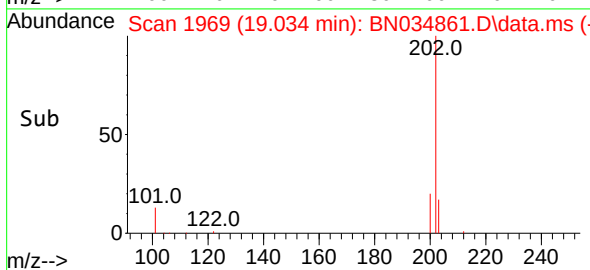
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024

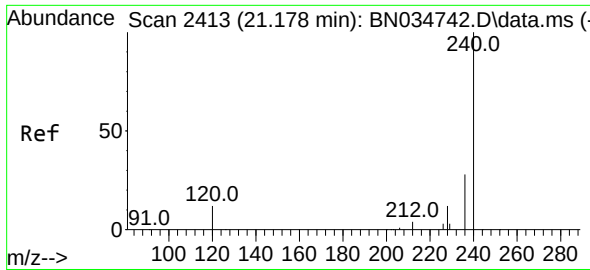


#28
Fluoranthene
Concen: 0.364 ng
RT: 19.034 min Scan# 1969
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09



Tgt Ion:202 Resp: 25234
Ion Ratio Lower Upper
202 100
101 15.4 11.4 17.0
203 17.1 13.7 20.5





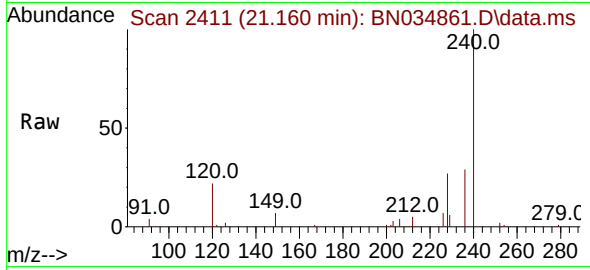
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.160 min Scan# 2411
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

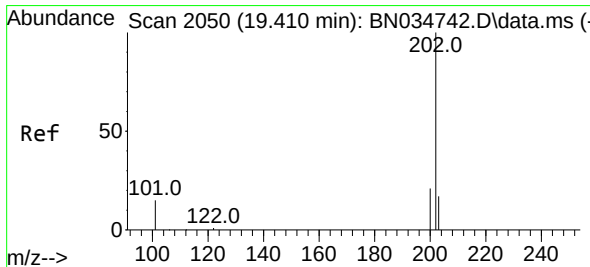
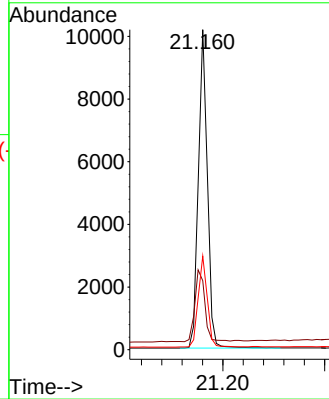
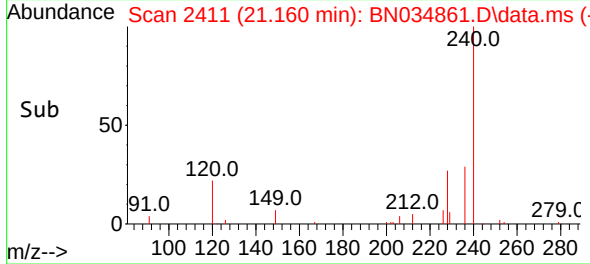


Tgt Ion:240 Resp: 1248
Ion Ratio Lower Upper
240 100
120 21.5 11.5 17.3
236 29.2 23.2 34.8

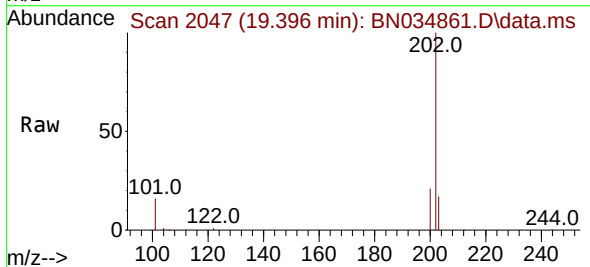
Manual Integrations

APPROVED

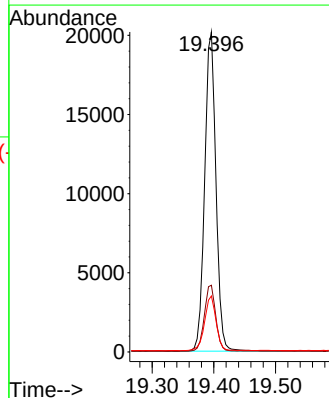
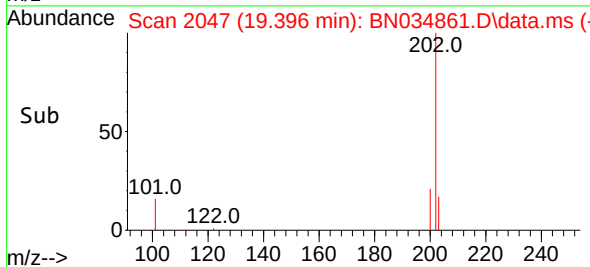
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024

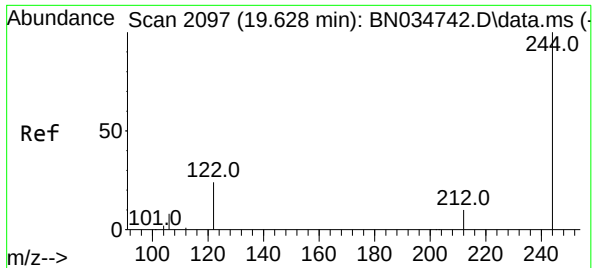


#30
Pyrene
Concen: 0.390 ng
RT: 19.396 min Scan# 2047
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09



Tgt Ion:202 Resp: 25452
Ion Ratio Lower Upper
202 100
200 21.0 17.0 25.4
203 17.6 14.2 21.2





#31
Terphenyl-d14
Concen: 0.342 ng
RT: 19.614 min Scan# 2094
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

Instrument :

BNA_N

ClientSampleId :

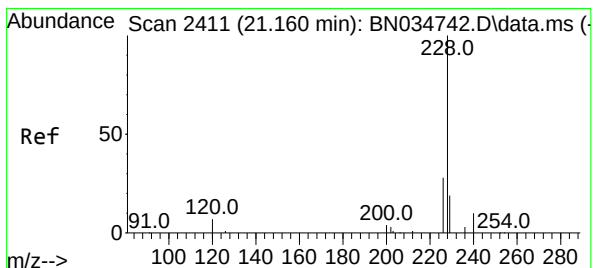
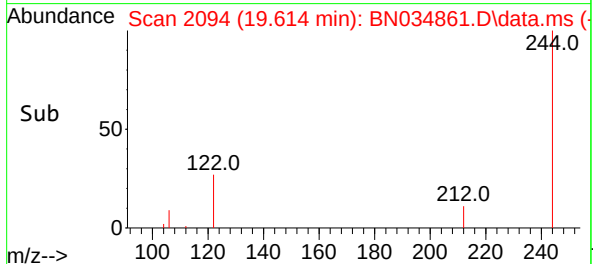
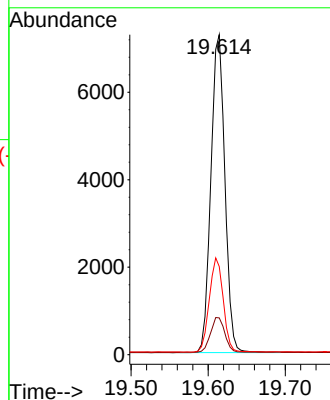
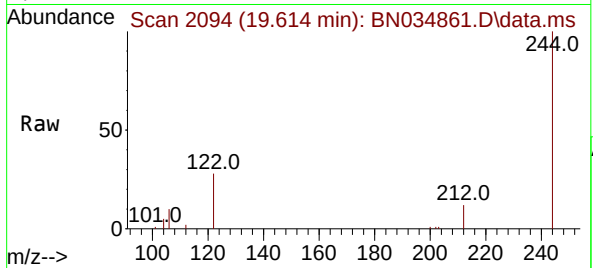
SSTDCCC0.4EC

Tgt Ion	Ratio	Lower	Upper
244	100		
212	11.5	8.2	12.4
122	27.6	19.8	29.6

Manual Integrations

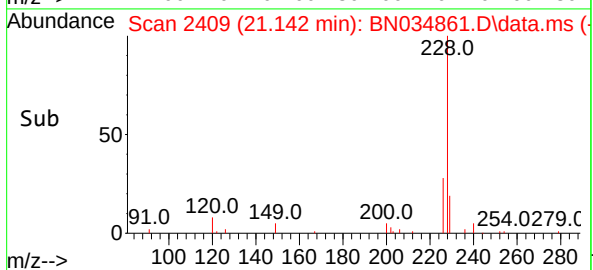
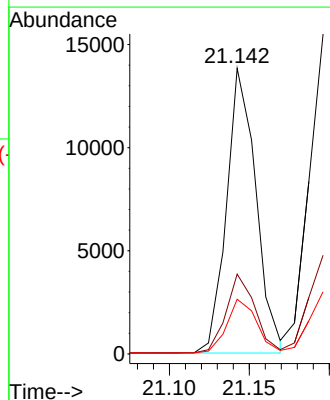
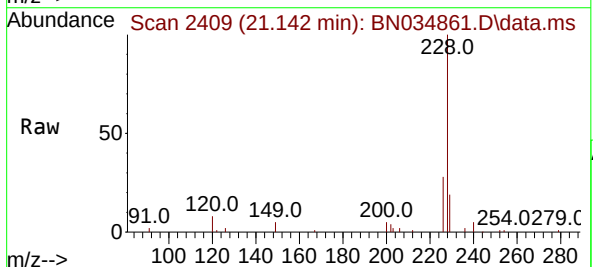
APPROVED

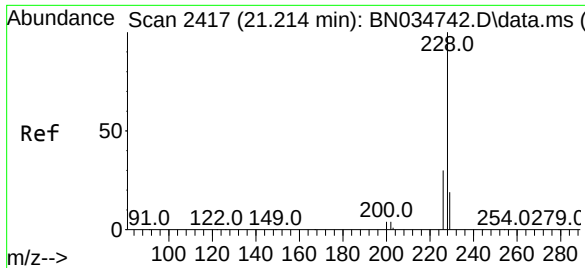
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



#32
Benzo(a)anthracene
Concen: 0.355 ng
RT: 21.142 min Scan# 2409
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

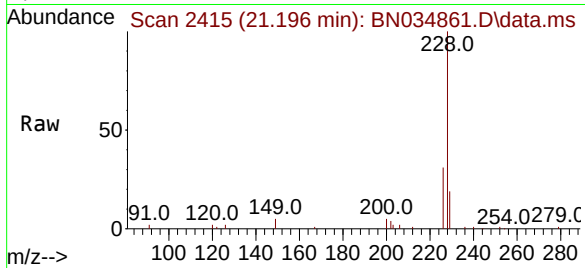
Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.0	22.6	33.8
229	19.1	15.7	23.5





#33
Chrysene
Concen: 0.396 ng
RT: 21.196 min Scan# 2415
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

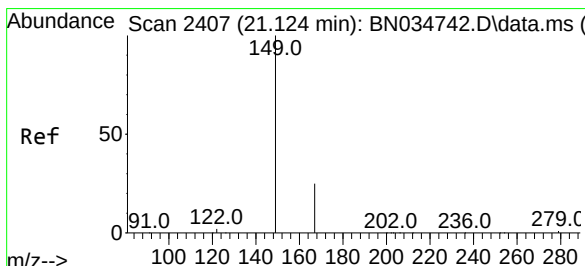
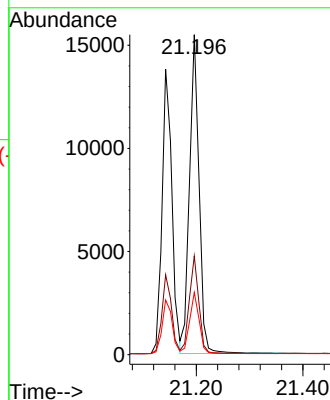
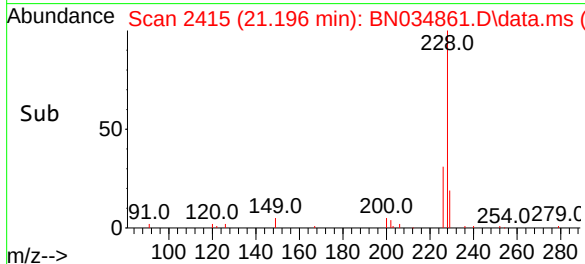
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion: 228 Resp: 1926
Ion Ratio Lower Upper
228 100
226 30.9 24.4 36.6
229 19.5 15.6 23.4

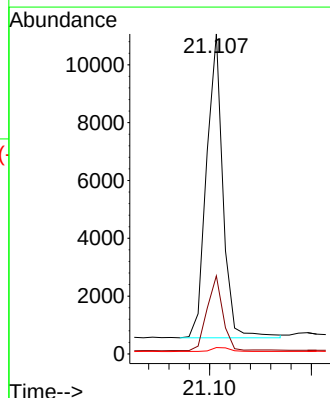
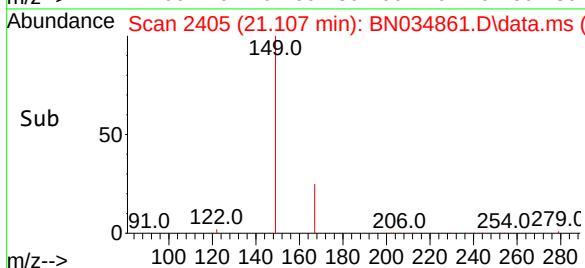
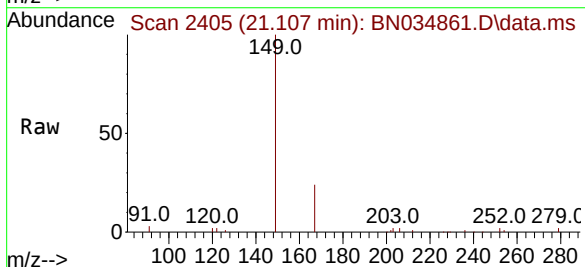
Manual Integrations
APPROVED

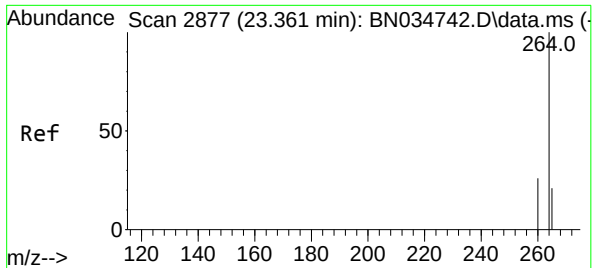
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.282 ng
RT: 21.107 min Scan# 2405
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

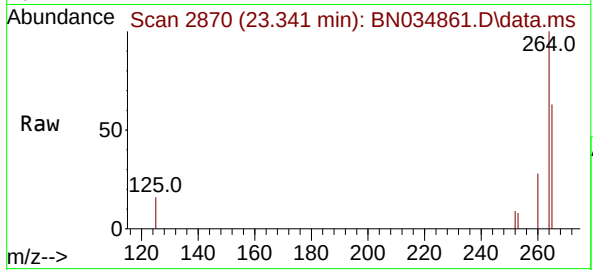
Tgt Ion: 149 Resp: 11721
Ion Ratio Lower Upper
149 100
167 23.6 20.6 30.8
279 1.5 1.5 2.3





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.341 min Scan# 21
Delta R.T. 0.006 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

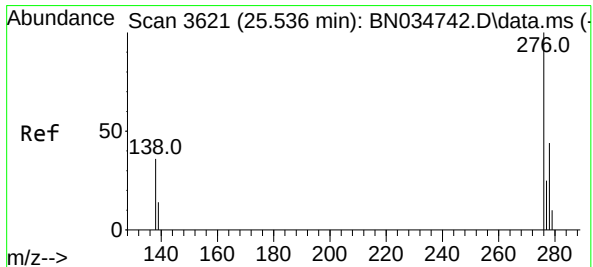
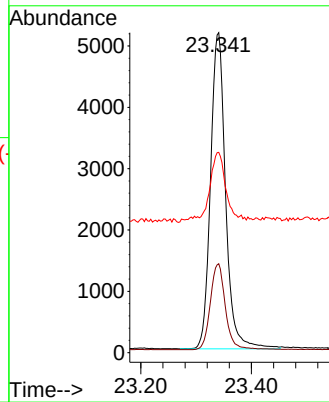
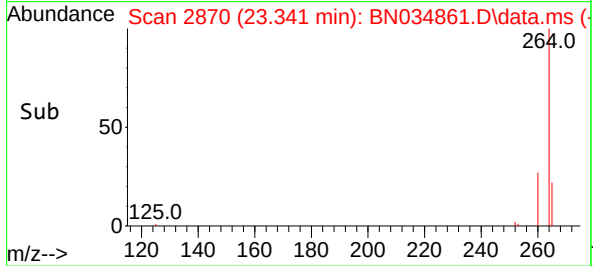
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:264 Resp: 973
Ion Ratio Lower Upper
264 100
260 27.8 21.5 32.3
265 62.6 47.5 71.3

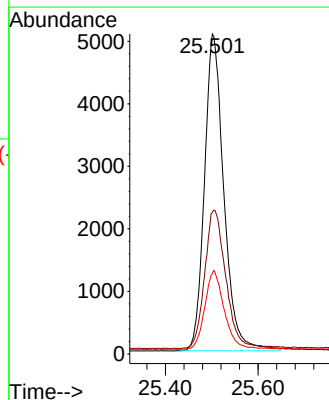
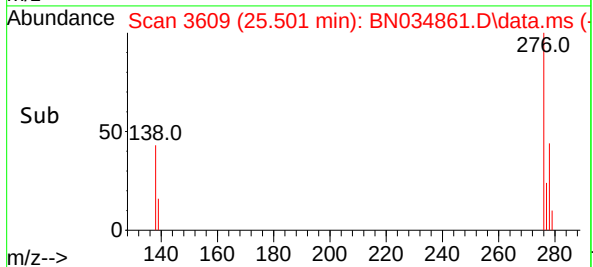
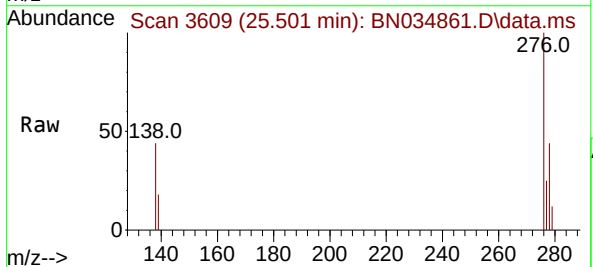
Manual Integrations
APPROVED

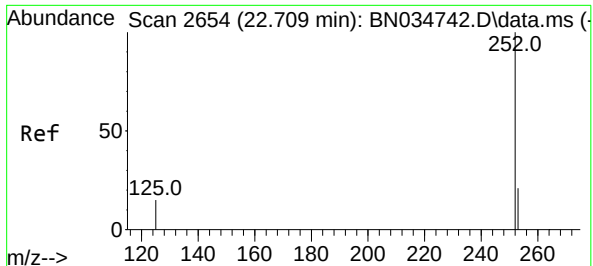
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.412 ng
RT: 25.501 min Scan# 3609
Delta R.T. -0.003 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

Tgt Ion:276 Resp: 14740
Ion Ratio Lower Upper
276 100
138 47.2 31.5 47.3
277 24.6 19.7 29.5





#37

Benzo(b)fluoranthene

Concen: 0.406 ng

RT: 22.689 min Scan# 2647

Delta R.T. -0.000 min

Lab File: BN034861.D

Acq: 05 Nov 2024 04:09

Instrument :

BNA_N

ClientSampleId :

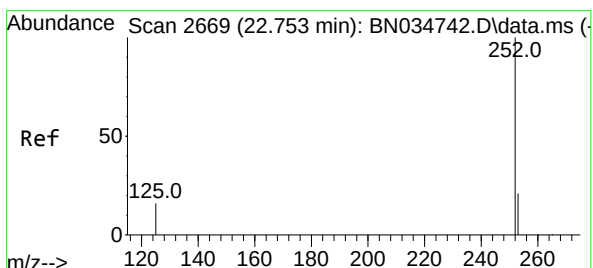
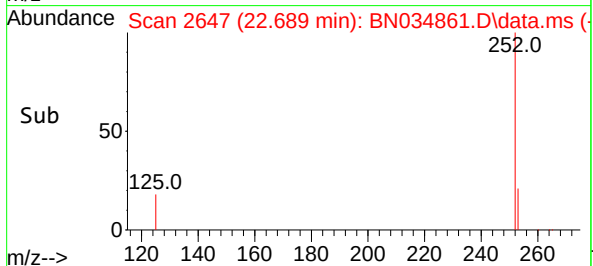
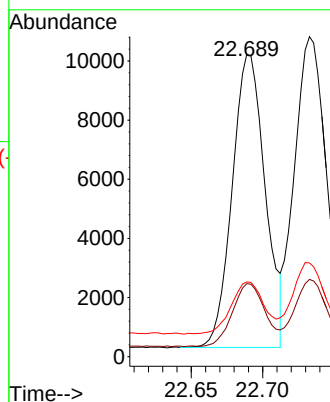
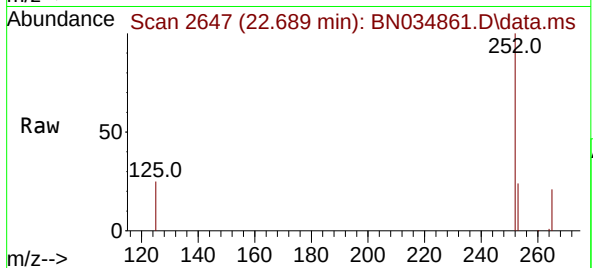
SSTDCCC0.4EC

Tgt Ion	252	253	125
Ratio	100	24.1	24.7
Lower		19.7	17.1
Upper		29.5	25.7

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



#38

Benzo(k)fluoranthene

Concen: 0.439 ng m

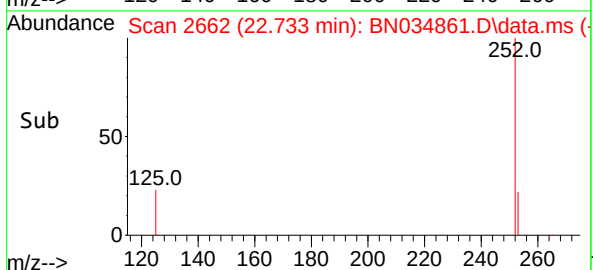
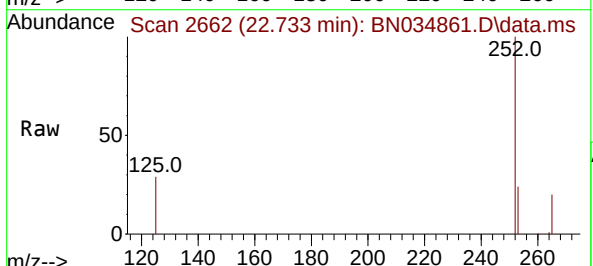
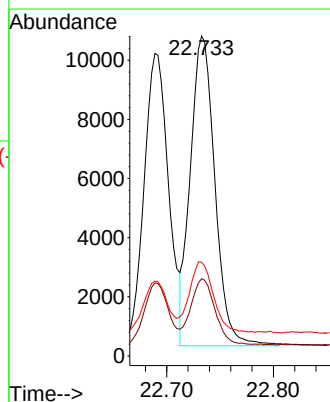
RT: 22.733 min Scan# 2662

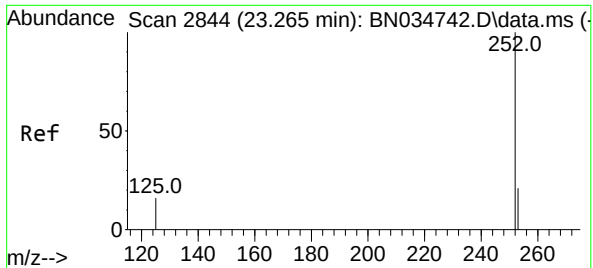
Delta R.T. 0.003 min

Lab File: BN034861.D

Acq: 05 Nov 2024 04:09

Tgt Ion	252	253	125
Ratio	100	24.2	29.3
Lower		19.8	18.2
Upper		29.6	27.2





#39

Benzo(a)pyrene

Concen: 0.369 ng

RT: 23.241 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN034861.D

Acq: 05 Nov 2024 04:09

Instrument :

BNA_N

ClientSampleId :

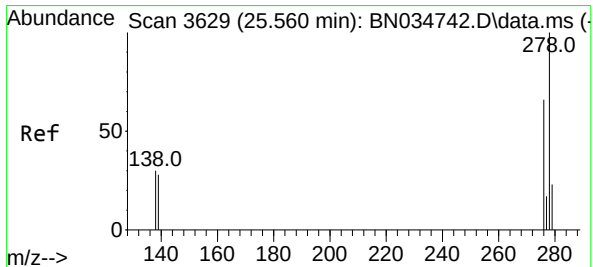
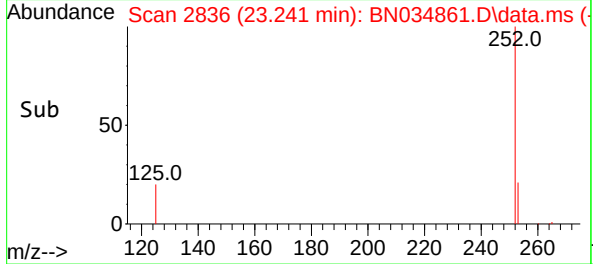
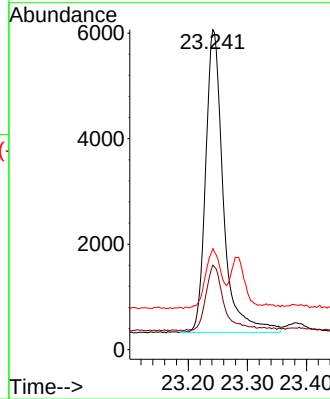
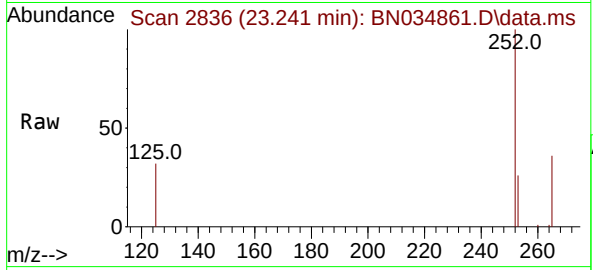
SSTDCCC0.4EC

Tgt Ion:	252	Resp:	1194
Ion Ratio	Lower	Upper	
252	100		
253	26.4	20.7	31.1
125	31.6	20.3	30.5

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.409 ng

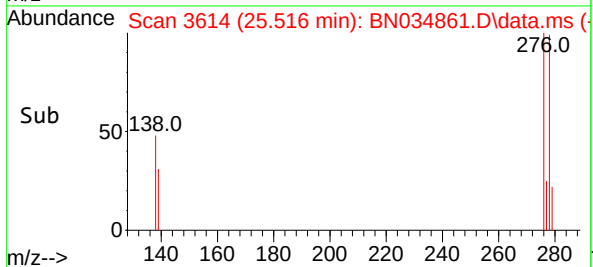
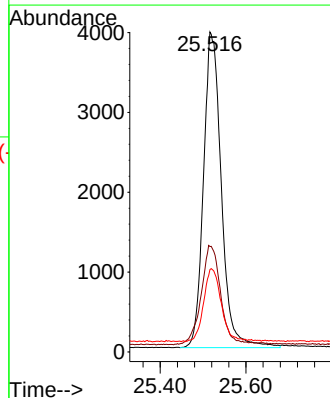
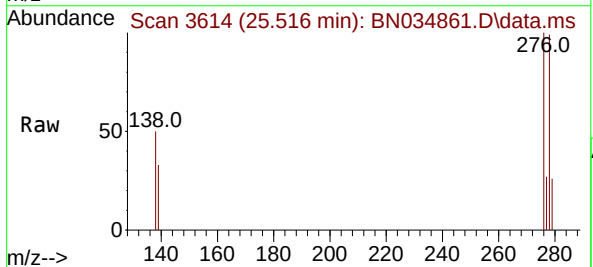
RT: 25.516 min Scan# 3614

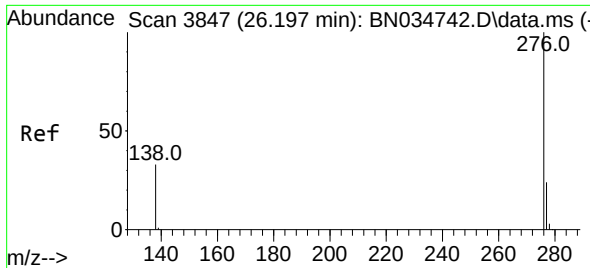
Delta R.T. -0.009 min

Lab File: BN034861.D

Acq: 05 Nov 2024 04:09

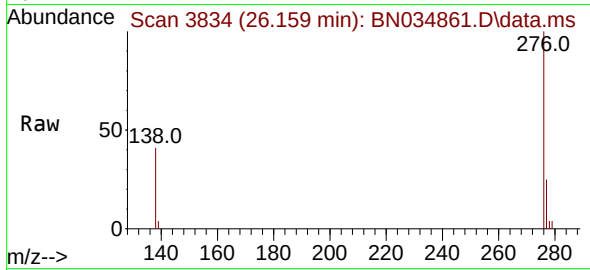
Tgt Ion:	278	Resp:	11413
Ion Ratio	Lower	Upper	
278	100		
139	33.0	24.9	37.3
279	25.8	21.0	31.4





#41
Benzo(g,h,i)perylene
Concen: 0.401 ng
RT: 26.159 min Scan# 3847
Delta R.T. -0.006 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

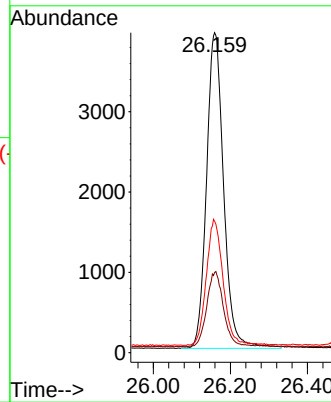
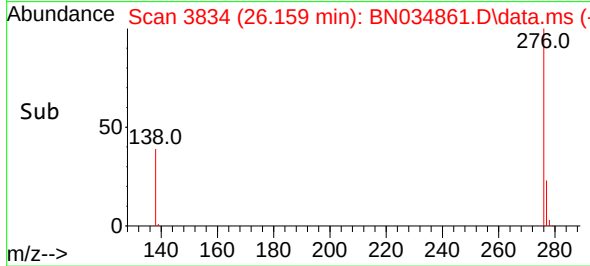
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:276 Resp: 12092
Ion Ratio Lower Upper
276 100
277 25.1 20.2 30.2
138 41.0 28.7 43.1

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110424\
Data File : BN034861.D
Acq On : 05 Nov 2024 04:09
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Nov 05 04:35:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 05 00:03:28 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	85	0.00
2	1,4-Dioxane	0.439	0.451	-2.7	95	0.00
3	n-Nitrosodimethylamine	0.494	0.605	-22.5	118	0.00
4 S	2-Fluorophenol	1.212	1.041	14.1	81	0.00
5 S	Phenol-d6	1.574	1.409	10.5	86	0.00
6	bis(2-Chloroethyl)ether	1.149	1.173	-2.1	95	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	89	0.00
8 S	Nitrobenzene-d5	0.314	0.279	11.1	89	0.00
9	Naphthalene	1.106	1.027	7.1	92	0.00
10	Hexachlorobutadiene	0.182	0.167	8.2	90	0.00
11 SURR	2-Methylnaphthalene-d10	0.579	0.506	12.6	87	0.00
12	2-Methylnaphthalene	0.723	0.631	12.7	86	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	79	0.00
14 S	2,4,6-Tribromophenol	0.198	0.105	47.0#	53	0.00
15 S	2-Fluorobiphenyl	1.575	1.451	7.9	85	0.00
16	Acenaphthylene	2.007	1.630	18.8	77	0.00
17	Acenaphthene	1.337	1.157	13.5	81	0.00
18	Fluorene	1.667	1.453	12.8	80	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	77	0.00
20	4,6-Dinitro-2-methylphenol	0.059	0.033	44.1#	57	0.00
21	4-Bromophenyl-phenylether	0.231	0.192	16.9	70	0.00
22	Hexachlorobenzene	0.259	0.244	5.8	79	0.00
23	Atrazine	0.199	0.137	31.2#	59	0.00
24	Pentachlorophenol	0.112	0.065	42.0#	55	0.00
25	Phenanthrene	1.176	1.130	3.9	81	0.00
26	Anthracene	1.101	0.954	13.4	74	0.00
27 SURR	Fluoranthene-d10	0.938	0.812	13.4	73	0.00
28	Fluoranthene	1.297	1.179	9.1	77	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	72	0.00
30	Pyrene	2.091	2.039	2.5	76	0.00
31 S	Terphenyl-d14	0.859	0.735	14.4	67	0.00
32	Benzo(a)anthracene	1.592	1.414	11.2	73	0.00
33	Chrysene	1.559	1.543	1.0	79	0.00
34	Bis(2-ethylhexyl)phthalate	1.331	0.939	29.5#	52	0.00
35 I	Perylene-d12	1.000	1.000	0.0	66	0.00
36	Indeno(1,2,3-cd)pyrene	1.471	1.514	-2.9	75	0.00
37	Benzo(b)fluoranthene	1.610	1.634	-1.5	75	0.00
38	Benzo(k)fluoranthene	1.571	1.724	-9.7	82	0.00
39 C	Benzo(a)pyrene	1.329	1.227	7.7	69	0.00
40	Dibenzo(a,h)anthracene	1.147	1.173	-2.3	75	0.00
41	Benzo(g,h,i)perylene	1.240	1.242	-0.2	72	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110424\
Data File : BN034861.D
Acq On : 05 Nov 2024 04:09
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Nov 05 04:35:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 05 00:03:28 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	85	0.00
2	1,4-Dioxane	0.400	0.411	-2.7	95	0.00
3	n-Nitrosodimethylamine	0.400	0.490	-22.5	118	0.00
4 S	2-Fluorophenol	0.400	0.344	14.0	81	0.00
5 S	Phenol-d6	0.400	0.358	10.5	86	0.00
6	bis(2-Chloroethyl)ether	0.400	0.408	-2.0	95	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	89	0.00
8 S	Nitrobenzene-d5	0.400	0.355	11.3	89	0.00
9	Naphthalene	0.400	0.371	7.3	92	0.00
10	Hexachlorobutadiene	0.400	0.366	8.5	90	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.350	12.5	87	0.00
12	2-Methylnaphthalene	0.400	0.349	12.8	86	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	79	0.00
14 S	2,4,6-Tribromophenol	0.400	0.212	47.0#	53	0.00
15 S	2-Fluorobiphenyl	0.400	0.368	8.0	85	0.00
16	Acenaphthylene	0.400	0.325	18.8	77	0.00
17	Acenaphthene	0.400	0.346	13.5	81	0.00
18	Fluorene	0.400	0.349	12.8	80	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	77	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.353	11.8	57	0.00
21	4-Bromophenyl-phenylether	0.400	0.332	17.0	70	0.00
22	Hexachlorobenzene	0.400	0.376	6.0	79	0.00
23	Atrazine	0.400	0.275	31.3#	59	0.00
24	Pentachlorophenol	0.400	0.234	41.5#	55	0.00
25	Phenanthrene	0.400	0.384	4.0	81	0.00
26	Anthracene	0.400	0.347	13.3	74	0.00
27 SURR	Fluoranthene-d10	0.400	0.346	13.5	73	0.00
28	Fluoranthene	0.400	0.364	9.0	77	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	72	0.00
30	Pyrene	0.400	0.390	2.5	76	0.00
31 S	Terphenyl-d14	0.400	0.342	14.5	67	0.00
32	Benzo(a)anthracene	0.400	0.355	11.3	73	0.00
33	Chrysene	0.400	0.396	1.0	79	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.282	29.5#	52	0.00
35 I	Perylene-d12	0.400	0.400	0.0	66	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.412	-3.0	75	0.00
37	Benzo(b)fluoranthene	0.400	0.406	-1.5	75	0.00
38	Benzo(k)fluoranthene	0.400	0.439	-9.7	82	0.00
39 C	Benzo(a)pyrene	0.400	0.369	7.8	69	0.00
40	Dibenzo(a,h)anthracene	0.400	0.409	-2.2	75	0.00
41	Benzo(g,h,i)perylene	0.400	0.401	-0.3	72	0.00

(#) = Out of Range

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



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P4652 SAS No.: P4652 SDG No.: P4652

Instrument ID: BNA_N Calibration Date/Time: 11/05/2024 09:23

Lab File ID: BN034863.D Init. Calib. Date(s): 10/30/2024 10/30/2024

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 09:20 12:56

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.579	0.493		-14.9	20.0
Fluoranthene-d10	0.938	0.814		-13.2	20.0
2-Fluorophenol	1.212	1.283		5.9	20.0
Phenol-d6	1.574	1.818		15.5	20.0
Nitrobenzene-d5	0.314	0.275		-12.4	20.0
2-Fluorobiphenyl	1.575	1.404		-10.9	20.0
2,4,6-Tribromophenol	0.198	0.147		-25.8	20.0
Terphenyl-d14	0.859	0.683		-20.5	20.0
1,4-Dioxane	0.439	0.397		-9.6	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110524\
 Data File : BN034863.D
 Acq On : 05 Nov 2024 09:23
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Nov 05 11:38:42 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 05 00:03:28 2024
 Response via : Initial Calibration

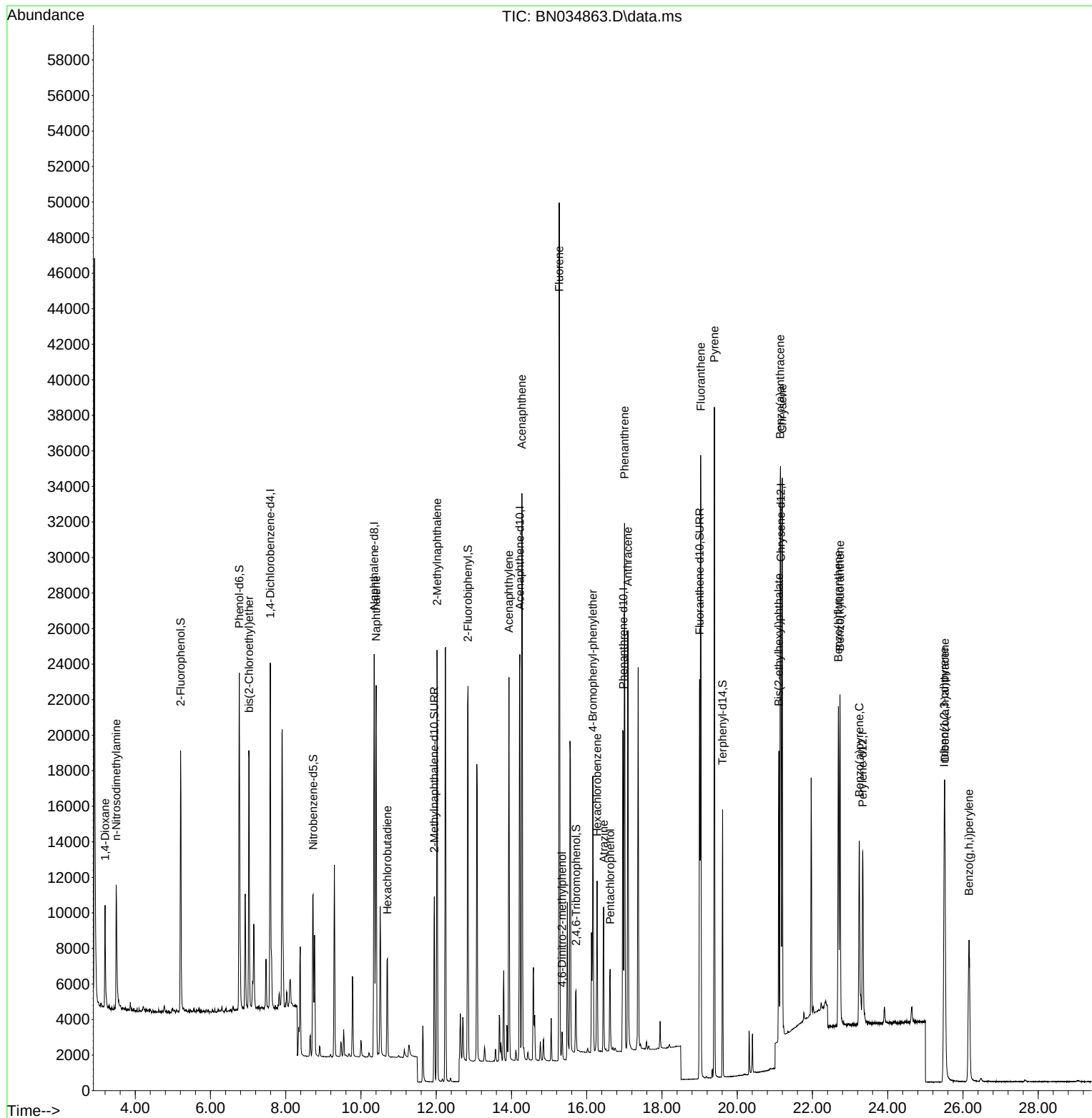
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.589	152	8979	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	27748	0.400	ng	0.00
13) Acenaphthene-d10	14.222	164	13645	0.400	ng	0.00
19) Phenanthrene-d10	16.970	188	26678	0.400	ng	# 0.00
29) Chrysene-d12	21.160	240	16206	0.400	ng	# 0.00
35) Perylene-d12	23.335	264	12712	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.206	112	11522	0.424	ng	0.00
5) Phenol-d6	6.766	99	16325	0.462	ng	0.00
8) Nitrobenzene-d5	8.728	82	7622	0.350	ng	0.00
11) 2-Methylnaphthalene-d10	11.946	152	13680	0.341	ng	0.00
14) 2,4,6-Tribromophenol	15.716	330	2007	0.298	ng	0.00
15) 2-Fluorobiphenyl	12.843	172	19160	0.357	ng	0.00
27) Fluoranthene-d10	19.001	212	21708	0.347	ng	0.00
31) Terphenyl-d14	19.610	244	11069	0.318	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.198	88	3562	0.362	ng	90
3) n-Nitrosodimethylamine	3.494	42	5075	0.457	ng	83
6) bis(2-Chloroethyl)ether	7.026	93	10279	0.398	ng	96
9) Naphthalene	10.404	128	27632	0.360	ng	99
10) Hexachlorobutadiene	10.703	225	4485	0.355	ng	# 100
12) 2-Methylnaphthalene	12.022	142	16808	0.335	ng	99
16) Acenaphthylene	13.934	152	21847	0.319	ng	100
17) Acenaphthene	14.276	154	15458	0.339	ng	95
18) Fluorene	15.270	166	19156	0.337	ng	99
20) 4,6-Dinitro-2-methylph...	15.345	198	868	0.350	ng	# 50
21) 4-Bromophenyl-phenylether	16.163	248	5072	0.329	ng	# 67
22) Hexachlorobenzene	16.275	284	6423	0.372	ng	93
23) Atrazine	16.448	200	6143	0.462	ng	# 94
24) Pentachlorophenol	16.622	266	2280	0.306	ng	98
25) Phenanthrene	17.007	178	29760	0.379	ng	100
26) Anthracene	17.094	178	24539	0.334	ng	100
28) Fluoranthene	19.029	202	30552	0.353	ng	98
30) Pyrene	19.391	202	31313	0.370	ng	100
32) Benzo(a)anthracene	21.142	228	22075	0.342	ng	100
33) Chrysene	21.196	228	23901	0.378	ng	100
34) Bis(2-ethylhexyl)phtha...	21.107	149	15285	0.283	ng	96
36) Indeno(1,2,3-cd)pyrene	25.501	276	18023	0.385	ng	# 91
37) Benzo(b)fluoranthene	22.689	252	19910	0.389	ng	97
38) Benzo(k)fluoranthene	22.733	252	21184	0.424	ng	94
39) Benzo(a)pyrene	23.244	252	14930	0.354	ng	96
40) Dibenzo(a,h)anthracene	25.519	278	13948	0.382	ng	98
41) Benzo(g,h,i)perylene	26.162	276	14722	0.374	ng	95

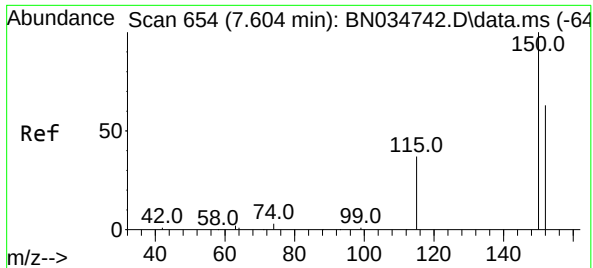
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Data File : BN034863.D
Acq On : 05 Nov 2024 09:23
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Nov 05 11:38:42 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 05 00:03:28 2024
Response via : Initial Calibration

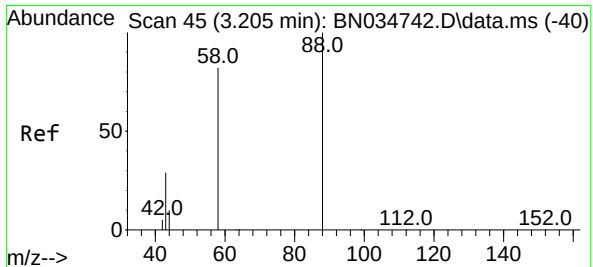
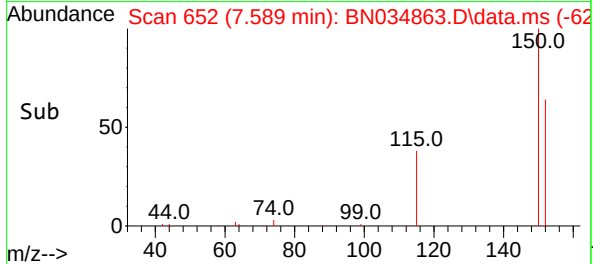
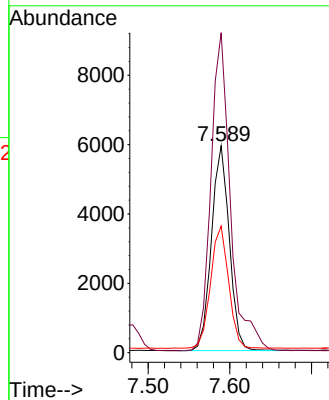
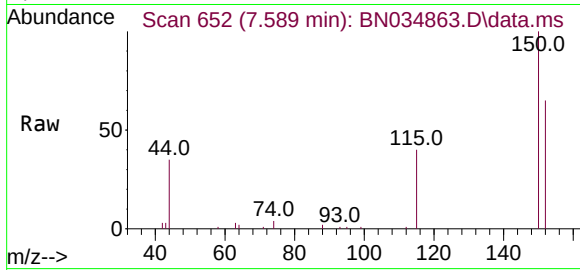




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.589 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN034863.D
Acq: 05 Nov 2024 09:23

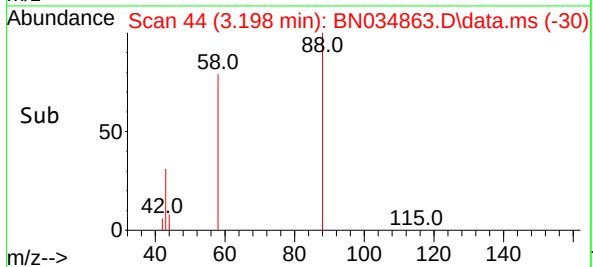
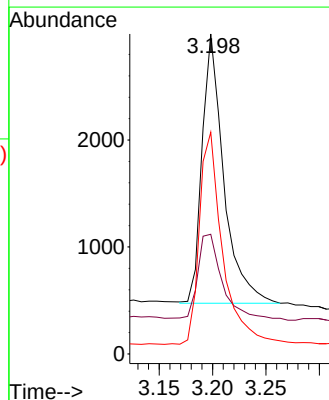
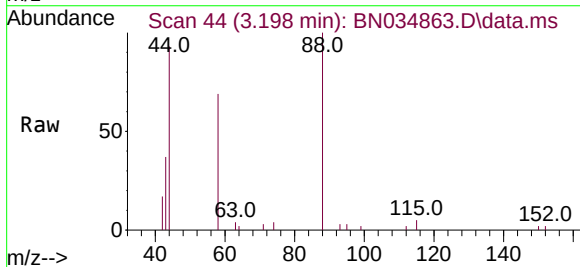
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

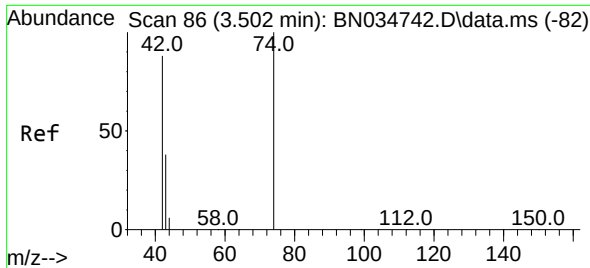
Tgt Ion:152 Resp: 8979
Ion Ratio Lower Upper
152 100
150 154.7 124.9 187.3
115 61.2 50.2 75.2



#2
1,4-Dioxane
Concen: 0.362 ng
RT: 3.198 min Scan# 44
Delta R.T. -0.000 min
Lab File: BN034863.D
Acq: 05 Nov 2024 09:23

Tgt Ion: 88 Resp: 3562
Ion Ratio Lower Upper
88 100
43 36.9 26.7 40.1
58 84.5 59.3 88.9

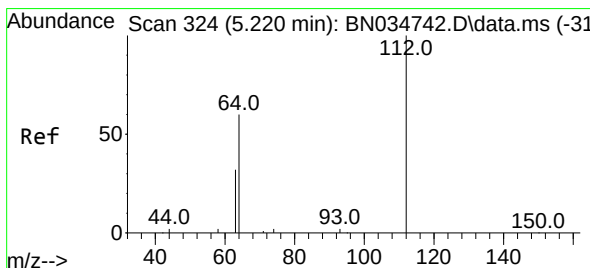
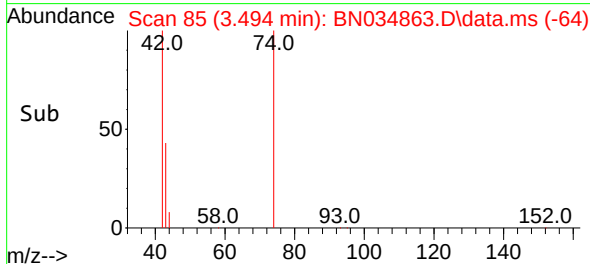
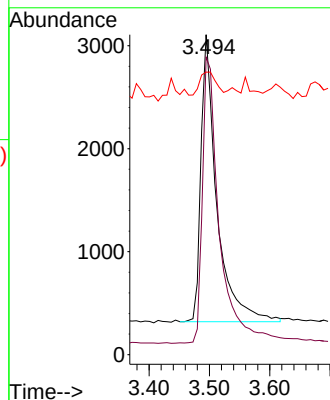
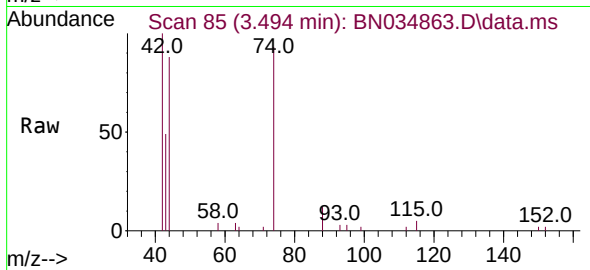




#3
n-Nitrosodimethylamine
Concen: 0.457 ng
RT: 3.494 min Scan# 81
Delta R.T. -0.000 min
Lab File: BN034863.D
Acq: 05 Nov 2024 09:23

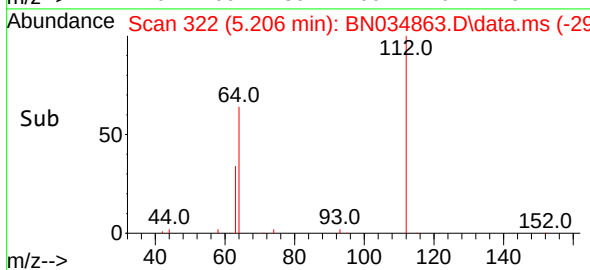
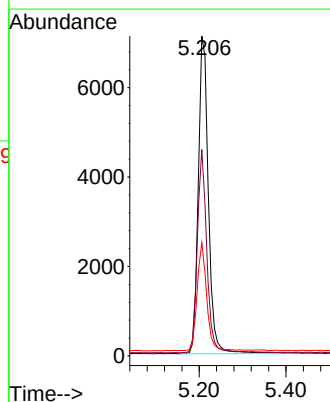
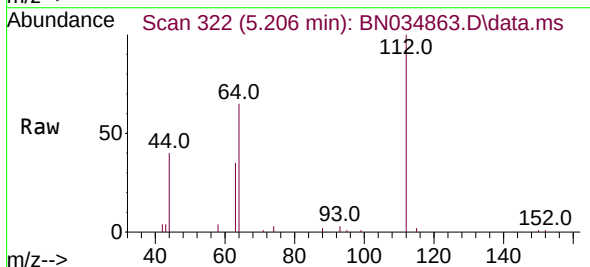
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

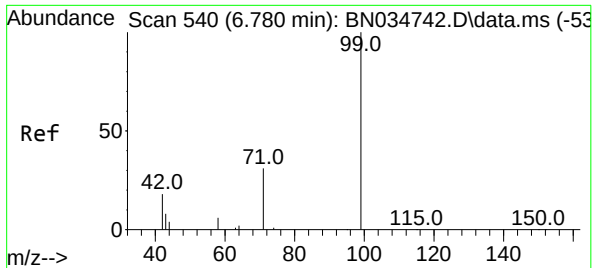
Tgt Ion: 42 Resp: 5075
Ion Ratio Lower Upper
42 100
74 107.5 103.1 154.7
44 8.2 6.7 10.1



#4
2-Fluorophenol
Concen: 0.424 ng
RT: 5.206 min Scan# 322
Delta R.T. -0.007 min
Lab File: BN034863.D
Acq: 05 Nov 2024 09:23

Tgt Ion: 112 Resp: 11522
Ion Ratio Lower Upper
112 100
64 59.5 44.9 67.3
63 32.1 23.5 35.3

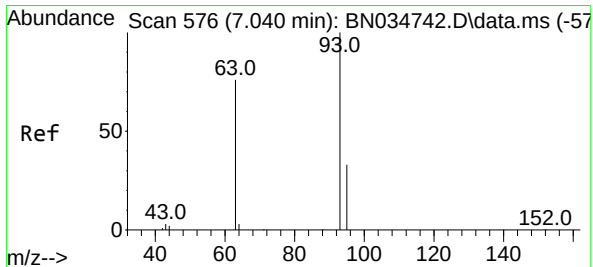
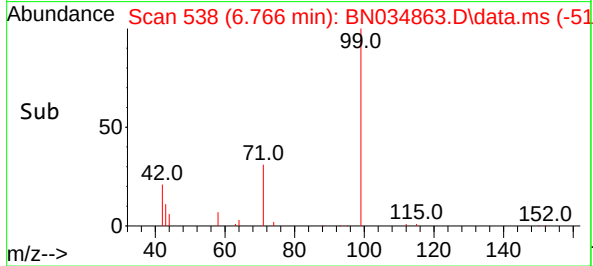
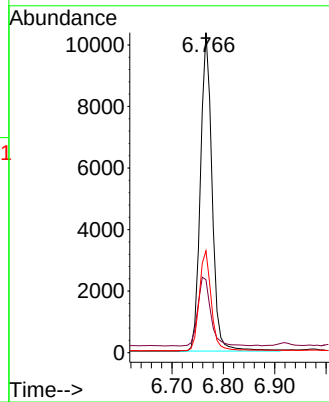
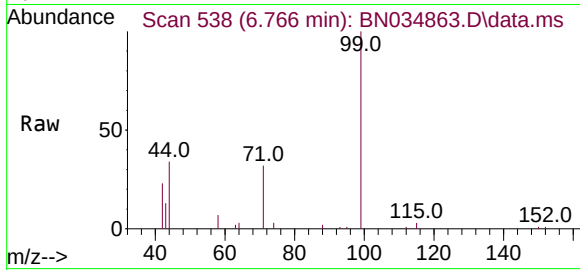




#5
Phenol-d6
Concen: 0.462 ng
RT: 6.766 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN034863.D
Acq: 05 Nov 2024 09:23

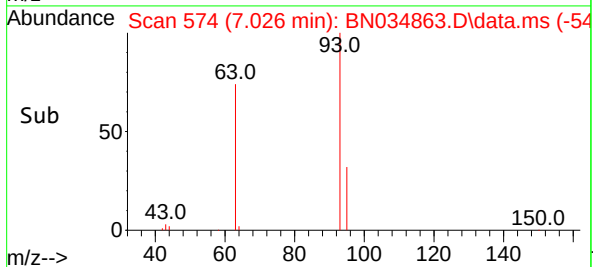
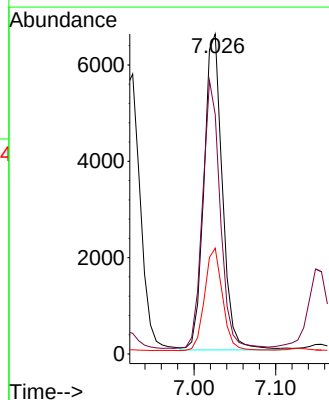
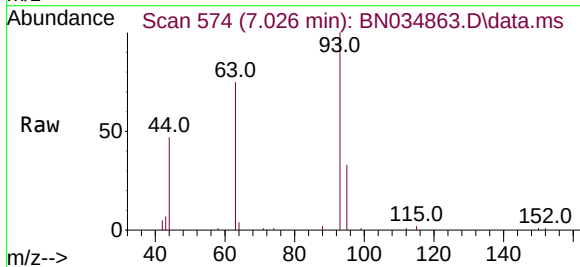
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

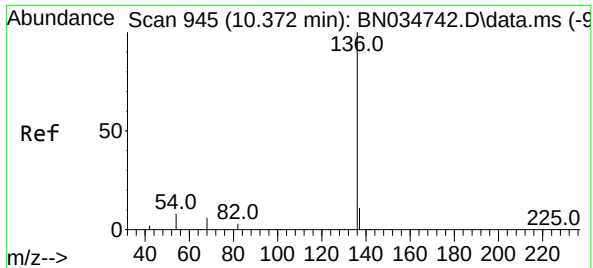
Tgt Ion	Ratio	Lower	Upper
99	100		
42	23.8	15.9	23.9
71	32.2	24.3	36.5



#6
bis(2-Chloroethyl)ether
Concen: 0.398 ng
RT: 7.026 min Scan# 574
Delta R.T. -0.000 min
Lab File: BN034863.D
Acq: 05 Nov 2024 09:23

Tgt Ion	Ratio	Lower	Upper
93	100		
63	81.5	61.2	91.8
95	31.9	25.8	38.8

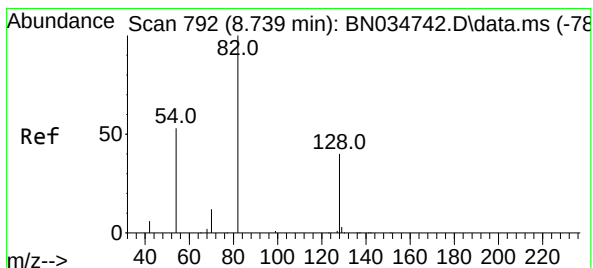
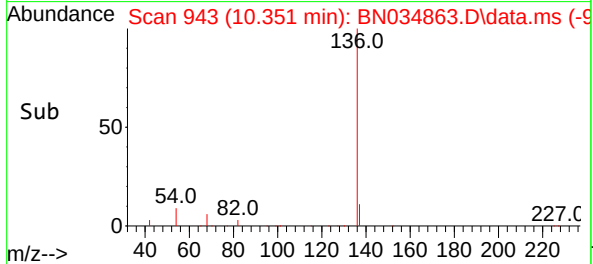
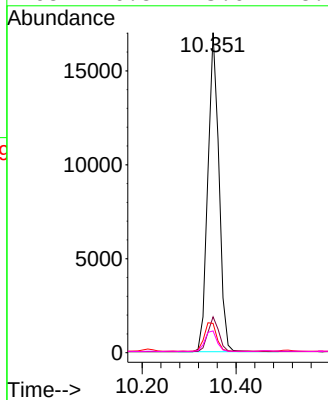
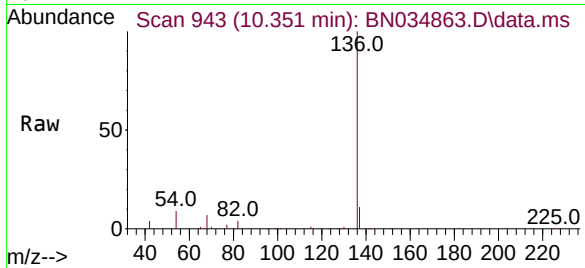




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 945
Delta R.T. -0.000 min
Lab File: BN034863.D
Acq: 05 Nov 2024 09:23

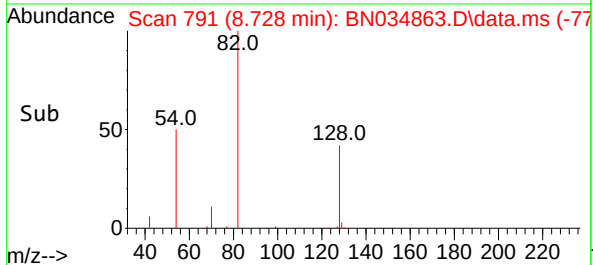
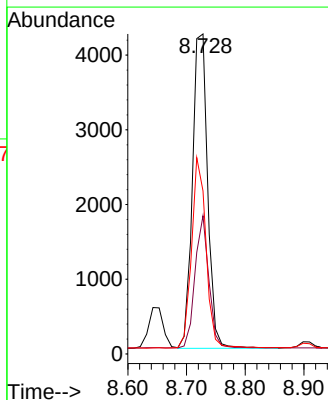
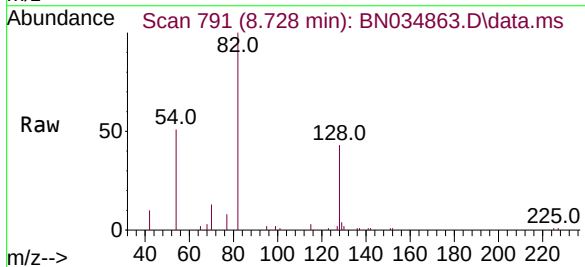
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

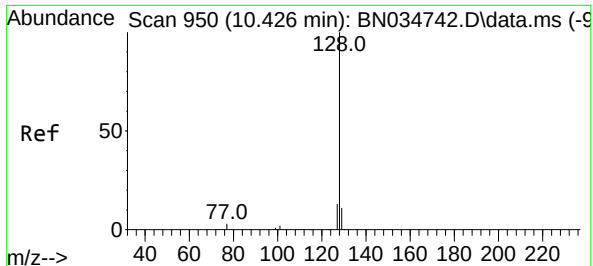
Tgt Ion:	136	Resp:	27748
Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.2	13.8
54	9.1	7.0	10.4
68	6.8	5.6	8.4



#8
Nitrobenzene-d5
Concen: 0.350 ng
RT: 8.728 min Scan# 791
Delta R.T. -0.000 min
Lab File: BN034863.D
Acq: 05 Nov 2024 09:23

Tgt Ion:	82	Resp:	7622
Ion	Ratio	Lower	Upper
82	100		
128	43.2	33.7	50.5
54	50.9	44.4	66.6

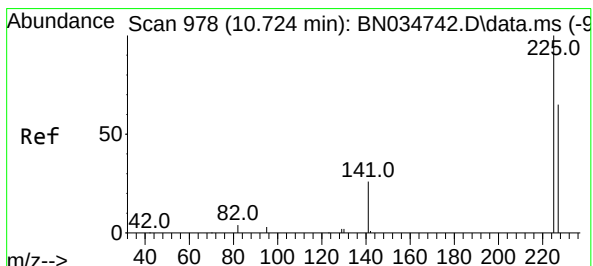
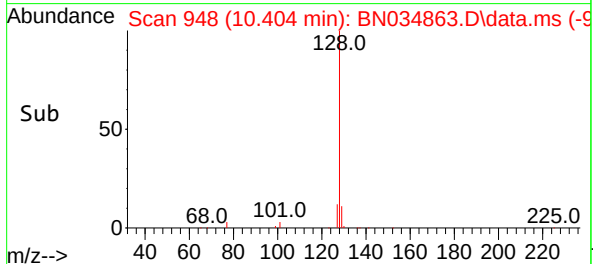
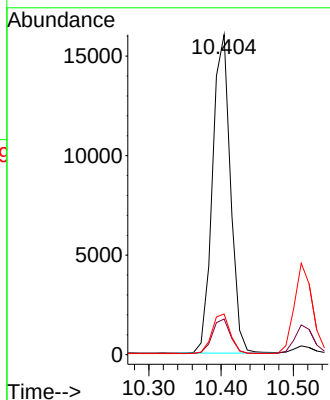
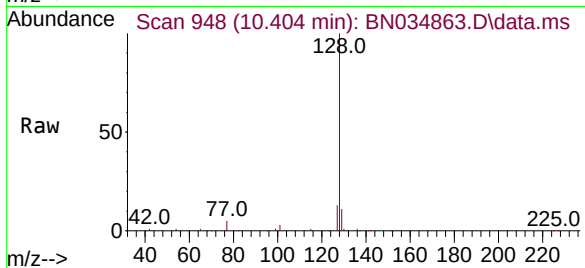




#9
Naphthalene
Concen: 0.360 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.000 min
Lab File: BN034863.D
Acq: 05 Nov 2024 09:23

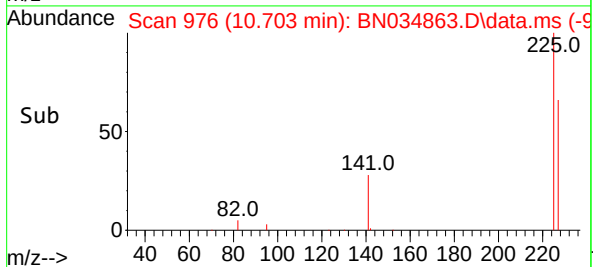
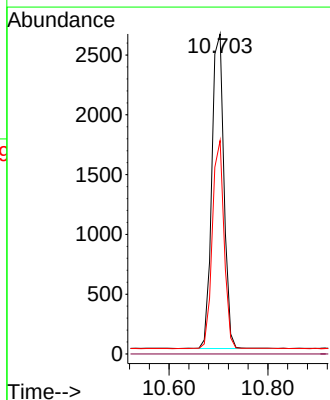
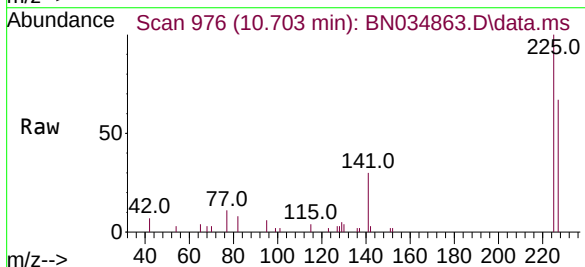
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BNA_N
ClientSampleId :
SSTDCCC0.4

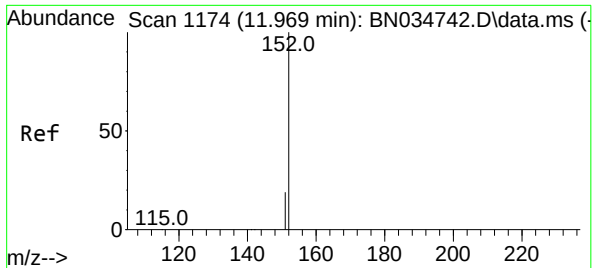
Tgt Ion:128 Resp: 27632
Ion Ratio Lower Upper
128 100
129 11.1 9.4 14.0
127 12.7 10.6 15.8



#10
Hexachlorobutadiene
Concen: 0.355 ng
RT: 10.703 min Scan# 976
Delta R.T. -0.000 min
Lab File: BN034863.D
Acq: 05 Nov 2024 09:23

Tgt Ion:225 Resp: 4485
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.0 51.4 77.2

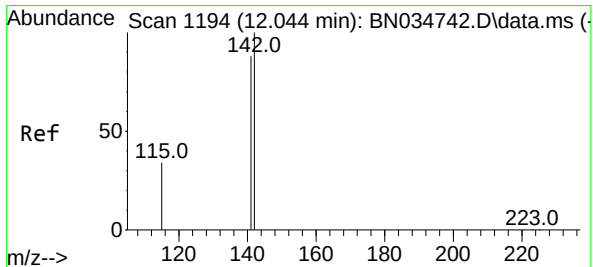
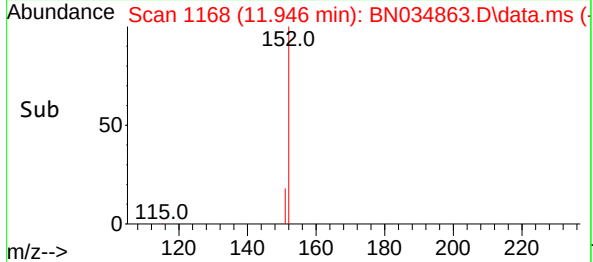
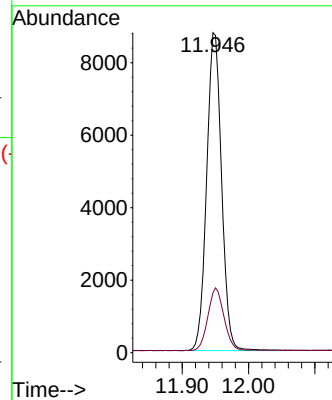
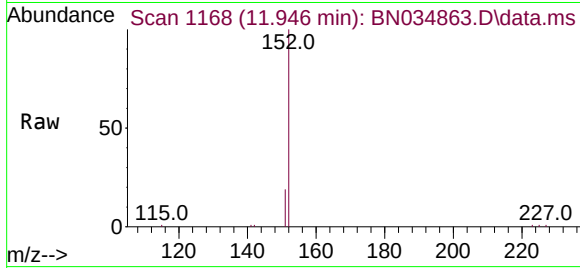




#11
2-Methylnaphthalene-d10
Concen: 0.341 ng
RT: 11.946 min Scan# 1168
Delta R.T. -0.004 min
Lab File: BN034863.D
Acq: 05 Nov 2024 09:23

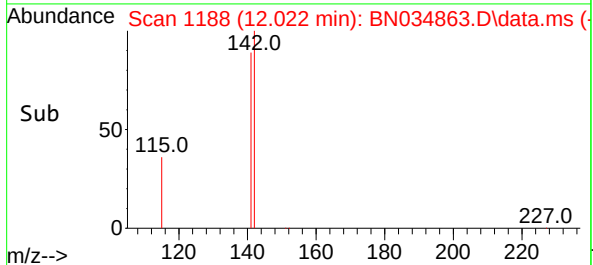
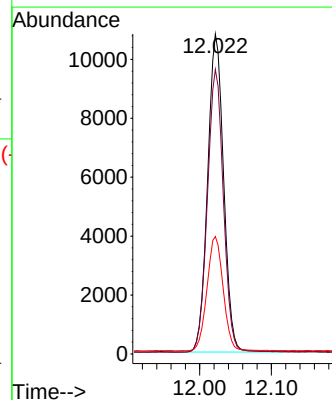
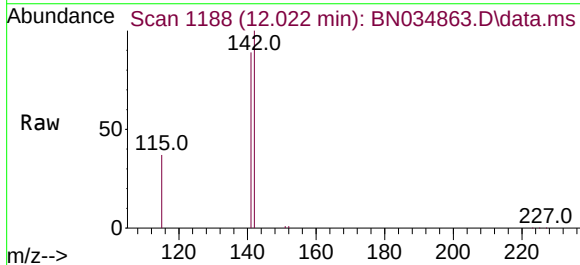
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

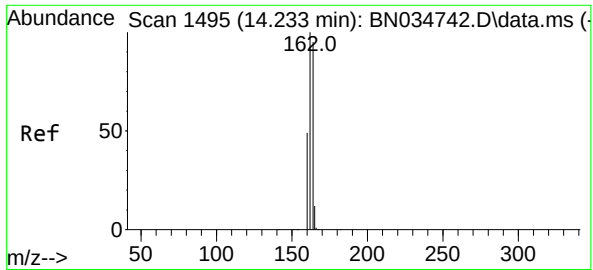
Tgt Ion:152 Resp: 13680
Ion Ratio Lower Upper
152 100
151 21.2 16.6 24.8



#12
2-Methylnaphthalene
Concen: 0.335 ng
RT: 12.022 min Scan# 1188
Delta R.T. -0.004 min
Lab File: BN034863.D
Acq: 05 Nov 2024 09:23

Tgt Ion:142 Resp: 16808
Ion Ratio Lower Upper
142 100
141 88.9 70.6 106.0
115 36.7 28.6 42.8

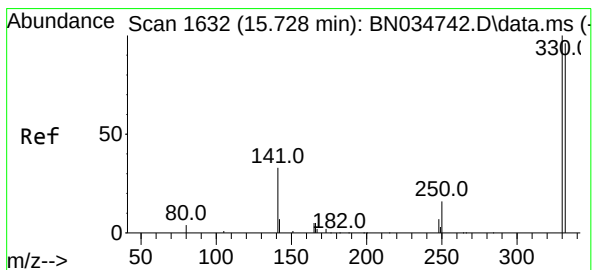
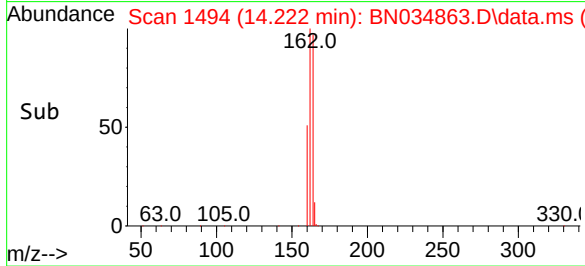
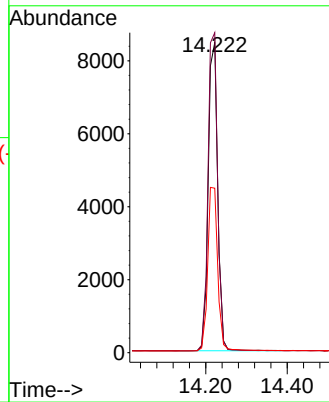
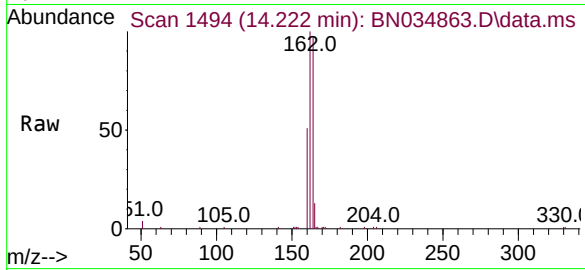




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.222 min Scan# 1494
Delta R.T. -0.000 min
Lab File: BN034863.D
Acq: 05 Nov 2024 09:23

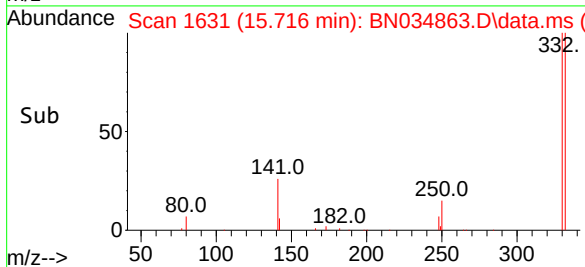
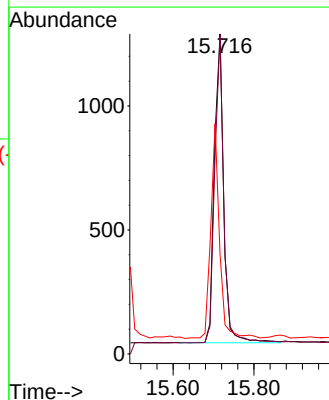
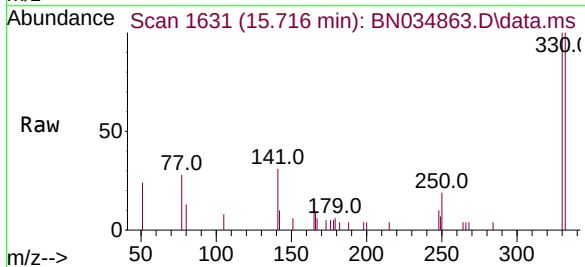
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

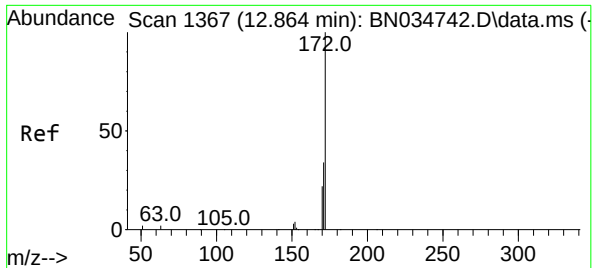
Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.2	84.3	126.5
160	53.0	41.7	62.5



#14
2,4,6-Tribromophenol
Concen: 0.298 ng
RT: 15.716 min Scan# 1631
Delta R.T. -0.000 min
Lab File: BN034863.D
Acq: 05 Nov 2024 09:23

Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.3	77.8	116.6
141	64.3	41.0	61.4

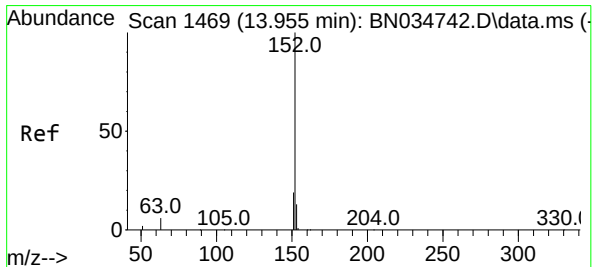
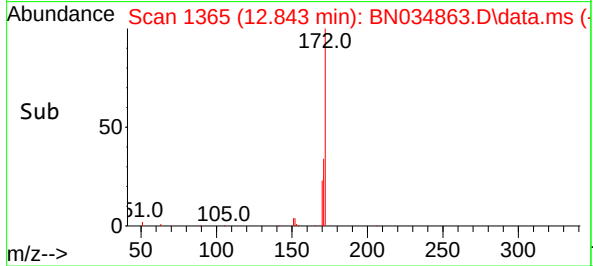
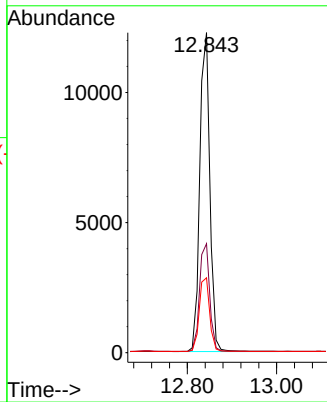
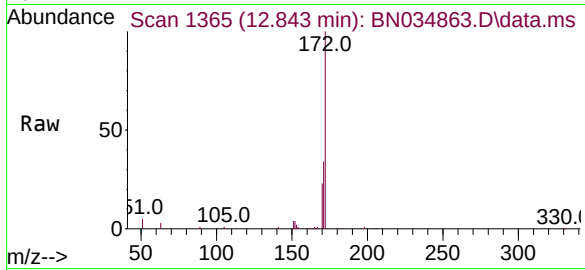




#15
2-Fluorobiphenyl
Concen: 0.357 ng
RT: 12.843 min Scan# 1365
Delta R.T. -0.000 min
Lab File: BN034863.D
Acq: 05 Nov 2024 09:23

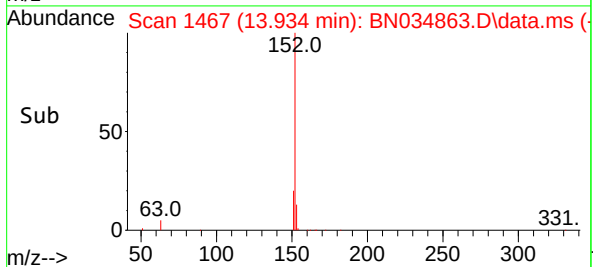
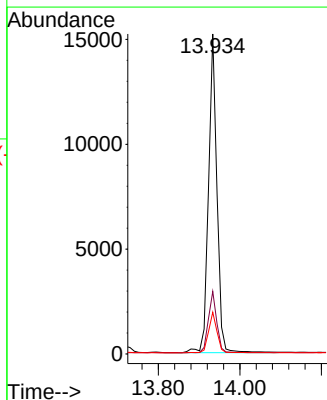
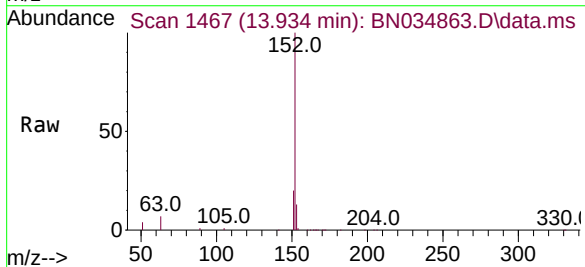
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

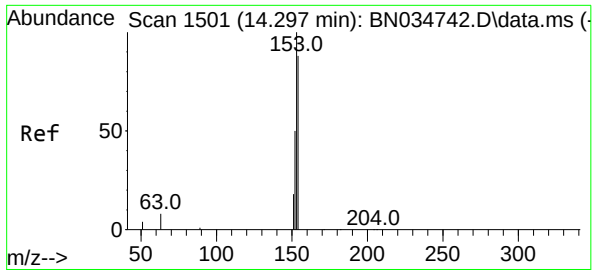
Tgt Ion:	172	Resp:	19160
Ion Ratio	Lower	Upper	
172	100		
171	34.1	27.2	40.8
170	23.4	18.0	27.0



#16
Acenaphthylene
Concen: 0.319 ng
RT: 13.934 min Scan# 1467
Delta R.T. -0.000 min
Lab File: BN034863.D
Acq: 05 Nov 2024 09:23

Tgt Ion:	152	Resp:	21847
Ion Ratio	Lower	Upper	
152	100		
151	19.3	15.4	23.2
153	12.9	10.2	15.4

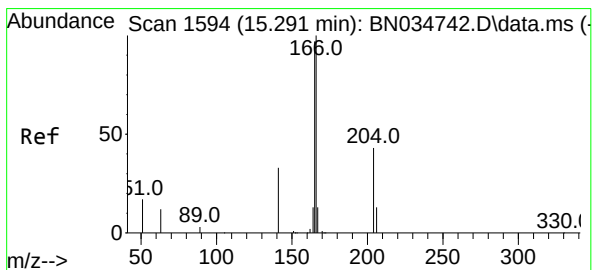
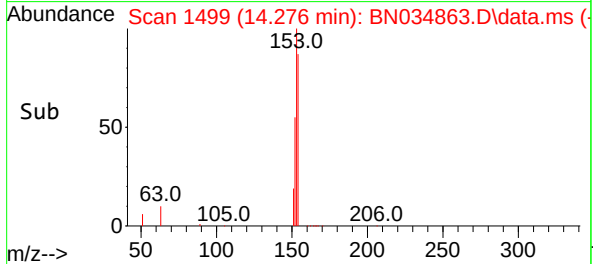
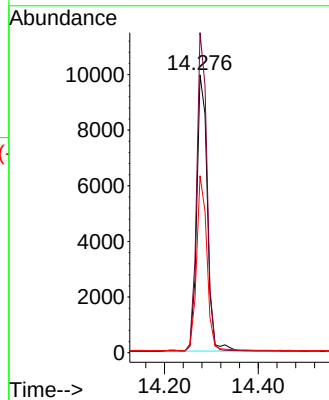
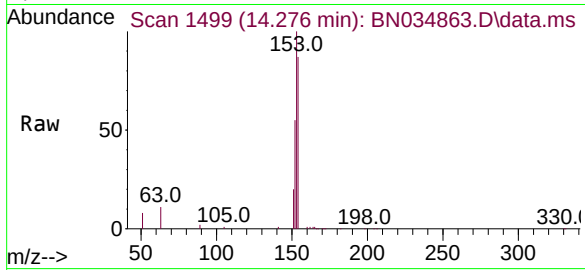




#17
Acenaphthene
Concen: 0.339 ng
RT: 14.276 min Scan# 1499
Delta R.T. -0.011 min
Lab File: BN034863.D
Acq: 05 Nov 2024 09:23

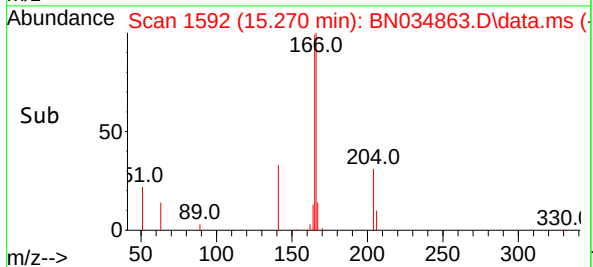
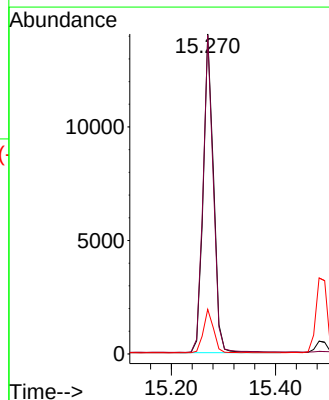
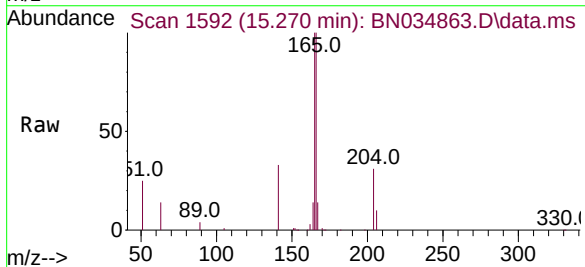
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

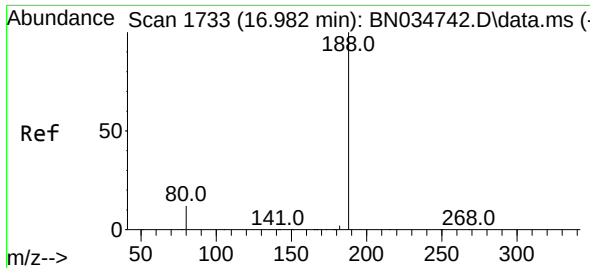
Tgt Ion:154 Resp: 15458
Ion Ratio Lower Upper
154 100
153 112.5 87.8 131.6
152 62.1 44.6 67.0



#18
Fluorene
Concen: 0.337 ng
RT: 15.270 min Scan# 1592
Delta R.T. -0.000 min
Lab File: BN034863.D
Acq: 05 Nov 2024 09:23

Tgt Ion:166 Resp: 19156
Ion Ratio Lower Upper
166 100
165 99.4 78.5 117.7
167 13.7 10.8 16.2

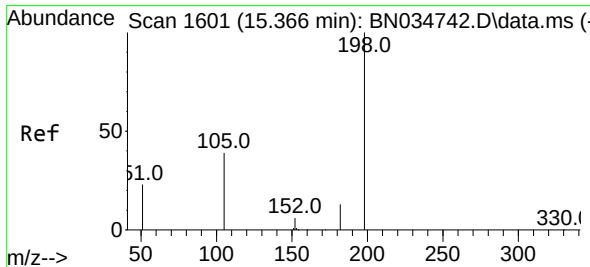
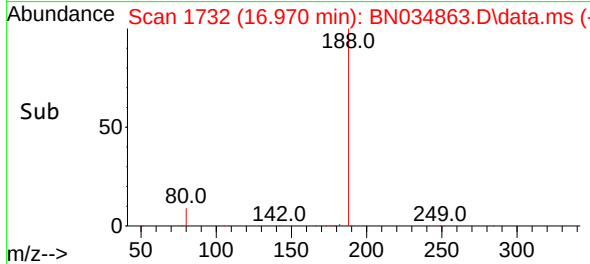
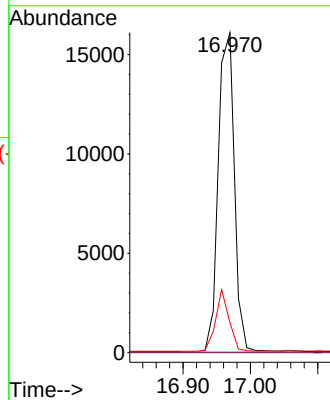
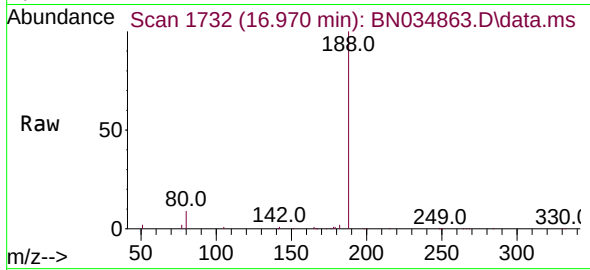




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.970 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN034863.D
Acq: 05 Nov 2024 09:23

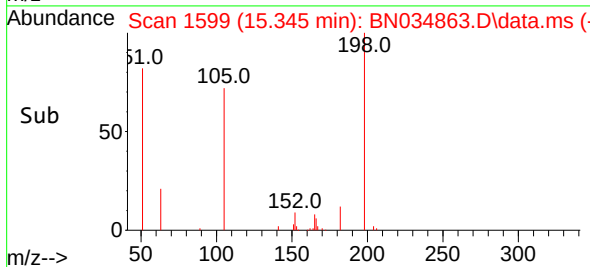
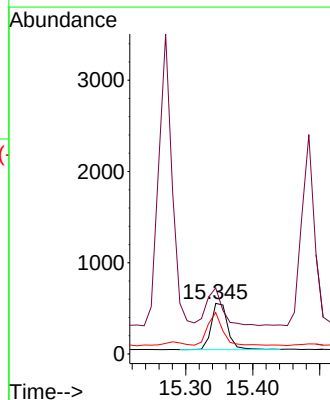
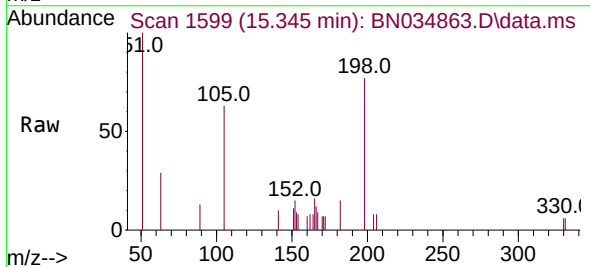
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

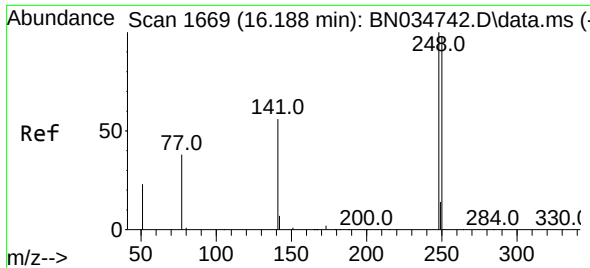
Tgt Ion:188 Resp: 26678
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 9.4 9.8 14.6#



#20
4,6-Dinitro-2-methylphenol
Concen: 0.350 ng
RT: 15.345 min Scan# 1599
Delta R.T. -0.011 min
Lab File: BN034863.D
Acq: 05 Nov 2024 09:23

Tgt Ion:198 Resp: 868
Ion Ratio Lower Upper
198 100
51 130.7 58.0 87.0#
105 81.9 49.1 73.7#

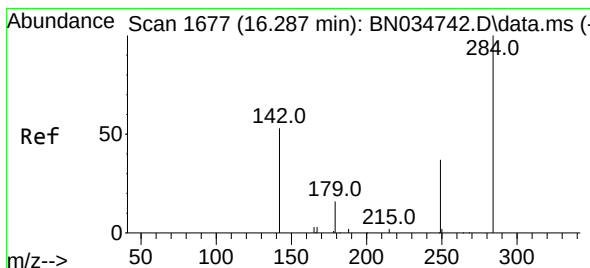
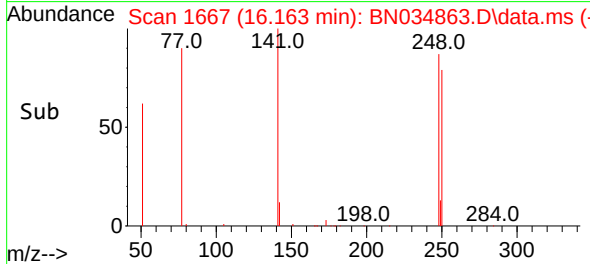
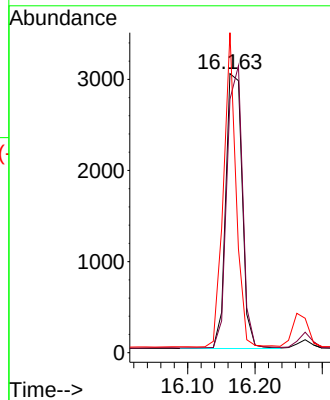
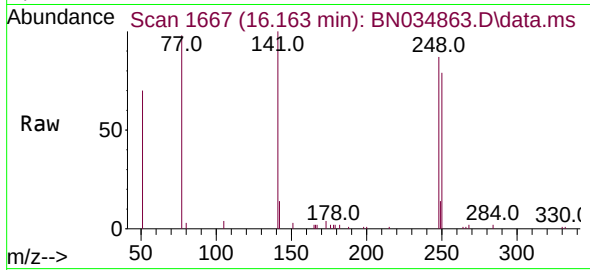




#21
4-Bromophenyl-phenylether
Concen: 0.329 ng
RT: 16.163 min Scan# 1667
Delta R.T. -0.012 min
Lab File: BN034863.D
Acq: 05 Nov 2024 09:23

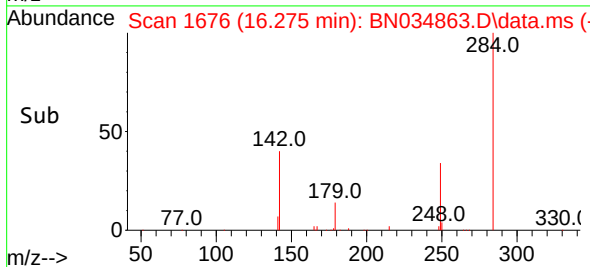
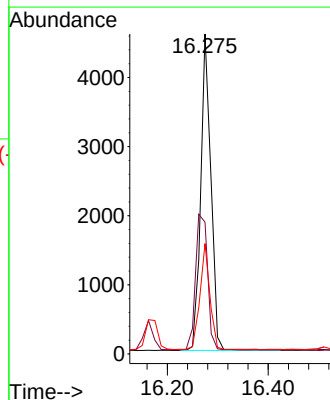
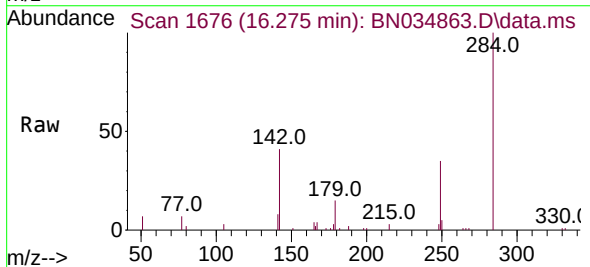
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

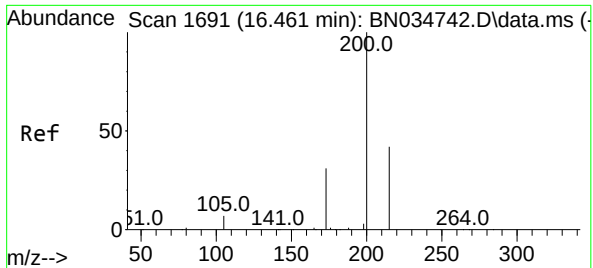
Tgt Ion:248 Resp: 5072
Ion Ratio Lower Upper
248 100
250 90.8 78.7 118.1
141 114.7 46.4 69.6#



#22
Hexachlorobenzene
Concen: 0.372 ng
RT: 16.275 min Scan# 1676
Delta R.T. -0.000 min
Lab File: BN034863.D
Acq: 05 Nov 2024 09:23

Tgt Ion:284 Resp: 6423
Ion Ratio Lower Upper
284 100
142 51.1 35.4 53.0
249 32.6 25.7 38.5

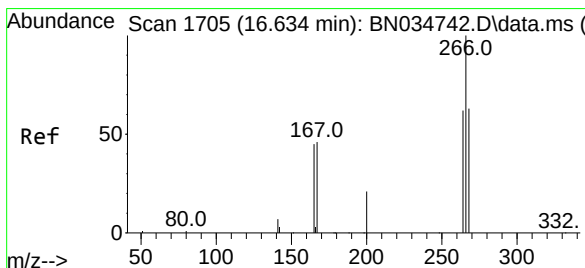
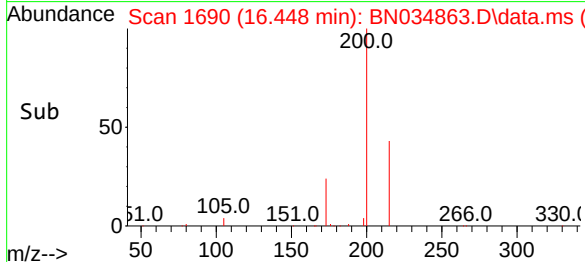
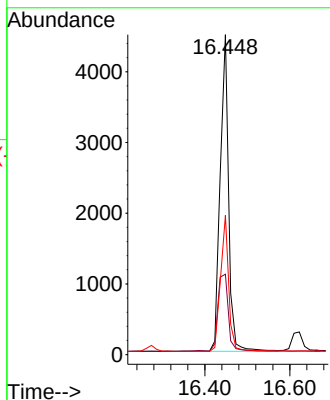
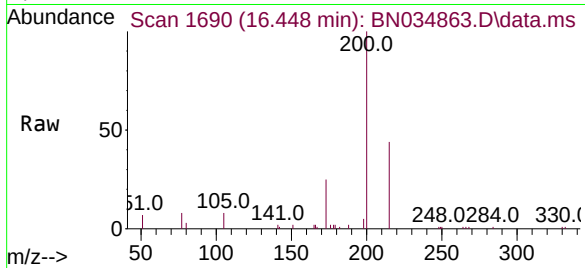




#23
Atrazine
Concen: 0.462 ng
RT: 16.448 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN034863.D
Acq: 05 Nov 2024 09:23

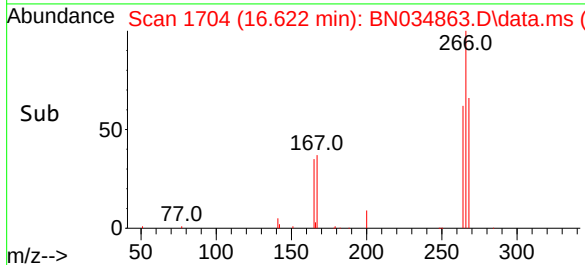
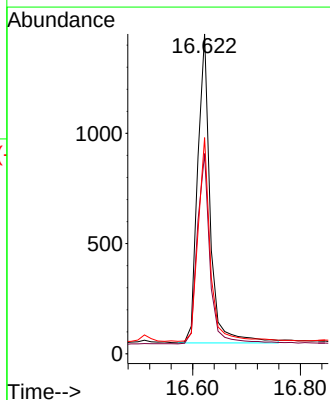
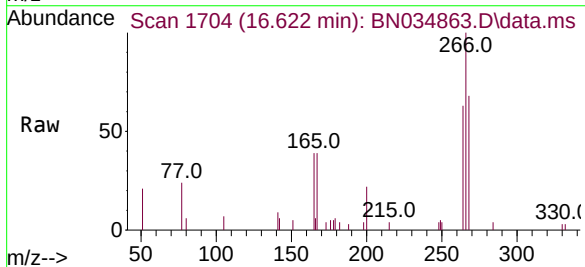
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

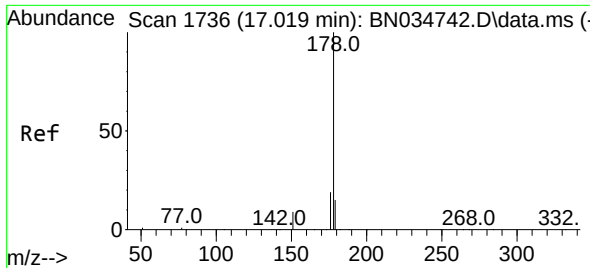
Tgt Ion:200 Resp: 6143
Ion Ratio Lower Upper
200 100
173 25.2 25.8 38.6#
215 43.5 34.2 51.4



#24
Pentachlorophenol
Concen: 0.306 ng
RT: 16.622 min Scan# 1704
Delta R.T. -0.000 min
Lab File: BN034863.D
Acq: 05 Nov 2024 09:23

Tgt Ion:266 Resp: 2280
Ion Ratio Lower Upper
266 100
264 62.6 48.7 73.1
268 63.6 50.2 75.4

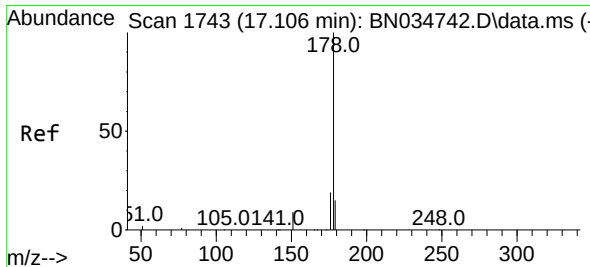
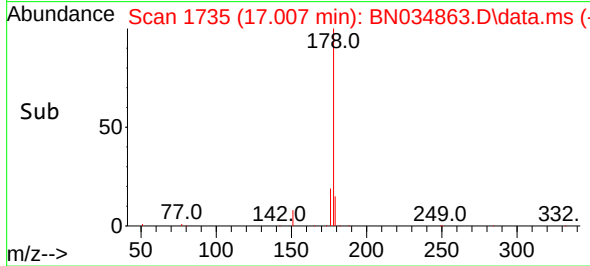
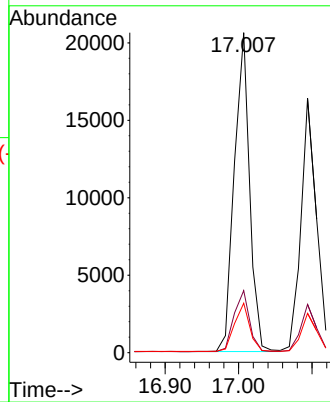
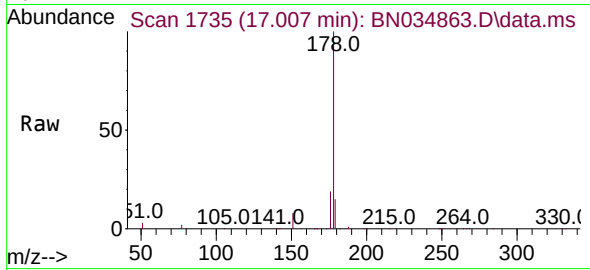




#25
Phenanthrene
Concen: 0.379 ng
RT: 17.007 min Scan# 1742
Delta R.T. -0.000 min
Lab File: BN034863.D
Acq: 05 Nov 2024 09:23

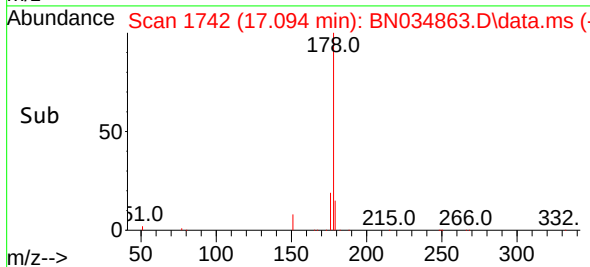
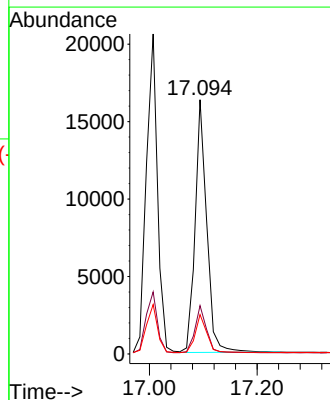
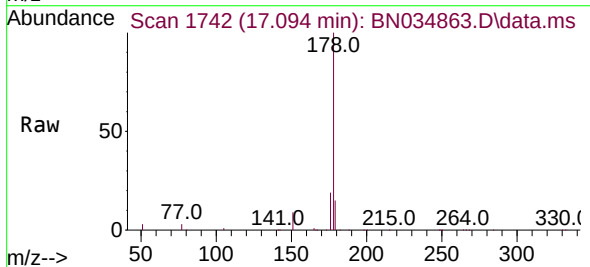
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

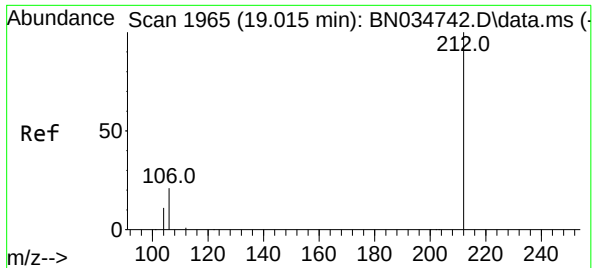
Tgt Ion:178 Resp: 29760
Ion Ratio Lower Upper
178 100
176 19.4 15.4 23.0
179 15.2 12.2 18.4



#26
Anthracene
Concen: 0.334 ng
RT: 17.094 min Scan# 1742
Delta R.T. -0.000 min
Lab File: BN034863.D
Acq: 05 Nov 2024 09:23

Tgt Ion:178 Resp: 24539
Ion Ratio Lower Upper
178 100
176 18.7 15.0 22.6
179 15.1 12.2 18.2





#27

Fluoranthene-d10

Concen: 0.347 ng

RT: 19.001 min Scan# 1965

Delta R.T. -0.000 min

Lab File: BN034863.D

Acq: 05 Nov 2024 09:23

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

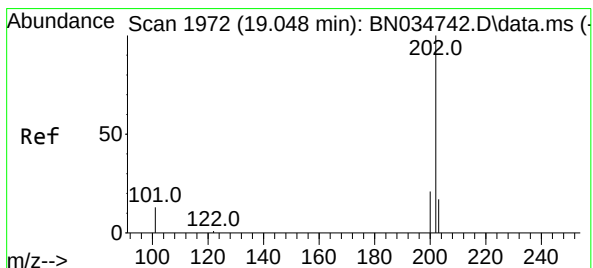
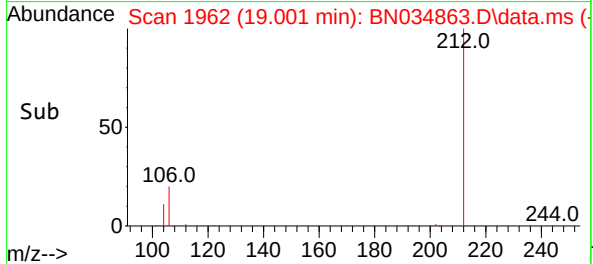
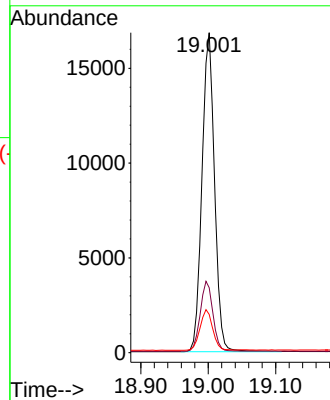
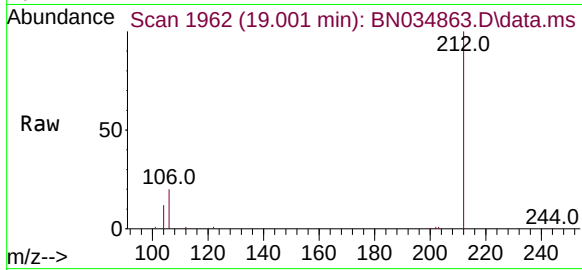
Tgt Ion:212 Resp: 21708

Ion Ratio Lower Upper

212 100

106 22.2 16.1 24.1

104 12.8 9.2 13.8



#28

Fluoranthene

Concen: 0.353 ng

RT: 19.029 min Scan# 1968

Delta R.T. -0.005 min

Lab File: BN034863.D

Acq: 05 Nov 2024 09:23

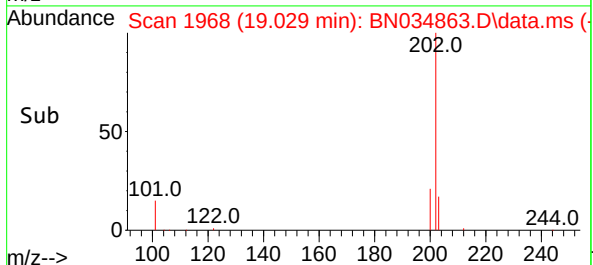
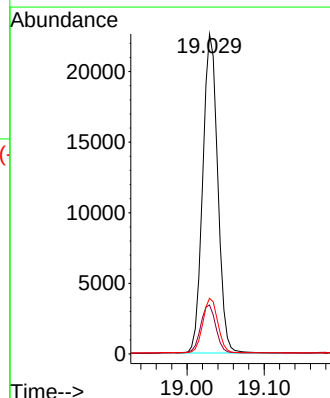
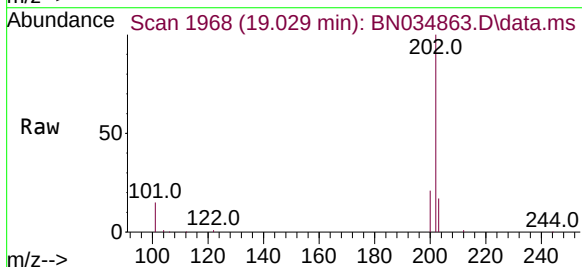
Tgt Ion:202 Resp: 30552

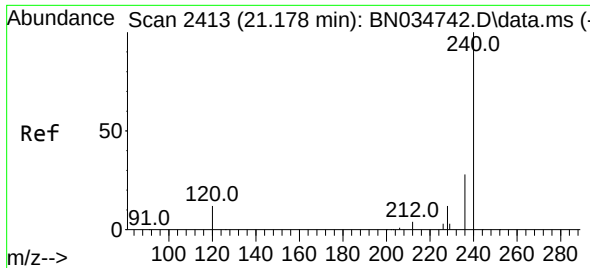
Ion Ratio Lower Upper

202 100

101 15.6 11.4 17.0

203 17.1 13.7 20.5

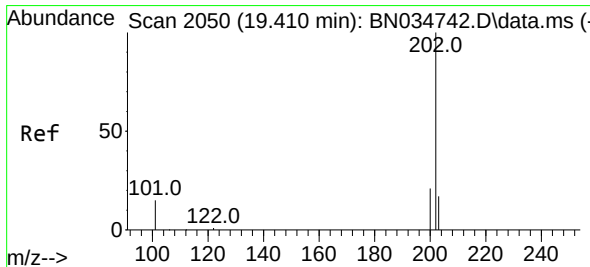
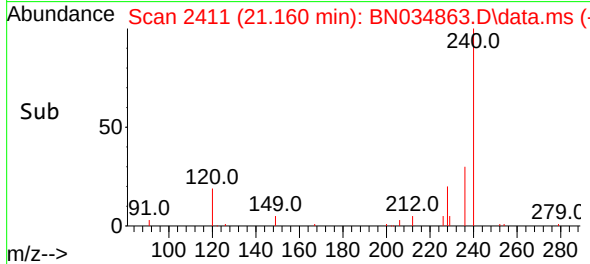
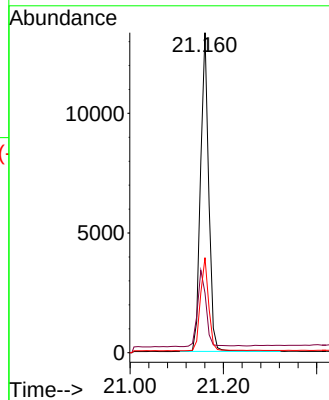
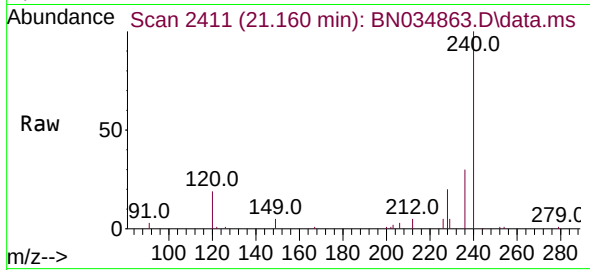




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.160 min Scan# 2411
Delta R.T. -0.000 min
Lab File: BN034863.D
Acq: 05 Nov 2024 09:23

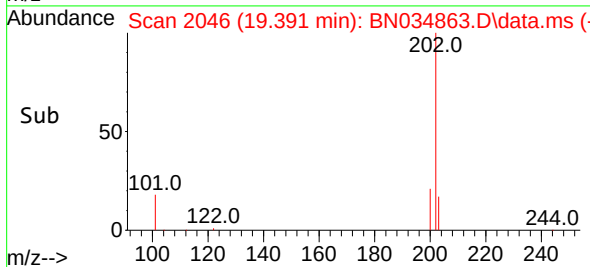
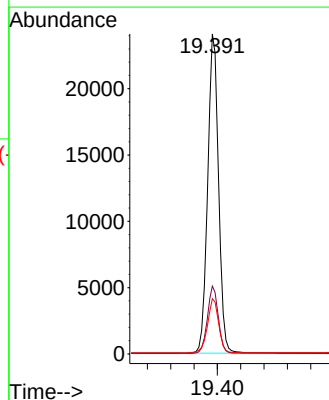
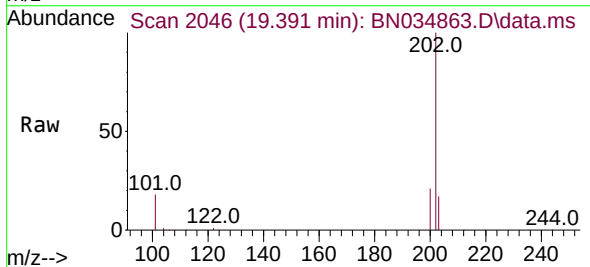
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

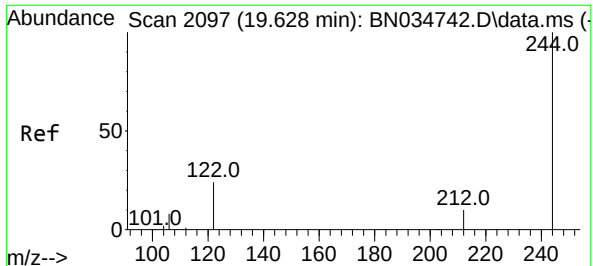
Tgt Ion:240 Resp: 16206
Ion Ratio Lower Upper
240 100
120 18.7 11.5 17.3#
236 29.7 23.2 34.8



#30
Pyrene
Concen: 0.370 ng
RT: 19.391 min Scan# 2046
Delta R.T. -0.005 min
Lab File: BN034863.D
Acq: 05 Nov 2024 09:23

Tgt Ion:202 Resp: 31313
Ion Ratio Lower Upper
202 100
200 21.0 17.0 25.4
203 17.6 14.2 21.2

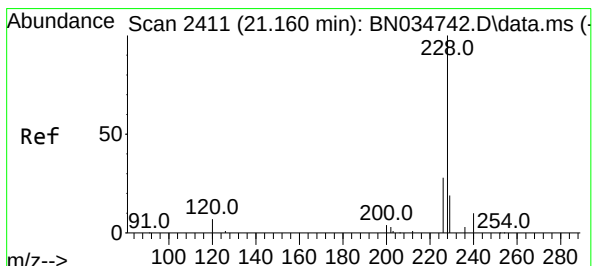
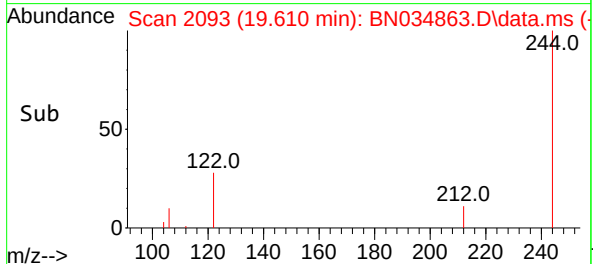
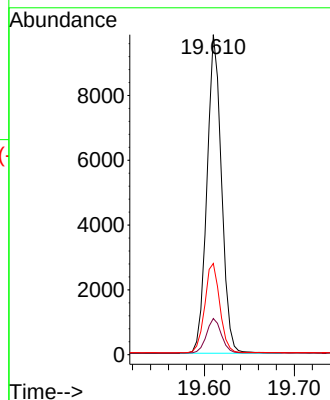
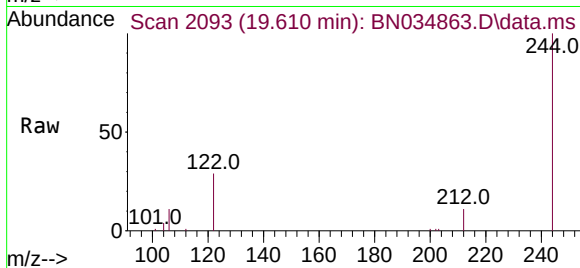




#31
Terphenyl-d14
Concen: 0.318 ng
RT: 19.610 min Scan# 2409
Delta R.T. -0.005 min
Lab File: BN034863.D
Acq: 05 Nov 2024 09:23

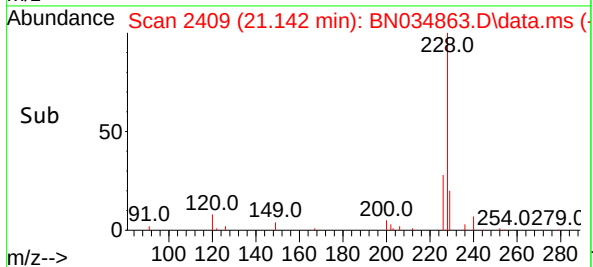
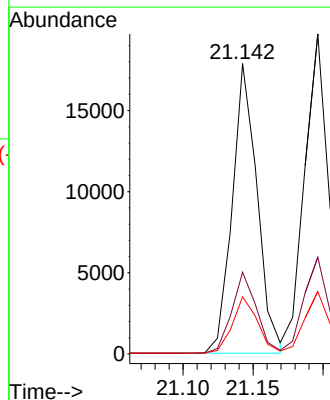
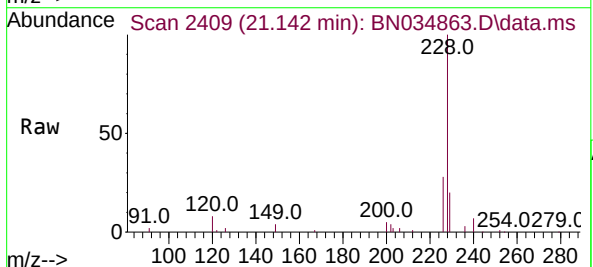
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

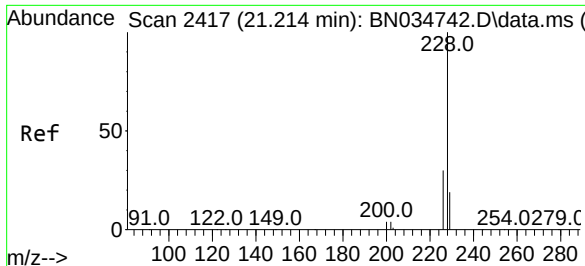
Tgt Ion	Ratio	Lower	Upper
244	100		
212	11.3	8.2	12.4
122	28.5	19.8	29.6



#32
Benzo(a)anthracene
Concen: 0.342 ng
RT: 21.142 min Scan# 2409
Delta R.T. -0.000 min
Lab File: BN034863.D
Acq: 05 Nov 2024 09:23

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.2	22.6	33.8
229	19.7	15.7	23.5

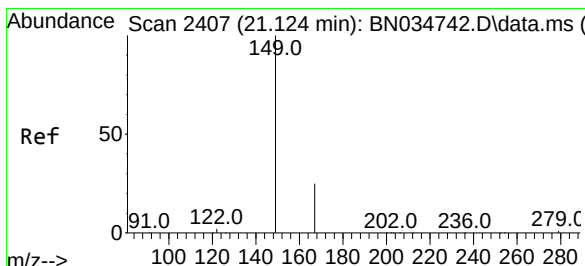
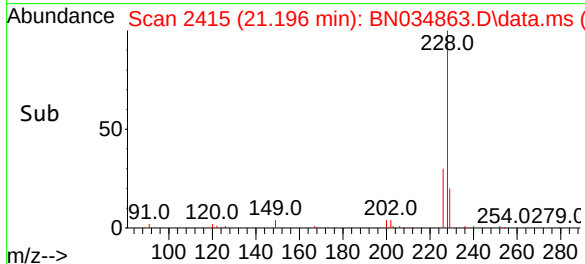
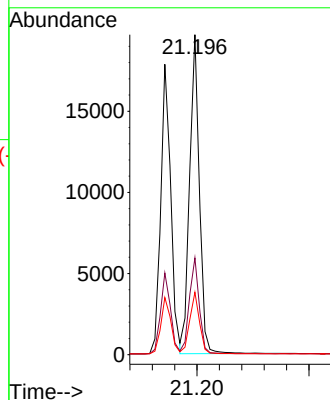
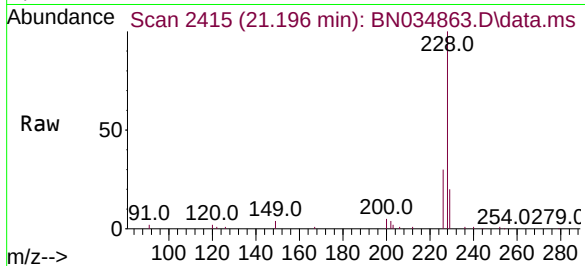




#33
Chrysene
Concen: 0.378 ng
RT: 21.196 min Scan# 2415
Delta R.T. -0.000 min
Lab File: BN034863.D
Acq: 05 Nov 2024 09:23

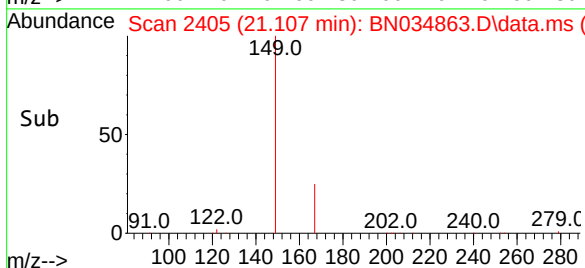
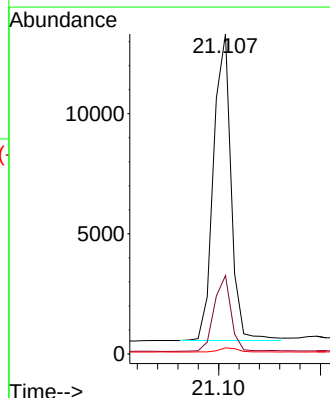
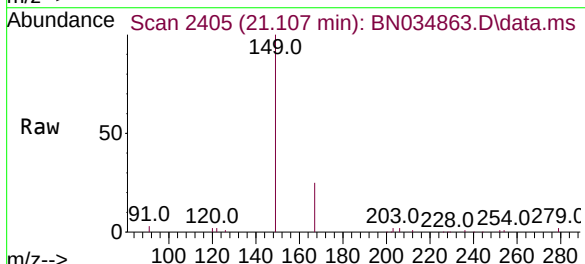
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

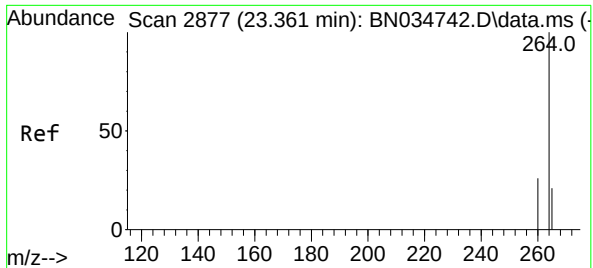
Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.2	24.4	36.6
229	19.5	15.6	23.4



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.283 ng
RT: 21.107 min Scan# 2405
Delta R.T. -0.000 min
Lab File: BN034863.D
Acq: 05 Nov 2024 09:23

Tgt Ion	Ratio	Lower	Upper
149	100		
167	23.6	20.6	30.8
279	1.5	1.5	2.3

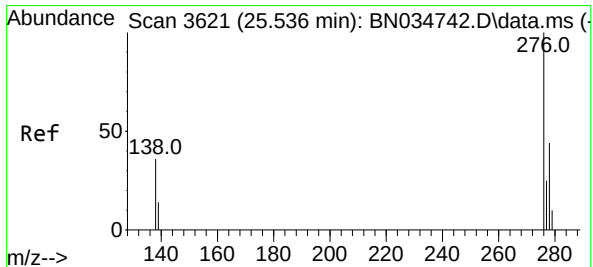
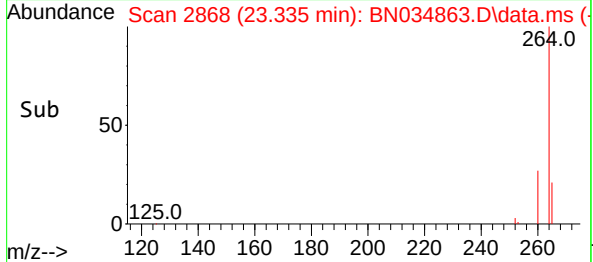
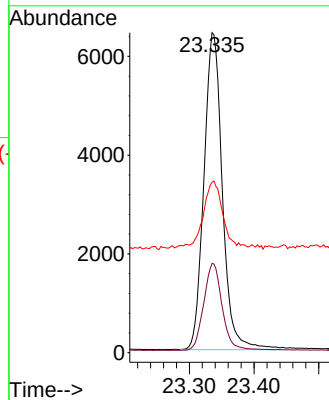
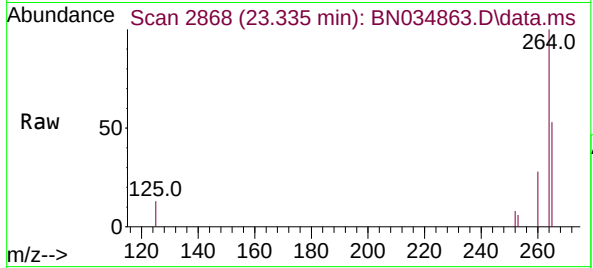




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.335 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN034863.D
Acq: 05 Nov 2024 09:23

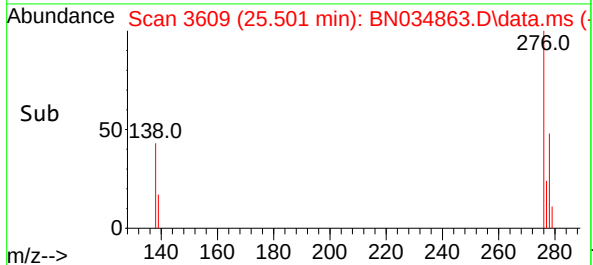
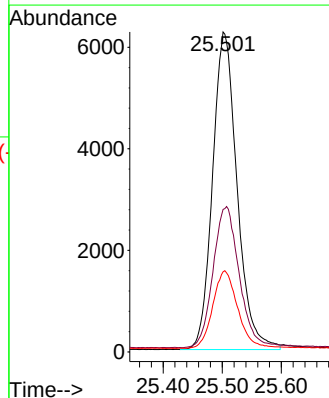
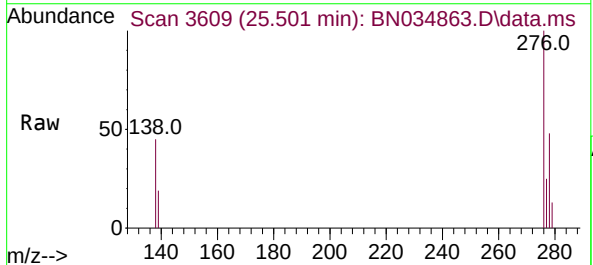
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

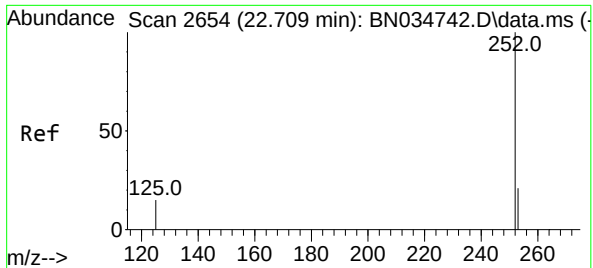
Tgt Ion:264	Resp:	12712
Ion Ratio	Lower	Upper
264	100	
260	27.9	21.5 32.3
265	53.2	47.5 71.3



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.385 ng
RT: 25.501 min Scan# 3609
Delta R.T. -0.003 min
Lab File: BN034863.D
Acq: 05 Nov 2024 09:23

Tgt Ion:276	Resp:	18023
Ion Ratio	Lower	Upper
276	100	
138	48.0	31.5 47.3#
277	24.9	19.7 29.5





#37

Benzo(b)fluoranthene

Concen: 0.389 ng

RT: 22.689 min Scan# 2

Delta R.T. -0.000 min

Lab File: BN034863.D

Acq: 05 Nov 2024 09:23

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

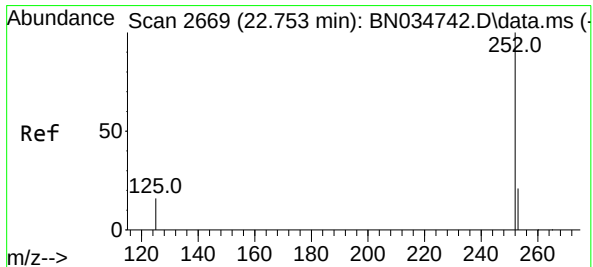
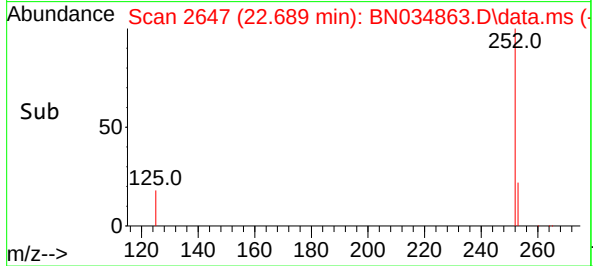
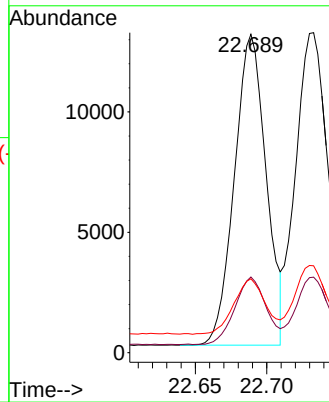
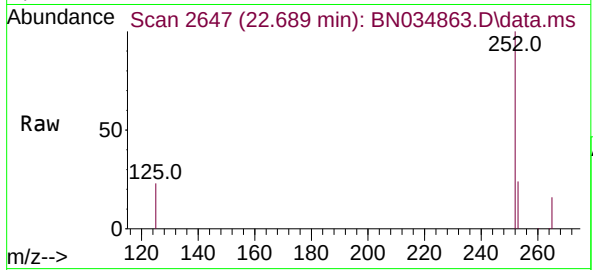
Tgt Ion:252 Resp: 19910

Ion Ratio Lower Upper

252 100

253 23.8 19.7 29.5

125 23.2 17.1 25.7



#38

Benzo(k)fluoranthene

Concen: 0.424 ng

RT: 22.733 min Scan# 2662

Delta R.T. 0.003 min

Lab File: BN034863.D

Acq: 05 Nov 2024 09:23

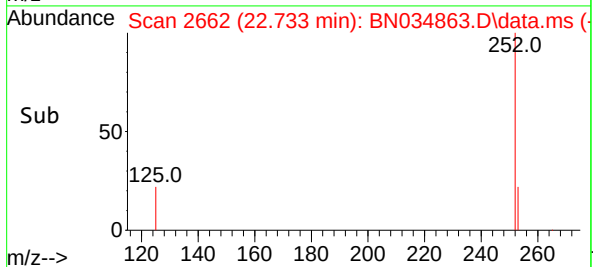
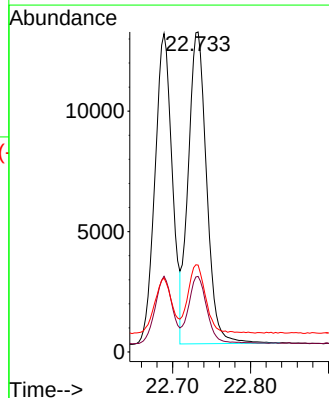
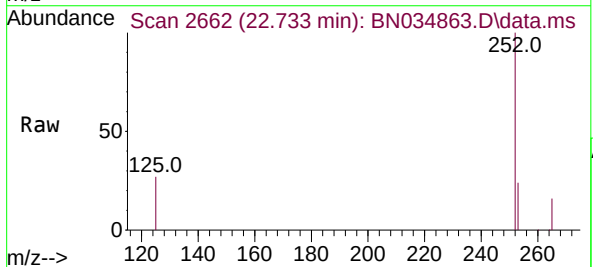
Tgt Ion:252 Resp: 21184

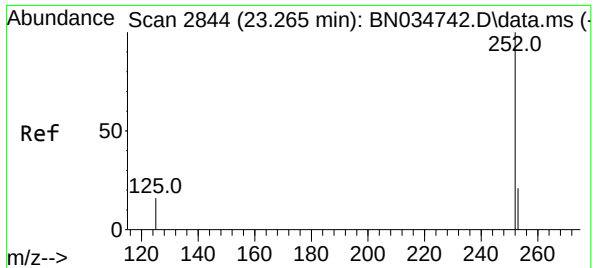
Ion Ratio Lower Upper

252 100

253 23.6 19.8 29.6

125 27.2 18.2 27.2





#39

Benzo(a)pyrene

Concen: 0.354 ng

RT: 23.244 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN034863.D

Acq: 05 Nov 2024 09:23

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

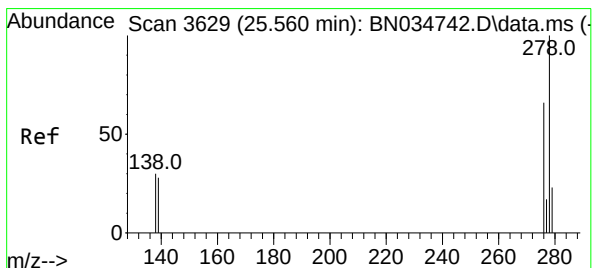
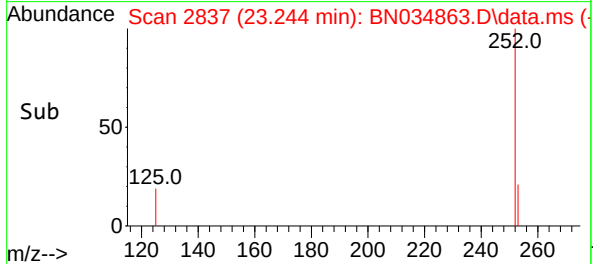
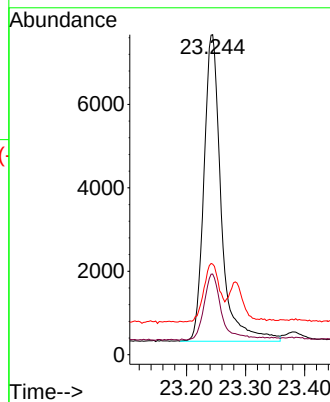
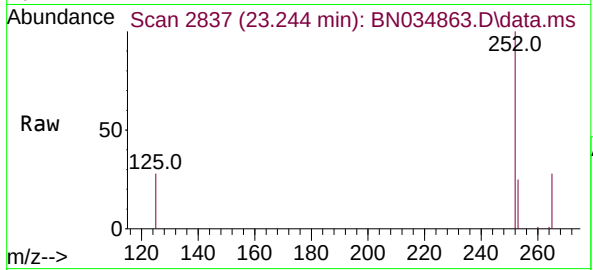
Tgt Ion:252 Resp: 14930

Ion Ratio Lower Upper

252 100

253 25.2 20.7 31.1

125 28.3 20.3 30.5



#40

Dibenzo(a,h)anthracene

Concen: 0.382 ng

RT: 25.519 min Scan# 3615

Delta R.T. -0.006 min

Lab File: BN034863.D

Acq: 05 Nov 2024 09:23

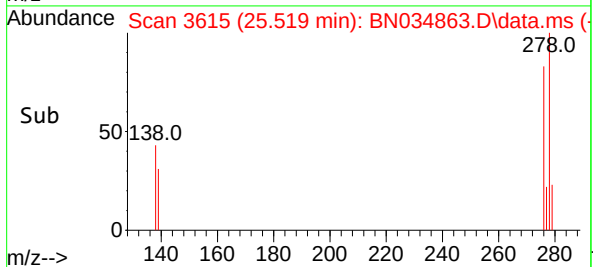
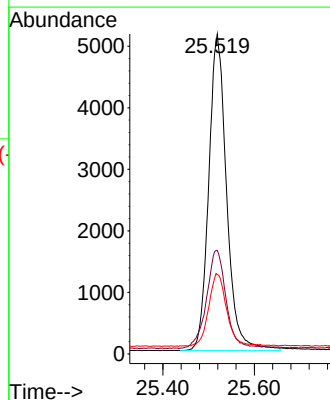
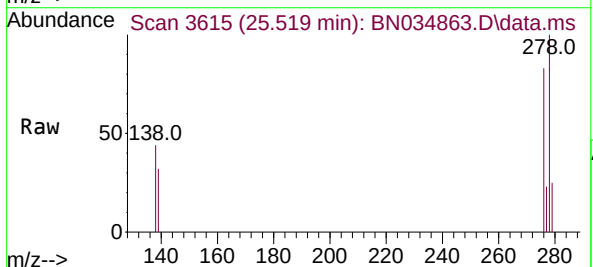
Tgt Ion:278 Resp: 13948

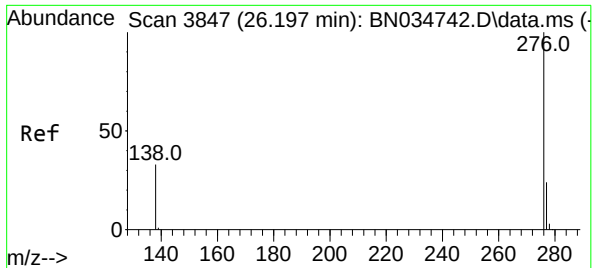
Ion Ratio Lower Upper

278 100

139 32.3 24.9 37.3

279 24.8 21.0 31.4





#41

Benzo(g,h,i)perylene

Concen: 0.374 ng

RT: 26.162 min Scan# 3835

Delta R.T. -0.003 min

Lab File: BN034863.D

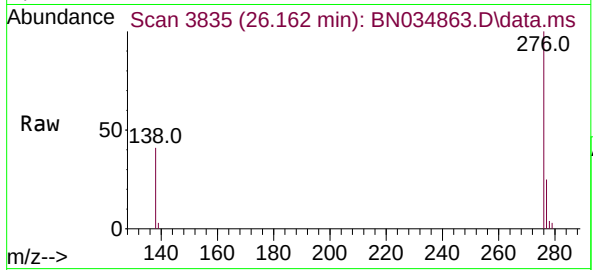
Acq: 05 Nov 2024 09:23

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



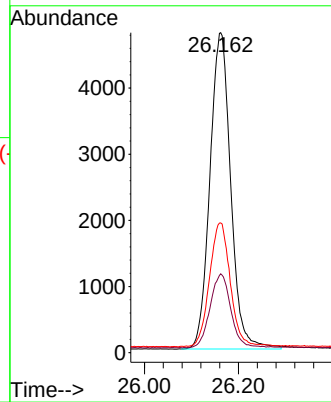
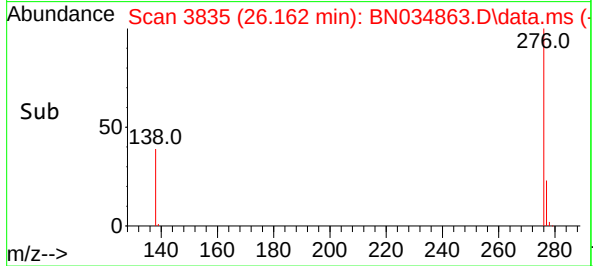
Tgt Ion:276 Resp: 14722

Ion Ratio Lower Upper

276 100

277 24.6 20.2 30.2

138 40.6 28.7 43.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110524\
Data File : BN034863.D
Acq On : 05 Nov 2024 09:23
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Nov 05 11:38:42 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 05 00:03:28 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	112	0.00
2	1,4-Dioxane	0.439	0.397	9.6	109	0.00
3	n-Nitrosodimethylamine	0.494	0.565	-14.4	145	0.00
4 S	2-Fluorophenol	1.212	1.283	-5.9	131	0.00
5 S	Phenol-d6	1.574	1.818	-15.5	145	0.00
6	bis(2-Chloroethyl)ether	1.149	1.145	0.3	121	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	115	0.00
8 S	Nitrobenzene-d5	0.314	0.275	12.4	114	0.00
9	Naphthalene	1.106	0.996	9.9	115	0.00
10	Hexachlorobutadiene	0.182	0.162	11.0	113	0.00
11 SURR	2-Methylnaphthalene-d10	0.579	0.493	14.9	109	0.00
12	2-Methylnaphthalene	0.723	0.606	16.2	107	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	100	0.00
14 S	2,4,6-Tribromophenol	0.198	0.147	25.8#	93	0.00
15 S	2-Fluorobiphenyl	1.575	1.404	10.9	103	0.00
16	Acenaphthylene	2.007	1.601	20.2	95	0.00
17	Acenaphthene	1.337	1.133	15.3	100	-0.01
18	Fluorene	1.667	1.404	15.8	98	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	96	0.00
20	4,6-Dinitro-2-methylphenol	0.059	0.033	44.1#	70	-0.01
21	4-Bromophenyl-phenylether	0.231	0.190	17.7	87	-0.01
22	Hexachlorobenzene	0.259	0.241	6.9	97	0.00
23	Atrazine	0.199	0.230	-15.6	123	0.00
24	Pentachlorophenol	0.112	0.085	24.1	90	0.00
25	Phenanthrene	1.176	1.116	5.1	99	0.00
26	Anthracene	1.101	0.920	16.4	89	0.00
27 SURR	Fluoranthene-d10	0.938	0.814	13.2	92	0.00
28	Fluoranthene	1.297	1.145	11.7	93	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	94	0.00
30	Pyrene	2.091	1.932	7.6	94	0.00
31 S	Terphenyl-d14	0.859	0.683	20.5	81	0.00
32	Benzo(a)anthracene	1.592	1.362	14.4	91	0.00
33	Chrysene	1.559	1.475	5.4	98	0.00
34	Bis(2-ethylhexyl)phthalate	1.331	0.943	29.2#	68	0.00
35 I	Perylene-d12	1.000	1.000	0.0	87	0.00
36	Indeno(1,2,3-cd)pyrene	1.471	1.418	3.6	92	0.00
37	Benzo(b)fluoranthene	1.610	1.566	2.7	94	0.00
38	Benzo(k)fluoranthene	1.571	1.666	-6.0	103	0.00
39 C	Benzo(a)pyrene	1.329	1.174	11.7	86	0.00
40	Dibenzo(a,h)anthracene	1.147	1.097	4.4	92	0.00
41	Benzo(g,h,i)perylene	1.240	1.158	6.6	88	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110524\
Data File : BN034863.D
Acq On : 05 Nov 2024 09:23
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Nov 05 11:38:42 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 05 00:03:28 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	112	0.00
2	1,4-Dioxane	0.400	0.362	9.5	109	0.00
3	n-Nitrosodimethylamine	0.400	0.457	-14.2	145	0.00
4 S	2-Fluorophenol	0.400	0.424	-6.0	131	0.00
5 S	Phenol-d6	0.400	0.462	-15.5	145	0.00
6	bis(2-Chloroethyl)ether	0.400	0.398	0.5	121	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	115	0.00
8 S	Nitrobenzene-d5	0.400	0.350	12.5	114	0.00
9	Naphthalene	0.400	0.360	10.0	115	0.00
10	Hexachlorobutadiene	0.400	0.355	11.3	113	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.341	14.8	109	0.00
12	2-Methylnaphthalene	0.400	0.335	16.3	107	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	100	0.00
14 S	2,4,6-Tribromophenol	0.400	0.298	25.5#	93	0.00
15 S	2-Fluorobiphenyl	0.400	0.357	10.8	103	0.00
16	Acenaphthylene	0.400	0.319	20.3	95	0.00
17	Acenaphthene	0.400	0.339	15.3	100	-0.01
18	Fluorene	0.400	0.337	15.8	98	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	96	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.350	12.5	70	-0.01
21	4-Bromophenyl-phenylether	0.400	0.329	17.8	87	-0.01
22	Hexachlorobenzene	0.400	0.372	7.0	97	0.00
23	Atrazine	0.400	0.462	-15.5	123	0.00
24	Pentachlorophenol	0.400	0.306	23.5	90	0.00
25	Phenanthrene	0.400	0.379	5.3	99	0.00
26	Anthracene	0.400	0.334	16.5	89	0.00
27 SURR	Fluoranthene-d10	0.400	0.347	13.3	92	0.00
28	Fluoranthene	0.400	0.353	11.8	93	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	94	0.00
30	Pyrene	0.400	0.370	7.5	94	0.00
31 S	Terphenyl-d14	0.400	0.318	20.5	81	0.00
32	Benzo(a)anthracene	0.400	0.342	14.5	91	0.00
33	Chrysene	0.400	0.378	5.5	98	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.283	29.3#	68	0.00
35 I	Perylene-d12	0.400	0.400	0.0	87	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.385	3.8	92	0.00
37	Benzo(b)fluoranthene	0.400	0.389	2.8	94	0.00
38	Benzo(k)fluoranthene	0.400	0.424	-6.0	103	0.00
39 C	Benzo(a)pyrene	0.400	0.354	11.5	86	0.00
40	Dibenzo(a,h)anthracene	0.400	0.382	4.5	92	0.00
41	Benzo(g,h,i)perylene	0.400	0.374	6.5	88	0.00

(#) = Out of Range

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



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P4652 SAS No.: P4652 SDG No.: P4652

Instrument ID: BNA_N Calibration Date/Time: 11/05/2024 12:46

Lab File ID: BN034867.D Init. Calib. Date(s): 10/30/2024 10/30/2024

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 09:20 12:56

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.579	0.483		-16.6	50.0
Fluoranthene-d10	0.938	0.785		-16.3	50.0
2-Fluorophenol	1.212	0.999		-17.6	50.0
Phenol-d6	1.574	1.370		-13.0	50.0
Nitrobenzene-d5	0.314	0.275		-12.4	50.0
2-Fluorobiphenyl	1.575	1.390		-11.7	50.0
2,4,6-Tribromophenol	0.198	0.099		-50.0	50.0
Terphenyl-d14	0.859	0.680		-20.8	50.0
1,4-Dioxane	0.439	0.427		-2.7	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110524\
 Data File : BN034867.D
 Acq On : 05 Nov 2024 12:46
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

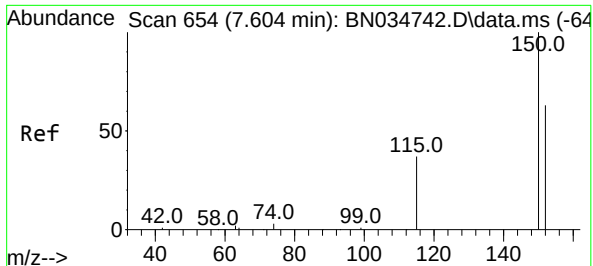
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 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 05 00:03:28 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.589	152	8452	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	26349	0.400	ng	0.00
13) Acenaphthene-d10	14.222	164	13108	0.400	ng	0.00
19) Phenanthrene-d10	16.970	188	26072	0.400	ng	# 0.00
29) Chrysene-d12	21.160	240	15730	0.400	ng	# 0.00
35) Perylene-d12	23.341	264	12206	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.206	112	8446	0.330	ng	0.00
5) Phenol-d6	6.766	99	11578	0.348	ng	0.00
8) Nitrobenzene-d5	8.717	82	7249	0.350	ng	-0.01
11) 2-Methylnaphthalene-d10	11.946	152	12724	0.334	ng	0.00
14) 2,4,6-Tribromophenol	15.716	330	1294	0.200	ng	0.00
15) 2-Fluorobiphenyl	12.843	172	18226	0.353	ng	0.00
27) Fluoranthene-d10	19.001	212	20468	0.335	ng	0.00
31) Terphenyl-d14	19.614	244	10695	0.317	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.198	88	3608	0.389	ng	Qvalue 91
3) n-Nitrosodimethylamine	3.494	42	5234	0.501	ng	# 79
6) bis(2-Chloroethyl)ether	7.019	93	9892	0.407	ng	95
9) Naphthalene	10.404	128	26425	0.363	ng	99
10) Hexachlorobutadiene	10.703	225	4231	0.353	ng	# 98
12) 2-Methylnaphthalene	12.022	142	15960	0.335	ng	99
16) Acenaphthylene	13.933	152	20613	0.313	ng	100
17) Acenaphthene	14.286	154	14551	0.332	ng	95
18) Fluorene	15.270	166	18360	0.336	ng	99
20) 4,6-Dinitro-2-methylph...	15.355	198	821	0.344	ng	# 85
21) 4-Bromophenyl-phenylether	16.175	248	4746	0.315	ng	# 88
22) Hexachlorobenzene	16.274	284	5984	0.354	ng	94
23) Atrazine	16.448	200	3344	0.257	ng	96
24) Pentachlorophenol	16.622	266	1642	0.226	ng	98
25) Phenanthrene	17.007	178	28464	0.371	ng	100
26) Anthracene	17.094	178	23674	0.330	ng	100
28) Fluoranthene	19.034	202	29467	0.349	ng	98
30) Pyrene	19.396	202	30219	0.367	ng	100
32) Benzo(a)anthracene	21.151	228	21465	0.343	ng	99
33) Chrysene	21.196	228	23280	0.380	ng	99
34) Bis(2-ethylhexyl)phtha...	21.107	149	13851	0.265	ng	# 95
36) Indeno(1,2,3-cd)pyrene	25.513	276	17256	0.384	ng	92
37) Benzo(b)fluoranthene	22.695	252	19455	0.396	ng	97
38) Benzo(k)fluoranthene	22.738	252	19778	0.412	ng	97
39) Benzo(a)pyrene	23.247	252	14166	0.349	ng	95
40) Dibenzo(a,h)anthracene	25.525	278	13179	0.376	ng	98
41) Benzo(g,h,i)perylene	26.165	276	14224	0.376	ng	95

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

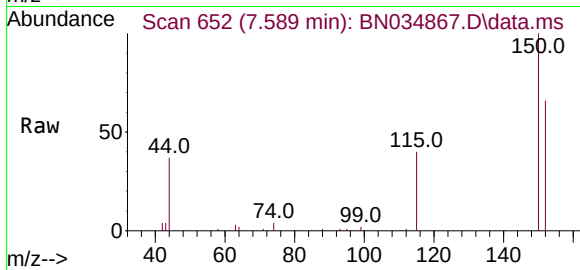
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BNA_N
ClientSampleId :
SSTDCCC0.4EC

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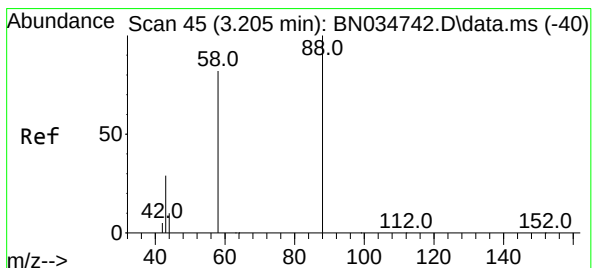
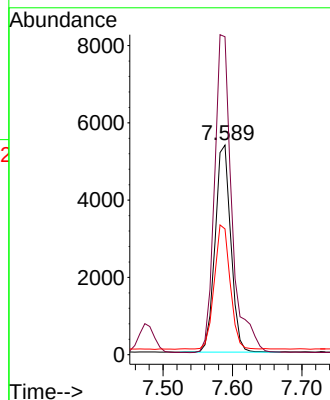
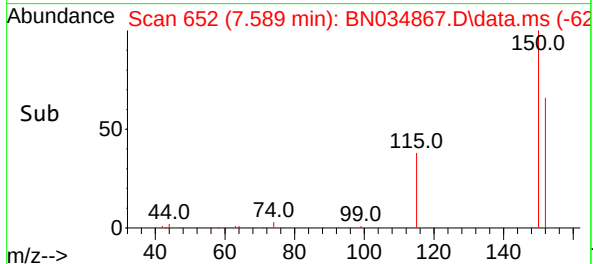


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.589 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN034867.D
Acq: 05 Nov 2024 12:46

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

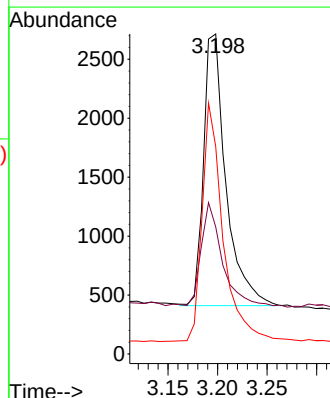
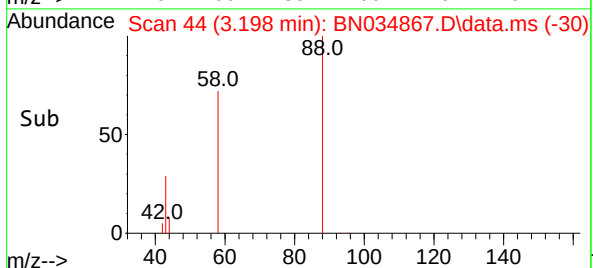
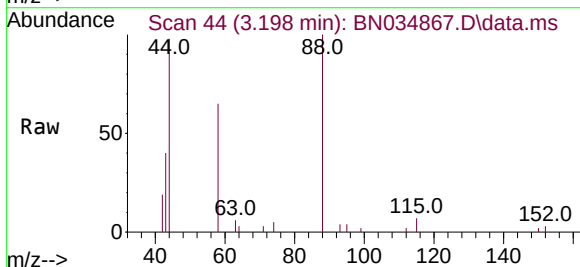


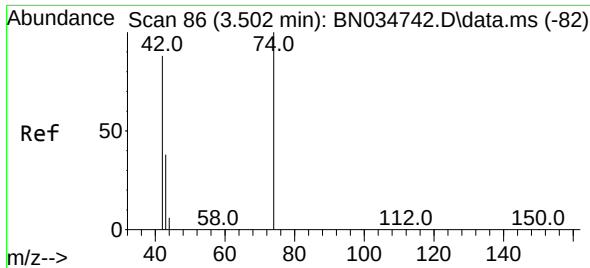
Tgt Ion:152 Resp: 8452
Ion Ratio Lower Upper
152 100
150 151.7 124.9 187.3
115 60.0 50.2 75.2



#2
1,4-Dioxane
Concen: 0.389 ng
RT: 3.198 min Scan# 44
Delta R.T. -0.000 min
Lab File: BN034867.D
Acq: 05 Nov 2024 12:46

Tgt Ion: 88 Resp: 3608
Ion Ratio Lower Upper
88 100
43 37.2 26.7 40.1
58 82.6 59.3 88.9

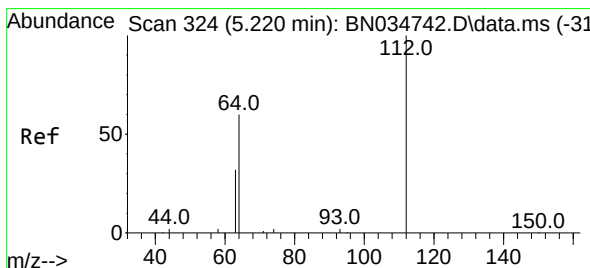
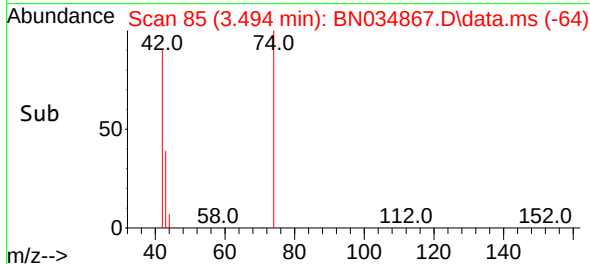
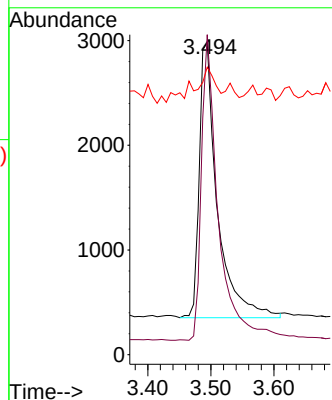
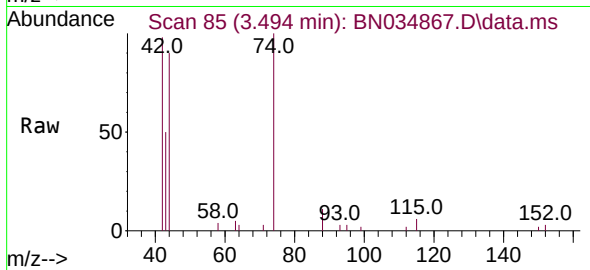




#3
n-Nitrosodimethylamine
Concen: 0.501 ng
RT: 3.494 min Scan# 81
Delta R.T. -0.000 min
Lab File: BN034867.D
Acq: 05 Nov 2024 12:46

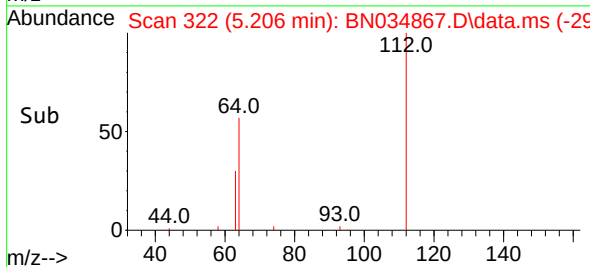
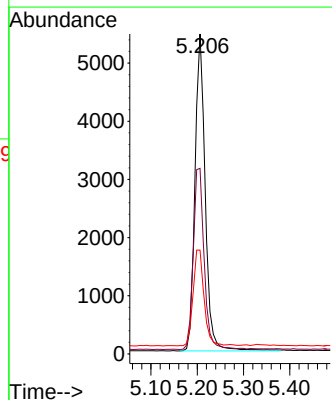
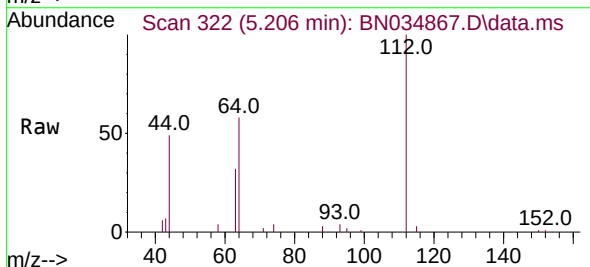
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BNA_N
ClientSampleId :
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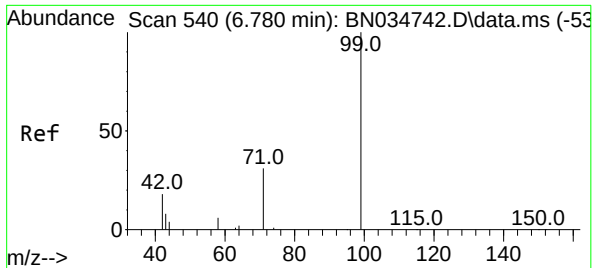
Tgt Ion: 42 Resp: 5234
Ion Ratio Lower Upper
42 100
74 104.9 103.1 154.7
44 16.0 6.7 10.1#



#4
2-Fluorophenol
Concen: 0.330 ng
RT: 5.206 min Scan# 322
Delta R.T. -0.007 min
Lab File: BN034867.D
Acq: 05 Nov 2024 12:46

Tgt Ion: 112 Resp: 8446
Ion Ratio Lower Upper
112 100
64 60.7 44.9 67.3
63 32.1 23.5 35.3

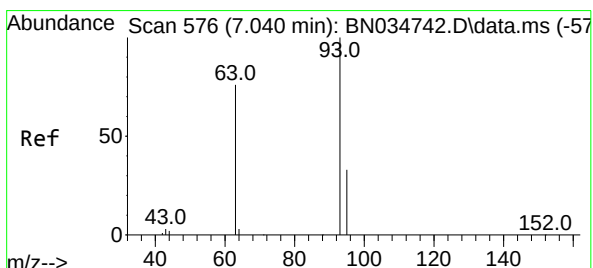
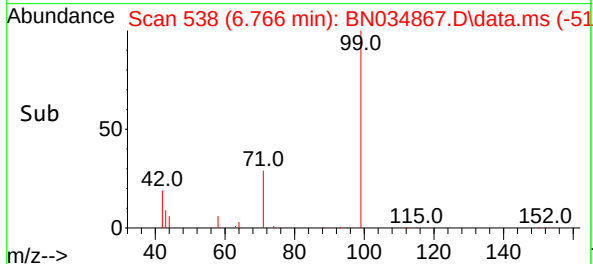
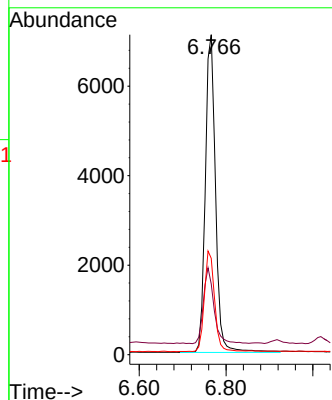
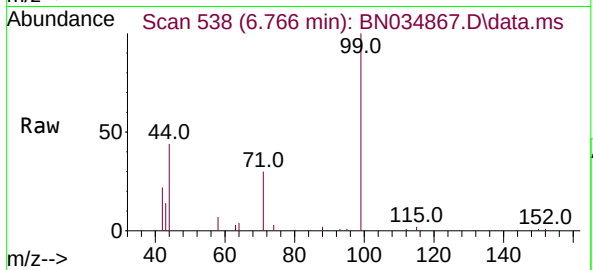




#5
Phenol-d6
Concen: 0.348 ng
RT: 6.766 min Scan# 511
Delta R.T. -0.000 min
Lab File: BN034867.D
Acq: 05 Nov 2024 12:46

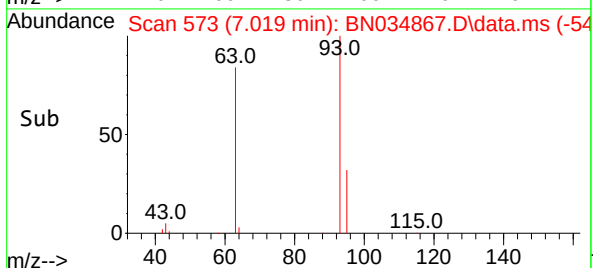
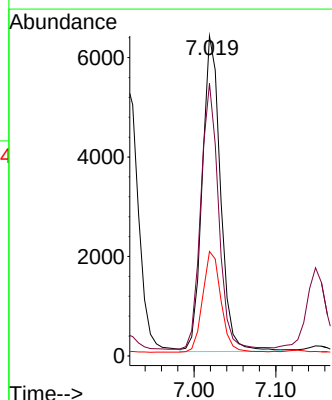
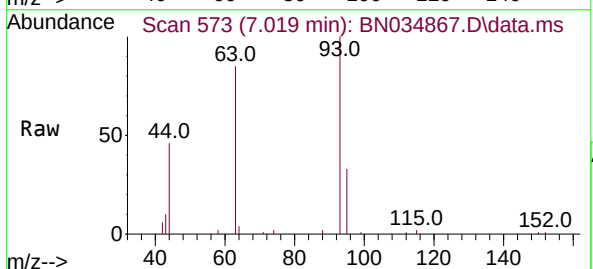
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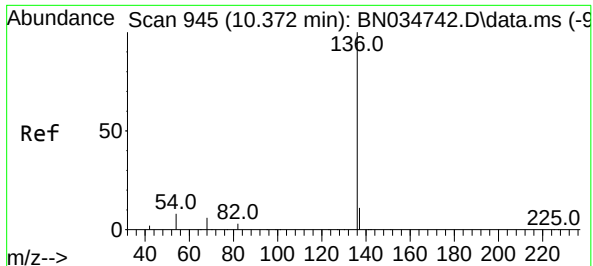
Tgt Ion: 99 Resp: 11578
Ion Ratio Lower Upper
99 100
42 24.6 15.9 23.9#
71 31.7 24.3 36.5



#6
bis(2-Chloroethyl)ether
Concen: 0.407 ng
RT: 7.019 min Scan# 573
Delta R.T. -0.007 min
Lab File: BN034867.D
Acq: 05 Nov 2024 12:46

Tgt Ion: 93 Resp: 9892
Ion Ratio Lower Upper
93 100
63 82.1 61.2 91.8
95 32.1 25.8 38.8

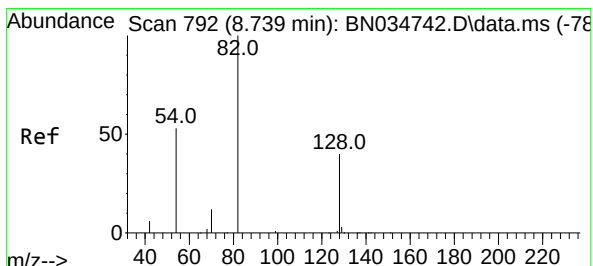
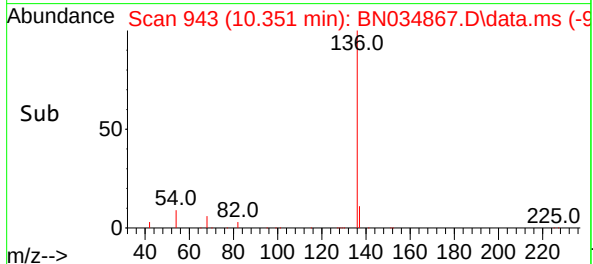
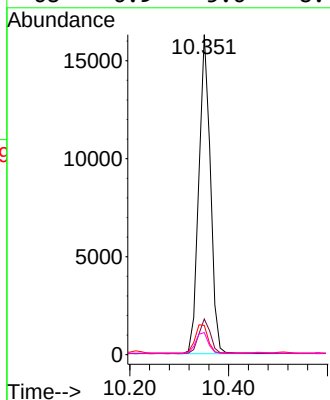
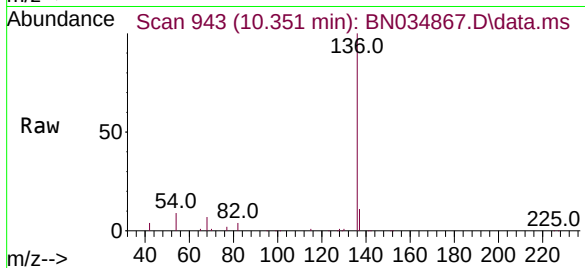




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 945
Delta R.T. -0.000 min
Lab File: BN034867.D
Acq: 05 Nov 2024 12:46

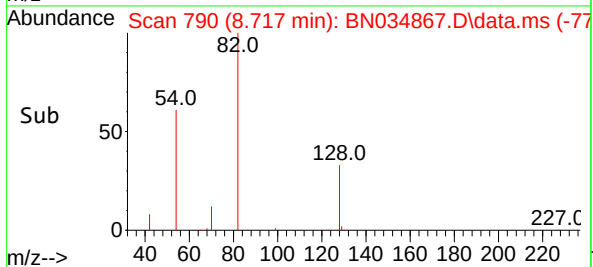
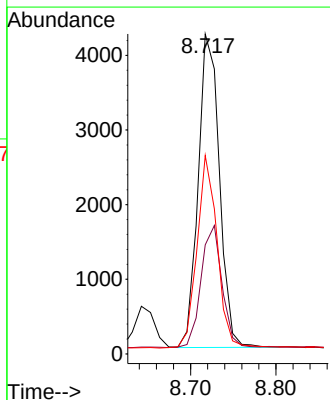
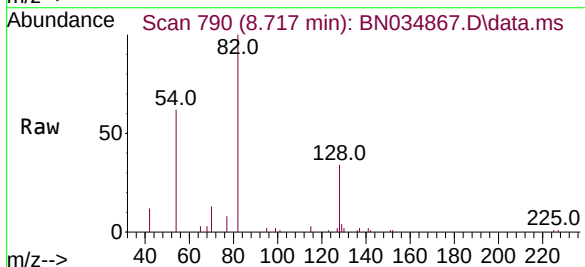
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ClientSampleId :
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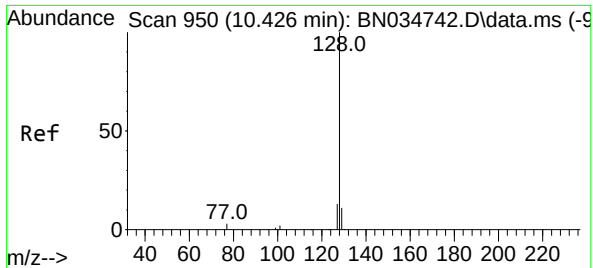
Tgt Ion:	136	Resp:	26349
Ion	Ratio	Lower	Upper
136	100		
137	11.1	9.2	13.8
54	9.1	7.0	10.4
68	6.9	5.6	8.4



#8
Nitrobenzene-d5
Concen: 0.350 ng
RT: 8.717 min Scan# 790
Delta R.T. -0.011 min
Lab File: BN034867.D
Acq: 05 Nov 2024 12:46

Tgt Ion:	82	Resp:	7249
Ion	Ratio	Lower	Upper
82	100		
128	34.1	33.7	50.5
54	62.0	44.4	66.6

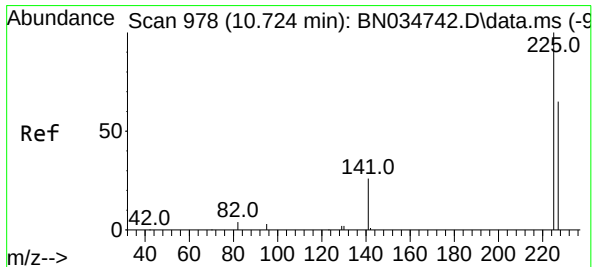
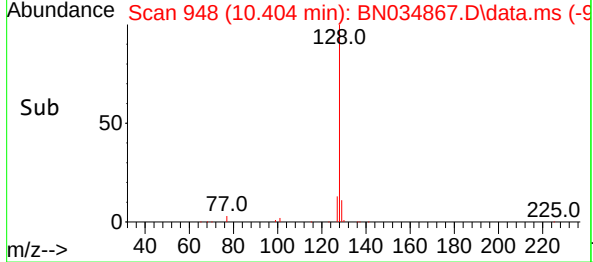
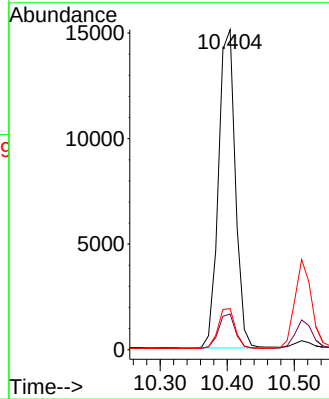
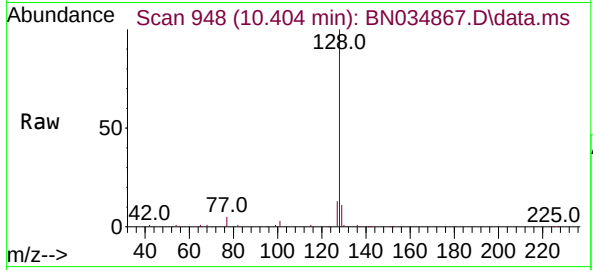




#9
Naphthalene
Concen: 0.363 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.000 min
Lab File: BN034867.D
Acq: 05 Nov 2024 12:46

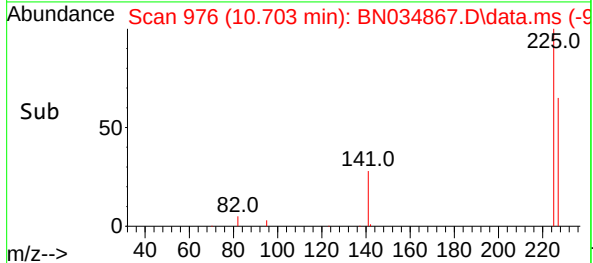
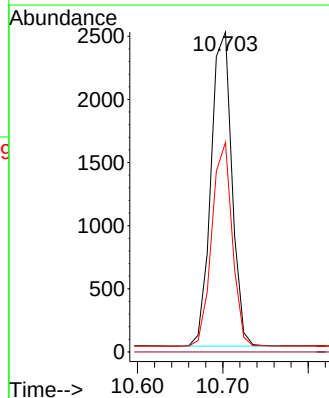
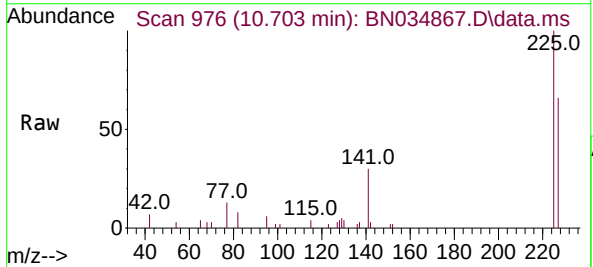
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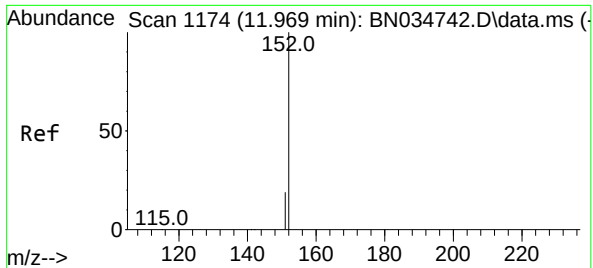
Tgt Ion:128 Resp: 26425
Ion Ratio Lower Upper
128 100
129 11.2 9.4 14.0
127 12.9 10.6 15.8



#10
Hexachlorobutadiene
Concen: 0.353 ng
RT: 10.703 min Scan# 976
Delta R.T. -0.000 min
Lab File: BN034867.D
Acq: 05 Nov 2024 12:46

Tgt Ion:225 Resp: 4231
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.1 51.4 77.2

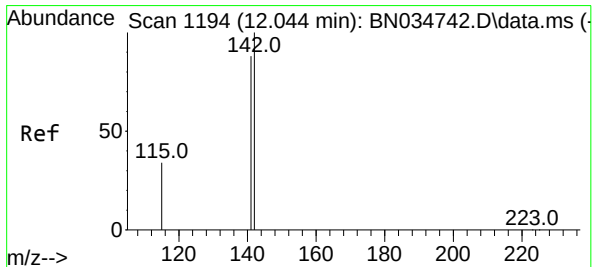
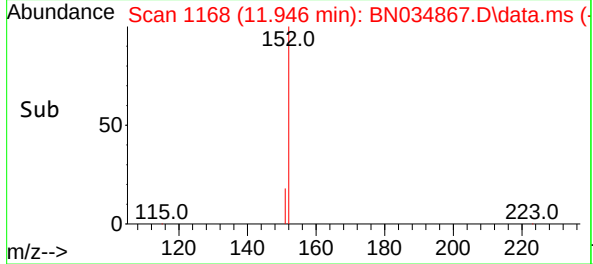
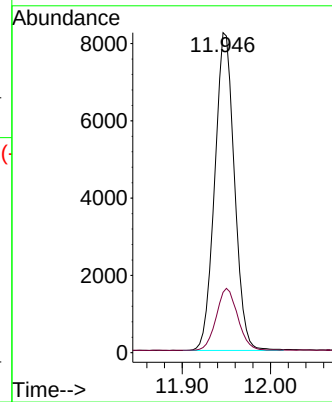
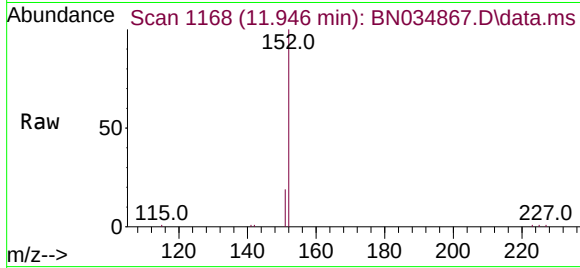




#11
2-Methylnaphthalene-d10
Concen: 0.334 ng
RT: 11.946 min Scan# 1174
Delta R.T. -0.004 min
Lab File: BN034867.D
Acq: 05 Nov 2024 12:46

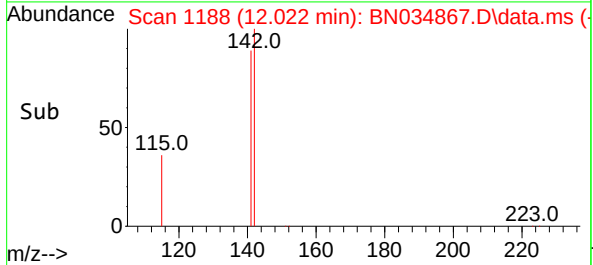
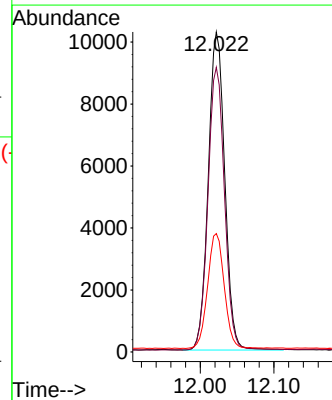
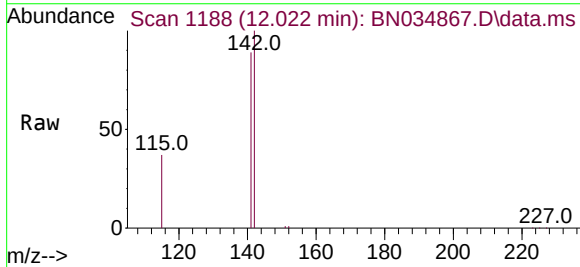
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BNA_N
ClientSampleId :
SSTDCCC0.4EC

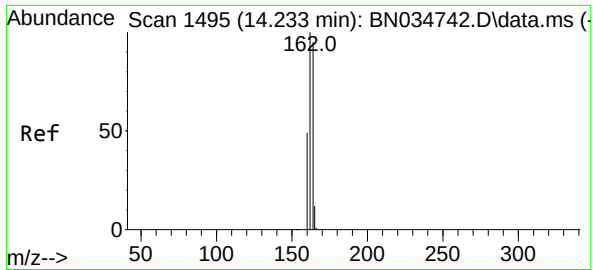
Tgt Ion:152 Resp: 12724
Ion Ratio Lower Upper
152 100
151 21.3 16.6 24.8



#12
2-Methylnaphthalene
Concen: 0.335 ng
RT: 12.022 min Scan# 1188
Delta R.T. -0.004 min
Lab File: BN034867.D
Acq: 05 Nov 2024 12:46

Tgt Ion:142 Resp: 15960
Ion Ratio Lower Upper
142 100
141 88.9 70.6 106.0
115 37.0 28.6 42.8

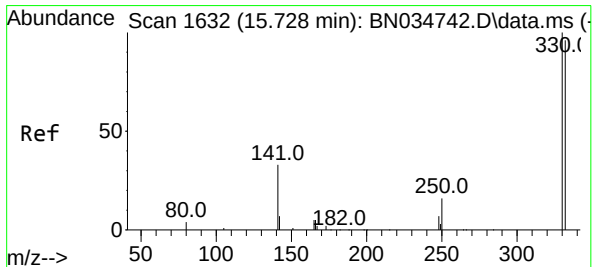
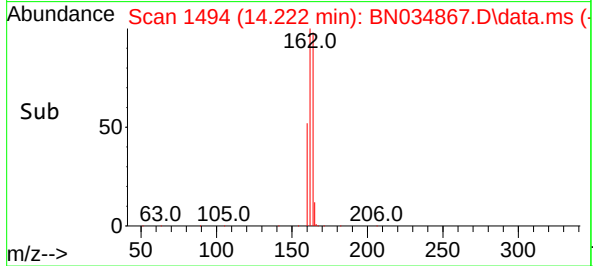
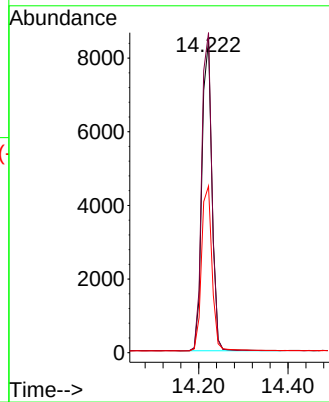
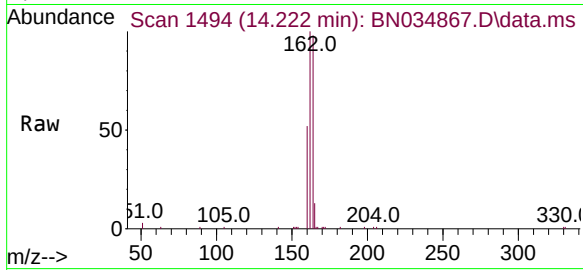




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.222 min Scan# 1494
Delta R.T. -0.000 min
Lab File: BN034867.D
Acq: 05 Nov 2024 12:46

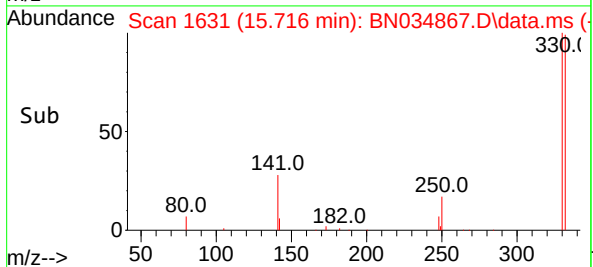
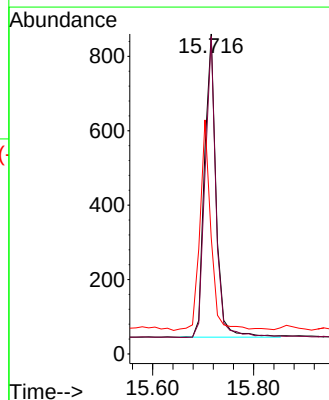
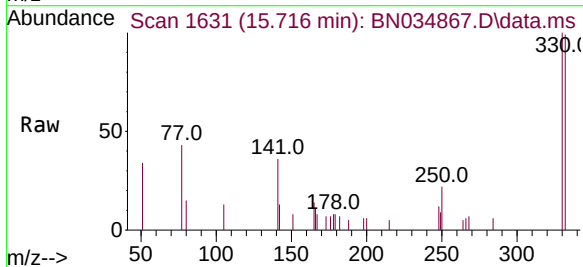
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

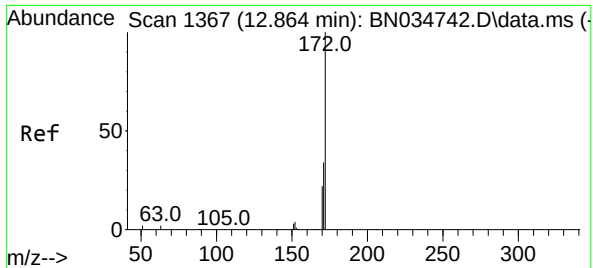
Tgt Ion:164 Resp: 13108
Ion Ratio Lower Upper
164 100
162 102.5 84.3 126.5
160 53.3 41.7 62.5



#14
2,4,6-Tribromophenol
Concen: 0.200 ng
RT: 15.716 min Scan# 1631
Delta R.T. -0.000 min
Lab File: BN034867.D
Acq: 05 Nov 2024 12:46

Tgt Ion:330 Resp: 1294
Ion Ratio Lower Upper
330 100
332 95.1 77.8 116.6
141 67.1 41.0 61.4#

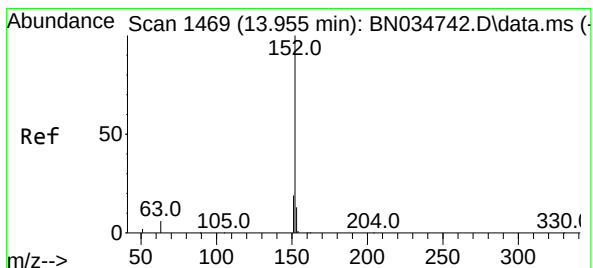
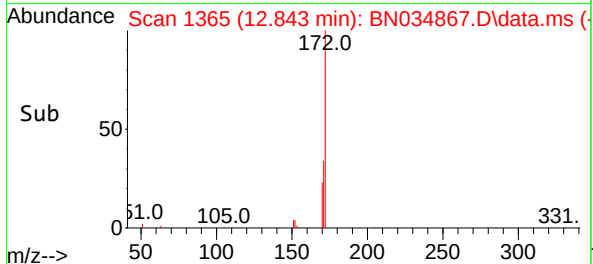
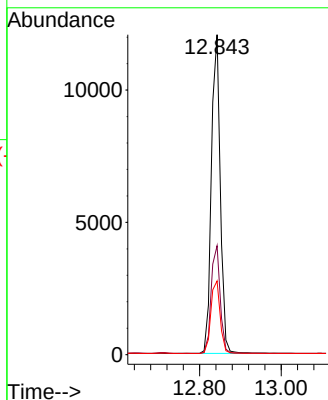
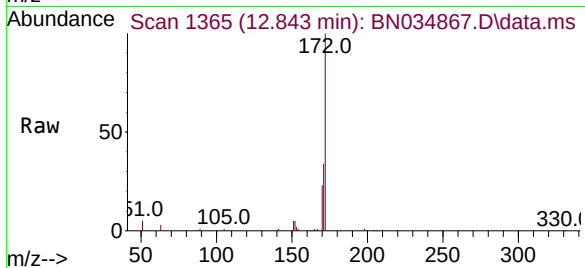




#15
2-Fluorobiphenyl
Concen: 0.353 ng
RT: 12.843 min Scan# 1365
Delta R.T. -0.000 min
Lab File: BN034867.D
Acq: 05 Nov 2024 12:46

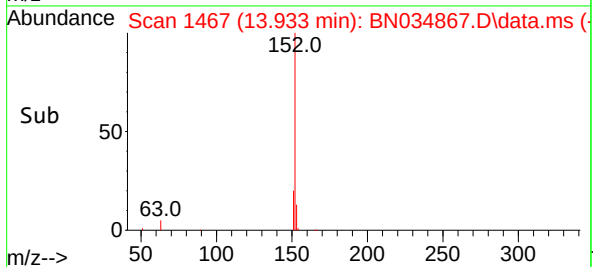
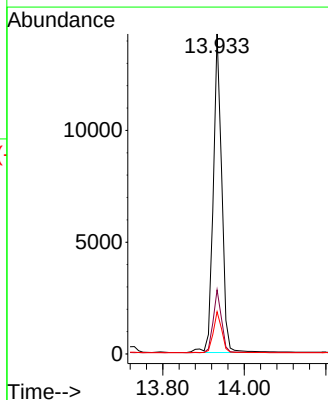
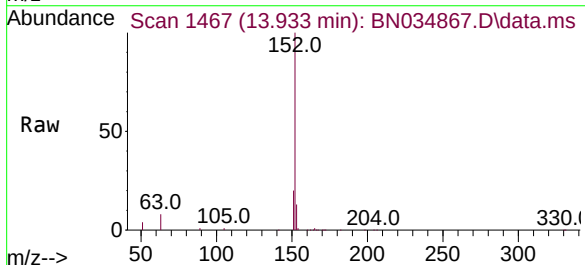
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

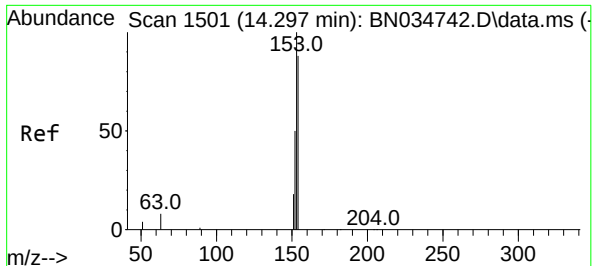
Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.1	27.2	40.8
170	23.0	18.0	27.0



#16
Acenaphthylene
Concen: 0.313 ng
RT: 13.933 min Scan# 1467
Delta R.T. -0.000 min
Lab File: BN034867.D
Acq: 05 Nov 2024 12:46

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.6	15.4	23.2
153	12.9	10.2	15.4

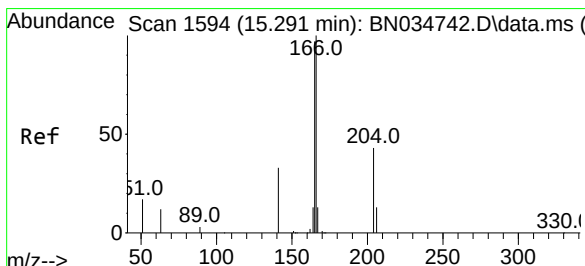
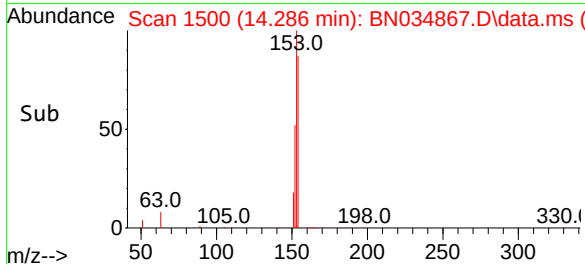
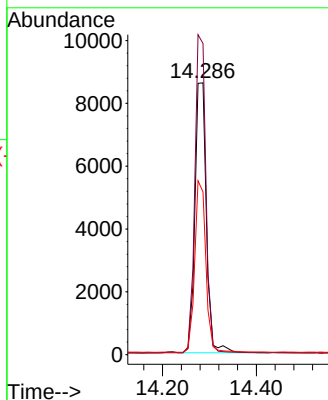
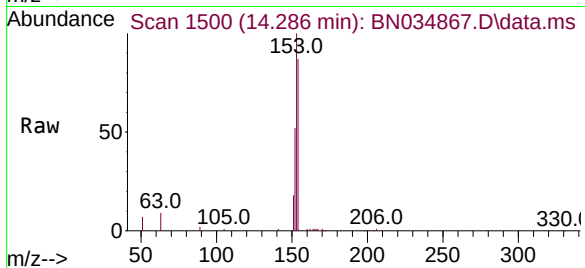




#17
Acenaphthene
Concen: 0.332 ng
RT: 14.286 min Scan# 1500
Delta R.T. -0.000 min
Lab File: BN034867.D
Acq: 05 Nov 2024 12:46

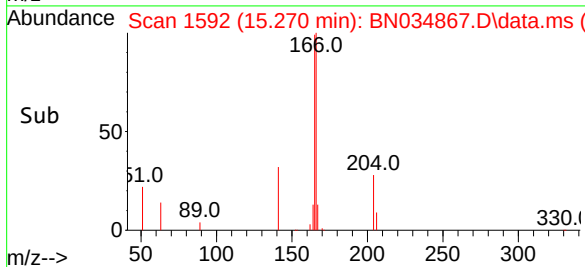
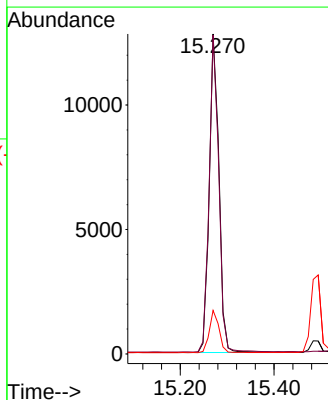
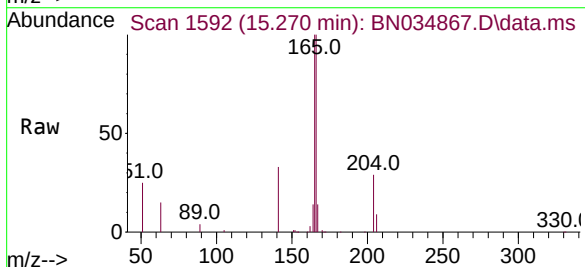
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

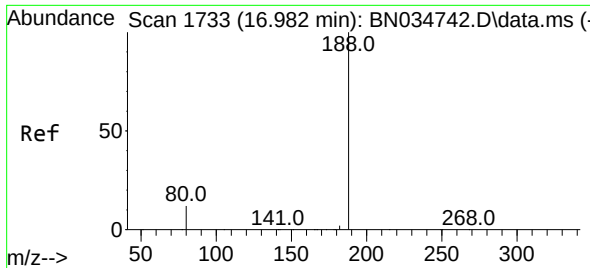
Tgt Ion:154 Resp: 14551
Ion Ratio Lower Upper
154 100
153 113.9 87.8 131.6
152 61.8 44.6 67.0



#18
Fluorene
Concen: 0.336 ng
RT: 15.270 min Scan# 1592
Delta R.T. -0.000 min
Lab File: BN034867.D
Acq: 05 Nov 2024 12:46

Tgt Ion:166 Resp: 18360
Ion Ratio Lower Upper
166 100
165 98.7 78.5 117.7
167 13.3 10.8 16.2

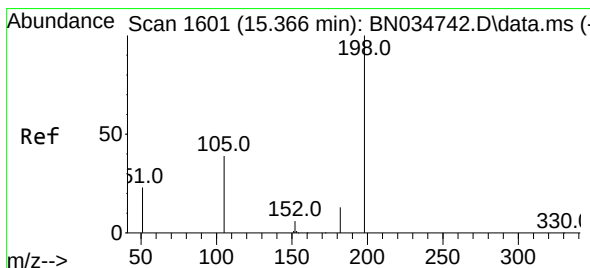
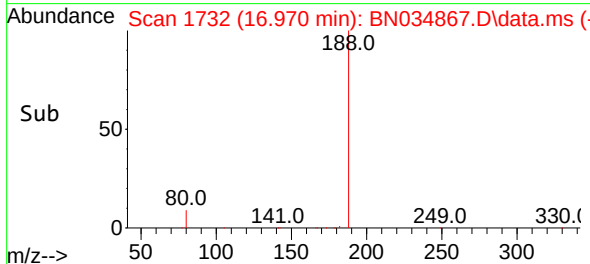
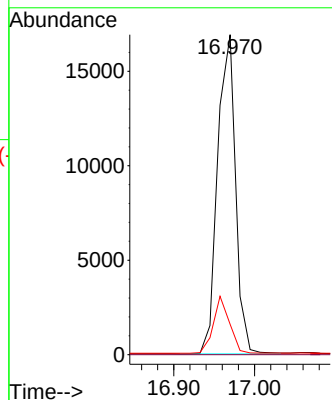
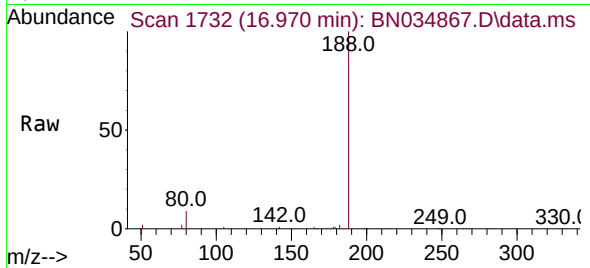




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.970 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN034867.D
Acq: 05 Nov 2024 12:46

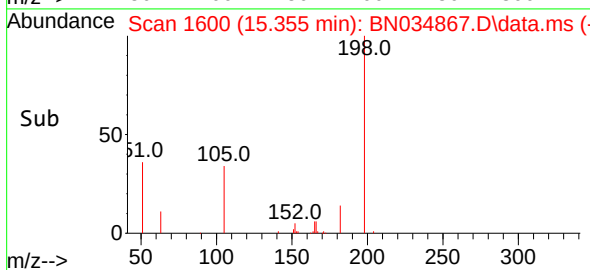
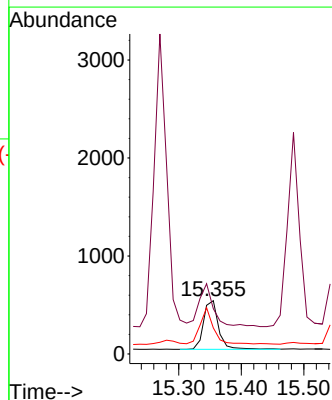
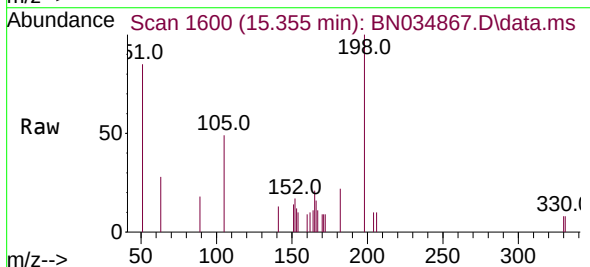
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

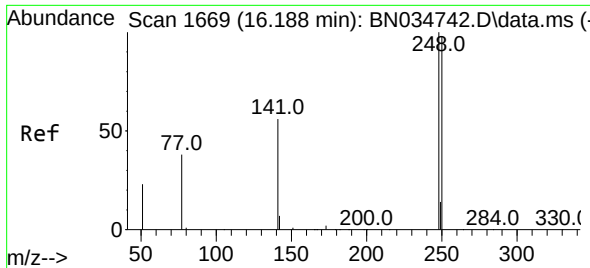
Tgt Ion:188 Resp: 26072
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 9.5 9.8 14.6#



#20
4,6-Dinitro-2-methylphenol
Concen: 0.344 ng
RT: 15.355 min Scan# 1600
Delta R.T. -0.000 min
Lab File: BN034867.D
Acq: 05 Nov 2024 12:46

Tgt Ion:198 Resp: 821
Ion Ratio Lower Upper
198 100
51 84.9 58.0 87.0
105 49.1 49.1 73.7#

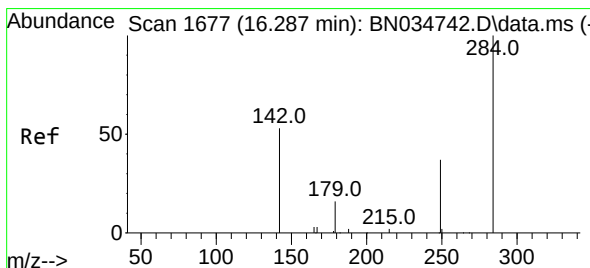
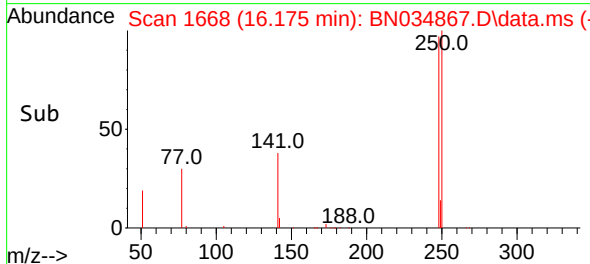
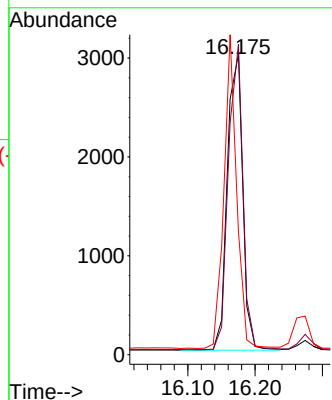
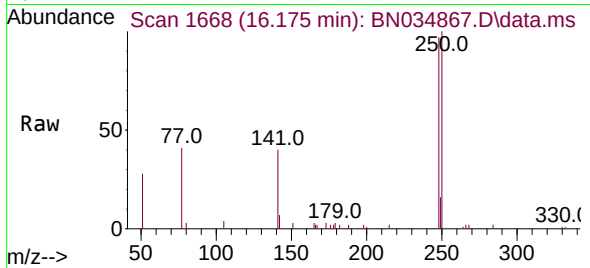




#21
4-Bromophenyl-phenylether
Concen: 0.315 ng
RT: 16.175 min Scan# 1668
Delta R.T. -0.000 min
Lab File: BN034867.D
Acq: 05 Nov 2024 12:46

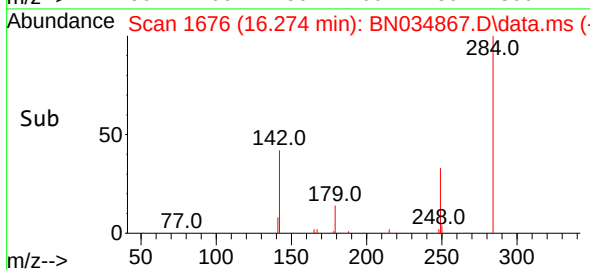
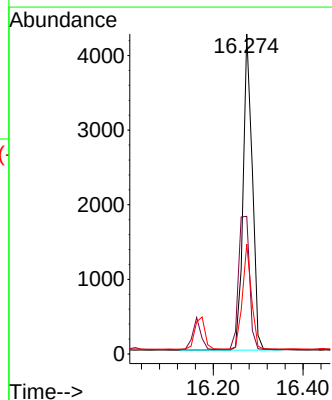
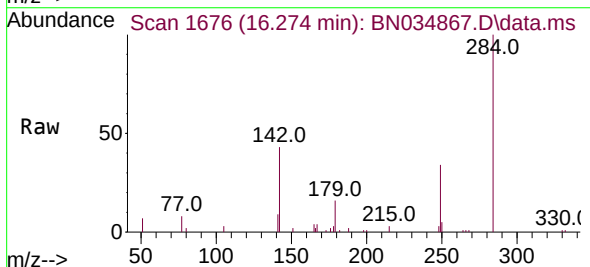
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

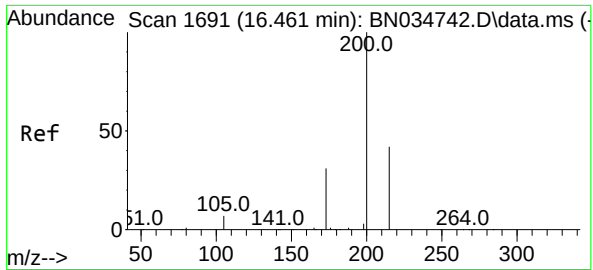
Tgt Ion:248 Resp: 4746
Ion Ratio Lower Upper
248 100
250 103.3 78.7 118.1
141 41.0 46.4 69.6#



#22
Hexachlorobenzene
Concen: 0.354 ng
RT: 16.274 min Scan# 1676
Delta R.T. -0.000 min
Lab File: BN034867.D
Acq: 05 Nov 2024 12:46

Tgt Ion:284 Resp: 5984
Ion Ratio Lower Upper
284 100
142 50.9 35.4 53.0
249 32.3 25.7 38.5

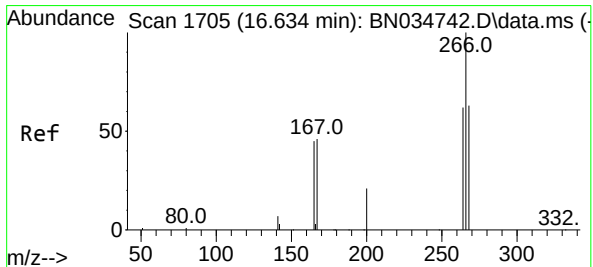
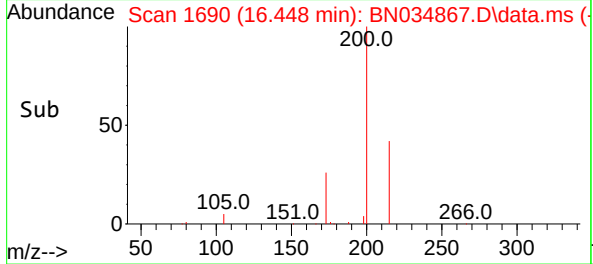
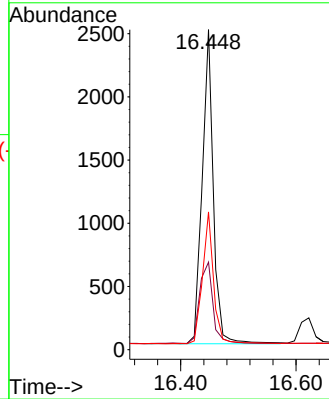
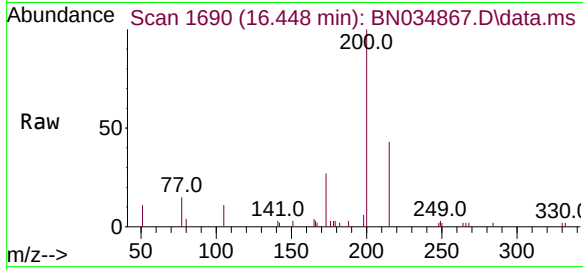




#23
Atrazine
Concen: 0.257 ng
RT: 16.448 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN034867.D
Acq: 05 Nov 2024 12:46

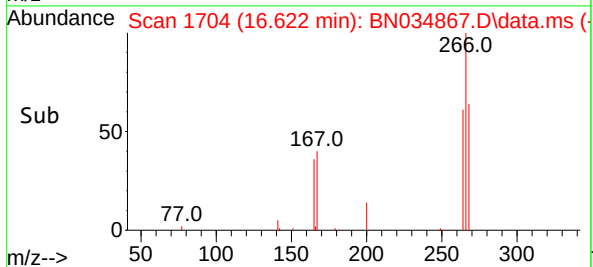
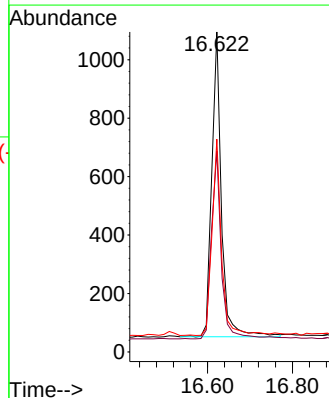
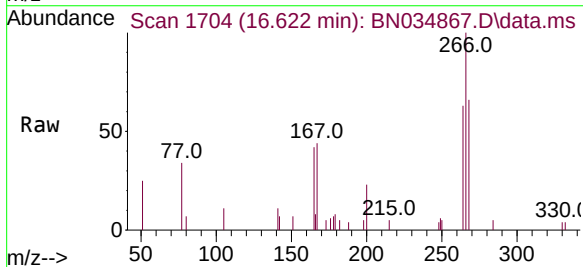
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

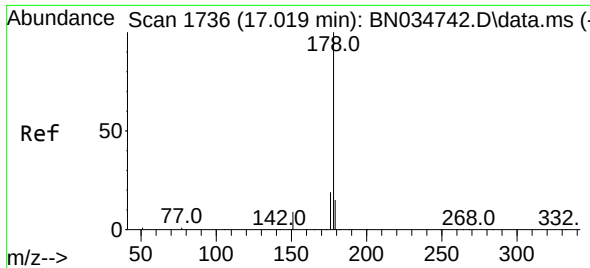
Tgt Ion	200	Resp:	3344
Ion Ratio	Lower	Upper	
200	100		
173	27.3	25.8	38.6
215	43.0	34.2	51.4



#24
Pentachlorophenol
Concen: 0.226 ng
RT: 16.622 min Scan# 1704
Delta R.T. -0.000 min
Lab File: BN034867.D
Acq: 05 Nov 2024 12:46

Tgt Ion	266	Resp:	1642
Ion Ratio	Lower	Upper	
266	100		
264	63.5	48.7	73.1
268	63.5	50.2	75.4

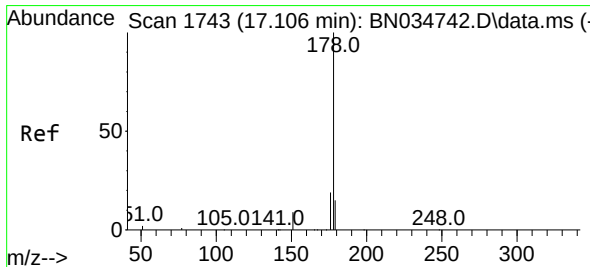
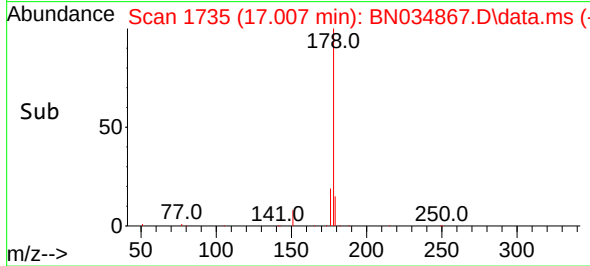
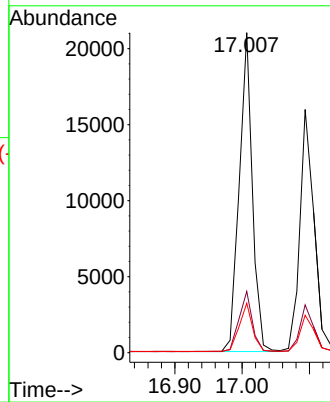
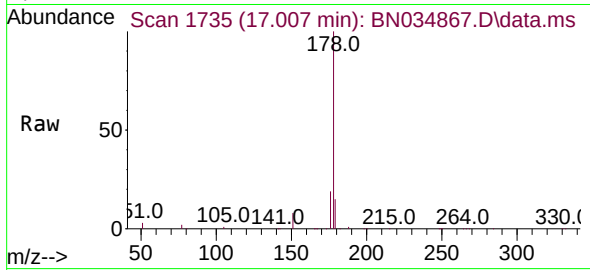




#25
Phenanthrene
Concen: 0.371 ng
RT: 17.007 min Scan# 1742
Delta R.T. -0.000 min
Lab File: BN034867.D
Acq: 05 Nov 2024 12:46

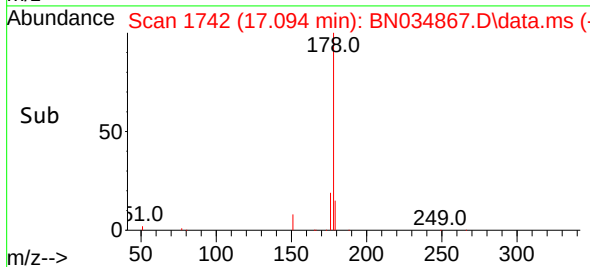
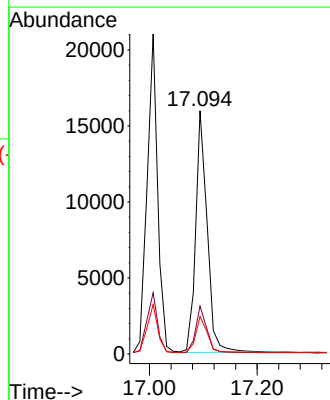
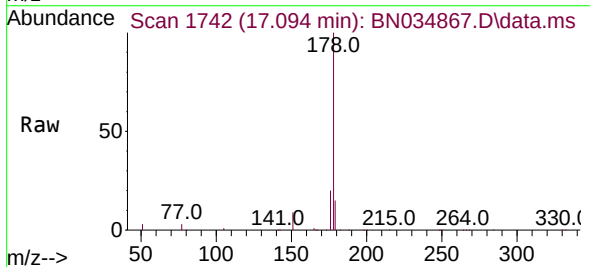
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

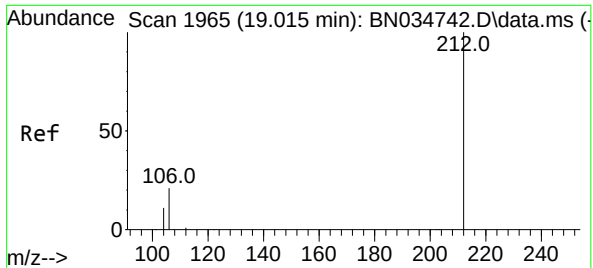
Tgt Ion:178 Resp: 28464
Ion Ratio Lower Upper
178 100
176 19.1 15.4 23.0
179 15.3 12.2 18.4



#26
Anthracene
Concen: 0.330 ng
RT: 17.094 min Scan# 1742
Delta R.T. -0.000 min
Lab File: BN034867.D
Acq: 05 Nov 2024 12:46

Tgt Ion:178 Resp: 23674
Ion Ratio Lower Upper
178 100
176 18.9 15.0 22.6
179 15.2 12.2 18.2

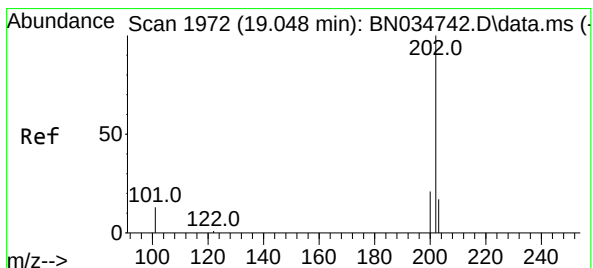
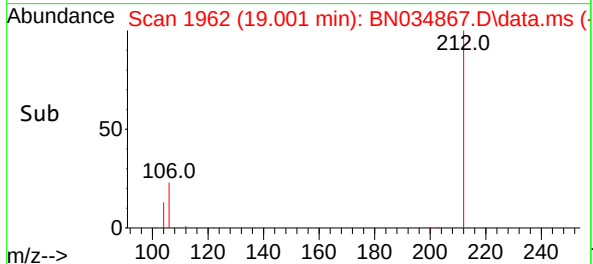
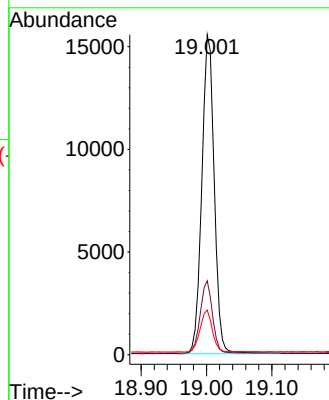
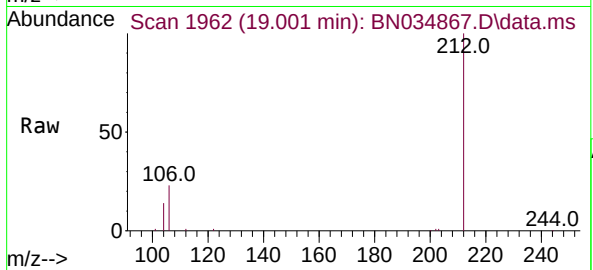




#27
Fluoranthene-d10
Concen: 0.335 ng
RT: 19.001 min Scan# 1969
Delta R.T. -0.000 min
Lab File: BN034867.D
Acq: 05 Nov 2024 12:46

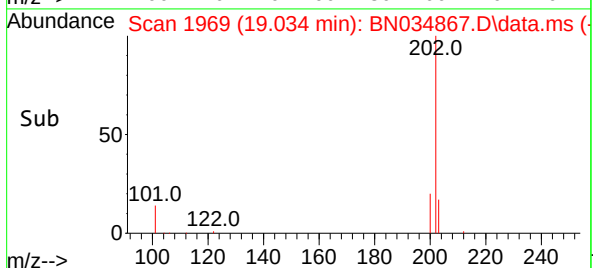
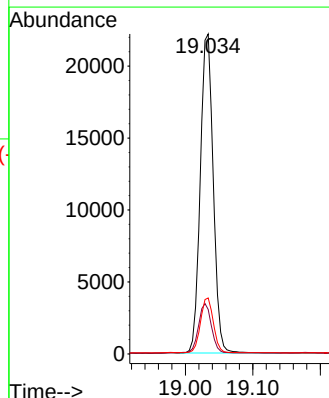
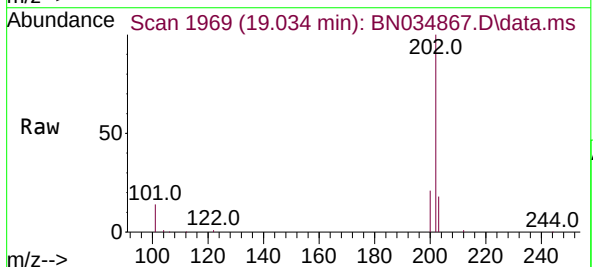
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

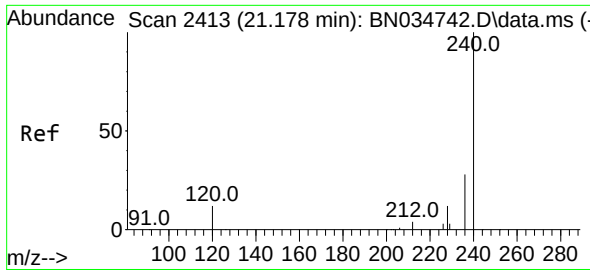
Tgt Ion	Ratio	Lower	Upper
212	100		
106	22.2	16.1	24.1
104	12.9	9.2	13.8



#28
Fluoranthene
Concen: 0.349 ng
RT: 19.034 min Scan# 1969
Delta R.T. -0.000 min
Lab File: BN034867.D
Acq: 05 Nov 2024 12:46

Tgt Ion	Ratio	Lower	Upper
202	100		
101	15.7	11.4	17.0
203	17.1	13.7	20.5

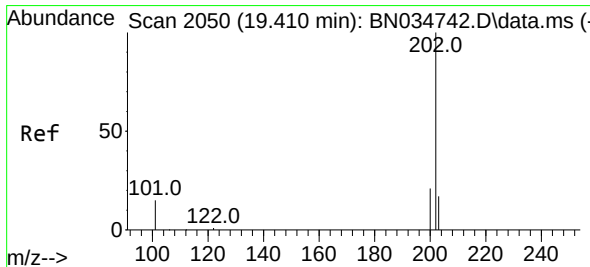
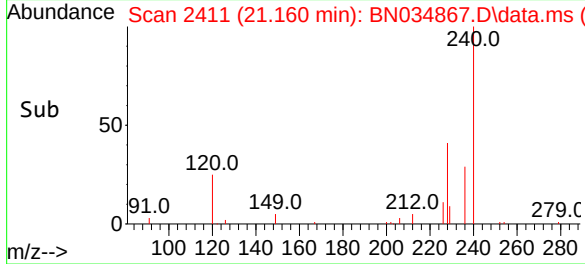
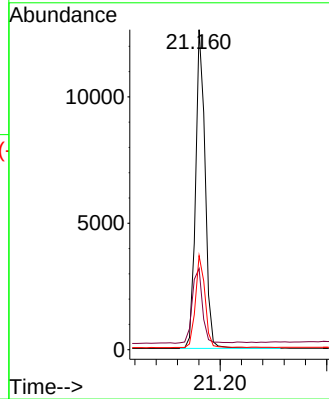
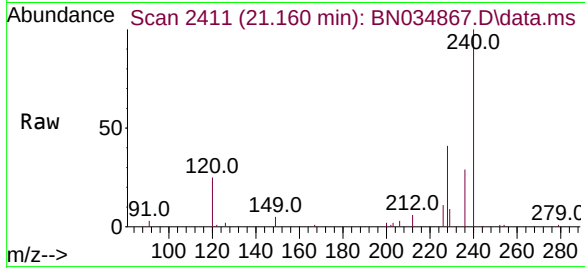




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.160 min Scan# 2411
Delta R.T. -0.000 min
Lab File: BN034867.D
Acq: 05 Nov 2024 12:46

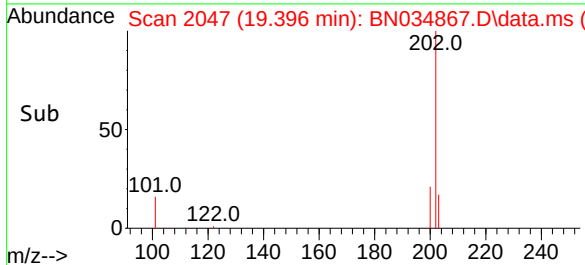
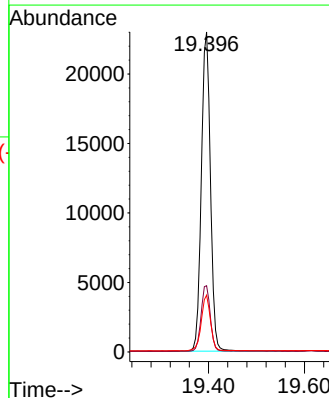
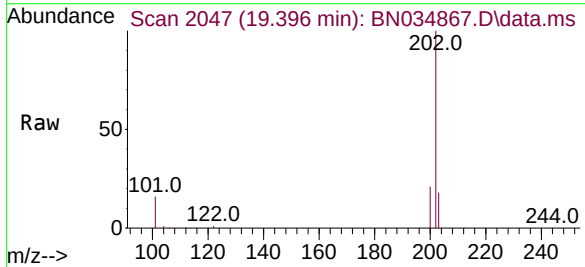
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

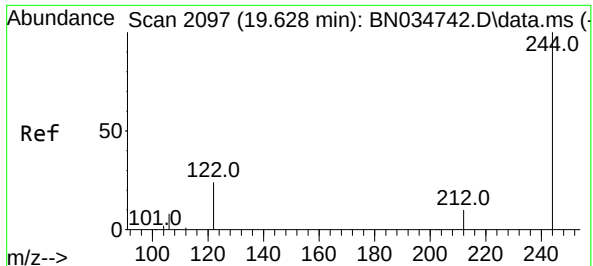
Tgt Ion:240 Resp: 15730
Ion Ratio Lower Upper
240 100
120 25.3 11.5 17.3#
236 29.4 23.2 34.8



#30
Pyrene
Concen: 0.367 ng
RT: 19.396 min Scan# 2047
Delta R.T. -0.000 min
Lab File: BN034867.D
Acq: 05 Nov 2024 12:46

Tgt Ion:202 Resp: 30219
Ion Ratio Lower Upper
202 100
200 20.9 17.0 25.4
203 17.7 14.2 21.2

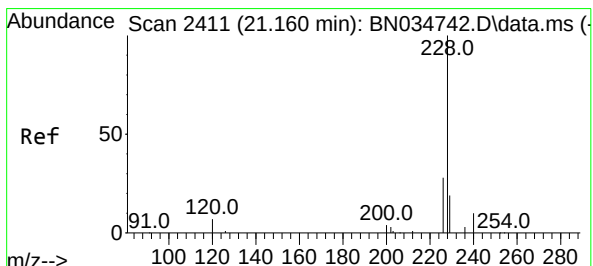
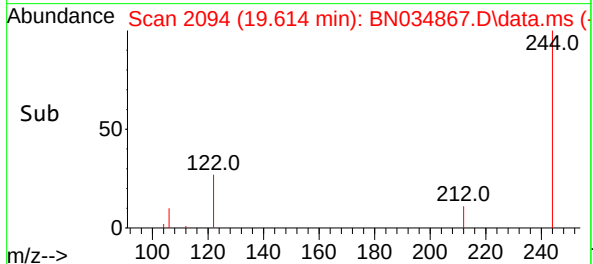
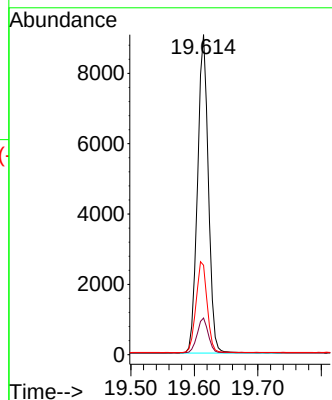
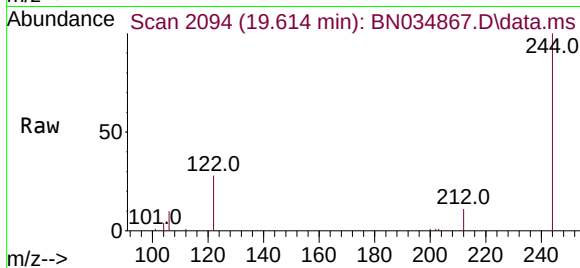




#31
Terphenyl-d14
Concen: 0.317 ng
RT: 19.614 min Scan# 2094
Delta R.T. -0.000 min
Lab File: BN034867.D
Acq: 05 Nov 2024 12:46

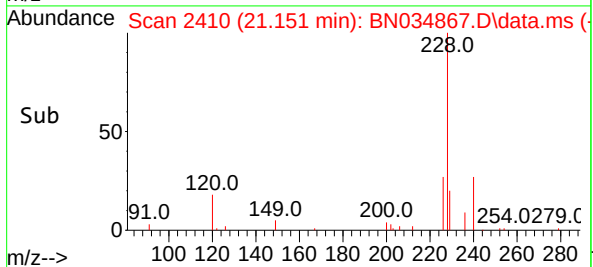
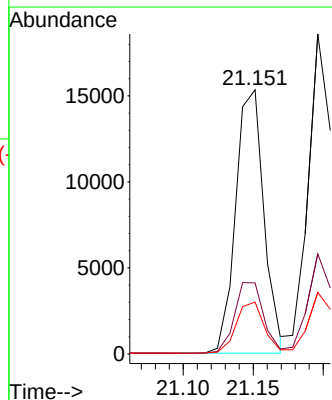
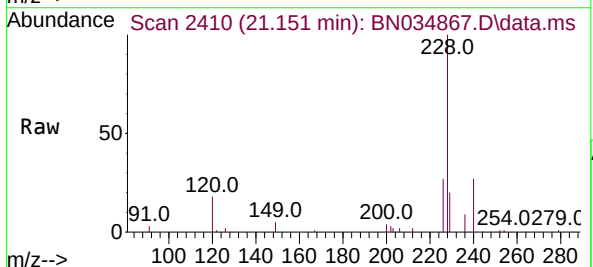
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

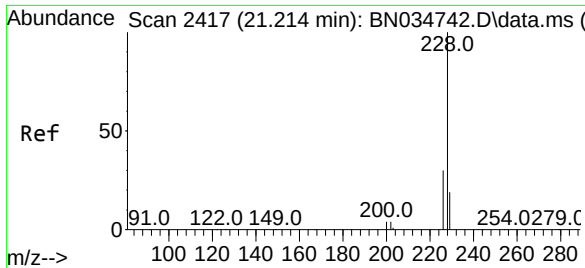
Tgt Ion	Ratio	Lower	Upper
244	100		
212	11.4	8.2	12.4
122	27.9	19.8	29.6



#32
Benzo(a)anthracene
Concen: 0.343 ng
RT: 21.151 min Scan# 2410
Delta R.T. 0.009 min
Lab File: BN034867.D
Acq: 05 Nov 2024 12:46

Tgt Ion	Ratio	Lower	Upper
228	100		
226	26.9	22.6	33.8
229	19.7	15.7	23.5





#33

Chrysene

Concen: 0.380 ng

RT: 21.196 min Scan# 2415

Delta R.T. -0.000 min

Lab File: BN034867.D

Acq: 05 Nov 2024 12:46

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

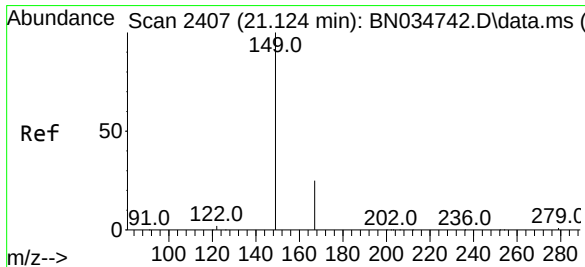
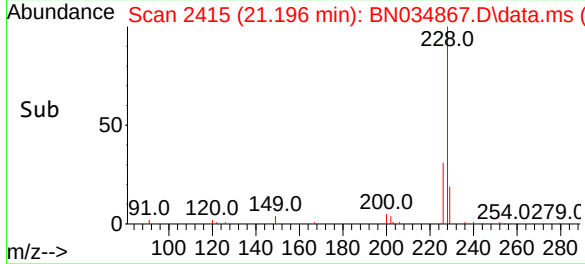
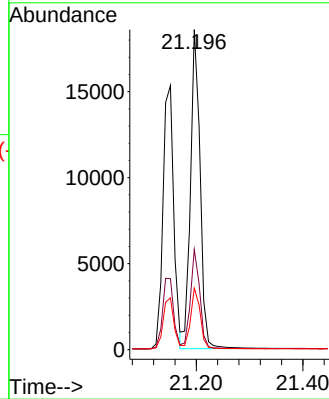
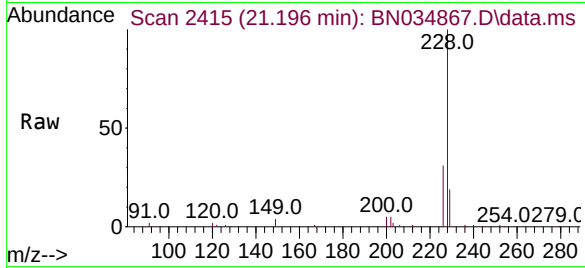
Tgt Ion:228 Resp: 23280

Ion Ratio Lower Upper

228 100

226 31.3 24.4 36.6

229 19.3 15.6 23.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.265 ng

RT: 21.107 min Scan# 2405

Delta R.T. -0.000 min

Lab File: BN034867.D

Acq: 05 Nov 2024 12:46

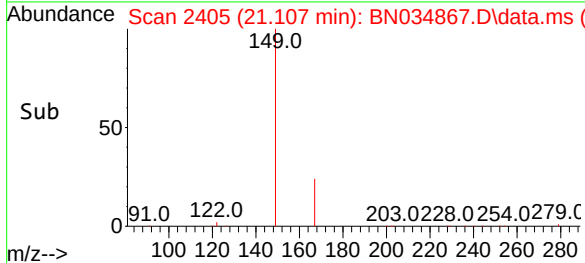
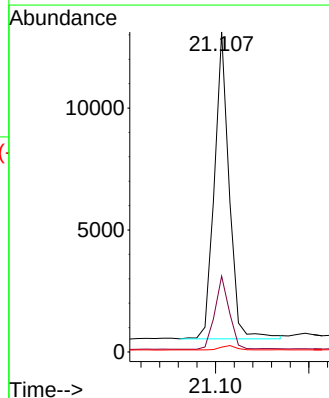
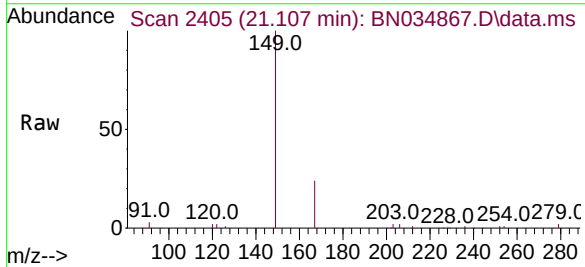
Tgt Ion:149 Resp: 13851

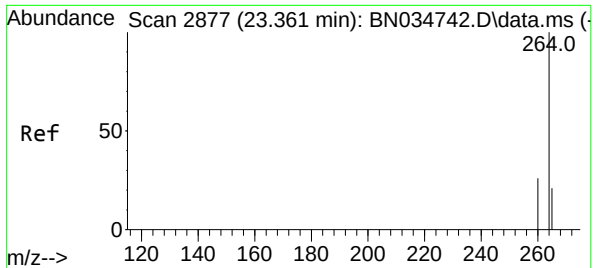
Ion Ratio Lower Upper

149 100

167 23.1 20.6 30.8

279 1.5 1.5 2.3#

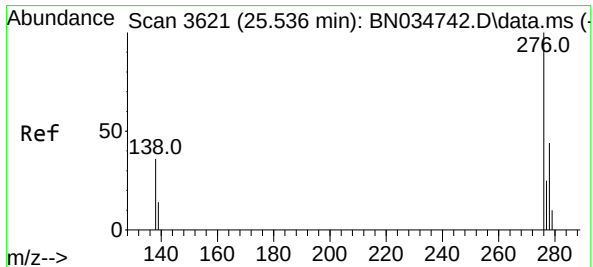
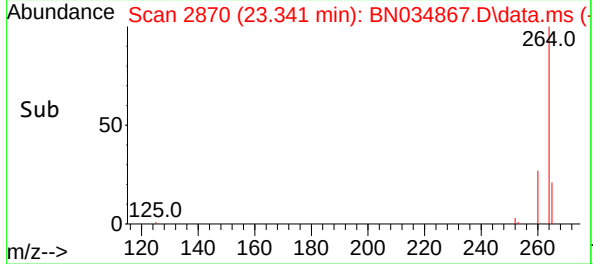
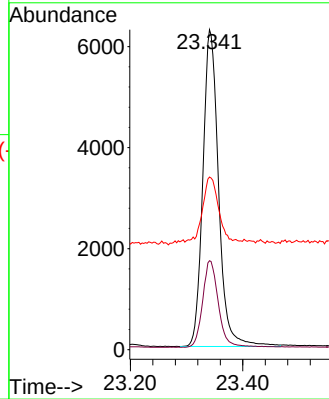
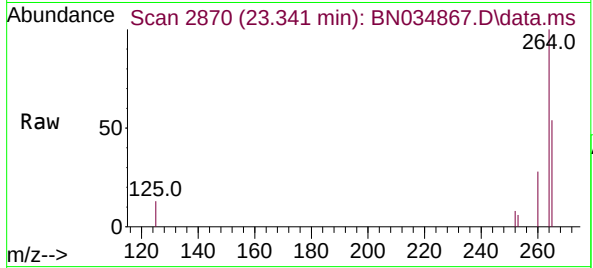




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.341 min Scan# 21
Delta R.T. 0.006 min
Lab File: BN034867.D
Acq: 05 Nov 2024 12:46

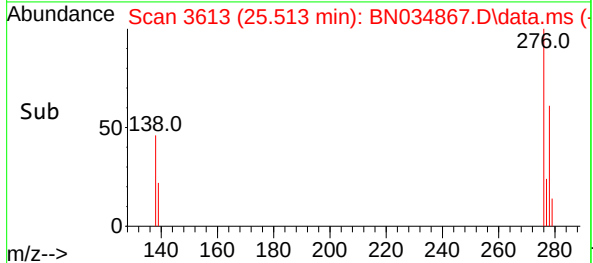
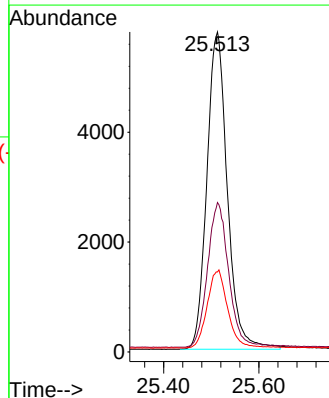
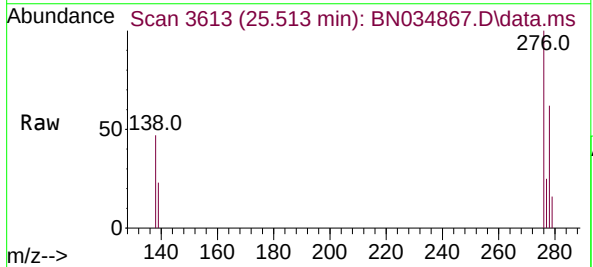
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

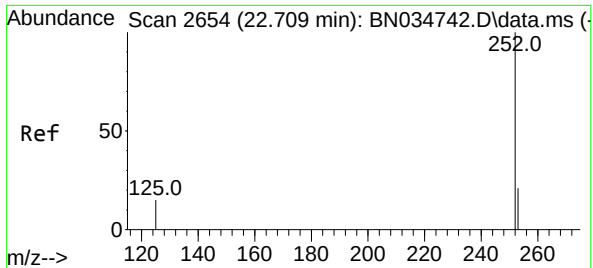
Tgt Ion:264 Resp: 12206
Ion Ratio Lower Upper
264 100
260 27.8 21.5 32.3
265 53.9 47.5 71.3



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.384 ng
RT: 25.513 min Scan# 3613
Delta R.T. 0.009 min
Lab File: BN034867.D
Acq: 05 Nov 2024 12:46

Tgt Ion:276 Resp: 17256
Ion Ratio Lower Upper
276 100
138 46.8 31.5 47.3
277 24.8 19.7 29.5





#37

Benzo(b)fluoranthene

Concen: 0.396 ng

RT: 22.695 min Scan# 20

Delta R.T. 0.006 min

Lab File: BN034867.D

Acq: 05 Nov 2024 12:46

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

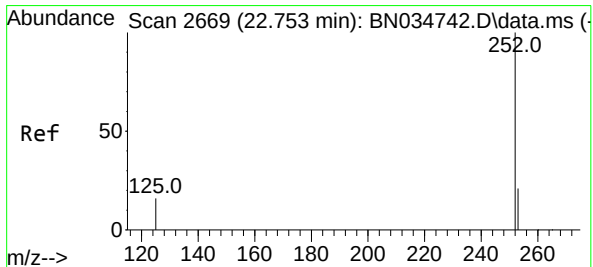
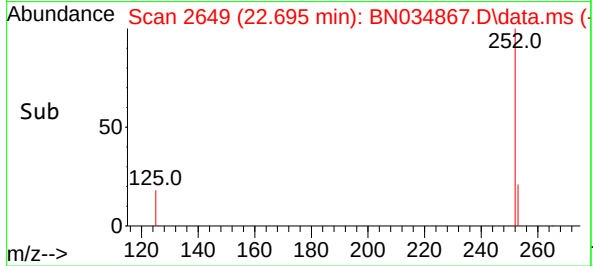
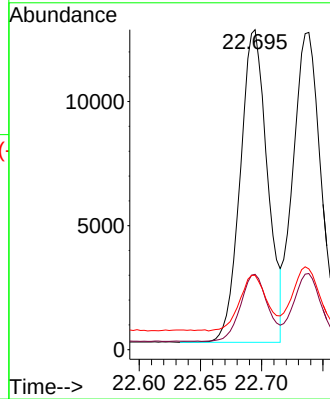
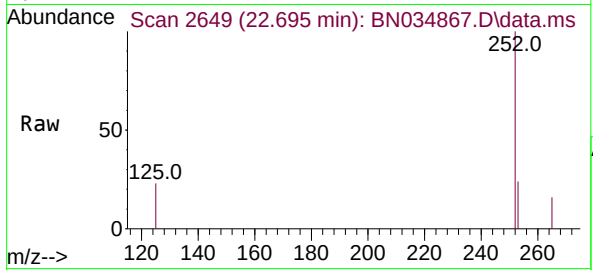
Tgt Ion:252 Resp: 19455

Ion Ratio Lower Upper

252 100

253 23.6 19.7 29.5

125 23.3 17.1 25.7



#38

Benzo(k)fluoranthene

Concen: 0.412 ng

RT: 22.738 min Scan# 2664

Delta R.T. 0.009 min

Lab File: BN034867.D

Acq: 05 Nov 2024 12:46

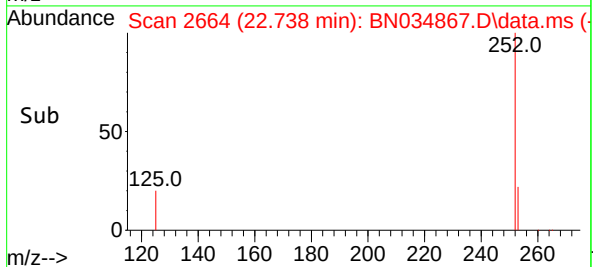
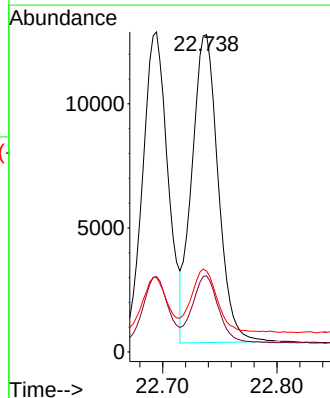
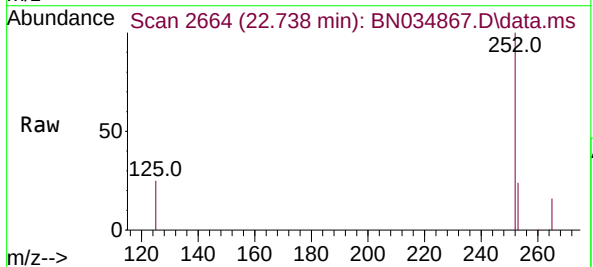
Tgt Ion:252 Resp: 19778

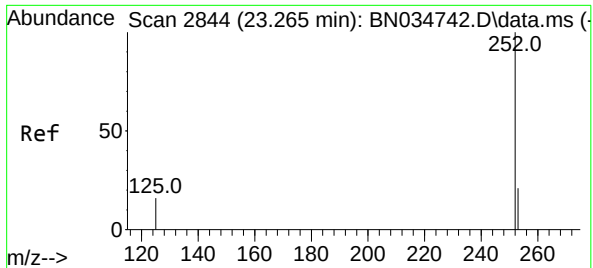
Ion Ratio Lower Upper

252 100

253 24.0 19.8 29.6

125 25.5 18.2 27.2





#39

Benzo(a)pyrene

Concen: 0.349 ng

RT: 23.247 min Scan# 21

Delta R.T. 0.006 min

Lab File: BN034867.D

Acq: 05 Nov 2024 12:46

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

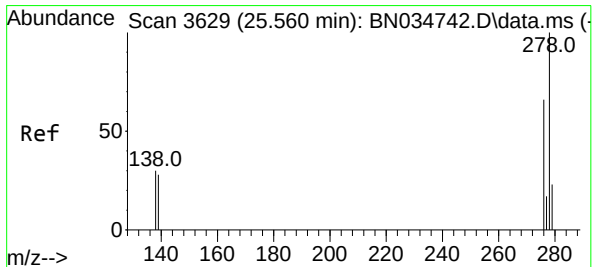
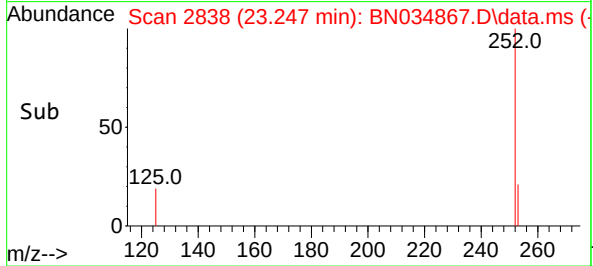
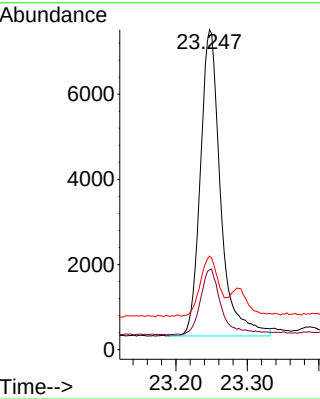
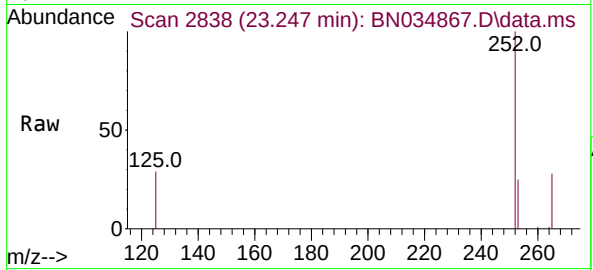
Tgt Ion:252 Resp: 14166

Ion Ratio Lower Upper

252 100

253 25.0 20.7 31.1

125 29.2 20.3 30.5



#40

Dibenzo(a,h)anthracene

Concen: 0.376 ng

RT: 25.525 min Scan# 3617

Delta R.T. -0.000 min

Lab File: BN034867.D

Acq: 05 Nov 2024 12:46

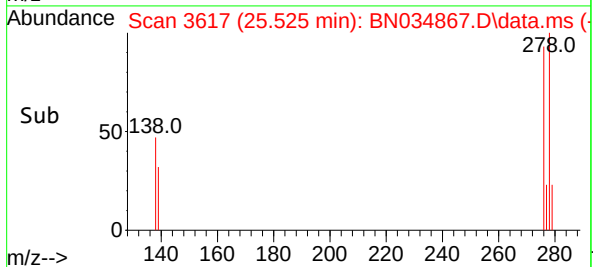
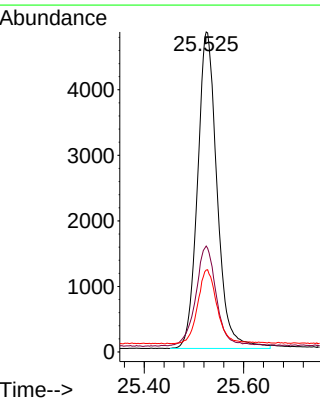
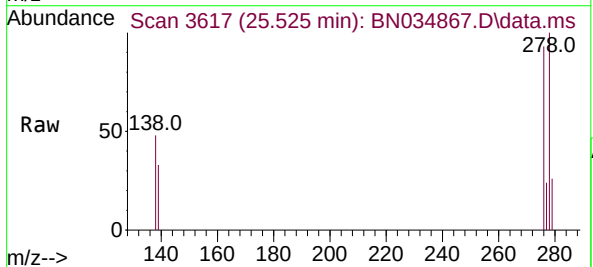
Tgt Ion:278 Resp: 13179

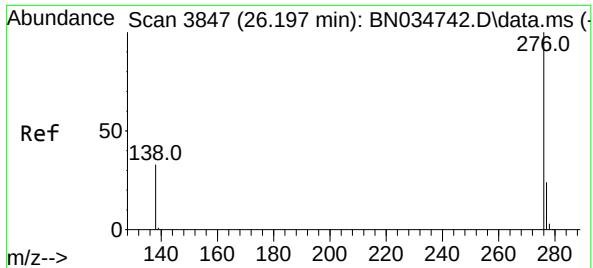
Ion Ratio Lower Upper

278 100

139 33.1 24.9 37.3

279 25.6 21.0 31.4





#41

Benzo(g,h,i)perylene

Concen: 0.376 ng

RT: 26.165 min Scan# 3836

Delta R.T. -0.000 min

Lab File: BN034867.D

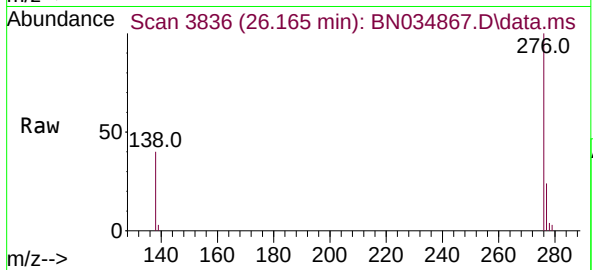
Acq: 05 Nov 2024 12:46

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



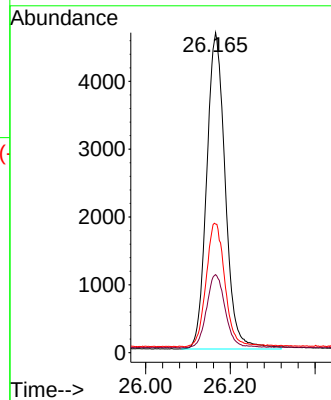
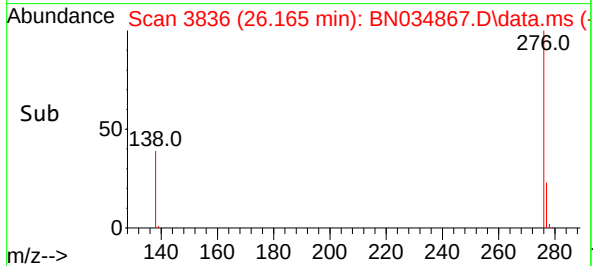
Tgt Ion:276 Resp: 14224

Ion Ratio Lower Upper

276 100

277 24.4 20.2 30.2

138 40.2 28.7 43.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110524\
Data File : BN034867.D
Acq On : 05 Nov 2024 12:46
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Nov 05 13:57:40 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 05 00:03:28 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	106	0.00
2	1,4-Dioxane	0.439	0.427	2.7	111	0.00
3	n-Nitrosodimethylamine	0.494	0.619	-25.3#	150	0.00
4 S	2-Fluorophenol	1.212	0.999	17.6	96	0.00
5 S	Phenol-d6	1.574	1.370	13.0	103	0.00
6	bis(2-Chloroethyl)ether	1.149	1.170	-1.8	117	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	109	0.00
8 S	Nitrobenzene-d5	0.314	0.275	12.4	108	-0.01
9	Naphthalene	1.106	1.003	9.3	110	0.00
10	Hexachlorobutadiene	0.182	0.161	11.5	106	0.00
11 SURR	2-Methylnaphthalene-d10	0.579	0.483	16.6	102	0.00
12	2-Methylnaphthalene	0.723	0.606	16.2	102	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	96	0.00
14 S	2,4,6-Tribromophenol	0.198	0.099	50.0#	60	0.00
15 S	2-Fluorobiphenyl	1.575	1.390	11.7	98	0.00
16	Acenaphthylene	2.007	1.573	21.6	90	0.00
17	Acenaphthene	1.337	1.110	17.0	94	0.00
18	Fluorene	1.667	1.401	16.0	93	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	94	0.00
20	4,6-Dinitro-2-methylphenol	0.059	0.031	47.5#	66	0.00
21	4-Bromophenyl-phenylether	0.231	0.182	21.2	81	0.00
22	Hexachlorobenzene	0.259	0.230	11.2	90	0.00
23	Atrazine	0.199	0.128	35.7#	67	0.00
24	Pentachlorophenol	0.112	0.063	43.8#	65	0.00
25	Phenanthrene	1.176	1.092	7.1	95	0.00
26	Anthracene	1.101	0.908	17.5	86	0.00
27 SURR	Fluoranthene-d10	0.938	0.785	16.3	86	0.00
28	Fluoranthene	1.297	1.130	12.9	90	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	91	0.00
30	Pyrene	2.091	1.921	8.1	91	0.00
31 S	Terphenyl-d14	0.859	0.680	20.8	78	0.00
32	Benzo(a)anthracene	1.592	1.365	14.3	88	0.00
33	Chrysene	1.559	1.480	5.1	96	0.00
34	Bis(2-ethylhexyl)phthalate	1.331	0.881	33.8#	62	0.00
35 I	Perylene-d12	1.000	1.000	0.0	83	0.00
36	Indeno(1,2,3-cd)pyrene	1.471	1.414	3.9	88	0.00
37	Benzo(b)fluoranthene	1.610	1.594	1.0	91	0.00
38	Benzo(k)fluoranthene	1.571	1.620	-3.1	97	0.00
39 C	Benzo(a)pyrene	1.329	1.161	12.6	82	0.00
40	Dibenzo(a,h)anthracene	1.147	1.080	5.8	87	0.00
41	Benzo(g,h,i)perylene	1.240	1.165	6.0	85	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110524\
Data File : BN034867.D
Acq On : 05 Nov 2024 12:46
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Nov 05 13:57:40 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 05 00:03:28 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	106	0.00
2	1,4-Dioxane	0.400	0.389	2.8	111	0.00
3	n-Nitrosodimethylamine	0.400	0.501	-25.2#	150	0.00
4 S	2-Fluorophenol	0.400	0.330	17.5	96	0.00
5 S	Phenol-d6	0.400	0.348	13.0	103	0.00
6	bis(2-Chloroethyl)ether	0.400	0.407	-1.7	117	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	109	0.00
8 S	Nitrobenzene-d5	0.400	0.350	12.5	108	-0.01
9	Naphthalene	0.400	0.363	9.3	110	0.00
10	Hexachlorobutadiene	0.400	0.353	11.8	106	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.334	16.5	102	0.00
12	2-Methylnaphthalene	0.400	0.335	16.3	102	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	96	0.00
14 S	2,4,6-Tribromophenol	0.400	0.200	50.0#	60	0.00
15 S	2-Fluorobiphenyl	0.400	0.353	11.8	98	0.00
16	Acenaphthylene	0.400	0.313	21.8	90	0.00
17	Acenaphthene	0.400	0.332	17.0	94	0.00
18	Fluorene	0.400	0.336	16.0	93	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	94	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.344	14.0	66	0.00
21	4-Bromophenyl-phenylether	0.400	0.315	21.3	81	0.00
22	Hexachlorobenzene	0.400	0.354	11.5	90	0.00
23	Atrazine	0.400	0.257	35.8#	67	0.00
24	Pentachlorophenol	0.400	0.226	43.5#	65	0.00
25	Phenanthrene	0.400	0.371	7.3	95	0.00
26	Anthracene	0.400	0.330	17.5	86	0.00
27 SURR	Fluoranthene-d10	0.400	0.335	16.3	86	0.00
28	Fluoranthene	0.400	0.349	12.8	90	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	91	0.00
30	Pyrene	0.400	0.367	8.3	91	0.00
31 S	Terphenyl-d14	0.400	0.317	20.8	78	0.00
32	Benzo(a)anthracene	0.400	0.343	14.2	88	0.00
33	Chrysene	0.400	0.380	5.0	96	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.265	33.8#	62	0.00
35 I	Perylene-d12	0.400	0.400	0.0	83	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.384	4.0	88	0.00
37	Benzo(b)fluoranthene	0.400	0.396	1.0	91	0.00
38	Benzo(k)fluoranthene	0.400	0.412	-3.0	97	0.00
39 C	Benzo(a)pyrene	0.400	0.349	12.8	82	0.00
40	Dibenzo(a,h)anthracene	0.400	0.376	6.0	87	0.00
41	Benzo(g,h,i)perylene	0.400	0.376	6.0	85	0.00

(#) = Out of Range

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



QC SAMPLE DATA

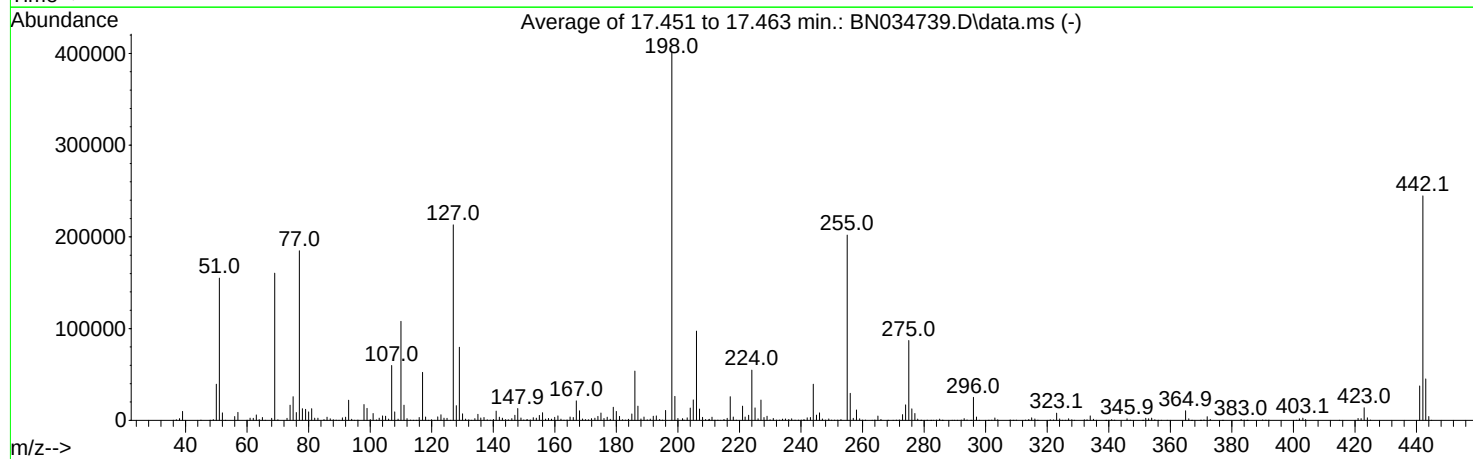
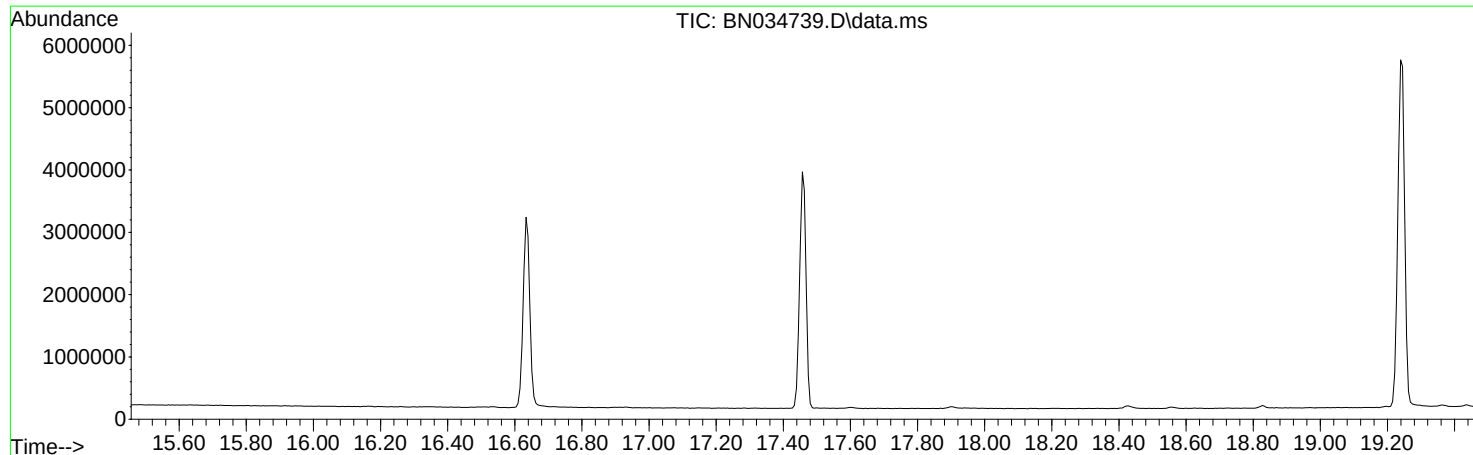
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN103024\
Data File : BN034739.D
Acq On : 30 Oct 2024 08:41
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-BN103024.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Oct 30 13:28:24 2024



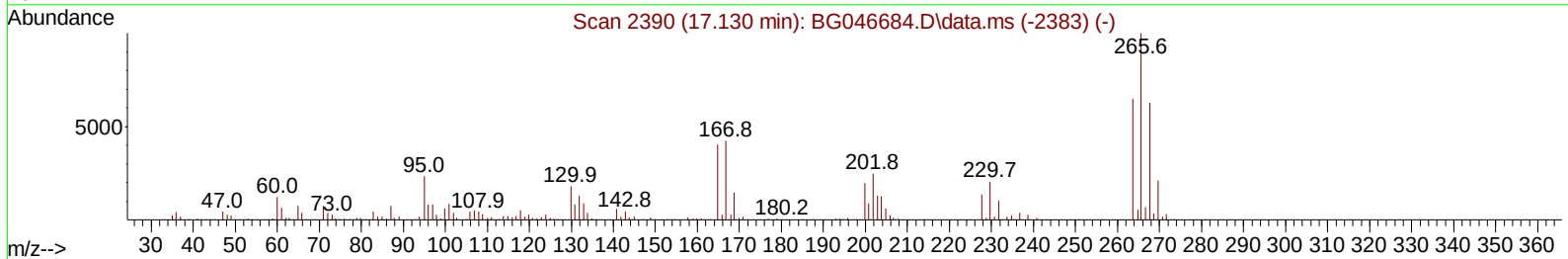
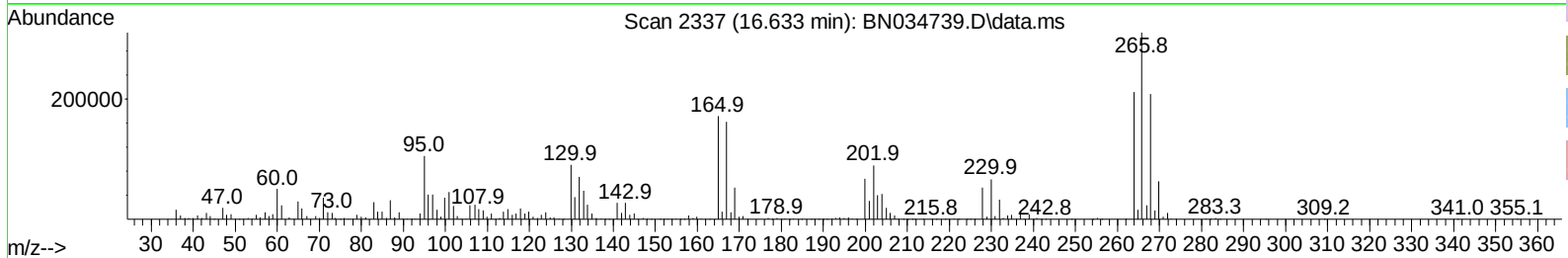
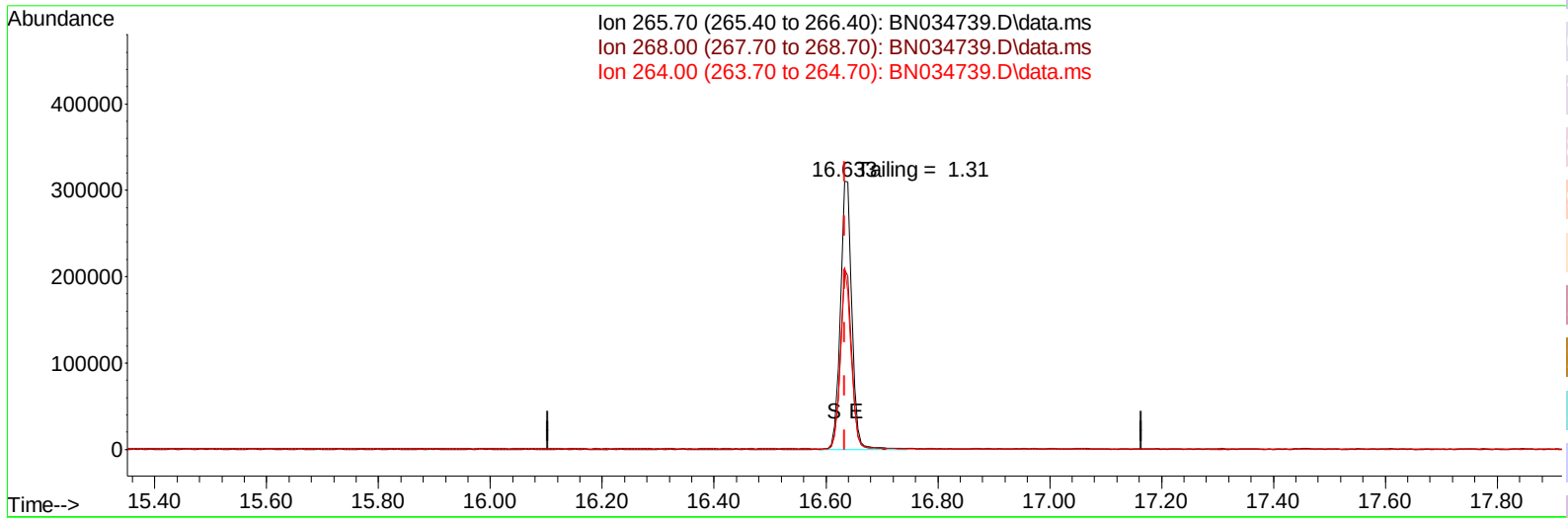
AutoFind: Scans 2476, 2477, 2478; Background Corrected with Scan 2468

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	38.7	155112	PASS
68	69	0.00	2	1.4	2270	PASS
69	198	0.00	100	40.0	160508	PASS
70	69	0.00	2	0.4	626	PASS
127	198	10	80	53.2	213181	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	401024	PASS
199	198	5	9	6.5	26222	PASS
275	198	10	60	21.7	87027	PASS
365	198	1	100	2.6	10522	PASS
441	198	0.01	100	9.4	37536	PASS
442	442	50	100	100.0	244821	PASS
443	442	15	24	18.5	45208	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN103024\
Data File : BN034739.D
Acq On : 30 Oct 2024 08:41
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Nov 04 06:42:49 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 04 06:42:45 2024
Response via : Initial Calibration



TIC: BN034739.D\data.ms

(70) Pentachlorophenol (C)

16.633min (0.000) 23615.75 ng

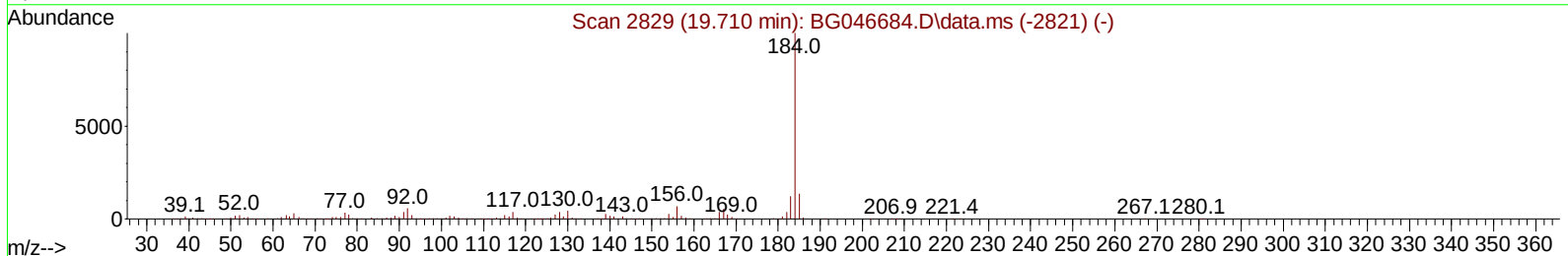
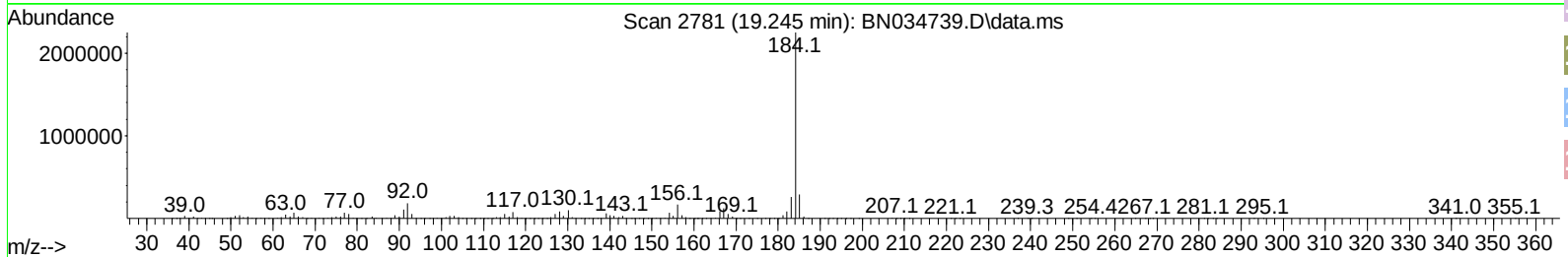
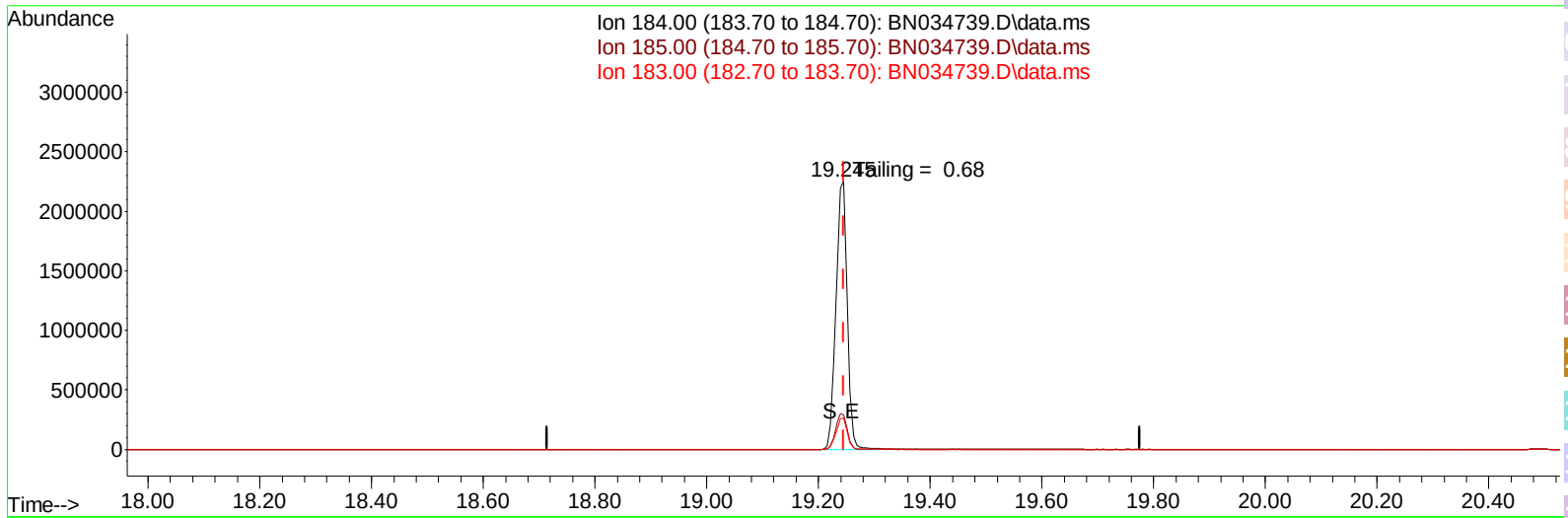
response 445905

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	66.99
264.00	61.60	68.12
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN103024\
Data File : BN034739.D
Acq On : 30 Oct 2024 08:41
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Nov 04 06:42:49 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 04 06:42:45 2024
Response via : Initial Calibration



TIC: BN034739.D\data.ms

(77) Benzidine**19.245min (0.000) 766500.86 ng****response 3189736**

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	12.97
183.00	13.20	11.61
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

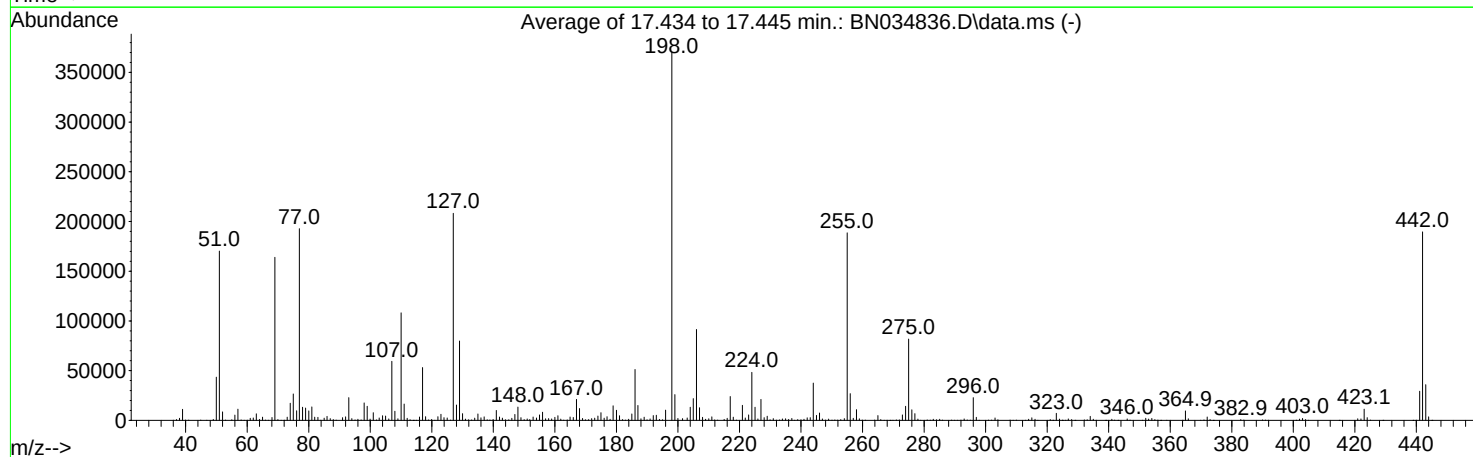
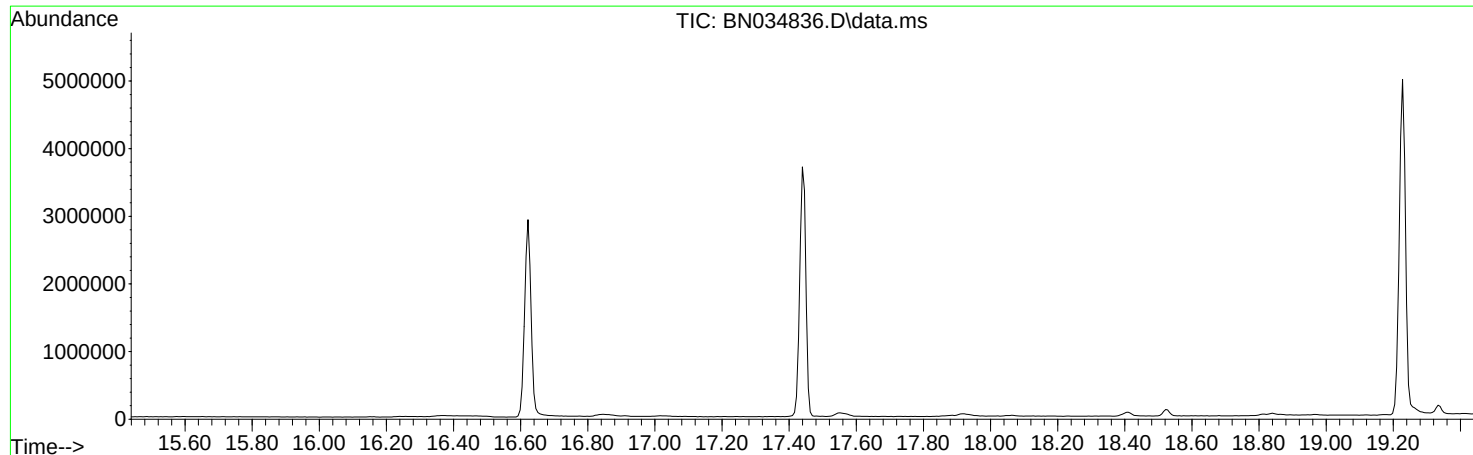
Date	Instrument Name	DFTPP Data File
10/30/2024	BNA_N	<u>BN034739.D</u>
Compound Name	Response	Retention Time
DDT	1360651	20.492
DDD	28684	20.098
DDE	0	19.569
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
28684	1389335	2.06

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110424\
Data File : BN034836.D
Acq On : 04 Nov 2024 09:30
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-BN103024.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Nov 05 00:03:28 2024



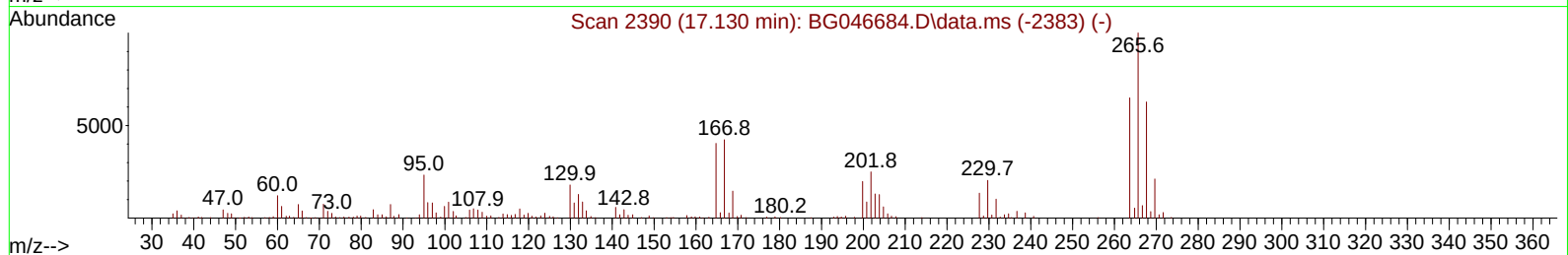
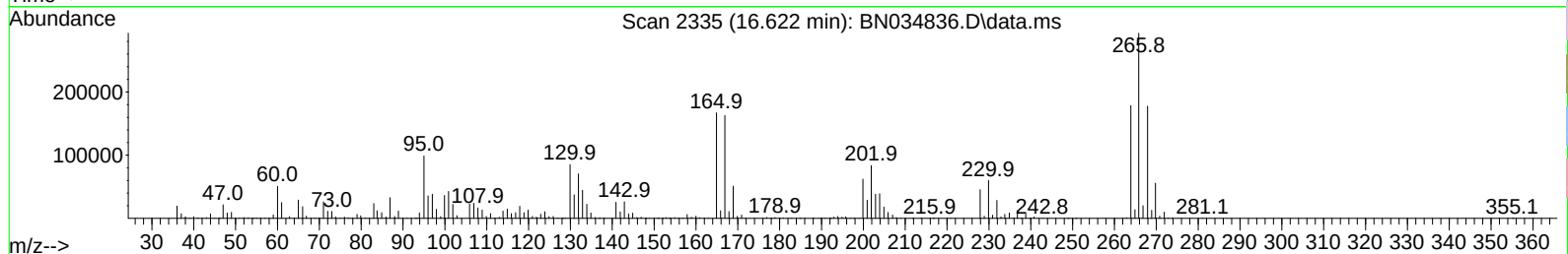
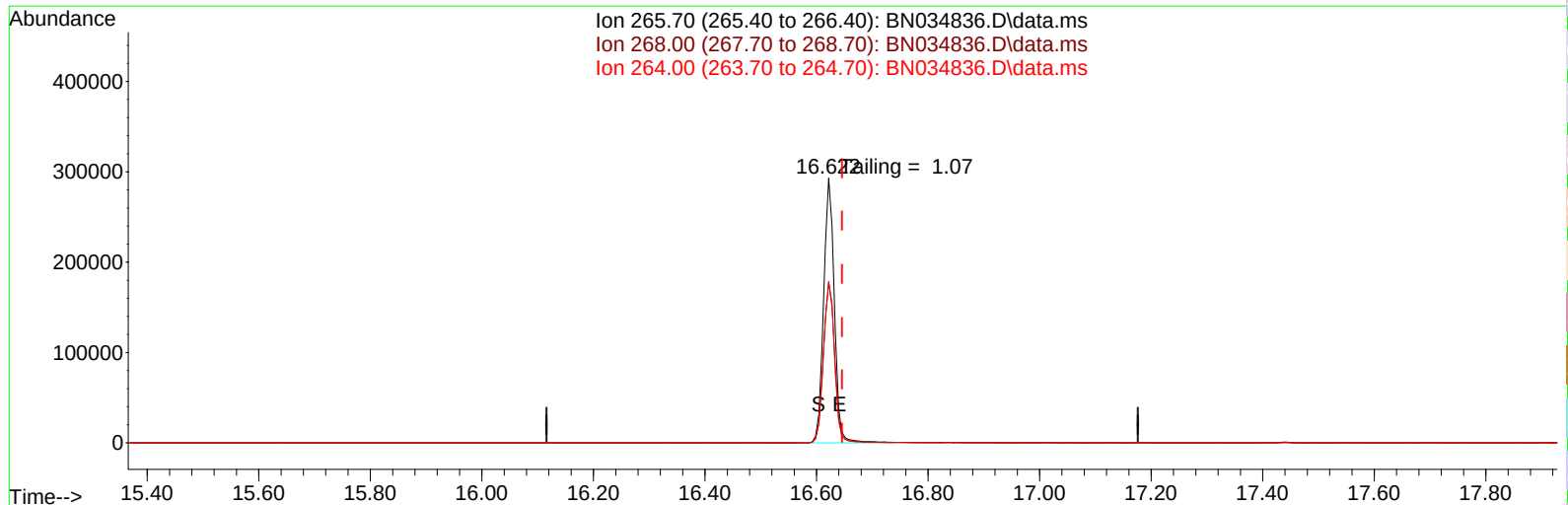
AutoFind: Scans 2473, 2474, 2475; Background Corrected with Scan 2466

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	46.0	170208	PASS
68	69	0.00	2	1.8	2889	PASS
69	198	0.00	100	44.3	163998	PASS
70	69	0.00	2	0.5	771	PASS
127	198	10	80	56.3	208256	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	369963	PASS
199	198	5	9	7.0	25955	PASS
275	198	10	60	22.1	81781	PASS
365	198	1	100	2.6	9567	PASS
441	198	0.01	100	7.9	29307	PASS
442	442	50	100	100.0	189643	PASS
443	442	15	24	18.9	35912	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110424\
Data File : BN034836.D
Acq On : 04 Nov 2024 09:30
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Nov 04 14:30:44 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 04 06:42:45 2024
Response via : Initial Calibration



TIC: BN034836.D\data.ms

(70) Pentachlorophenol (C)

16.622min (-0.024) 22261.66 ng

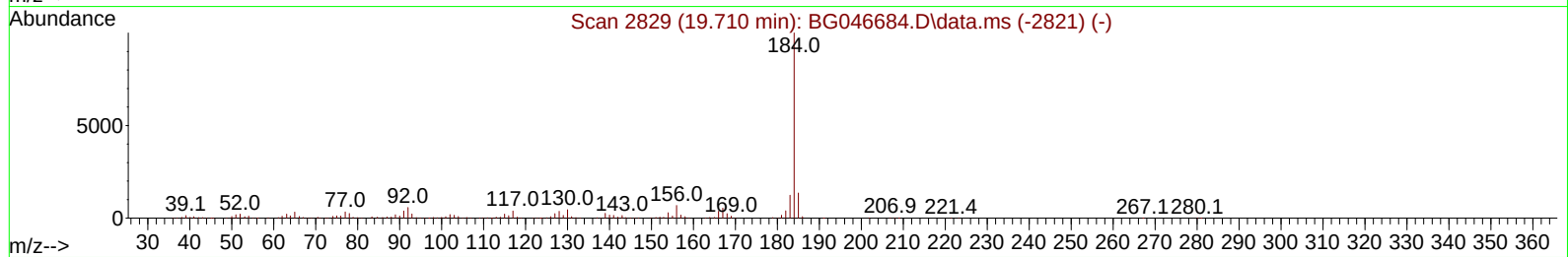
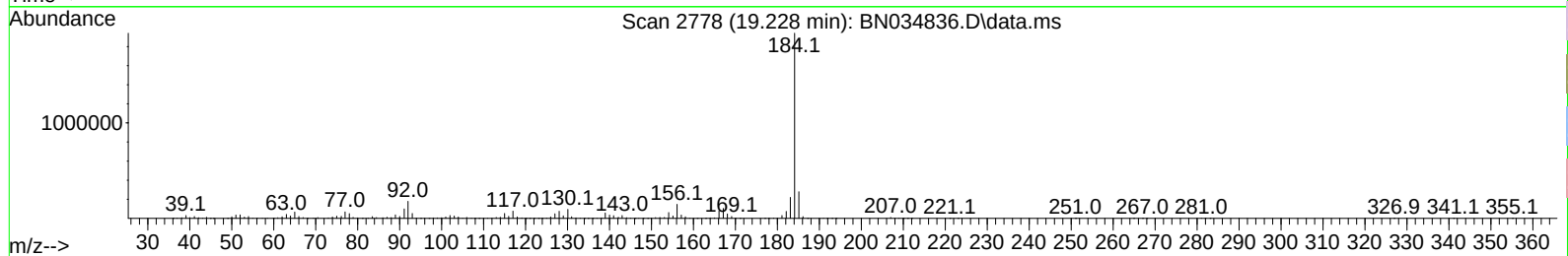
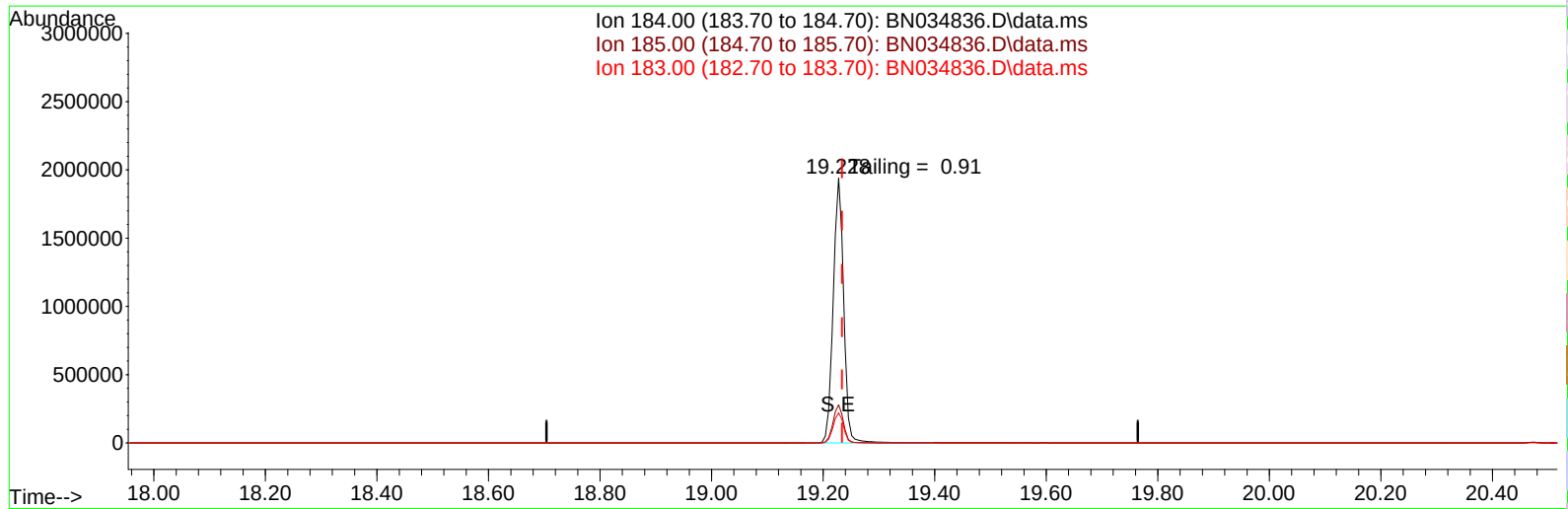
response 390638

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	60.64
264.00	61.60	60.97
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110424\
Data File : BN034836.D
Acq On : 04 Nov 2024 09:30
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Nov 04 14:30:44 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 04 06:42:45 2024
Response via : Initial Calibration



TIC: BN034836.D\data.ms

(77) Benzidine

19.228min (-0.006) 0.00 ng

response 2538235

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.38
183.00	13.20	11.33
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

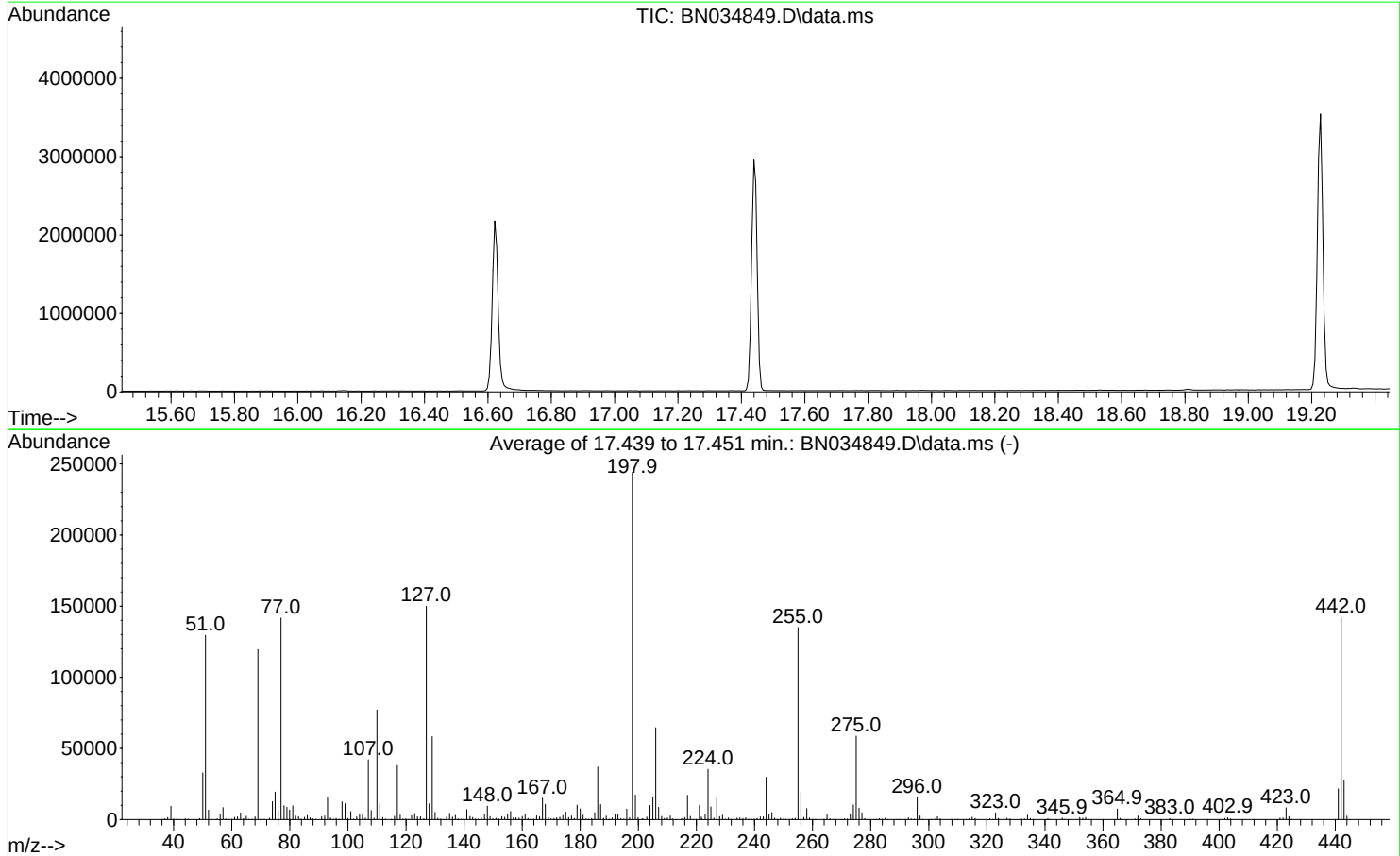
Date	Instrument Name	DFTPP Data File
11/4/2024	BNA_N	<u>BN034836.D</u>
Compound Name	Response	Retention Time
DDT	1131699	20.475
DDD	36181	20.028
DDE	1756	19.522
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
37937	1169636	3.24

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110424\
Data File : BN034849.D
Acq On : 04 Nov 2024 20:54
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-BN103024.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Nov 05 00:03:28 2024



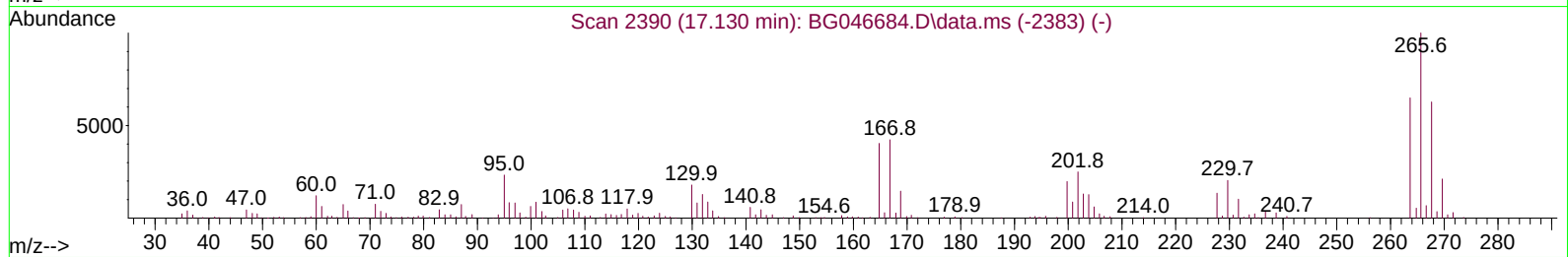
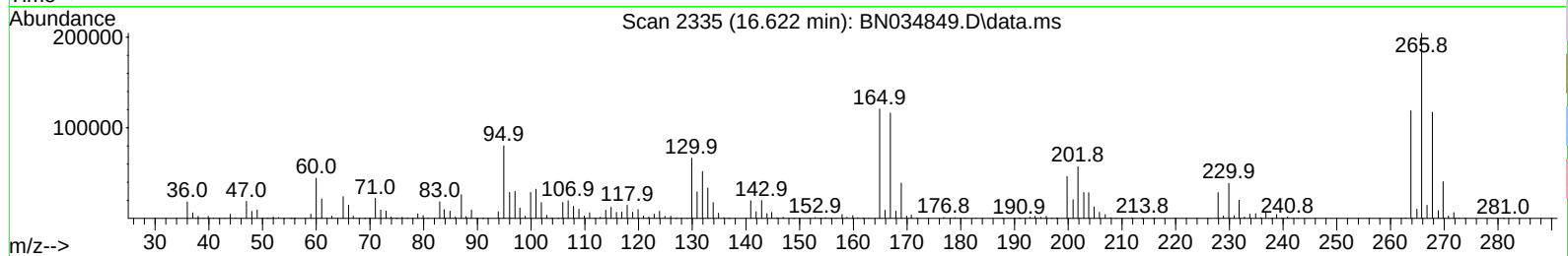
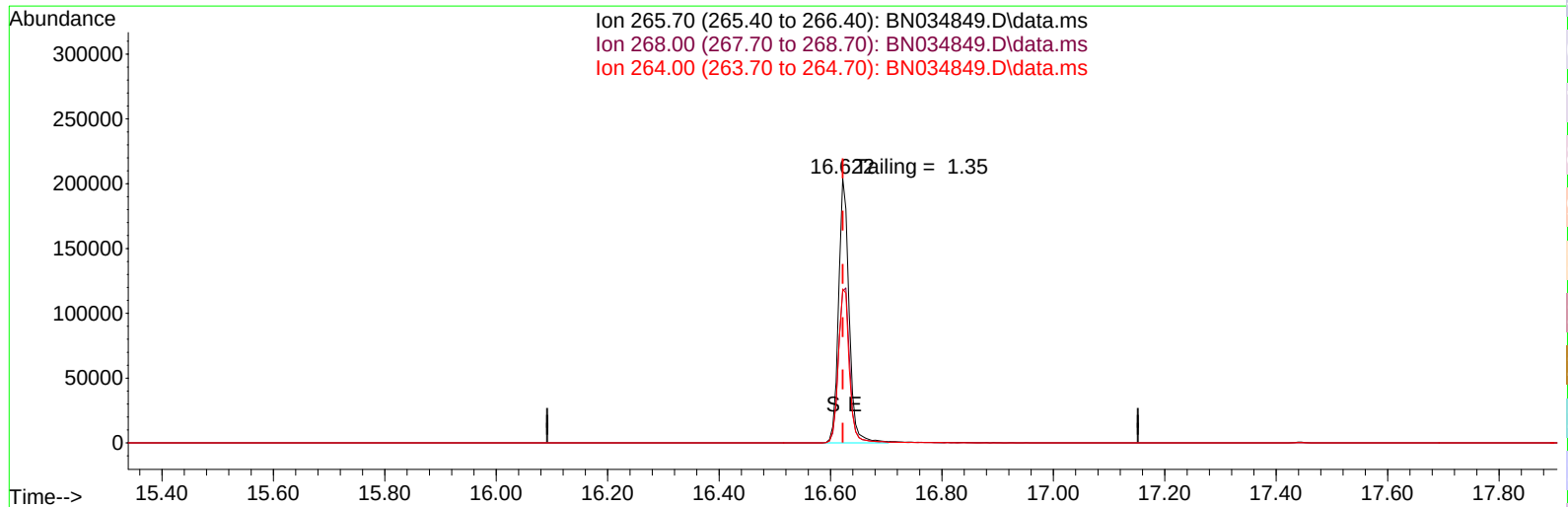
AutoFind: Scans 2474, 2475, 2476; Background Corrected with Scan 2467

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	53.1	129505	PASS
68	69	0.00	2	1.6	1938	PASS
69	198	0.00	100	49.0	119523	PASS
70	69	0.00	2	0.6	686	PASS
127	198	10	80	61.5	149968	PASS
197	198	0.00	2	0.6	1346	PASS
198	198	100	100	100.0	244032	PASS
199	198	5	9	7.1	17358	PASS
275	198	10	60	24.1	58707	PASS
365	198	1	100	3.0	7442	PASS
441	198	0.01	100	8.8	21576	PASS
442	442	50	100	100.0	142067	PASS
443	442	15	24	19.1	27149	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110424\
Data File : BN034849.D
Acq On : 04 Nov 2024 20:54
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Nov 04 23:56:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 04 23:56:03 2024
Response via : Initial Calibration



TIC: BN034849.D\data.ms

(70) Pentachlorophenol (C)

16.622min (0.000) 21272.94 ng

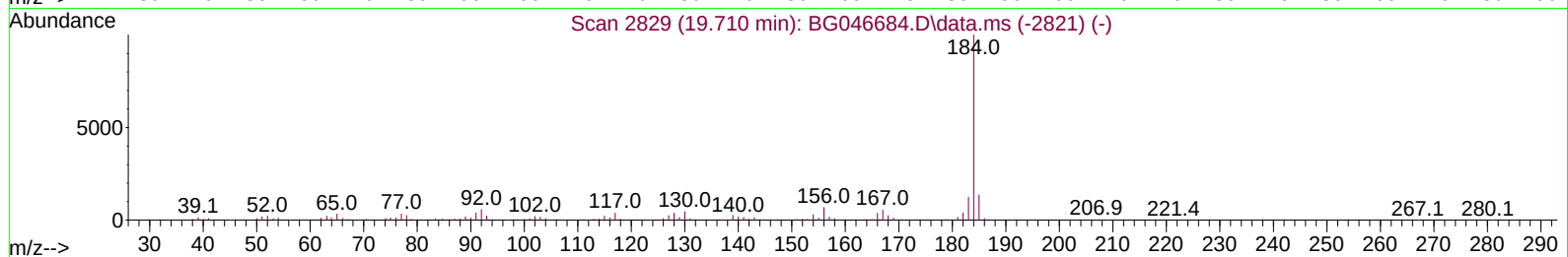
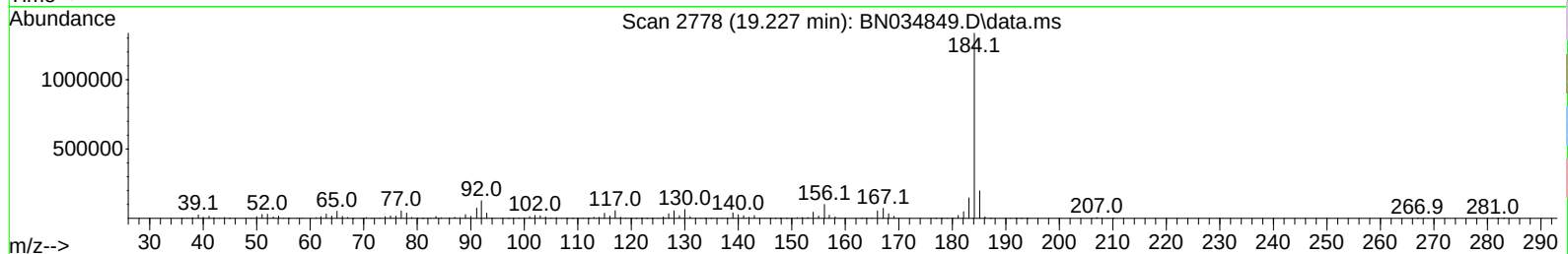
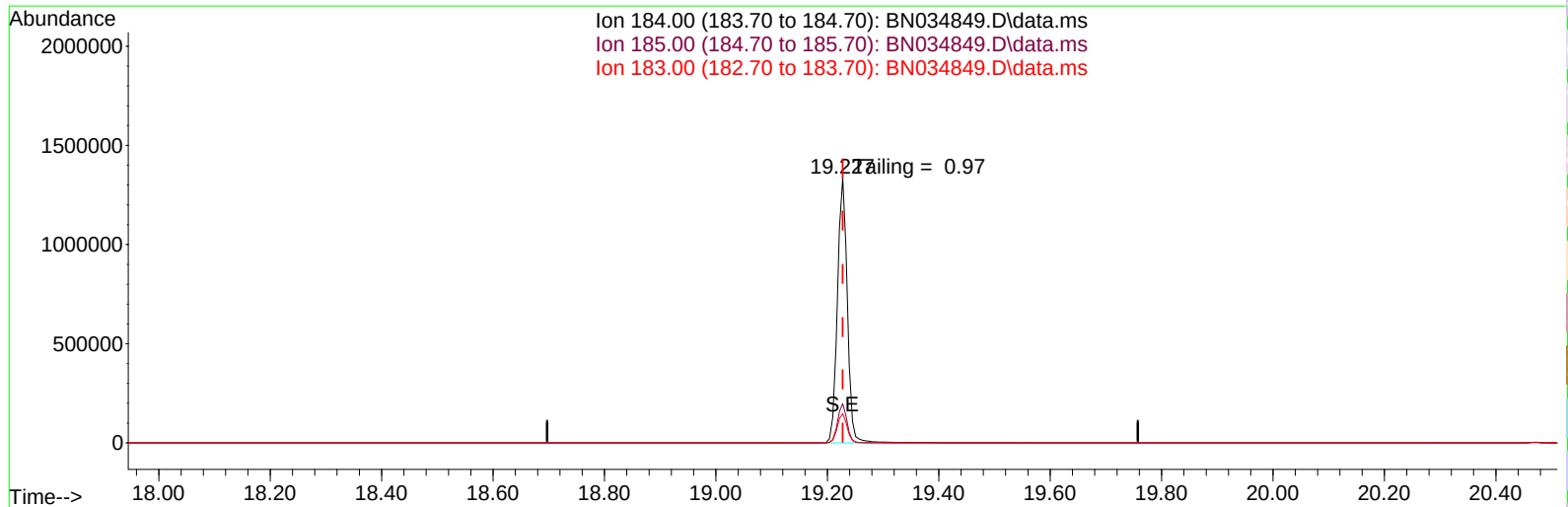
response 271619

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	57.32
264.00	61.60	58.20
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110424\
Data File : BN034849.D
Acq On : 04 Nov 2024 20:54
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Nov 04 23:56:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 04 23:56:03 2024
Response via : Initial Calibration



TIC: BN034849.D\data.ms

(77) Benzidine

19.227min (0.000) 0.00 ng

response 1662756

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.88
183.00	13.20	11.04
0.00	0.00	0.00

Instrument :

BNA_N

ClientSampleId :

DFTPP

DDT Breakdown

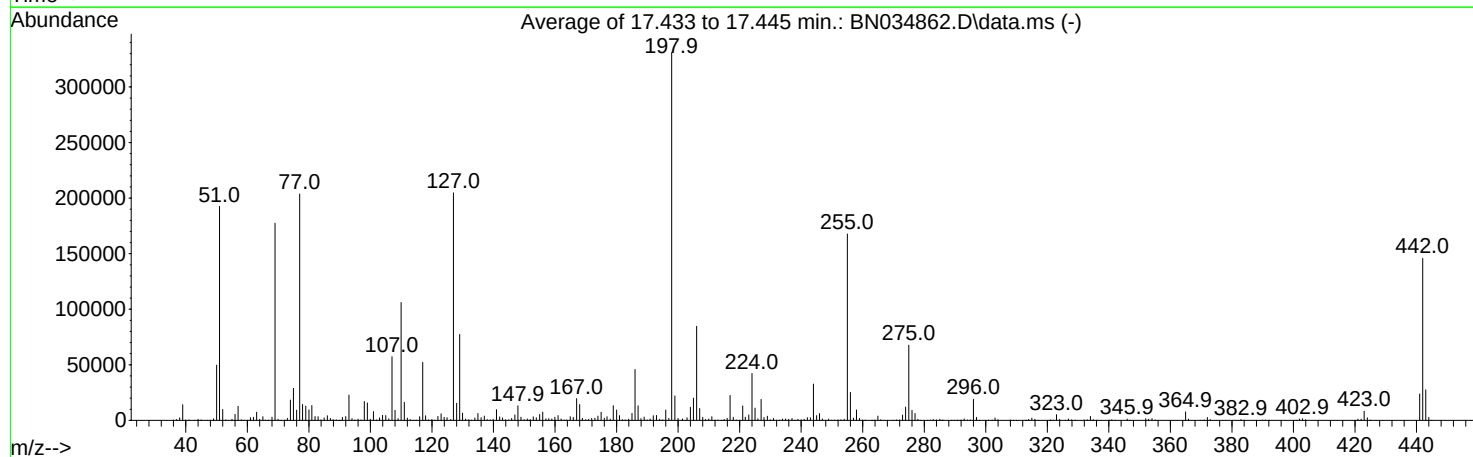
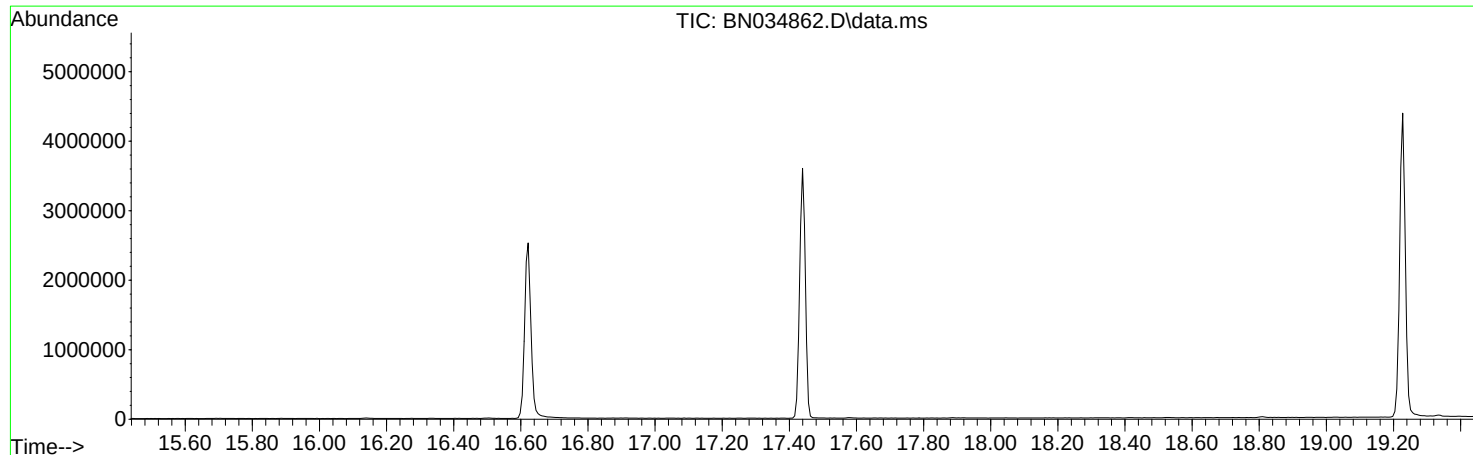
Date	Instrument Name	DFTPP Data File
11/4/2024	BNA_N	<u>BN034849.D</u>
Compound Name	Response	Retention Time
DDT	864034	20.469
DDD	21444	20.027
DDE	934	19.522
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
22378	886412	2.52

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110524\
Data File : BN034862.D
Acq On : 05 Nov 2024 08:44
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-BN103024.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Nov 05 00:03:28 2024



AutoFind: Scans 2473, 2474, 2475; Background Corrected with Scan 2466

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	58.2	192477	PASS
68	69	0.00	2	1.6	2874	PASS
69	198	0.00	100	53.6	177323	PASS
70	69	0.00	2	0.5	975	PASS
127	198	10	80	61.8	204715	PASS
197	198	0.00	2	0.5	1729	PASS
198	198	100	100	100.0	330987	PASS
199	198	5	9	6.6	22003	PASS
275	198	10	60	20.4	67669	PASS
365	198	1	100	2.3	7667	PASS
441	198	0.01	100	7.2	23705	PASS
442	442	50	100	100.0	145749	PASS
443	442	15	24	18.9	27560	PASS

Instrument :
BNA_N
ClientSampleId :
DFTPP

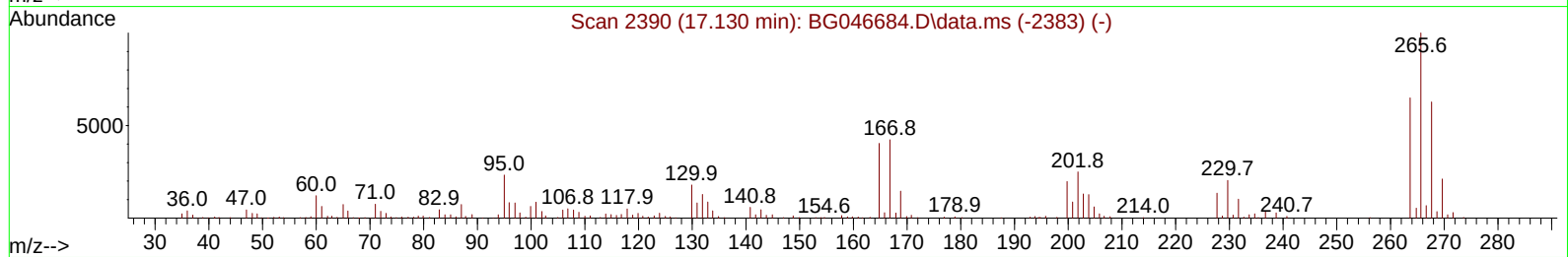
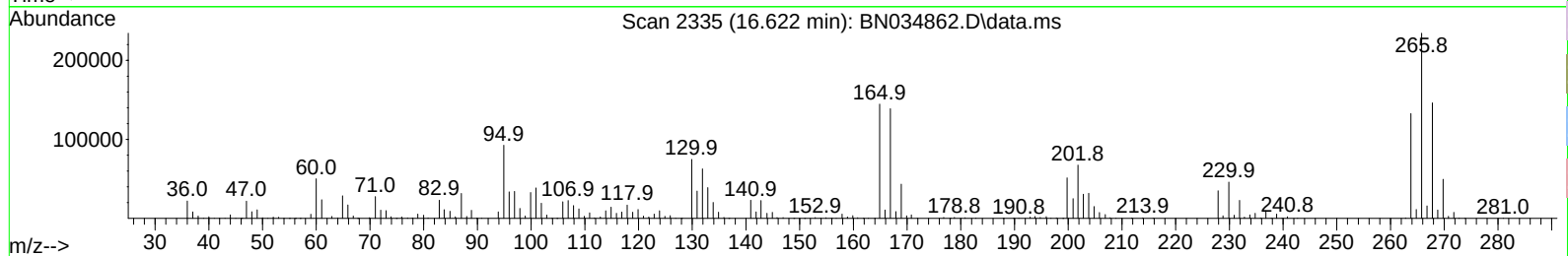
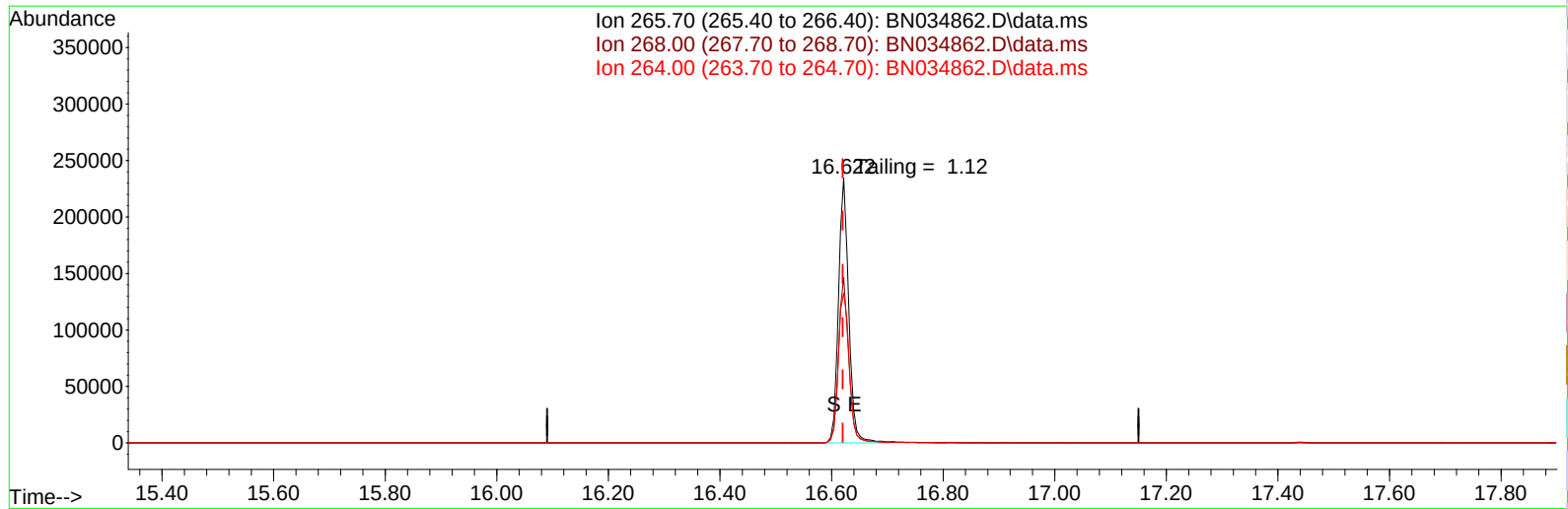
DDT Breakdown

Date	Instrument Name	DFTPP Data File
11/5/2024	BNA_N	<u>BN034862.D</u>
Compound Name	Response	Retention Time
DDT	1019765	20.474
DDD	23573	20.027
DDE	1293	19.527
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
24866	1044631	2.38

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110524\
Data File : BN034862.D
Acq On : 05 Nov 2024 08:44
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Nov 05 14:17:28 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 23 16:55:25 2022
Response via : Initial Calibration



TIC: BN034862.D\data.ms

(70) Pentachlorophenol (C)

16.622min (+ 0.002) 130230.19 ng

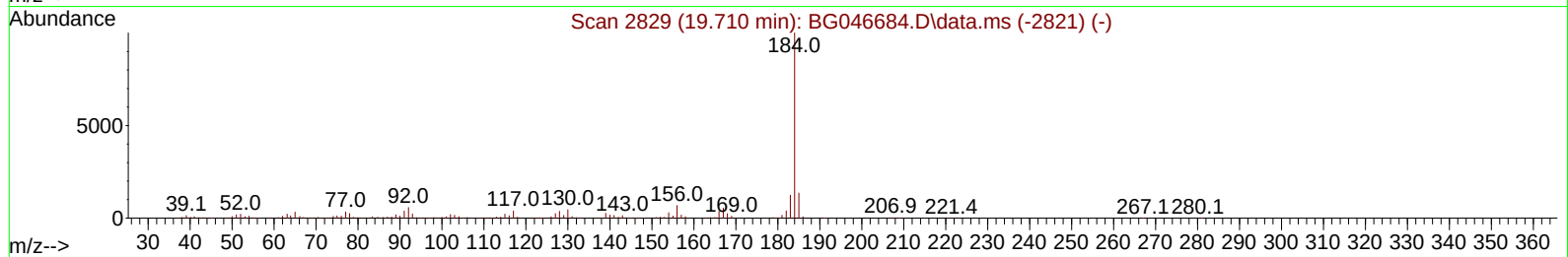
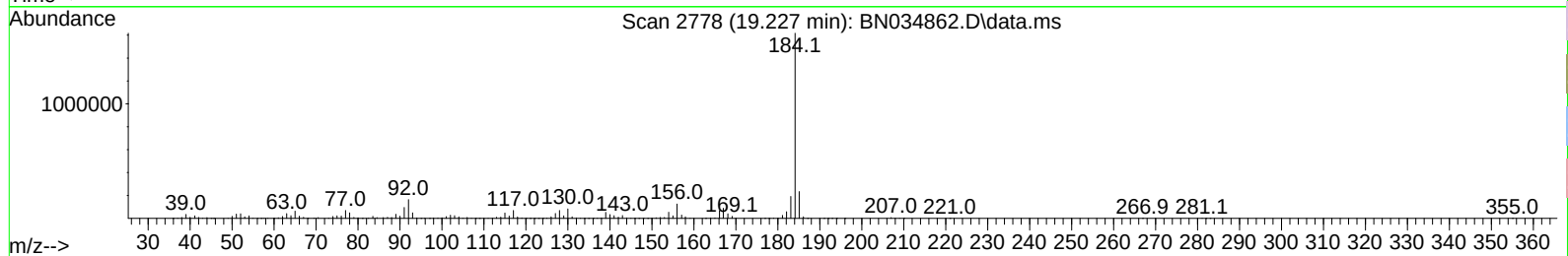
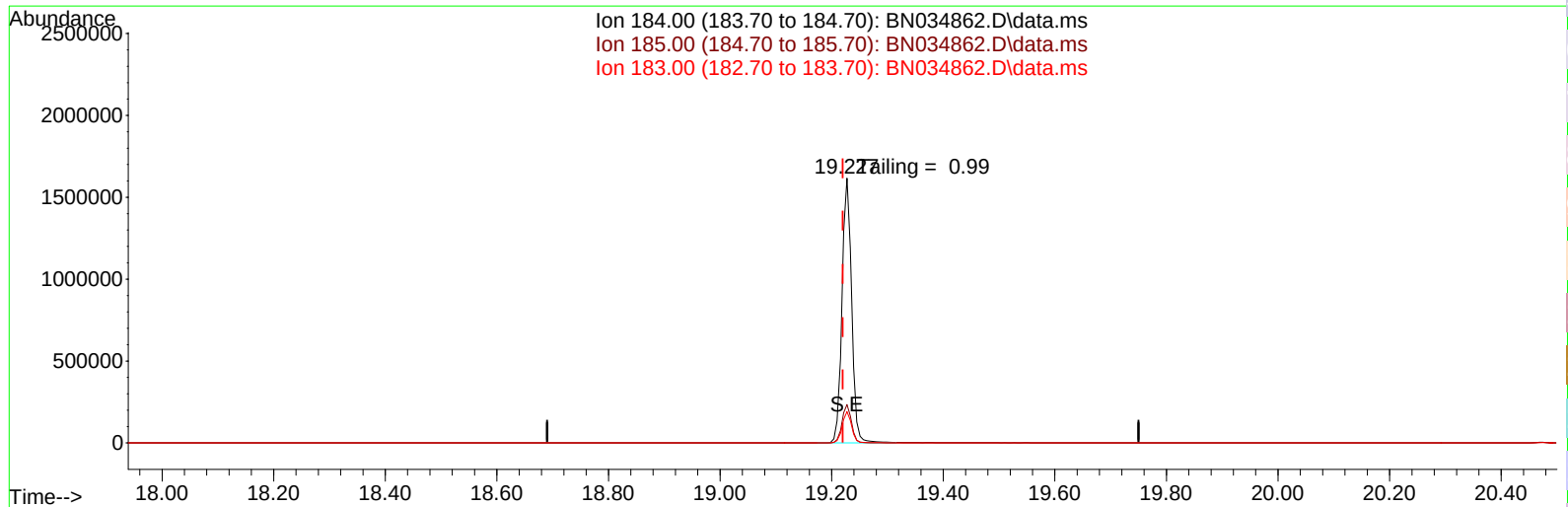
response 297406

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	62.42
264.00	61.60	56.66
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110524\
Data File : BN034862.D
Acq On : 05 Nov 2024 08:44
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Nov 05 14:17:28 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 23 16:55:25 2022
Response via : Initial Calibration



TIC: BN034862.D\data.ms

(77) Benzidine

19.227min (+ 0.008) 239356.43 ng m

response 1940480

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.50
183.00	13.20	11.83
0.00	0.00	0.00

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	PB164594BL	SDG No.:	P4652
Lab Sample ID:	PB164594BL	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN034864.D	1	11/01/24 09:35	11/05/24 10:37	PB164594

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.35		30 - 150		88%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.36		30 - 150		90%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.38		55 - 111		95%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.41		53 - 106		102%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.46		58 - 132		114%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	7360	7.589				
1146-65-2	Naphthalene-d8	21600	10.351				
15067-26-2	Acenaphthene-d10	10000	14.218				
1517-22-2	Phenanthrene-d10	19700	16.964				
1719-03-5	Chrysene-d12	9910	21.167				
1520-96-3	Perylene-d12	7740	23.344				

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\BN110524\
Data File : BN034864.D
Acq On : 05 Nov 2024 10:37
Operator : RC/JU
Sample : PB164594BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB164594BL

Quant Time: Nov 05 11:39:17 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 05 00:03:28 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.589	152	7362	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	21619	0.400	ng	0.00
13) Acenaphthene-d10	14.218	164	10048	0.400	ng	0.00
19) Phenanthrene-d10	16.964	188	19701	0.400	ng	# 0.00
29) Chrysene-d12	21.167	240	9905	0.400	ng	0.00
35) Perylene-d12	23.344	264	7739	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.206	112	7503	0.336	ng	0.00
5) Phenol-d6	6.766	99	10065	0.347	ng	0.00
8) Nitrobenzene-d5	8.717	82	6467	0.381	ng	-0.01
11) 2-Methylnaphthalene-d10	11.946	152	11019	0.352	ng	0.00
14) 2,4,6-Tribromophenol	15.711	330	643	0.130	ng	0.00
15) 2-Fluorobiphenyl	12.839	172	16133	0.408	ng	0.00
27) Fluoranthene-d10	19.003	212	16618	0.360	ng	0.00
31) Terphenyl-d14	19.612	244	9725	0.457	ng	0.00

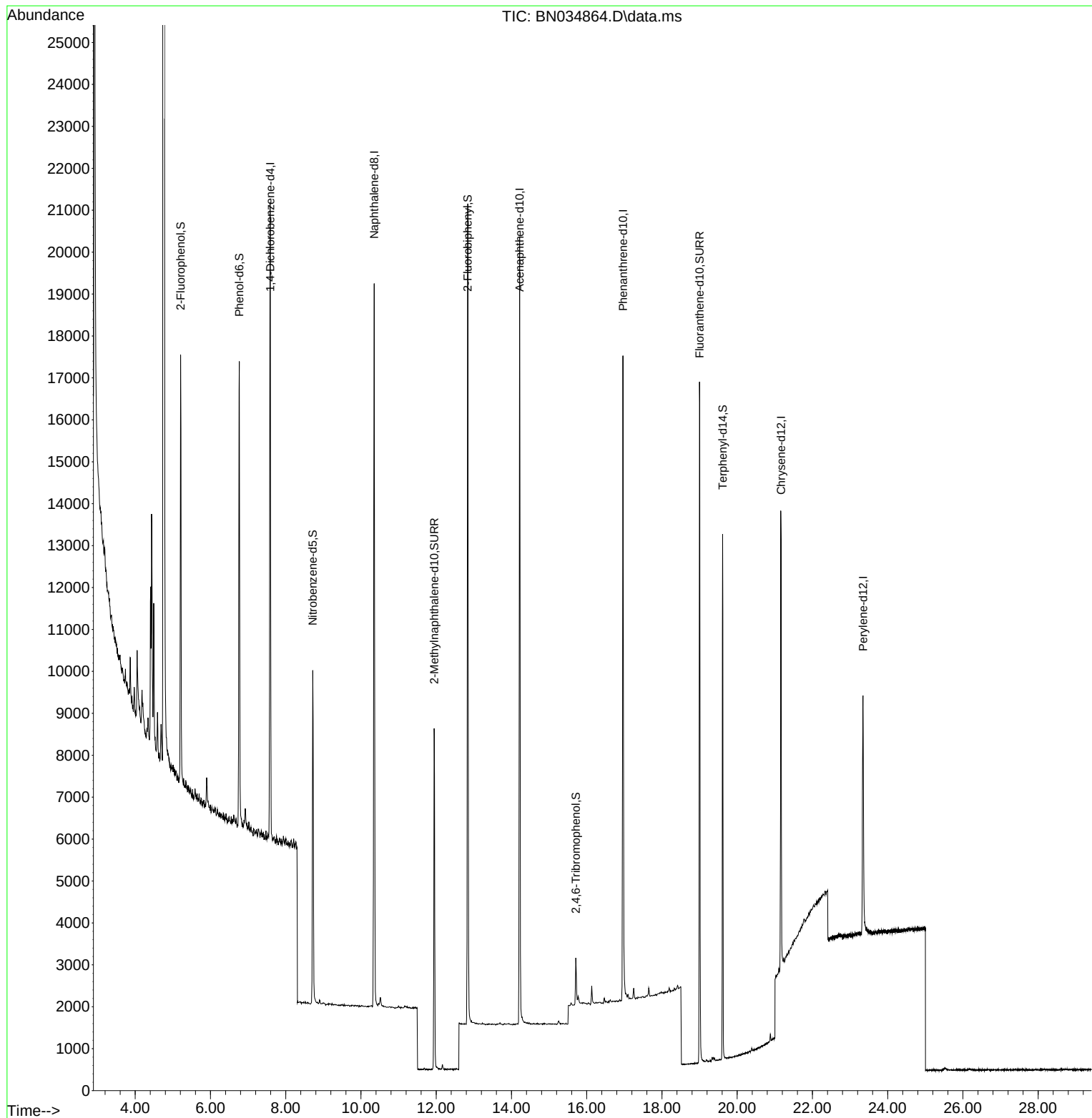
Target Compounds	Qvalue

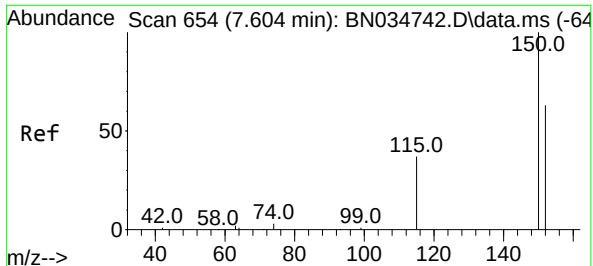
(#) = qualifier out of range (m) = manual integration (+) = signals summed	

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110524\
Data File : BN034864.D
Acq On : 05 Nov 2024 10:37
Operator : RC/JU
Sample : PB164594BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB164594BL

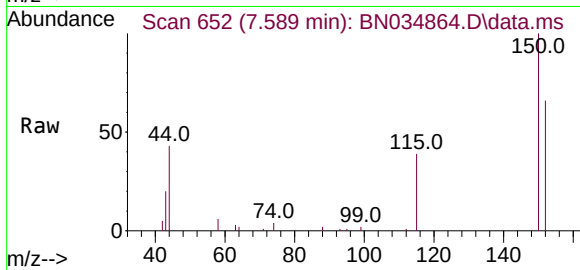
Quant Time: Nov 05 11:39:17 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 05 00:03:28 2024
Response via : Initial Calibration



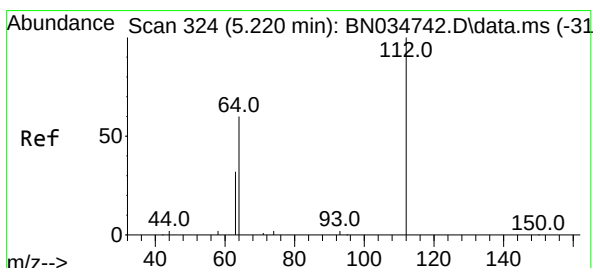
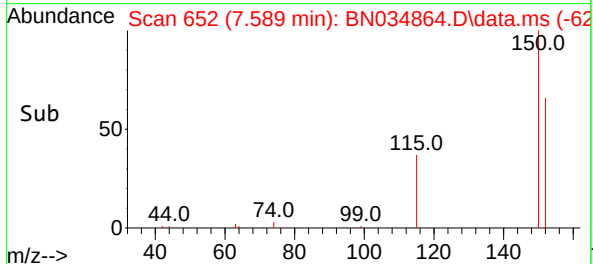
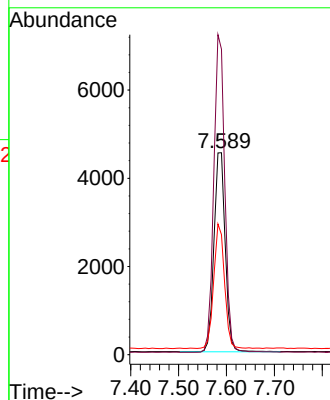


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.589 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN034864.D
Acq: 05 Nov 2024 10:37

Instrument :
BNA_N
ClientSampleId :
PB164594BL

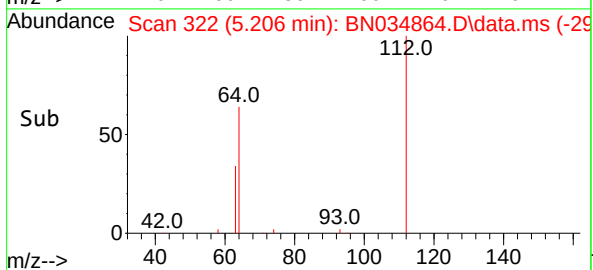
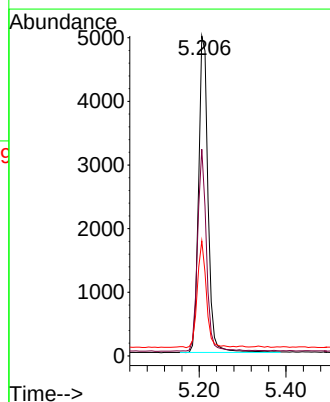
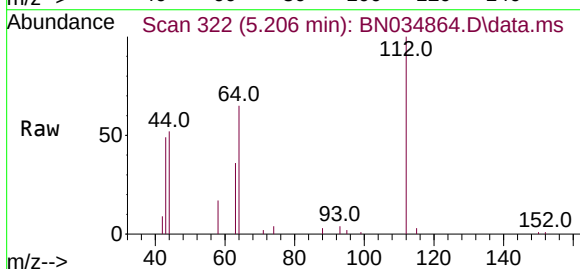


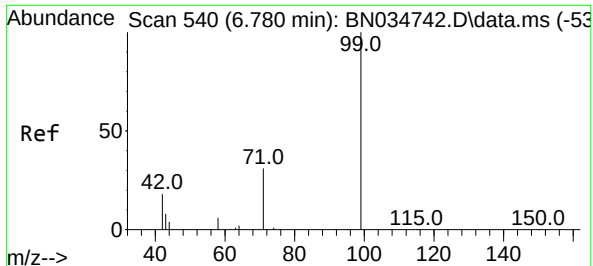
Tgt Ion:152 Resp: 7362
Ion Ratio Lower Upper
152 100
150 151.3 124.9 187.3
115 59.5 50.2 75.2



#4
2-Fluorophenol
Concen: 0.336 ng
RT: 5.206 min Scan# 322
Delta R.T. -0.007 min
Lab File: BN034864.D
Acq: 05 Nov 2024 10:37

Tgt Ion:112 Resp: 7503
Ion Ratio Lower Upper
112 100
64 59.6 44.9 67.3
63 32.2 23.5 35.3

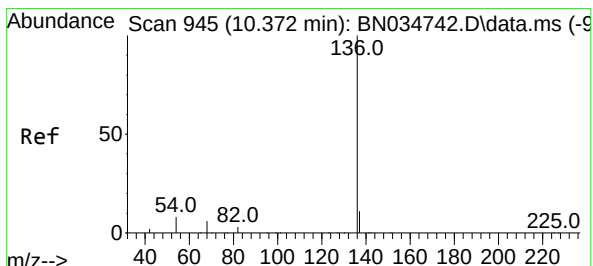
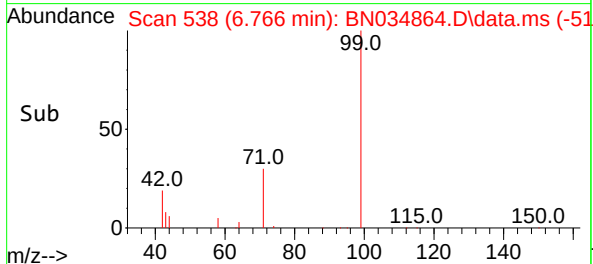
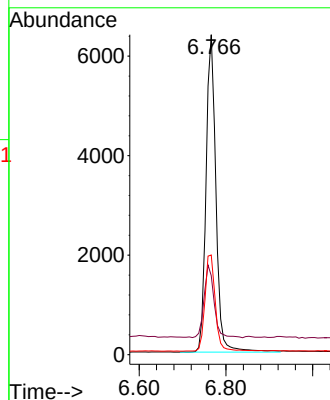
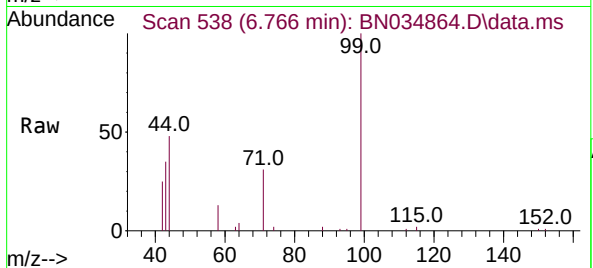




#5
Phenol-d6
Concen: 0.347 ng
RT: 6.766 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN034864.D
Acq: 05 Nov 2024 10:37

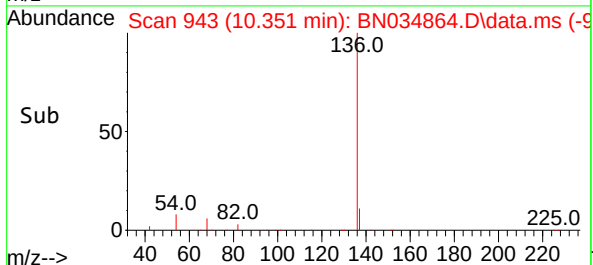
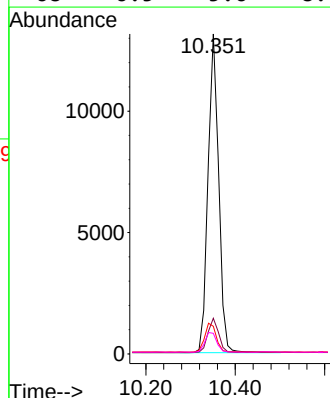
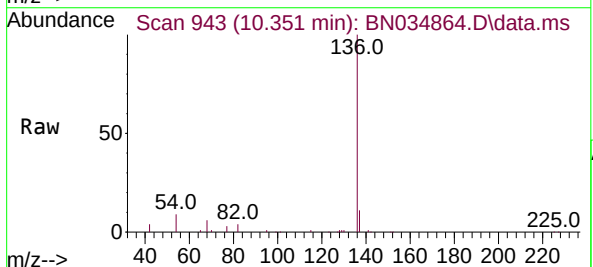
Instrument :
BNA_N
ClientSampleId :
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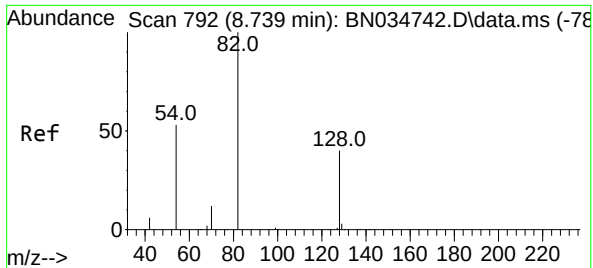
Tgt Ion: 99 Resp: 10065
Ion Ratio Lower Upper
99 100
42 23.0 15.9 23.9
71 32.0 24.3 36.5



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 943
Delta R.T. -0.000 min
Lab File: BN034864.D
Acq: 05 Nov 2024 10:37

Tgt Ion: 136 Resp: 21619
Ion Ratio Lower Upper
136 100
137 11.2 9.2 13.8
54 8.6 7.0 10.4
68 6.5 5.6 8.4

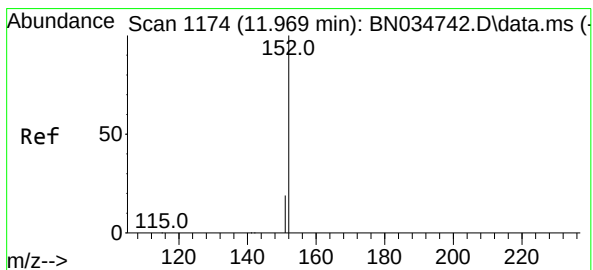
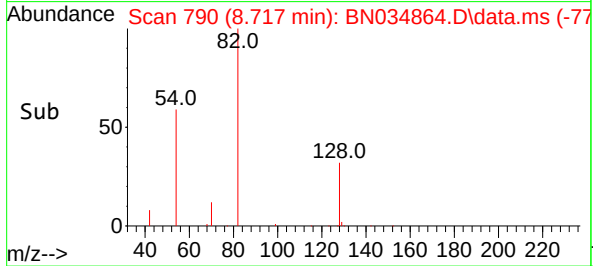
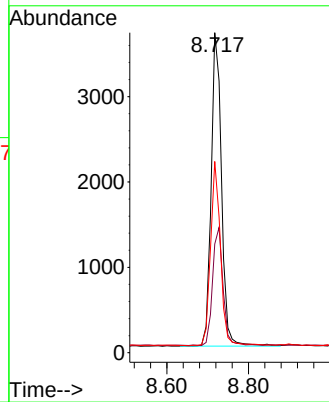
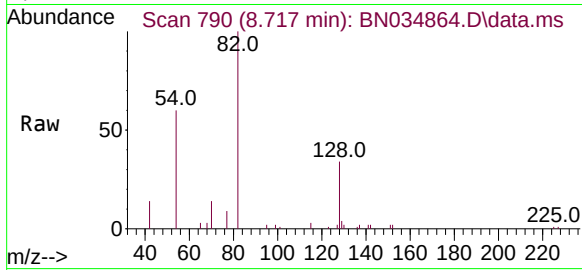




#8
Nitrobenzene-d5
Concen: 0.381 ng
RT: 8.717 min Scan# 792
Delta R.T. -0.011 min
Lab File: BN034864.D
Acq: 05 Nov 2024 10:37

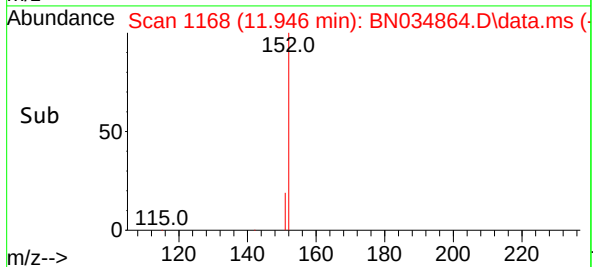
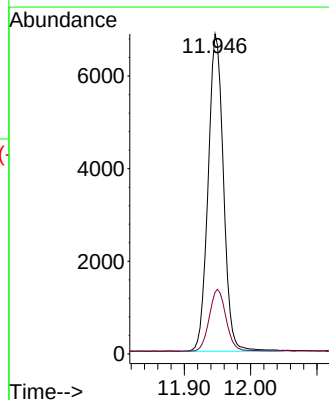
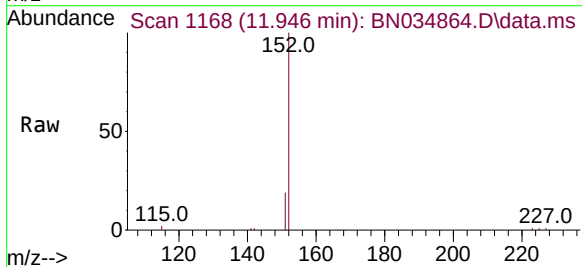
Instrument :
BNA_N
ClientSampleId :
PB164594BL

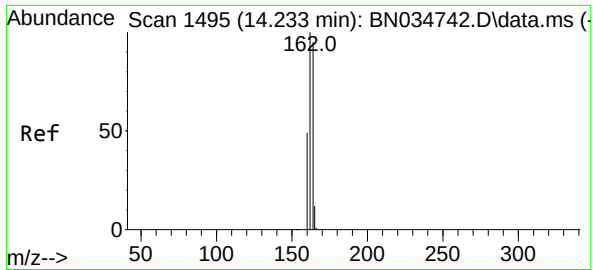
Tgt Ion:	82	Resp:	6467
Ion Ratio	Lower	Upper	
82	100		
128	34.0	33.7	50.5
54	59.8	44.4	66.6



#11
2-Methylnaphthalene-d10
Concen: 0.352 ng
RT: 11.946 min Scan# 1168
Delta R.T. -0.004 min
Lab File: BN034864.D
Acq: 05 Nov 2024 10:37

Tgt Ion:	152	Resp:	11019
Ion Ratio	Lower	Upper	
152	100		
151	21.4	16.6	24.8

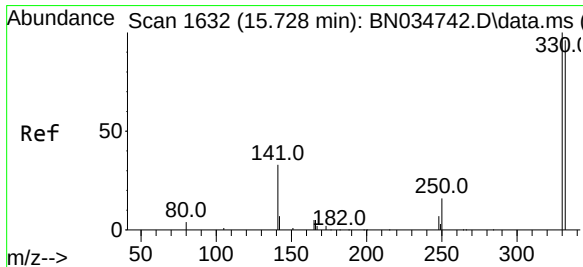
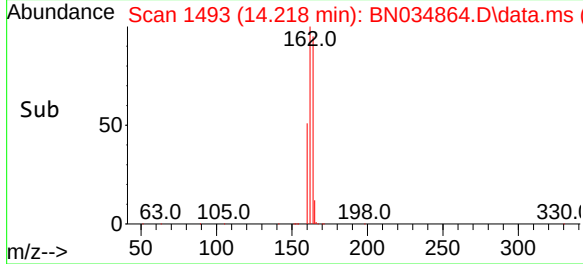
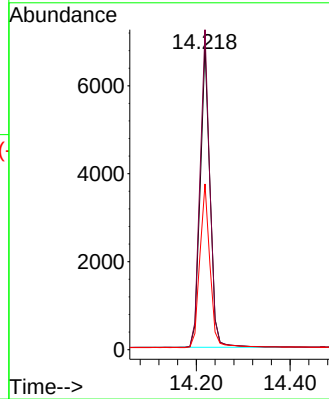
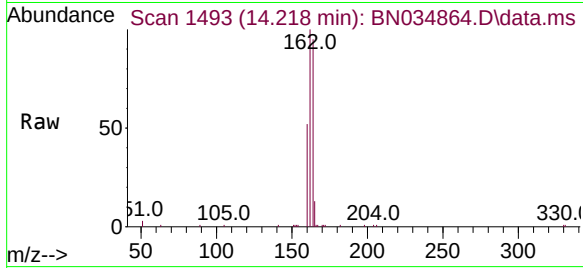




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.218 min Scan# 1493
Delta R.T. -0.004 min
Lab File: BN034864.D
Acq: 05 Nov 2024 10:37

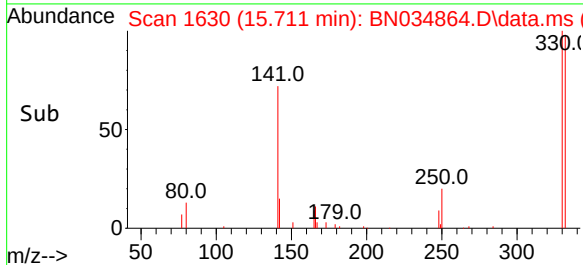
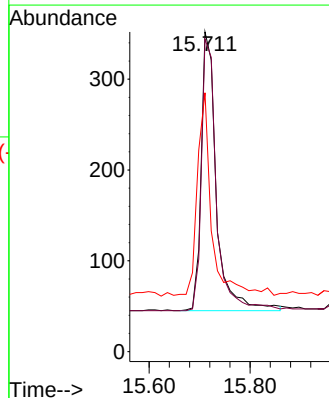
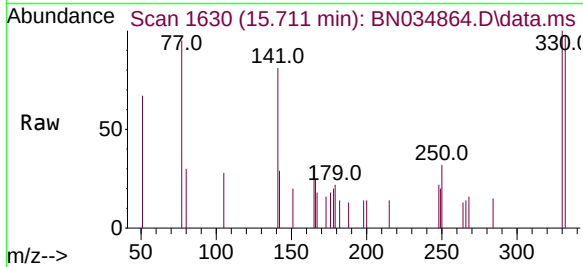
Instrument :
BNA_N
ClientSampleId :
PB164594BL

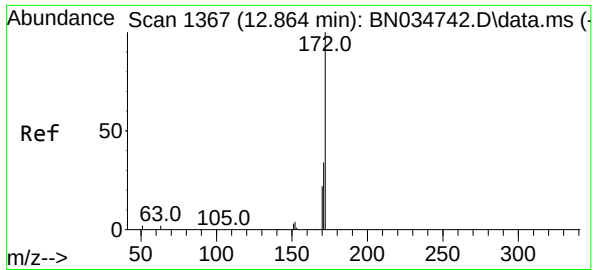
Tgt Ion:164 Resp: 10048
Ion Ratio Lower Upper
164 100
162 105.5 84.3 126.5
160 54.6 41.7 62.5



#14
2,4,6-Tribromophenol
Concen: 0.130 ng
RT: 15.711 min Scan# 1630
Delta R.T. -0.006 min
Lab File: BN034864.D
Acq: 05 Nov 2024 10:37

Tgt Ion:330 Resp: 643
Ion Ratio Lower Upper
330 100
332 96.4 77.8 116.6
141 68.3 41.0 61.4#

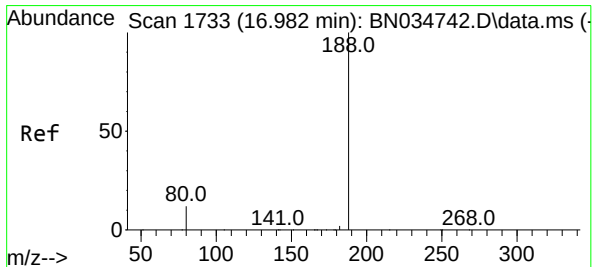
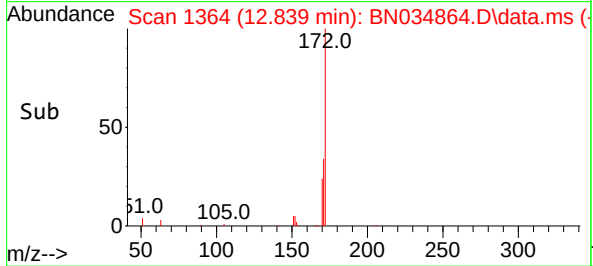
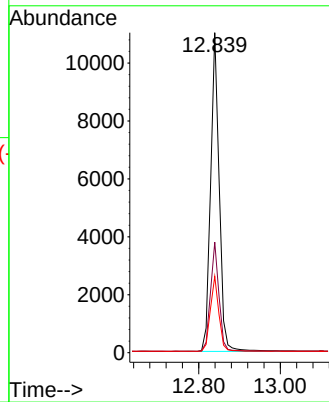
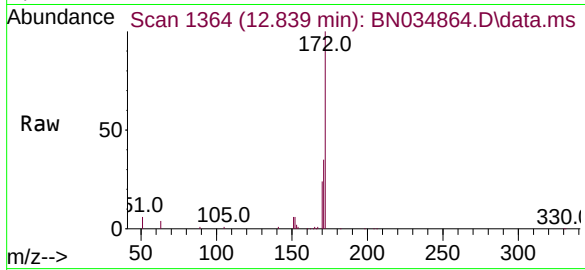




#15
2-Fluorobiphenyl
Concen: 0.408 ng
RT: 12.839 min Scan# 11
Delta R.T. -0.004 min
Lab File: BN034864.D
Acq: 05 Nov 2024 10:37

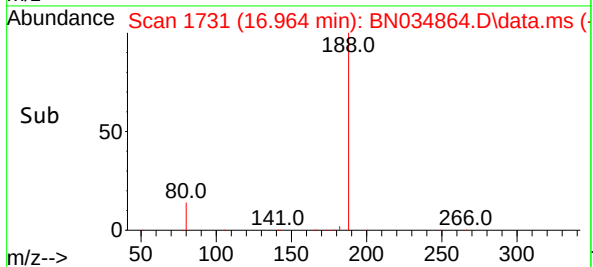
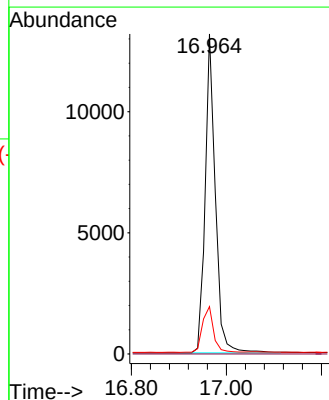
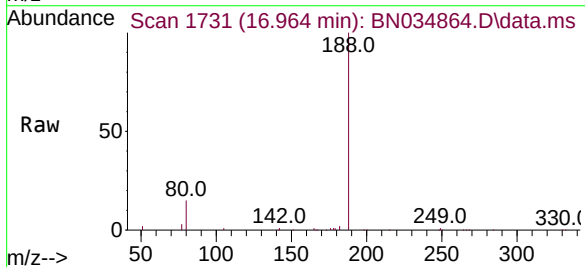
Instrument :
BNA_N
ClientSampleId :
PB164594BL

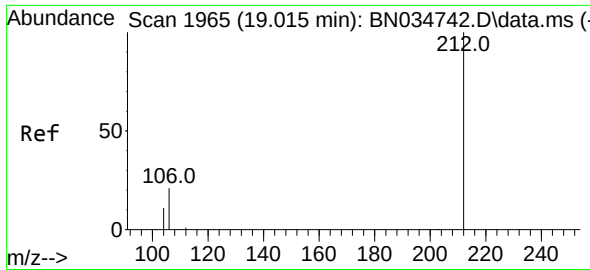
Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.6	27.2	40.8
170	23.9	18.0	27.0



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.964 min Scan# 1731
Delta R.T. -0.006 min
Lab File: BN034864.D
Acq: 05 Nov 2024 10:37

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	14.8	9.8	14.6

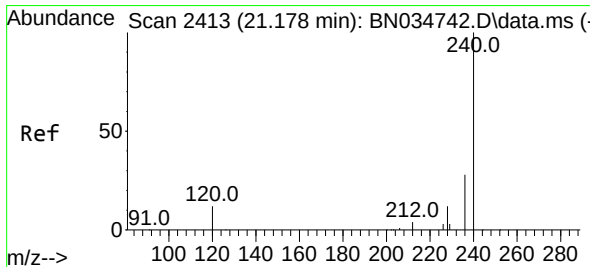
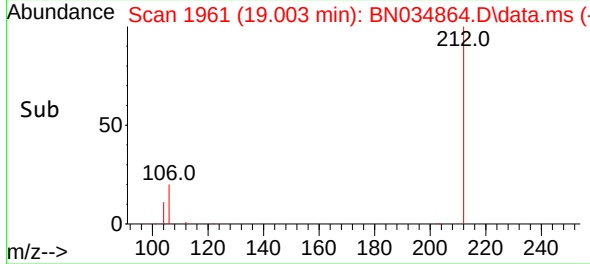
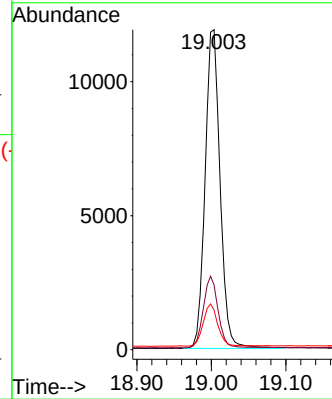
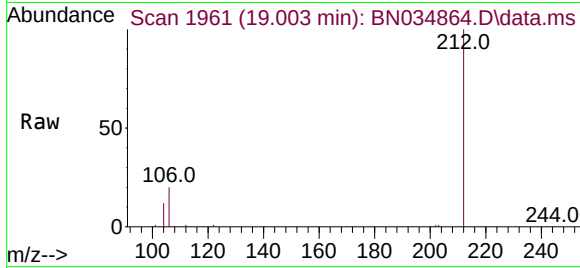




#27
Fluoranthene-d10
Concen: 0.360 ng
RT: 19.003 min Scan# 1961
Delta R.T. 0.002 min
Lab File: BN034864.D
Acq: 05 Nov 2024 10:37

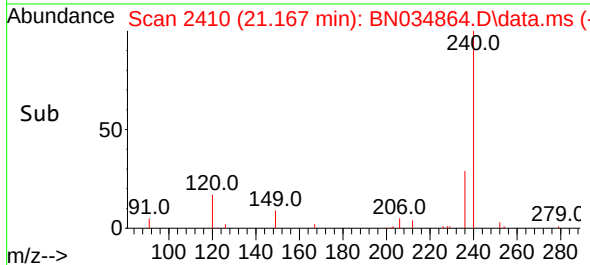
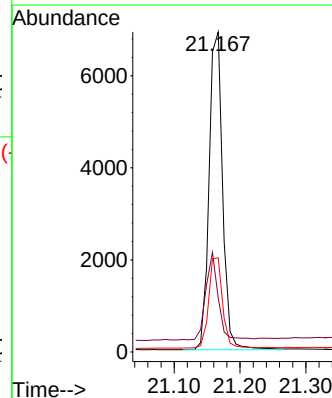
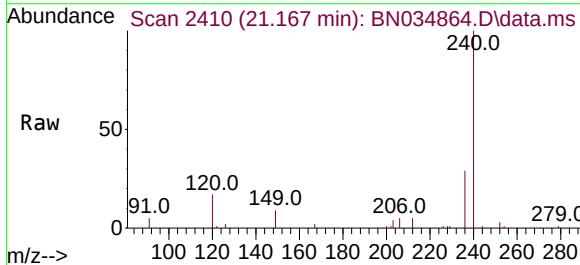
Instrument :
BNA_N
ClientSampleId :
PB164594BL

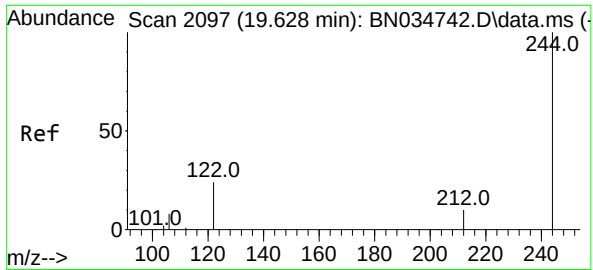
Tgt Ion	Ratio	Lower	Upper
212	100		
106	21.9	16.1	24.1
104	12.9	9.2	13.8



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.167 min Scan# 2410
Delta R.T. 0.007 min
Lab File: BN034864.D
Acq: 05 Nov 2024 10:37

Tgt Ion	Ratio	Lower	Upper
240	100		
120	16.9	11.5	17.3
236	29.4	23.2	34.8

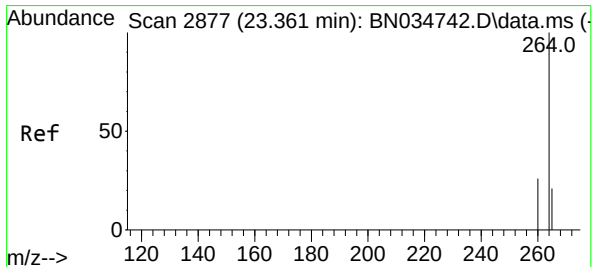
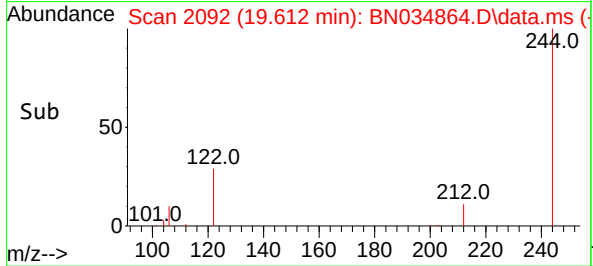
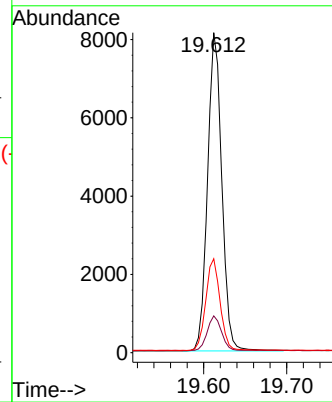
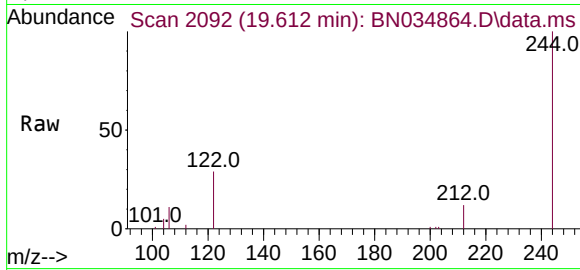




#31
Terphenyl-d14
Concen: 0.457 ng
RT: 19.612 min Scan# 2092
Delta R.T. -0.002 min
Lab File: BN034864.D
Acq: 05 Nov 2024 10:37

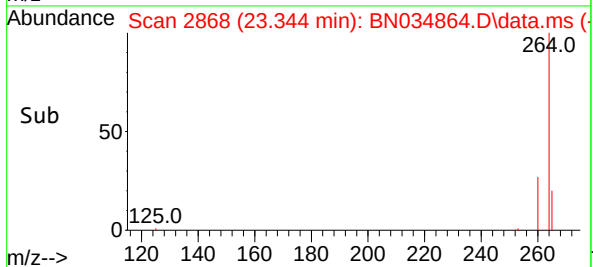
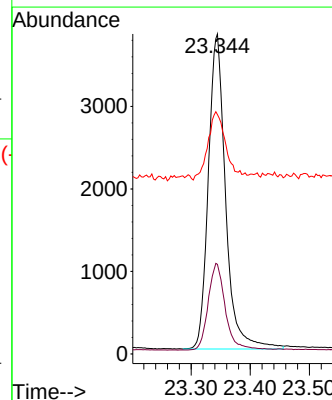
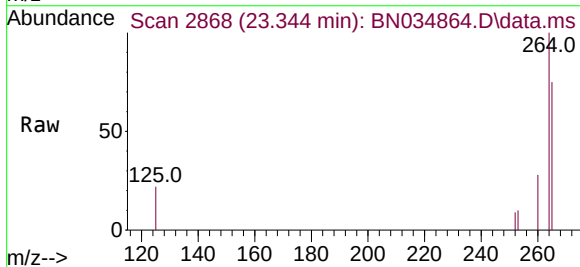
Instrument :
BNA_N
ClientSampleId :
PB164594BL

Tgt Ion	Ratio	Lower	Upper
244	100		
212	11.5	8.2	12.4
122	29.3	19.8	29.6



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.344 min Scan# 2868
Delta R.T. 0.009 min
Lab File: BN034864.D
Acq: 05 Nov 2024 10:37

Tgt Ion	Ratio	Lower	Upper
264	100		
260	28.0	21.5	32.3
265	74.8	47.5	71.3



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	PB164594BS	SDG No.:	P4652
Lab Sample ID:	PB164594BS	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN034859.D	1	11/01/24 09:35	11/05/24 02:57	PB164594

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.37		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.49		30 - 150		123%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.32		30 - 150		80%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.38		55 - 111		95%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.42		53 - 106		104%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.52		58 - 132		129%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	7150	7.589				
1146-65-2	Naphthalene-d8	21200	10.351				
15067-26-2	Acenaphthene-d10	10000	14.222				
1517-22-2	Phenanthrene-d10	17500	16.97				
1719-03-5	Chrysene-d12	6740	21.16				
1520-96-3	Perylene-d12	4990	23.341				

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\BN110424\
 Data File : BN034859.D
 Acq On : 05 Nov 2024 02:57
 Operator : RC/JU
 Sample : PB164594BS
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB164594BS

Quant Time: Nov 05 03:50:48 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 05 00:03:28 2024
 Response via : Initial Calibration

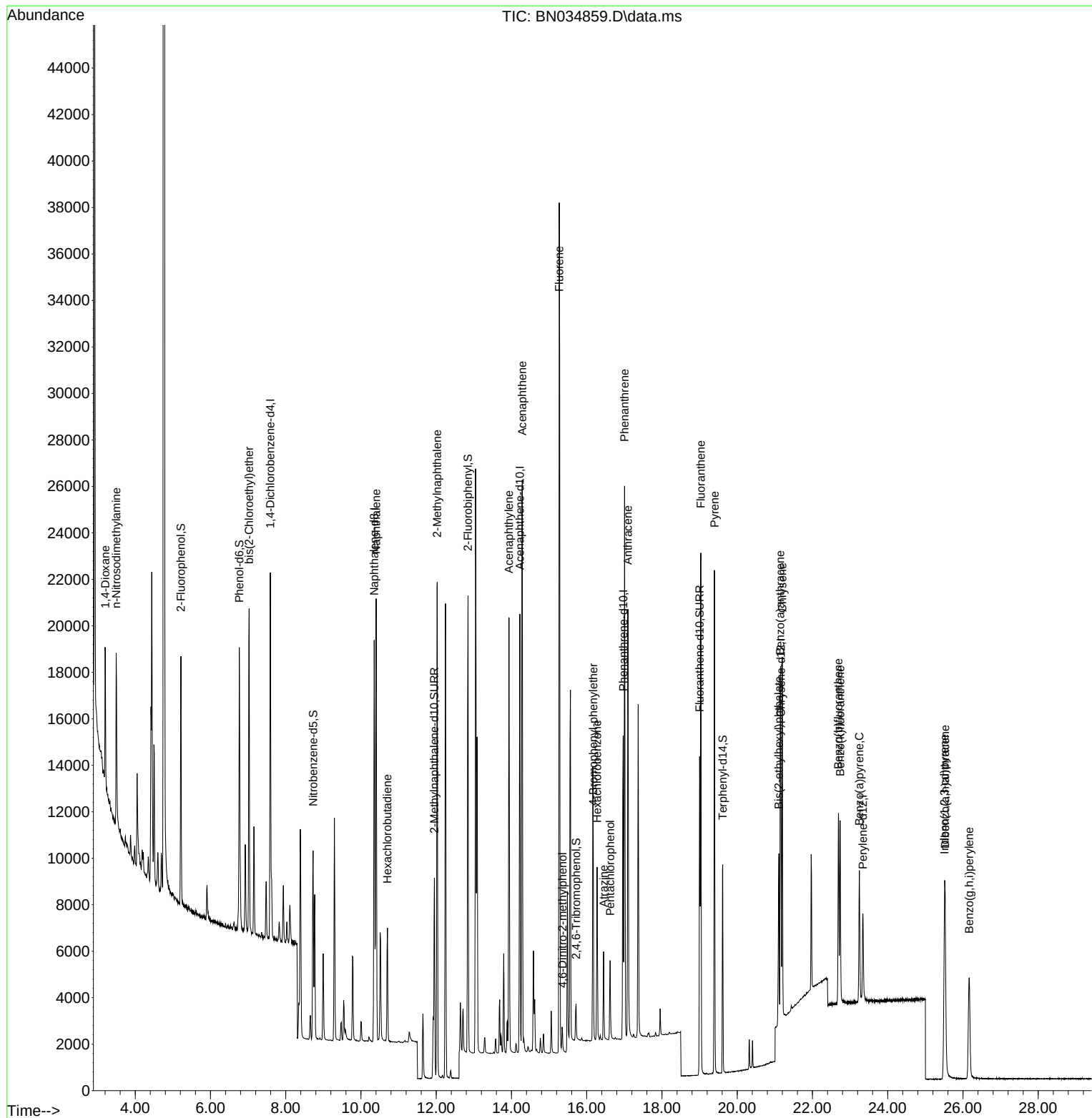
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.589	152	7147	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	21161	0.400	ng	0.00
13) Acenaphthene-d10	14.222	164	10006	0.400	ng	0.00
19) Phenanthrene-d10	16.970	188	17488	0.400	ng	0.00
29) Chrysene-d12	21.160	240	6741	0.400	ng	# 0.00
35) Perylene-d12	23.341	264	4990	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.213	112	7634	0.353	ng	0.00
5) Phenol-d6	6.766	99	10311	0.367	ng	0.00
8) Nitrobenzene-d5	8.728	82	6356	0.382	ng	0.00
11) 2-Methylnaphthalene-d10	11.950	152	15054	0.491	ng	0.00
14) 2,4,6-Tribromophenol	15.716	330	857	0.173	ng	0.00
15) 2-Fluorobiphenyl	12.843	172	16430	0.417	ng	0.00
27) Fluoranthene-d10	19.001	212	13140	0.320	ng	0.00
31) Terphenyl-d14	19.614	244	7472	0.516	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.205	88	2924	0.373	ng	# 51
3) n-Nitrosodimethylamine	3.494	42	4609	0.522	ng	# 84
6) bis(2-Chloroethyl)ether	7.026	93	9254	0.451	ng	95
9) Naphthalene	10.404	128	23622	0.404	ng	99
10) Hexachlorobutadiene	10.703	225	3743	0.388	ng	# 98
12) 2-Methylnaphthalene	12.026	142	14691	0.384	ng	99
16) Acenaphthylene	13.933	152	19473	0.388	ng	99
17) Acenaphthene	14.286	154	13014	0.389	ng	95
18) Fluorene	15.270	166	15596	0.374	ng	99
20) 4,6-Dinitro-2-methylph...	15.355	198	632	0.369	ng	90
21) 4-Bromophenyl-phenylether	16.175	248	4086	0.404	ng	# 90
22) Hexachlorobenzene	16.275	284	5011	0.442	ng	94
23) Atrazine	16.448	200	2756	0.316	ng	95
24) Pentachlorophenol	16.622	266	1542	0.316	ng	98
25) Phenanthrene	17.007	178	22674	0.441	ng	100
26) Anthracene	17.094	178	19672	0.409	ng	100
28) Fluoranthene	19.034	202	19140	0.338	ng	98
30) Pyrene	19.396	202	18719	0.531	ng	100
32) Benzo(a)anthracene	21.142	228	10922	0.407	ng	99
33) Chrysene	21.196	228	12073	0.460	ng	99
34) Bis(2-ethylhexyl)phtha...	21.107	149	6202	0.276	ng	95
36) Indeno(1,2,3-cd)pyrene	25.507	276	10050	0.547	ng	94
37) Benzo(b)fluoranthene	22.689	252	9537	0.475	ng	# 92
38) Benzo(k)fluoranthene	22.736	252	9540	0.487	ng	# 92
39) Benzo(a)pyrene	23.244	252	7931	0.478	ng	# 88
40) Dibenzo(a,h)anthracene	25.525	278	7688	0.537	ng	98
41) Benzo(g,h,i)perylene	26.165	276	8287	0.536	ng	94

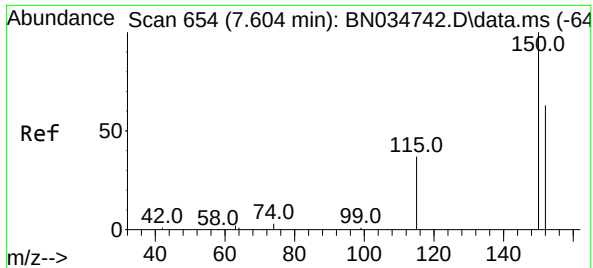
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 Acq On : 05 Nov 2024 02:57
 Operator : RC/JU
 Sample : PB164594BS
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB164594BS

Quant Time: Nov 05 03:50:48 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 05 00:03:28 2024
 Response via : Initial Calibration

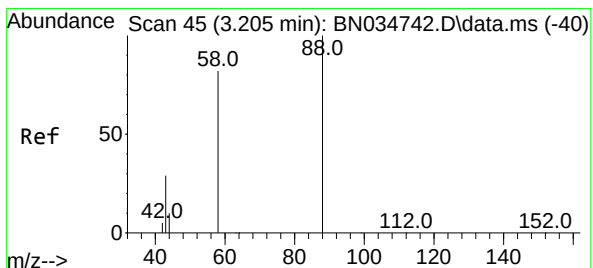
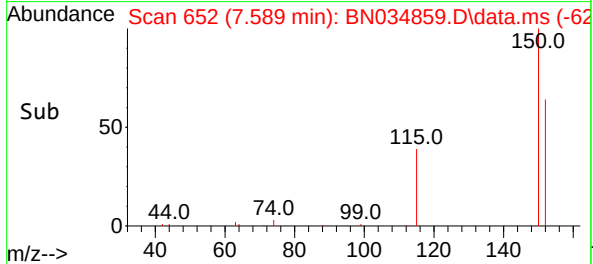
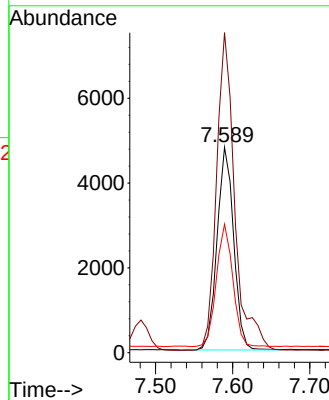
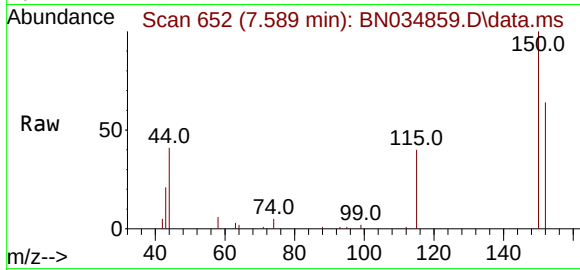




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.589 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN034859.D
Acq: 05 Nov 2024 02:57

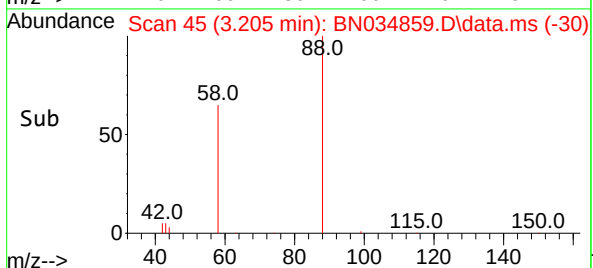
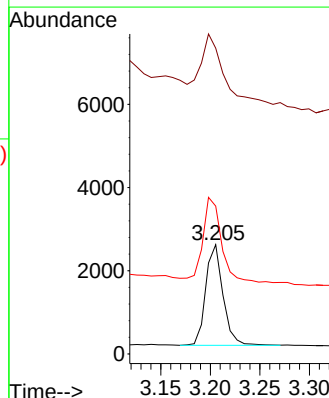
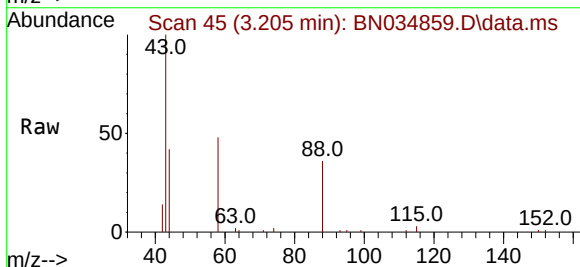
Instrument :
BNA_N
ClientSampleId :
PB164594BS

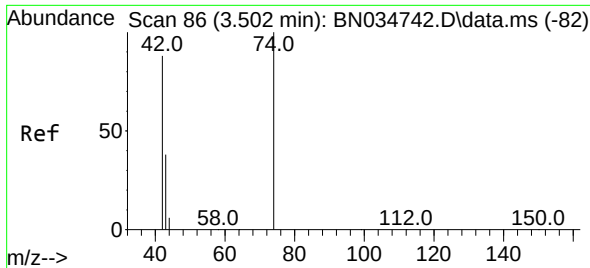
Tgt Ion:152 Resp: 7147
Ion Ratio Lower Upper
152 100
150 155.7 124.9 187.3
115 62.6 50.2 75.2



#2
1,4-Dioxane
Concen: 0.373 ng
RT: 3.205 min Scan# 45
Delta R.T. 0.007 min
Lab File: BN034859.D
Acq: 05 Nov 2024 02:57

Tgt Ion: 88 Resp: 2924
Ion Ratio Lower Upper
88 100
43 95.0 26.7 40.1#
58 92.4 59.3 88.9#

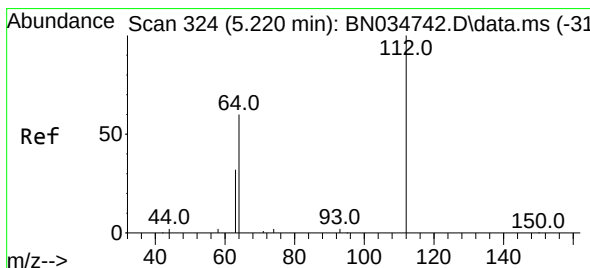
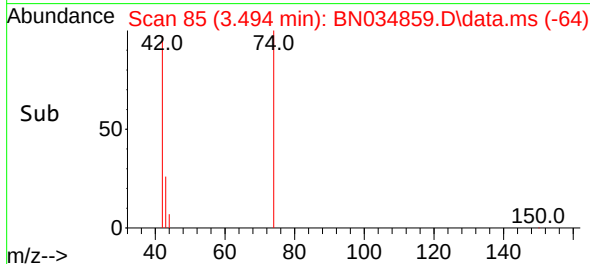
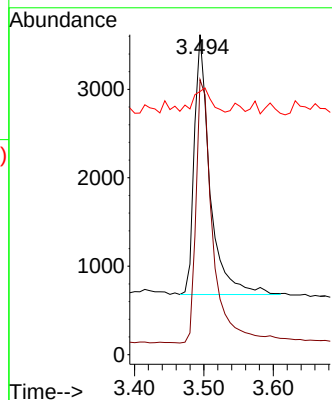
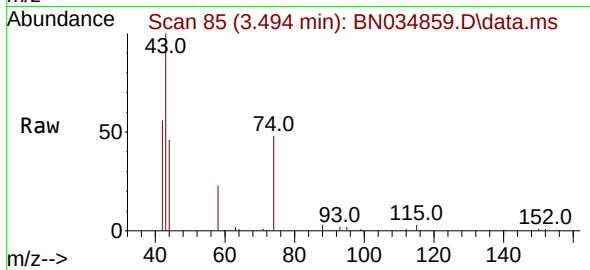




#3
n-Nitrosodimethylamine
Concen: 0.522 ng
RT: 3.494 min Scan# 81
Delta R.T. -0.000 min
Lab File: BN034859.D
Acq: 05 Nov 2024 02:57

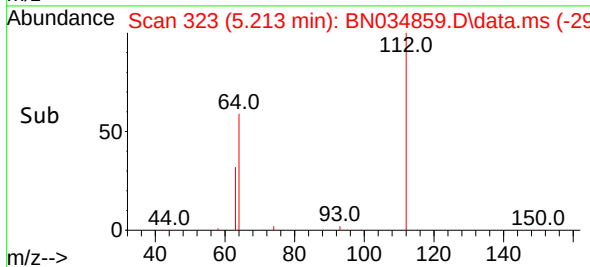
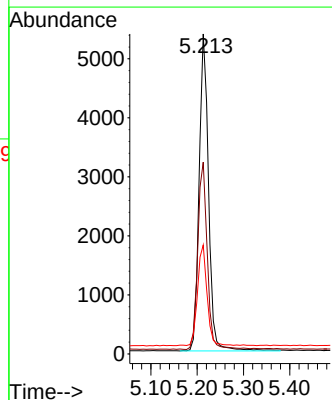
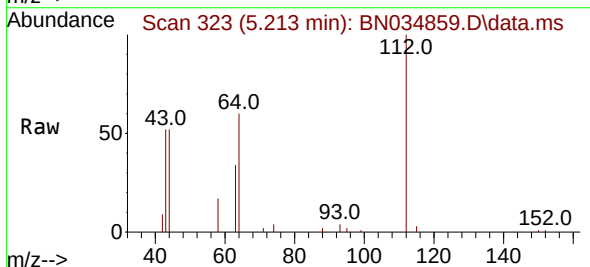
Instrument :
BNA_N
ClientSampleId :
PB164594BS

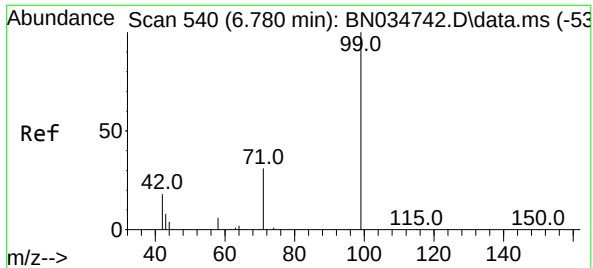
Tgt Ion: 42 Resp: 4609
Ion Ratio Lower Upper
42 100
74 109.6 103.1 154.7
44 11.6 6.7 10.1#



#4
2-Fluorophenol
Concen: 0.353 ng
RT: 5.213 min Scan# 323
Delta R.T. -0.000 min
Lab File: BN034859.D
Acq: 05 Nov 2024 02:57

Tgt Ion: 112 Resp: 7634
Ion Ratio Lower Upper
112 100
64 59.5 44.9 67.3
63 32.0 23.5 35.3

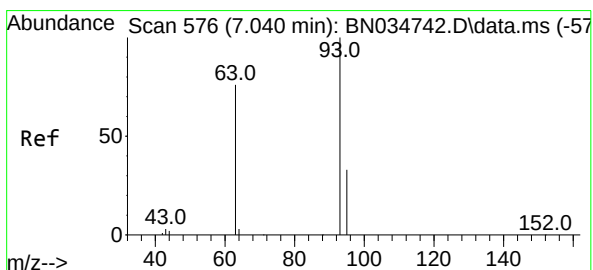
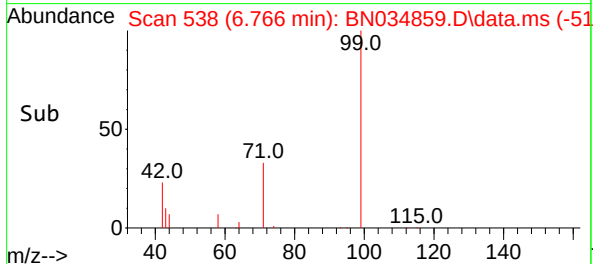
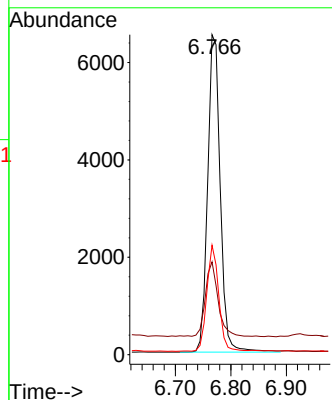
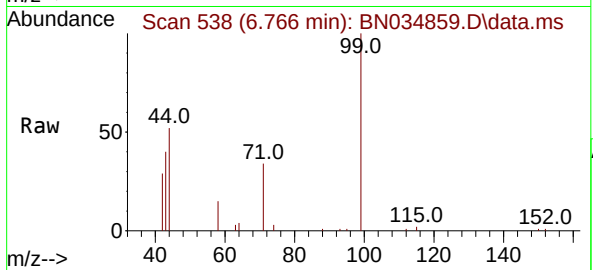




#5
Phenol-d6
Concen: 0.367 ng
RT: 6.766 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN034859.D
Acq: 05 Nov 2024 02:57

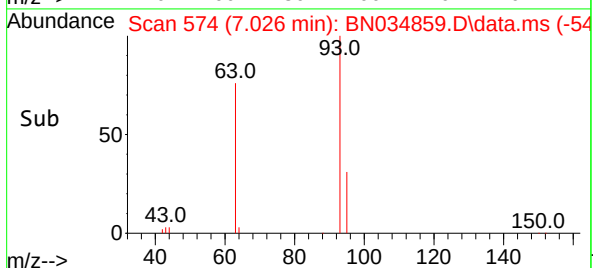
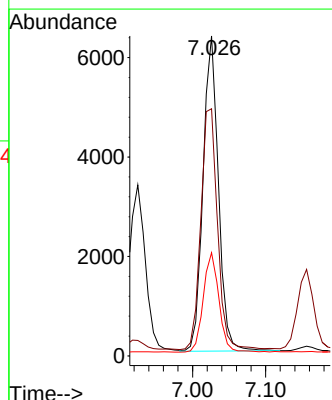
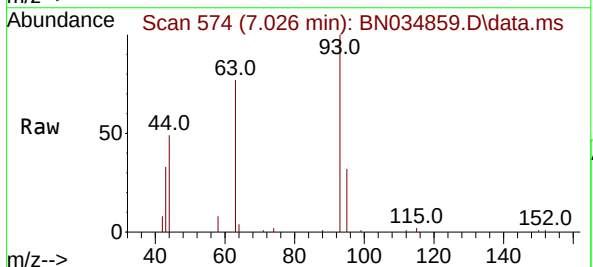
Instrument :
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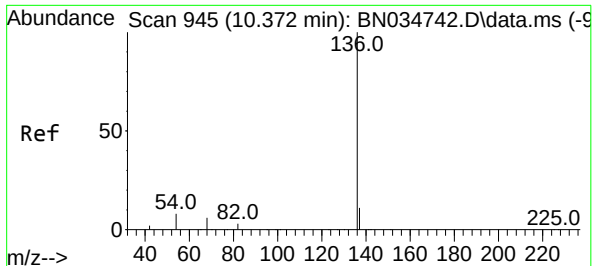
Tgt Ion: 99 Resp: 10311
Ion Ratio Lower Upper
99 100
42 23.8 15.9 23.9
71 31.7 24.3 36.5



#6
bis(2-Chloroethyl)ether
Concen: 0.451 ng
RT: 7.026 min Scan# 574
Delta R.T. -0.000 min
Lab File: BN034859.D
Acq: 05 Nov 2024 02:57

Tgt Ion: 93 Resp: 9254
Ion Ratio Lower Upper
93 100
63 82.9 61.2 91.8
95 32.1 25.8 38.8

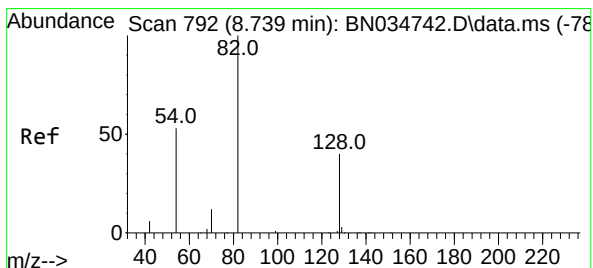
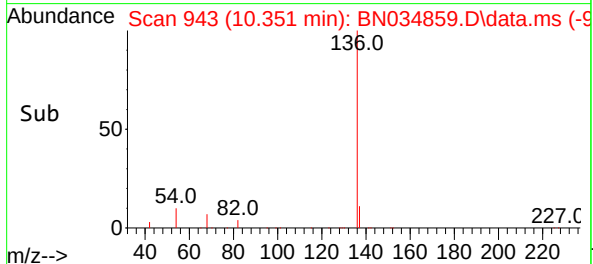
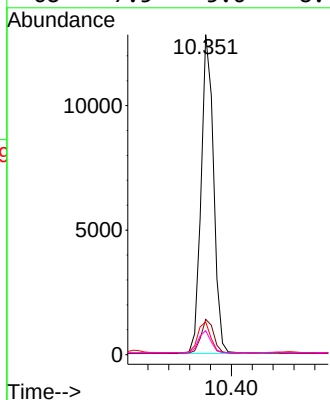
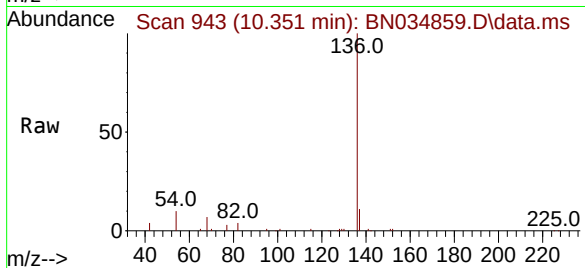




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 945
Delta R.T. -0.000 min
Lab File: BN034859.D
Acq: 05 Nov 2024 02:57

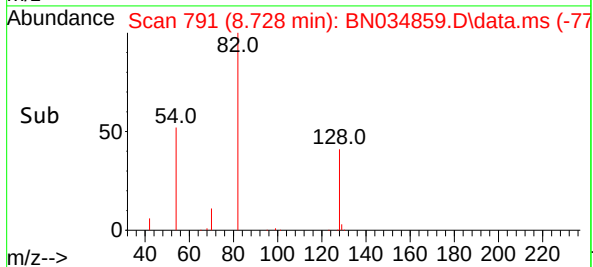
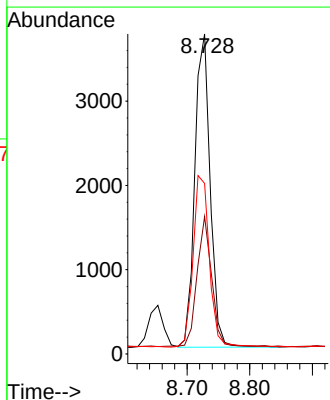
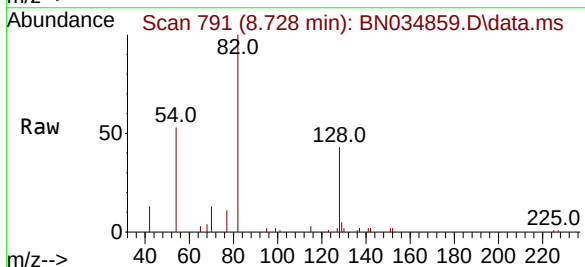
Instrument :
BNA_N
ClientSampleId :
PB164594BS

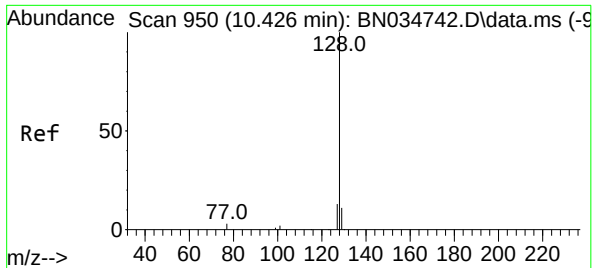
Tgt Ion:	136	Resp:	21161
Ion	Ratio	Lower	Upper
136	100		
137	11.0	9.2	13.8
54	10.2	7.0	10.4
68	7.5	5.6	8.4



#8
Nitrobenzene-d5
Concen: 0.382 ng
RT: 8.728 min Scan# 791
Delta R.T. -0.000 min
Lab File: BN034859.D
Acq: 05 Nov 2024 02:57

Tgt Ion:	82	Resp:	6356
Ion	Ratio	Lower	Upper
82	100		
128	43.0	33.7	50.5
54	53.3	44.4	66.6

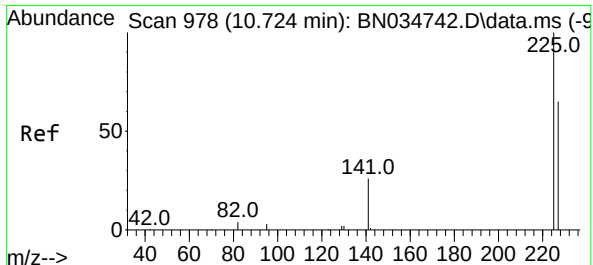
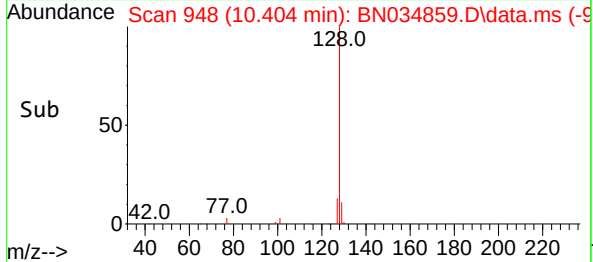
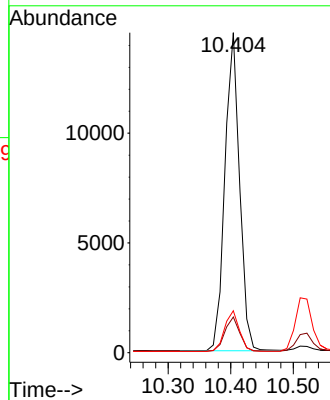
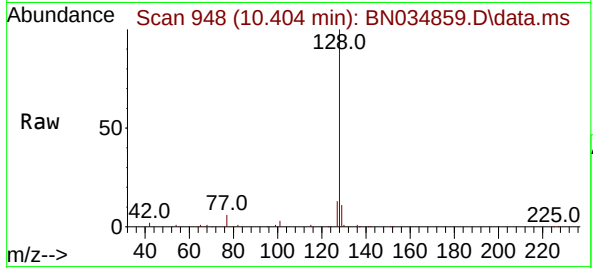




#9
Naphthalene
Concen: 0.404 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.000 min
Lab File: BN034859.D
Acq: 05 Nov 2024 02:57

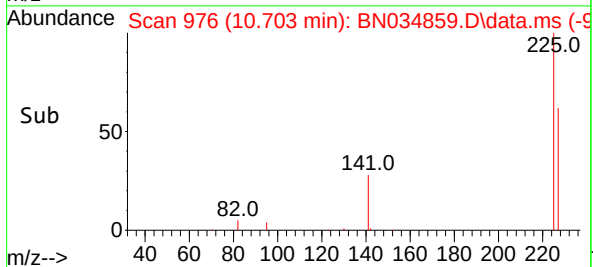
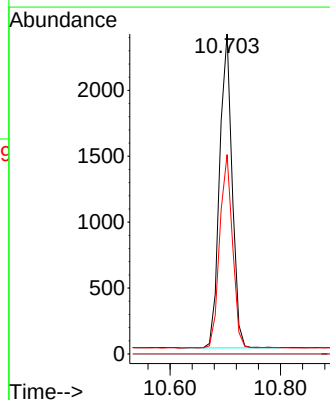
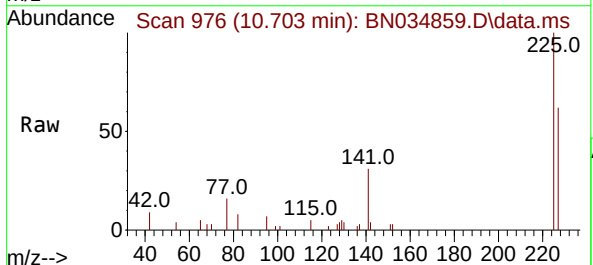
Instrument :
BNA_N
ClientSampleId :
PB164594BS

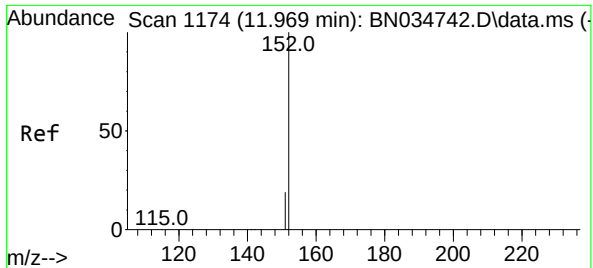
Tgt Ion:128 Resp: 23622
Ion Ratio Lower Upper
128 100
129 11.2 9.4 14.0
127 13.1 10.6 15.8



#10
Hexachlorobutadiene
Concen: 0.388 ng
RT: 10.703 min Scan# 976
Delta R.T. -0.000 min
Lab File: BN034859.D
Acq: 05 Nov 2024 02:57

Tgt Ion:225 Resp: 3743
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.1 51.4 77.2

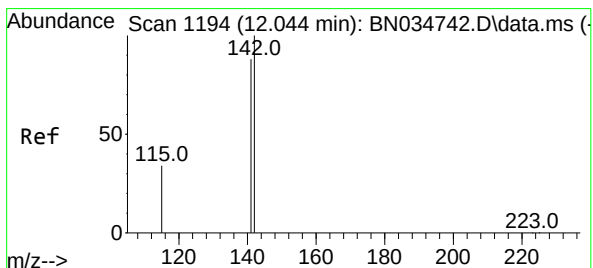
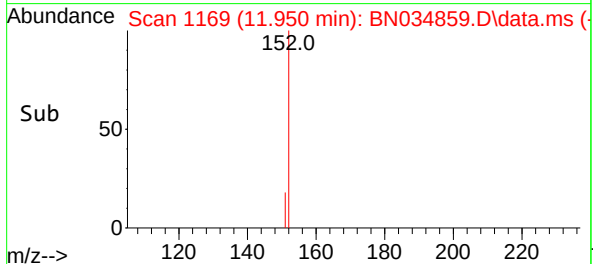
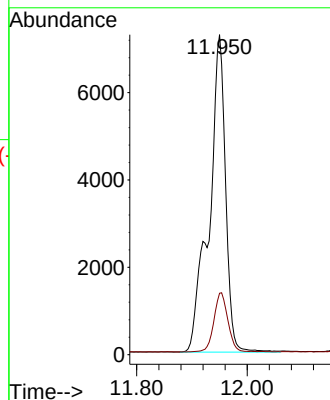
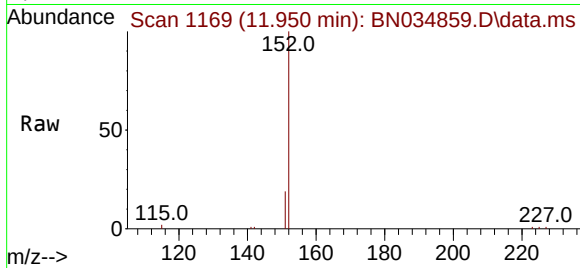




#11
2-Methylnaphthalene-d10
Concen: 0.491 ng
RT: 11.950 min Scan# 1169
Delta R.T. -0.000 min
Lab File: BN034859.D
Acq: 05 Nov 2024 02:57

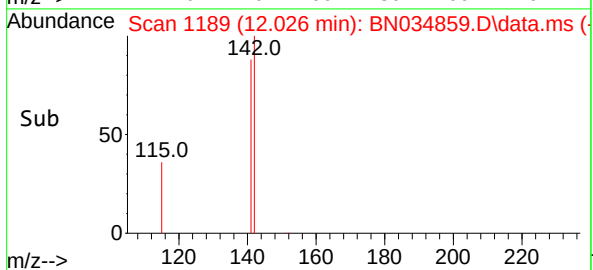
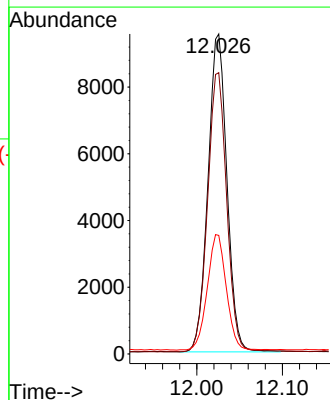
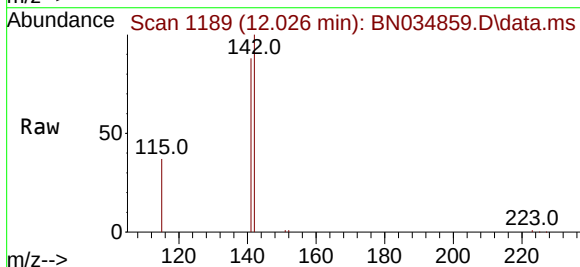
Instrument :
BNA_N
ClientSampleId :
PB164594BS

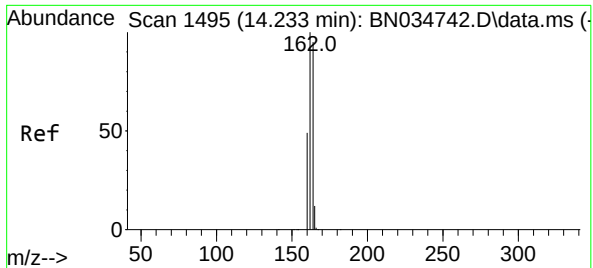
Tgt Ion:152 Resp: 15054
Ion Ratio Lower Upper
152 100
151 15.8 16.6 24.8#



#12
2-Methylnaphthalene
Concen: 0.384 ng
RT: 12.026 min Scan# 1189
Delta R.T. -0.000 min
Lab File: BN034859.D
Acq: 05 Nov 2024 02:57

Tgt Ion:142 Resp: 14691
Ion Ratio Lower Upper
142 100
141 87.9 70.6 106.0
115 37.1 28.6 42.8

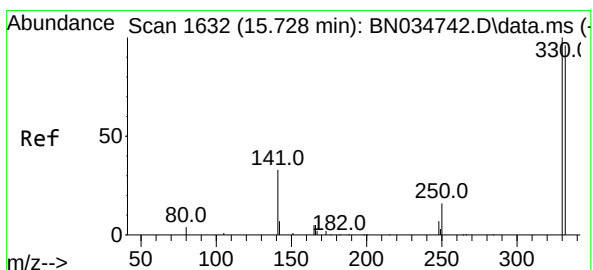
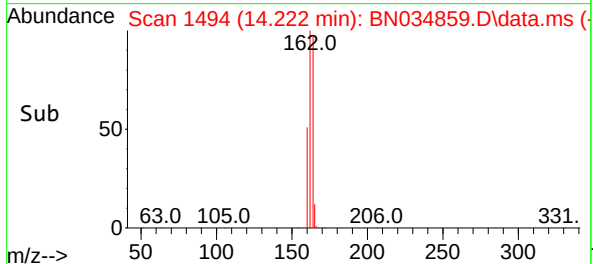
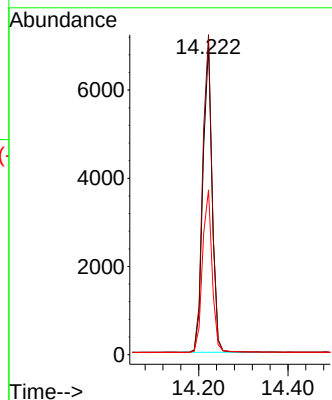
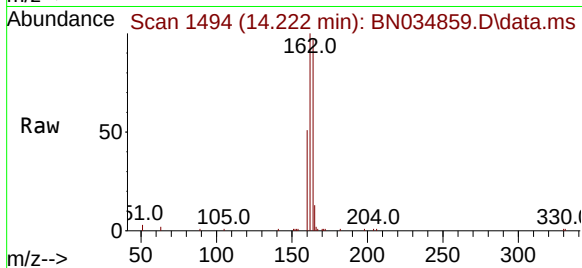




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.222 min Scan# 1494
Delta R.T. -0.000 min
Lab File: BN034859.D
Acq: 05 Nov 2024 02:57

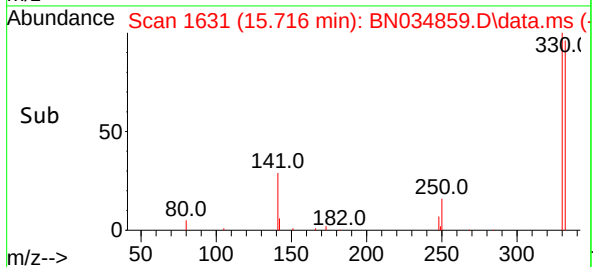
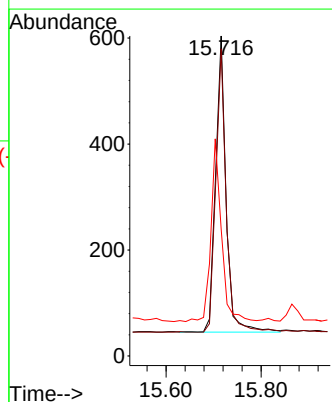
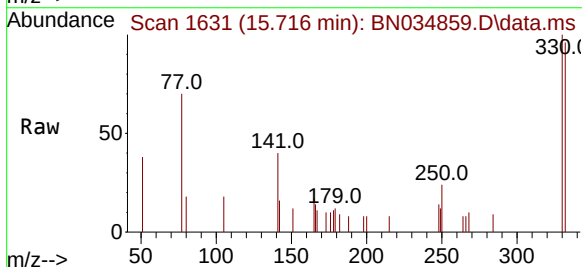
Instrument :
BNA_N
ClientSampleId :
PB164594BS

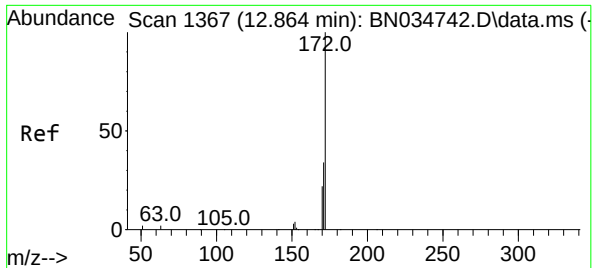
Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.3	84.3	126.5
160	53.2	41.7	62.5



#14
2,4,6-Tribromophenol
Concen: 0.173 ng
RT: 15.716 min Scan# 1631
Delta R.T. -0.000 min
Lab File: BN034859.D
Acq: 05 Nov 2024 02:57

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.1	77.8	116.6
141	62.4	41.0	61.4

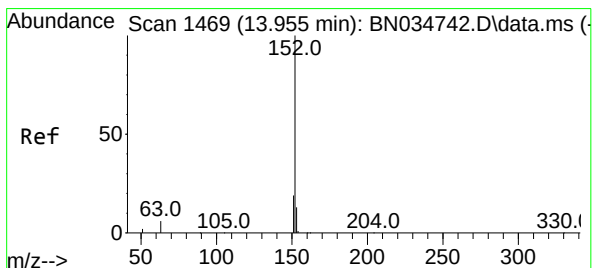
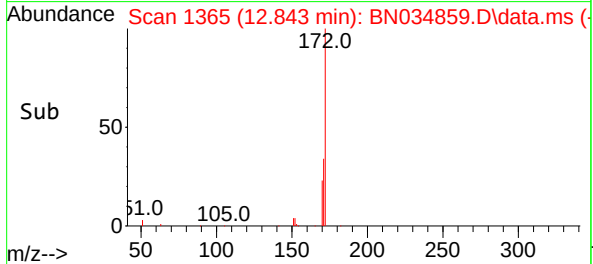
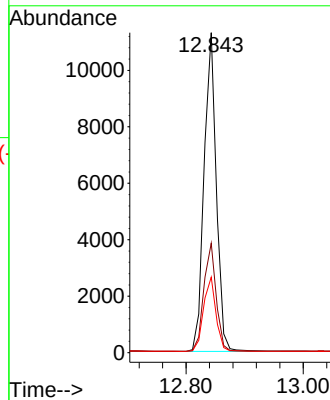
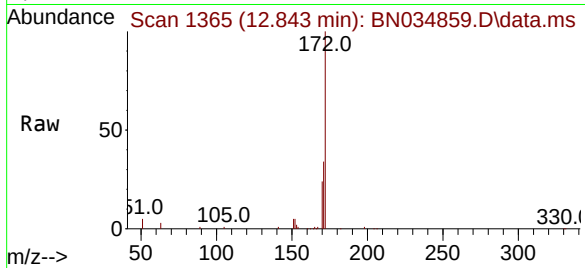




#15
2-Fluorobiphenyl
Concen: 0.417 ng
RT: 12.843 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN034859.D
Acq: 05 Nov 2024 02:57

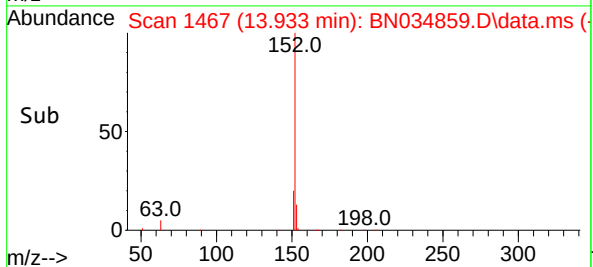
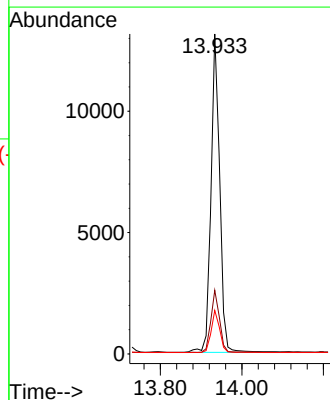
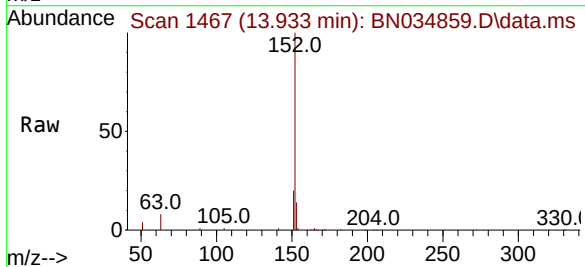
Instrument :
BNA_N
ClientSampleId :
PB164594BS

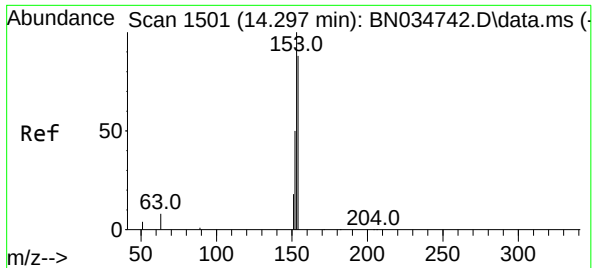
Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.2	27.2	40.8
170	23.6	18.0	27.0



#16
Acenaphthylene
Concen: 0.388 ng
RT: 13.933 min Scan# 1467
Delta R.T. -0.000 min
Lab File: BN034859.D
Acq: 05 Nov 2024 02:57

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.6	15.4	23.2
153	13.1	10.2	15.4

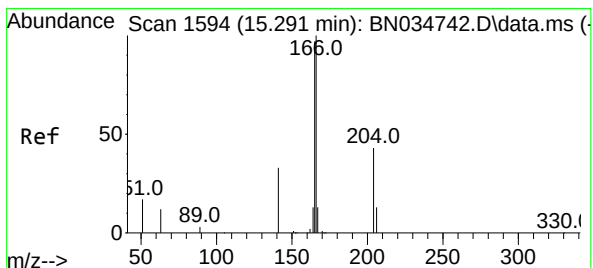
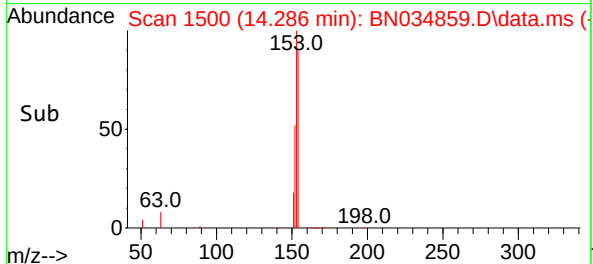
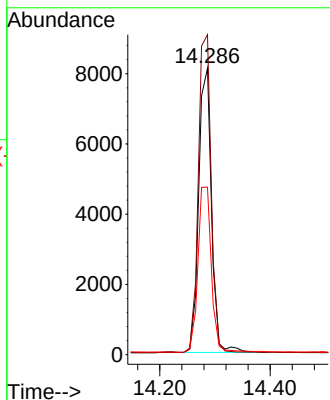
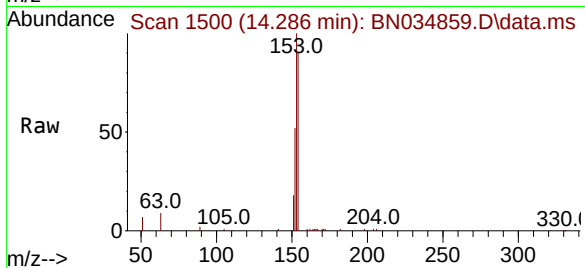




#17
Acenaphthene
Concen: 0.389 ng
RT: 14.286 min Scan# 1500
Delta R.T. -0.000 min
Lab File: BN034859.D
Acq: 05 Nov 2024 02:57

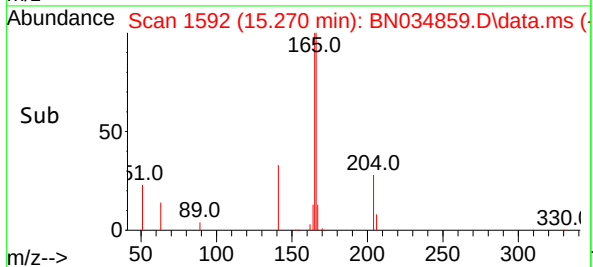
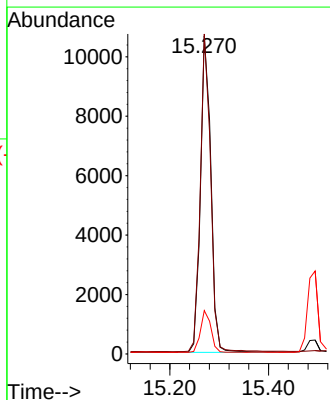
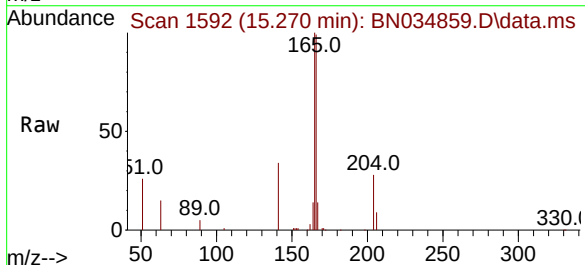
Instrument :
BNA_N
ClientSampleId :
PB164594BS

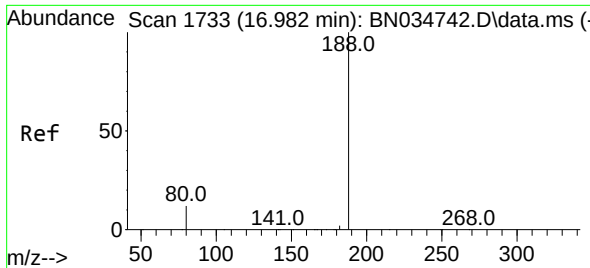
Tgt Ion	154	153	152
Resp:	13014	112.9	61.2
Ratio	100	87.8	44.6
Lower			
Upper		131.6	67.0



#18
Fluorene
Concen: 0.374 ng
RT: 15.270 min Scan# 1592
Delta R.T. -0.000 min
Lab File: BN034859.D
Acq: 05 Nov 2024 02:57

Tgt Ion	166	165	167
Resp:	15596	99.1	13.3
Ratio	100	78.5	10.8
Lower			
Upper		117.7	16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.970 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN034859.D

Acq: 05 Nov 2024 02:57

Instrument :

BNA_N

ClientSampleId :

PB164594BS

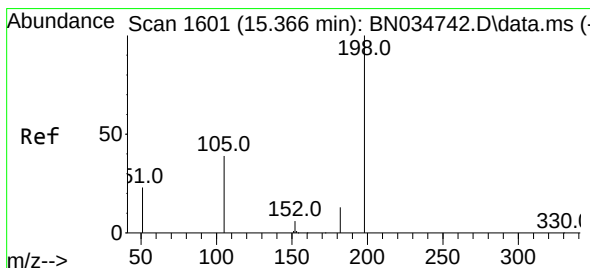
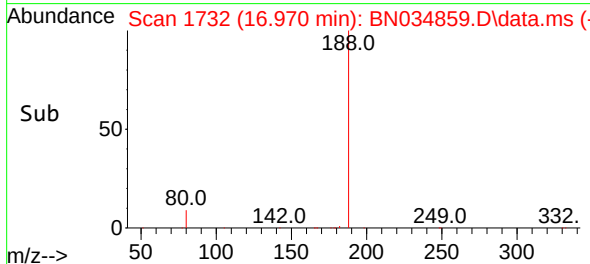
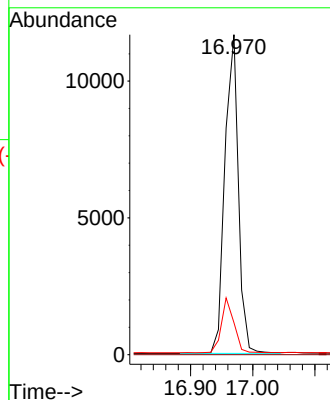
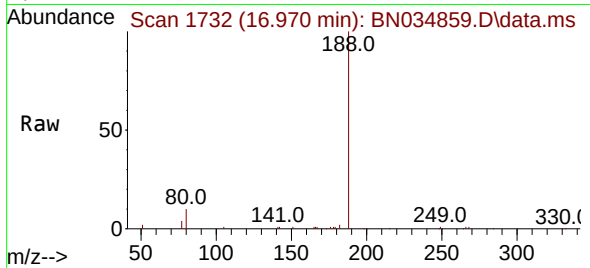
Tgt Ion:188 Resp: 17488

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.0 9.8 14.6



#20

4,6-Dinitro-2-methylphenol

Concen: 0.369 ng

RT: 15.355 min Scan# 1600

Delta R.T. -0.000 min

Lab File: BN034859.D

Acq: 05 Nov 2024 02:57

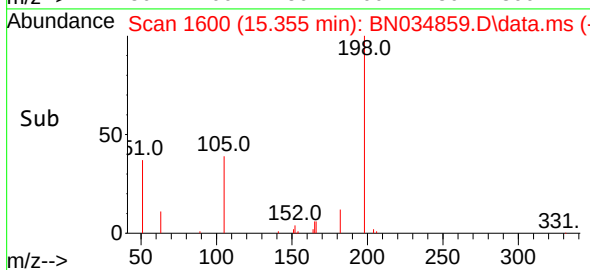
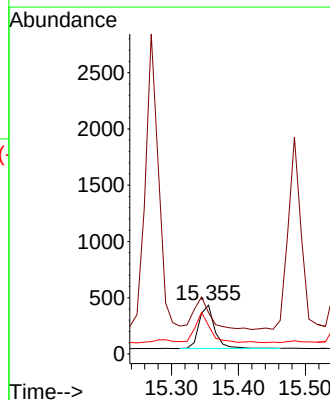
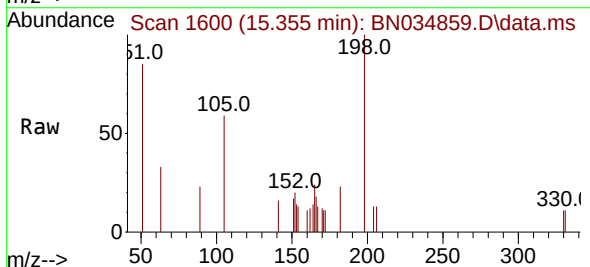
Tgt Ion:198 Resp: 632

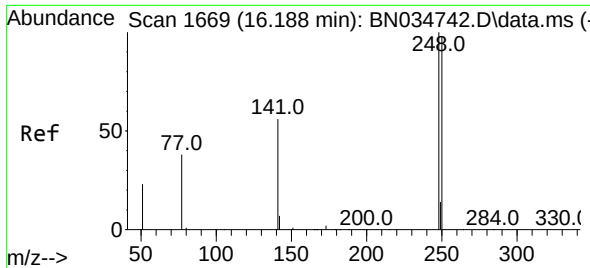
Ion Ratio Lower Upper

198 100

51 84.8 58.0 87.0

105 58.5 49.1 73.7

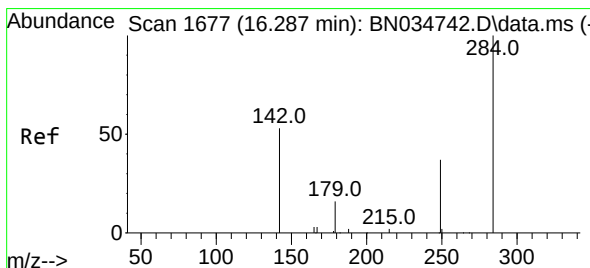
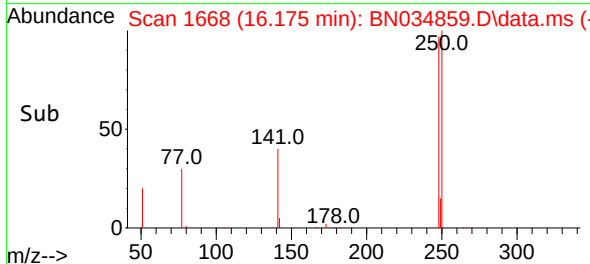
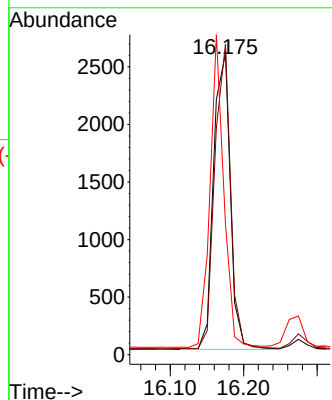
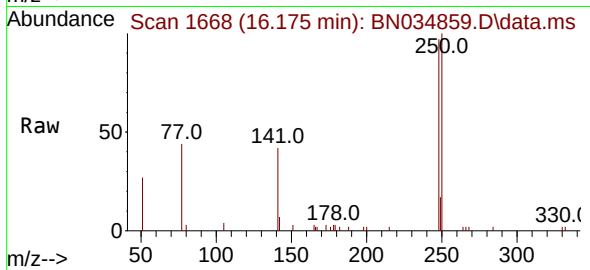




#21
4-Bromophenyl-phenylether
Concen: 0.404 ng
RT: 16.175 min Scan# 1668
Delta R.T. -0.000 min
Lab File: BN034859.D
Acq: 05 Nov 2024 02:57

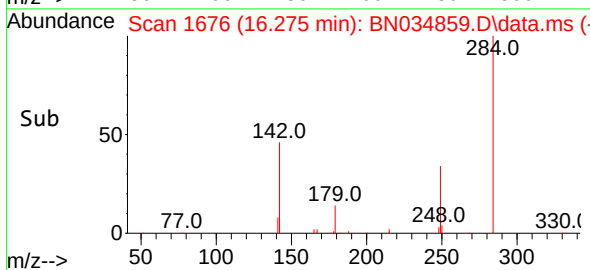
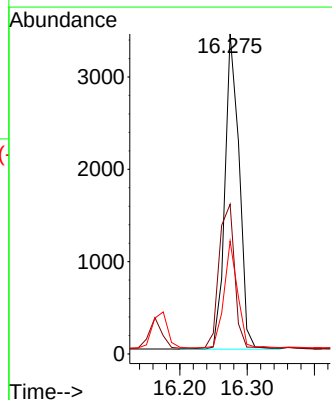
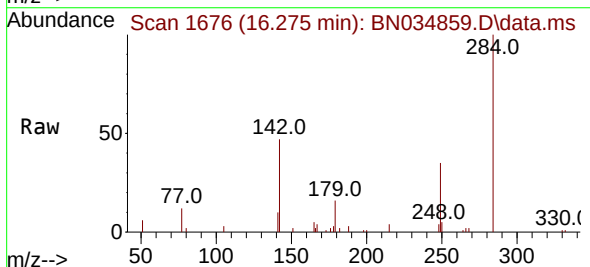
Instrument :
BNA_N
ClientSampleId :
PB164594BS

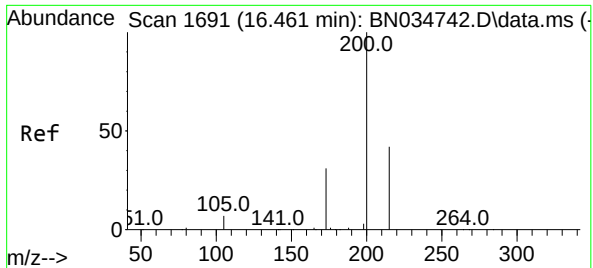
Tgt Ion:248 Resp: 4086
Ion Ratio Lower Upper
248 100
250 103.3 78.7 118.1
141 43.3 46.4 69.6#



#22
Hexachlorobenzene
Concen: 0.442 ng
RT: 16.275 min Scan# 1676
Delta R.T. -0.000 min
Lab File: BN034859.D
Acq: 05 Nov 2024 02:57

Tgt Ion:284 Resp: 5011
Ion Ratio Lower Upper
284 100
142 50.2 35.4 53.0
249 32.4 25.7 38.5

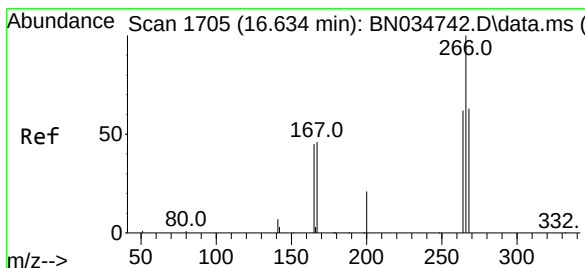
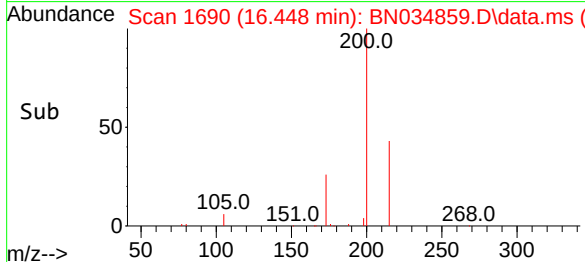
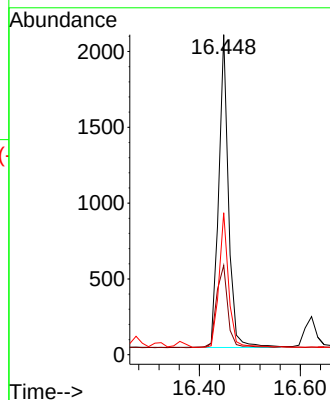
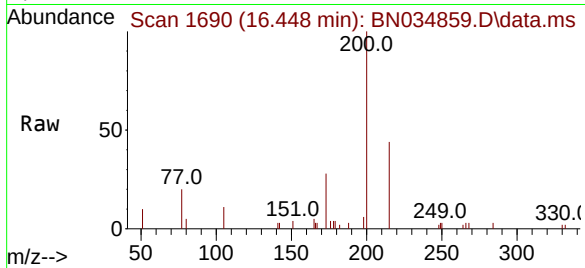




#23
Atrazine
Concen: 0.316 ng
RT: 16.448 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN034859.D
Acq: 05 Nov 2024 02:57

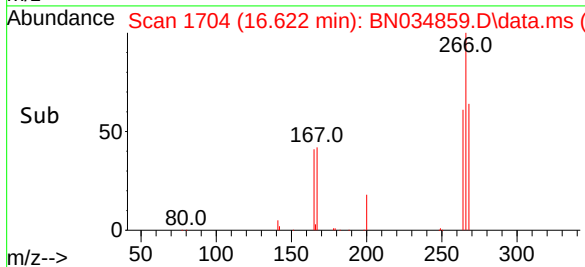
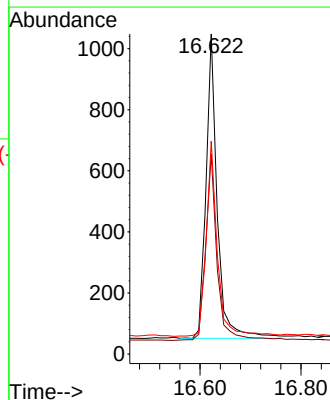
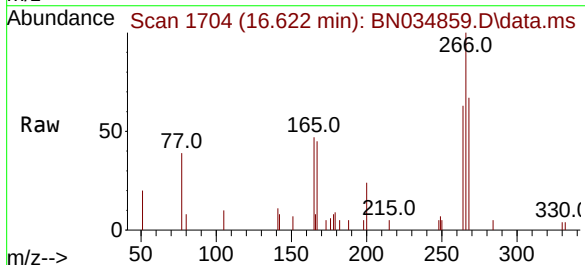
Instrument :
BNA_N
ClientSampleId :
PB164594BS

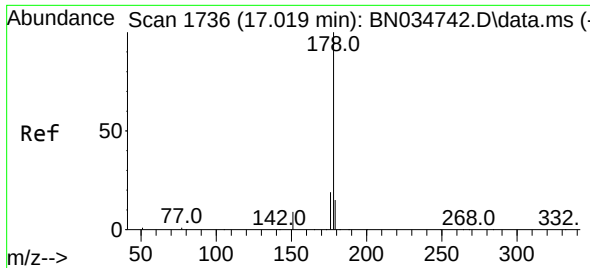
Tgt Ion	Ratio	Lower	Upper
200	100		
173	27.9	25.8	38.6
215	44.3	34.2	51.4



#24
Pentachlorophenol
Concen: 0.316 ng
RT: 16.622 min Scan# 1704
Delta R.T. -0.000 min
Lab File: BN034859.D
Acq: 05 Nov 2024 02:57

Tgt Ion	Ratio	Lower	Upper
266	100		
264	62.4	48.7	73.1
268	64.1	50.2	75.4

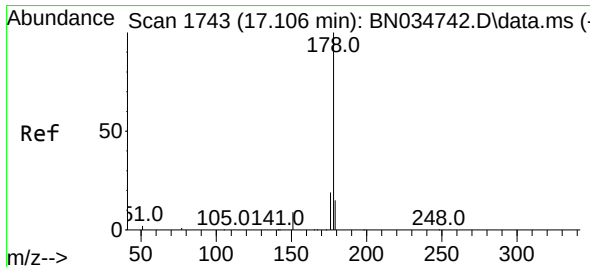
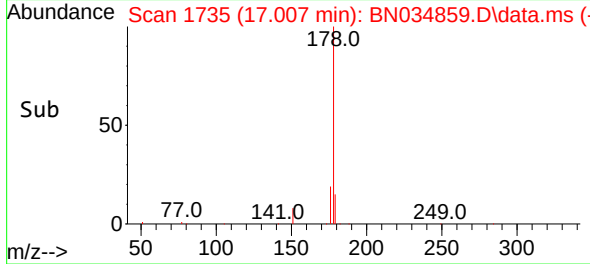
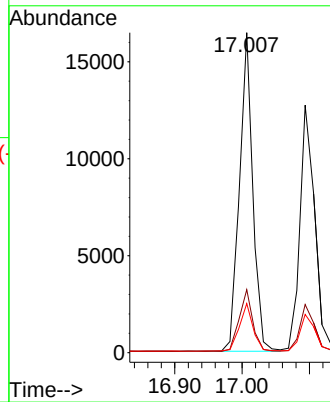
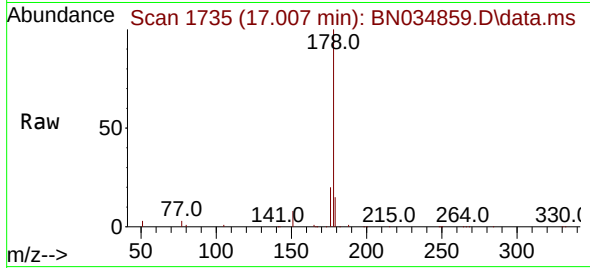




#25
Phenanthrene
Concen: 0.441 ng
RT: 17.007 min Scan# 1742
Delta R.T. -0.000 min
Lab File: BN034859.D
Acq: 05 Nov 2024 02:57

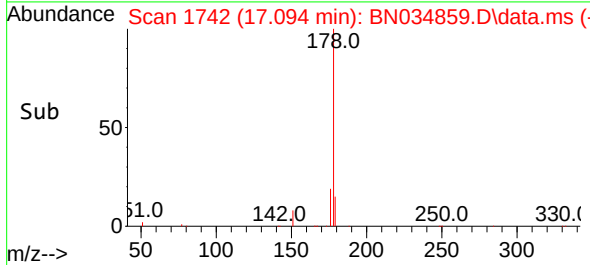
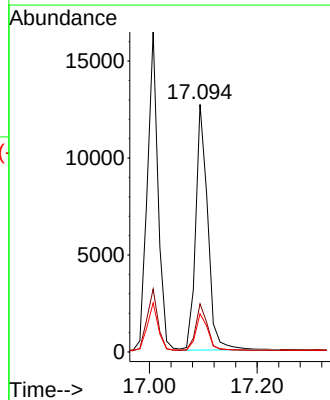
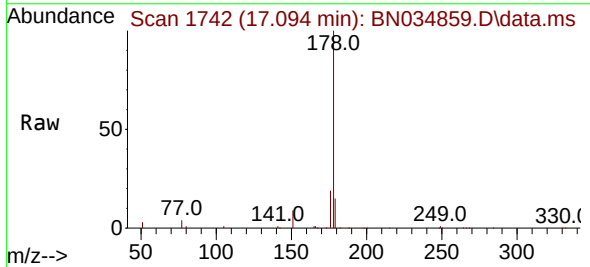
Instrument :
BNA_N
ClientSampleId :
PB164594BS

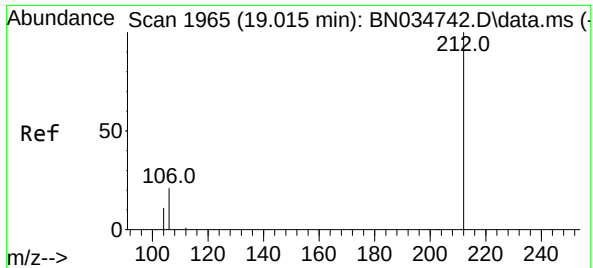
Tgt Ion:178 Resp: 22674
Ion Ratio Lower Upper
178 100
176 19.5 15.4 23.0
179 15.2 12.2 18.4



#26
Anthracene
Concen: 0.409 ng
RT: 17.094 min Scan# 1742
Delta R.T. -0.000 min
Lab File: BN034859.D
Acq: 05 Nov 2024 02:57

Tgt Ion:178 Resp: 19672
Ion Ratio Lower Upper
178 100
176 18.8 15.0 22.6
179 15.1 12.2 18.2





#27

Fluoranthene-d10

Concen: 0.320 ng

RT: 19.001 min Scan# 1969

Delta R.T. -0.000 min

Lab File: BN034859.D

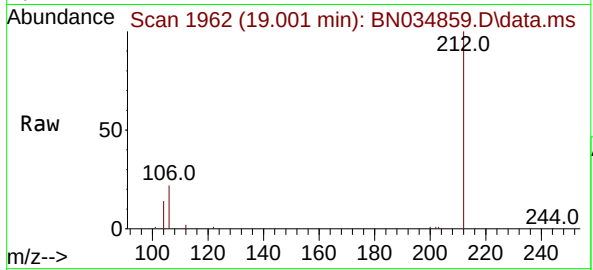
Acq: 05 Nov 2024 02:57

Instrument :

BNA_N

ClientSampleId :

PB164594BS



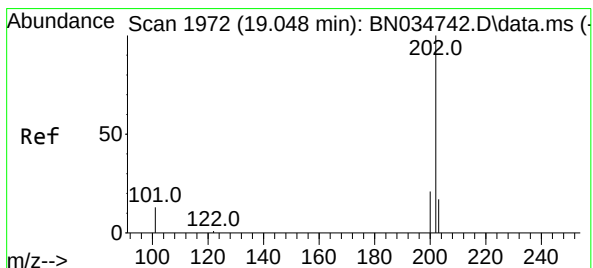
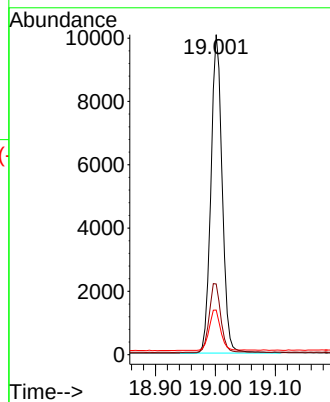
Tgt Ion:212 Resp: 13140

Ion Ratio Lower Upper

212 100

106 22.1 16.1 24.1

104 12.8 9.2 13.8



#28

Fluoranthene

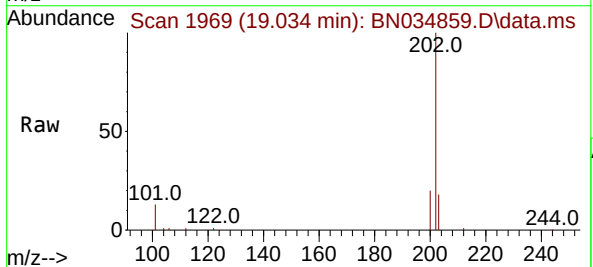
Concen: 0.338 ng

RT: 19.034 min Scan# 1969

Delta R.T. -0.000 min

Lab File: BN034859.D

Acq: 05 Nov 2024 02:57



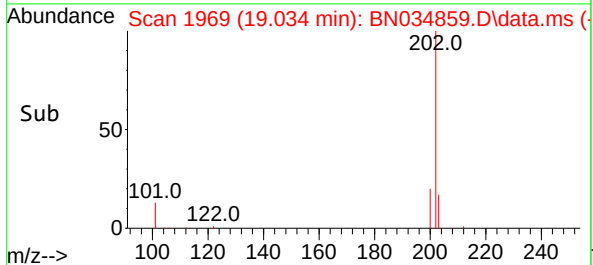
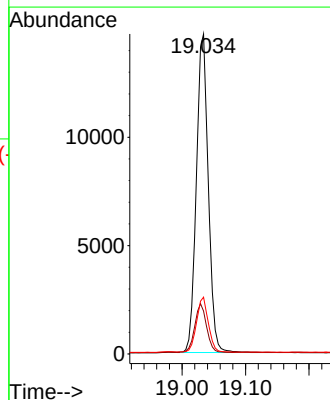
Tgt Ion:202 Resp: 19140

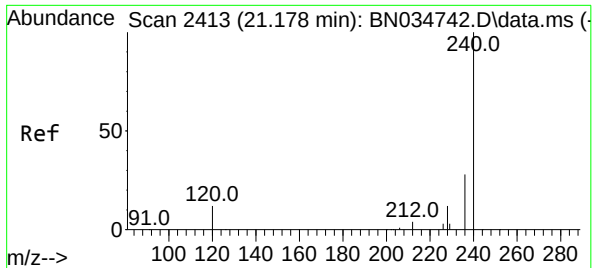
Ion Ratio Lower Upper

202 100

101 15.4 11.4 17.0

203 16.9 13.7 20.5

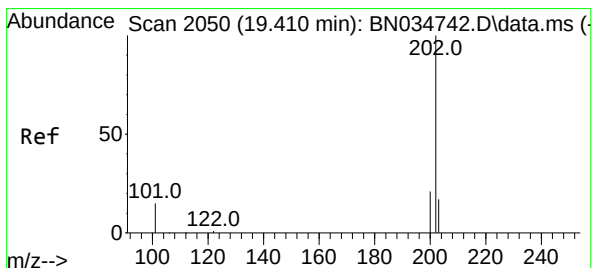
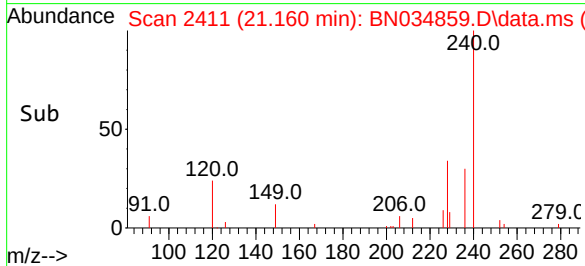
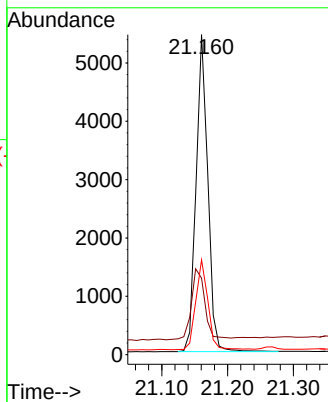
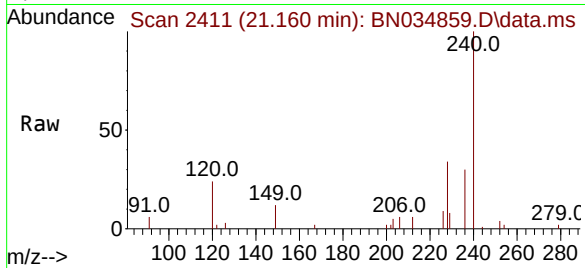




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.160 min Scan# 2411
Delta R.T. -0.000 min
Lab File: BN034859.D
Acq: 05 Nov 2024 02:57

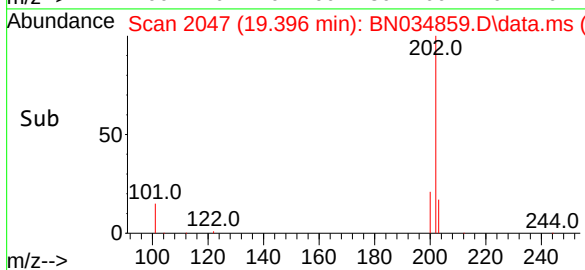
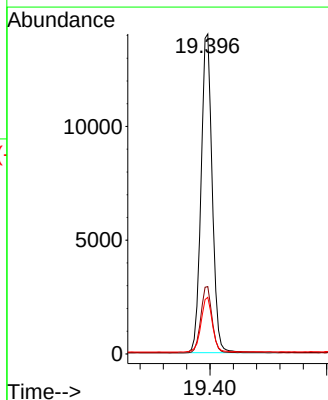
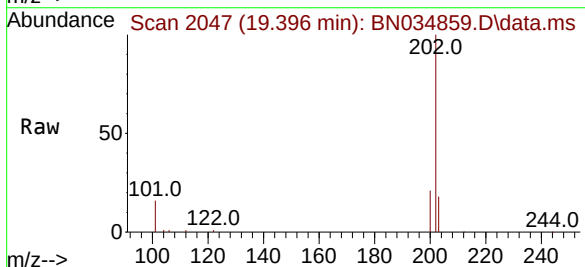
Instrument :
BNA_N
ClientSampleId :
PB164594BS

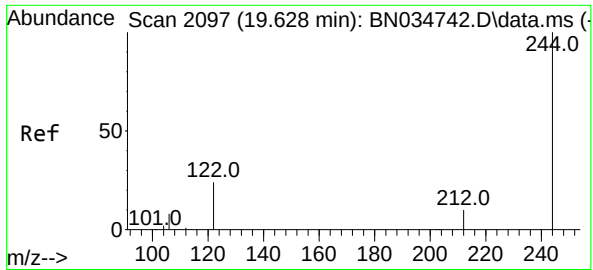
Tgt Ion:240 Resp: 6741
Ion Ratio Lower Upper
240 100
120 23.9 11.5 17.3#
236 29.6 23.2 34.8



#30
Pyrene
Concen: 0.531 ng
RT: 19.396 min Scan# 2047
Delta R.T. -0.000 min
Lab File: BN034859.D
Acq: 05 Nov 2024 02:57

Tgt Ion:202 Resp: 18719
Ion Ratio Lower Upper
202 100
200 21.0 17.0 25.4
203 17.6 14.2 21.2

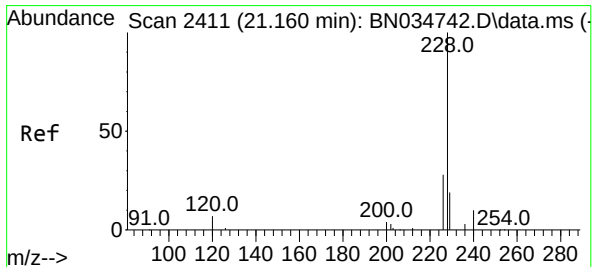
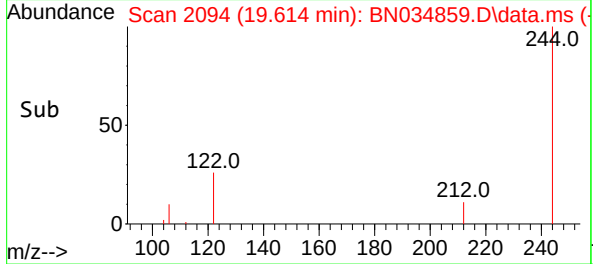
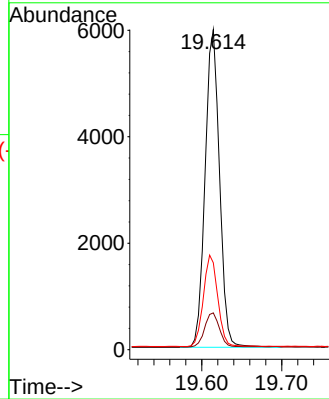
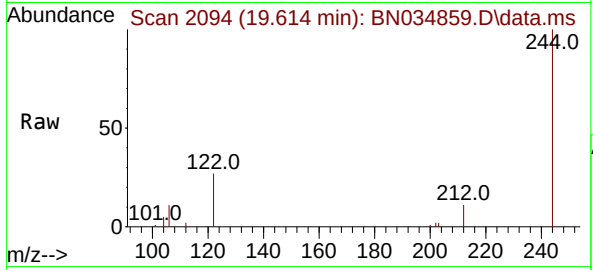




#31
Terphenyl-d14
Concen: 0.516 ng
RT: 19.614 min Scan# 2094
Delta R.T. -0.000 min
Lab File: BN034859.D
Acq: 05 Nov 2024 02:57

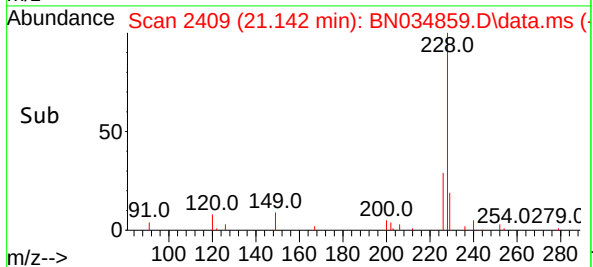
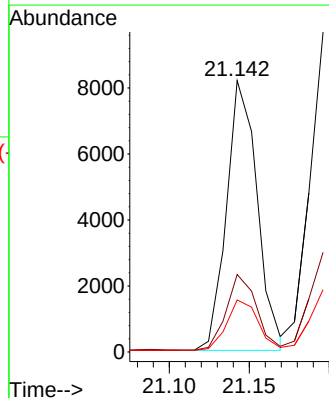
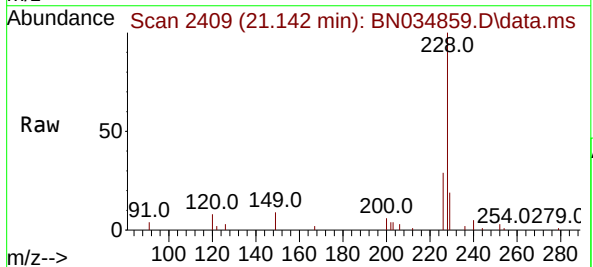
Instrument :
BNA_N
ClientSampleId :
PB164594BS

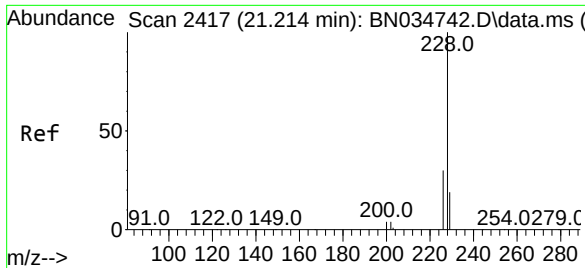
Tgt Ion:244 Resp: 7472
Ion Ratio Lower Upper
244 100
212 11.5 8.2 12.4
122 27.1 19.8 29.6



#32
Benzo(a)anthracene
Concen: 0.407 ng
RT: 21.142 min Scan# 2409
Delta R.T. -0.000 min
Lab File: BN034859.D
Acq: 05 Nov 2024 02:57

Tgt Ion:228 Resp: 10922
Ion Ratio Lower Upper
228 100
226 28.6 22.6 33.8
229 19.1 15.7 23.5





#33

Chrysene

Concen: 0.460 ng

RT: 21.196 min Scan# 2415

Delta R.T. -0.000 min

Lab File: BN034859.D

Acq: 05 Nov 2024 02:57

Instrument :

BNA_N

ClientSampleId :

PB164594BS

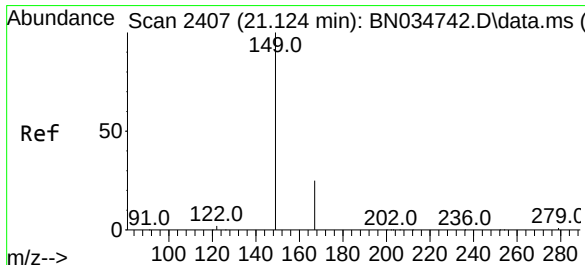
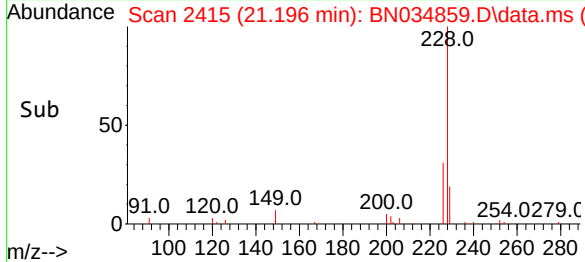
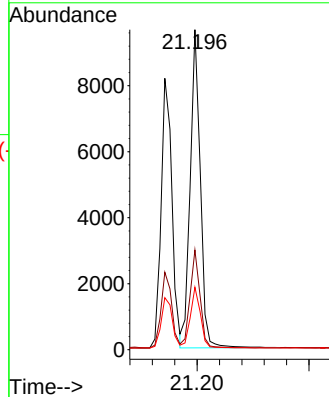
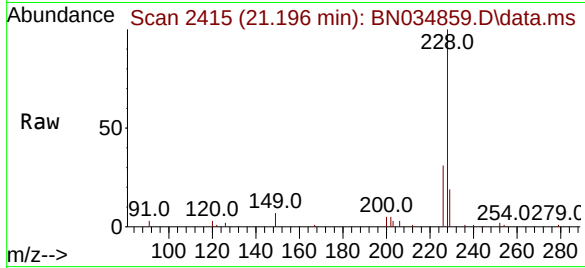
Tgt Ion:228 Resp: 12073

Ion Ratio Lower Upper

228 100

226 31.1 24.4 36.6

229 19.5 15.6 23.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.276 ng

RT: 21.107 min Scan# 2405

Delta R.T. -0.000 min

Lab File: BN034859.D

Acq: 05 Nov 2024 02:57

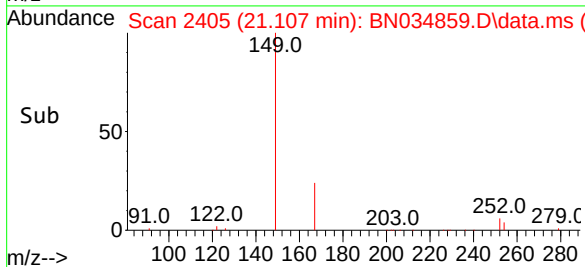
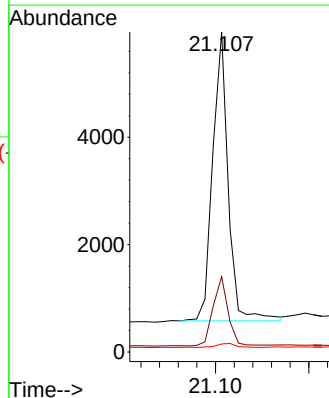
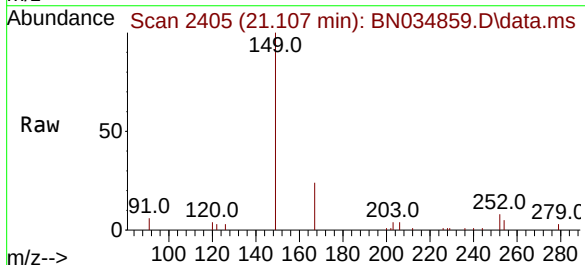
Tgt Ion:149 Resp: 6202

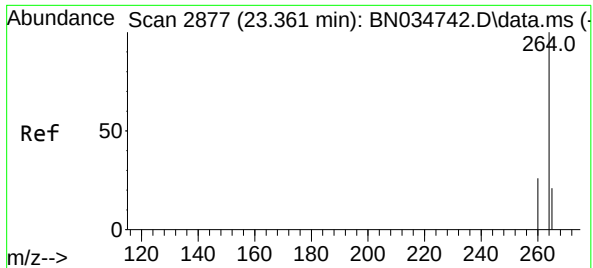
Ion Ratio Lower Upper

149 100

167 22.9 20.6 30.8

279 1.8 1.5 2.3

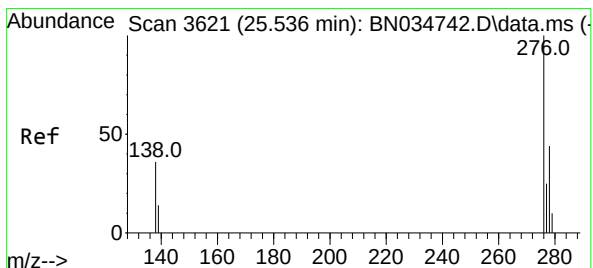
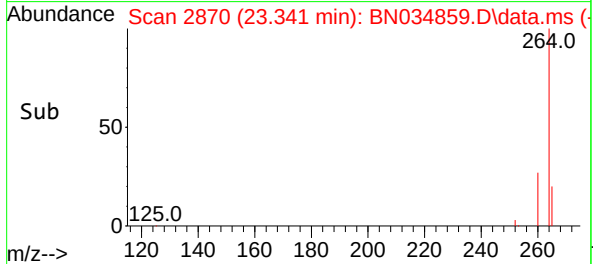
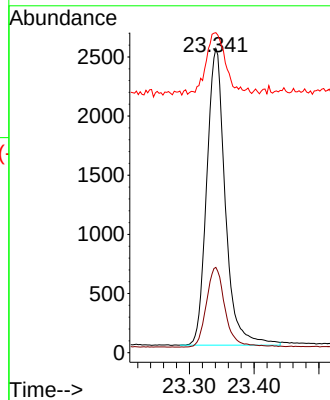
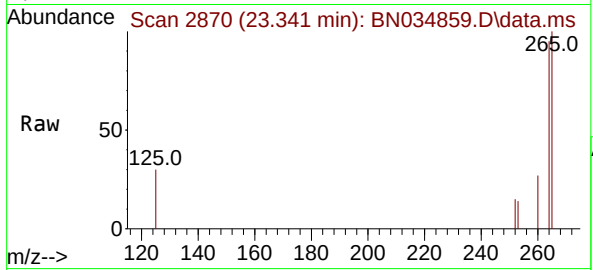




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.341 min Scan# 21
Delta R.T. 0.006 min
Lab File: BN034859.D
Acq: 05 Nov 2024 02:57

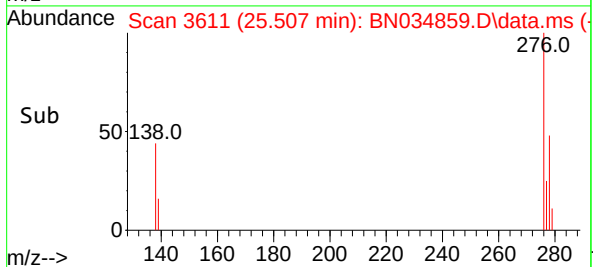
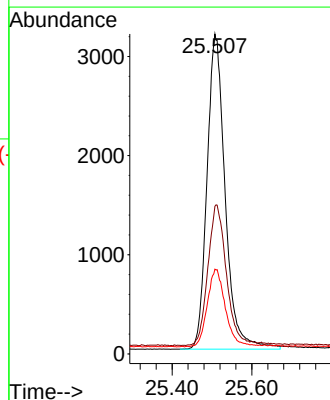
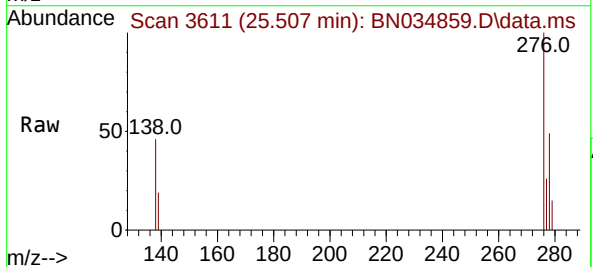
Instrument :
BNA_N
ClientSampleId :
PB164594BS

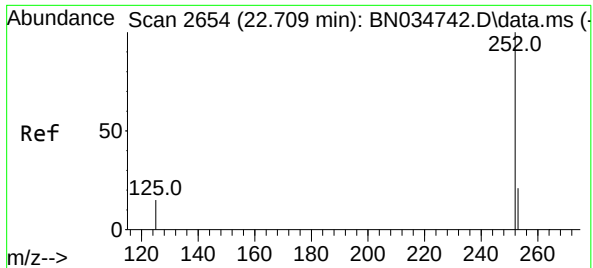
Tgt Ion:264 Resp: 4990
Ion Ratio Lower Upper
264 100
260 28.1 21.5 32.3
265 105.3 47.5 71.3#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.547 ng
RT: 25.507 min Scan# 3611
Delta R.T. 0.003 min
Lab File: BN034859.D
Acq: 05 Nov 2024 02:57

Tgt Ion:276 Resp: 10050
Ion Ratio Lower Upper
276 100
138 45.1 31.5 47.3
277 24.6 19.7 29.5





#37

Benzo(b)fluoranthene

Concen: 0.475 ng

RT: 22.689 min Scan# 2647

Delta R.T. -0.000 min

Lab File: BN034859.D

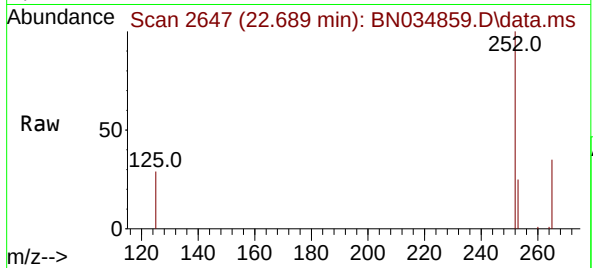
Acq: 05 Nov 2024 02:57

Instrument :

BNA_N

ClientSampleId :

PB164594BS



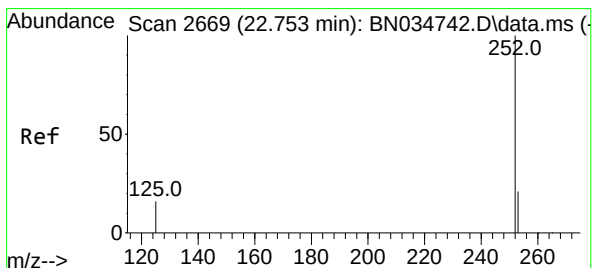
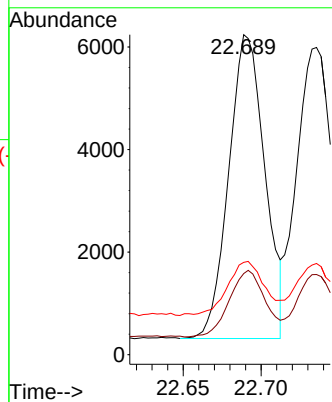
Tgt Ion:252 Resp: 9537

Ion Ratio Lower Upper

252 100

253 25.4 19.7 29.5

125 28.8 17.1 25.7#



#38

Benzo(k)fluoranthene

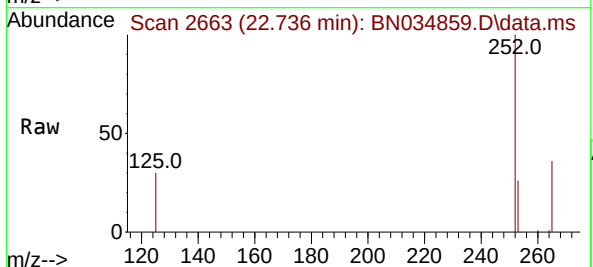
Concen: 0.487 ng

RT: 22.736 min Scan# 2663

Delta R.T. 0.006 min

Lab File: BN034859.D

Acq: 05 Nov 2024 02:57



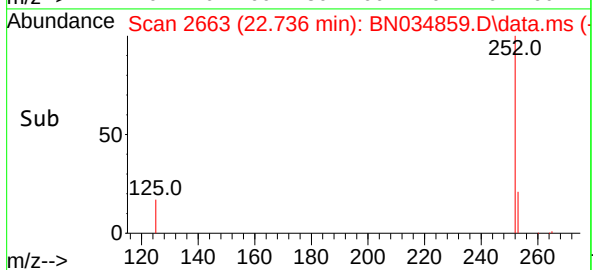
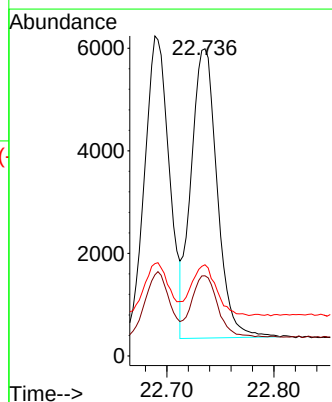
Tgt Ion:252 Resp: 9540

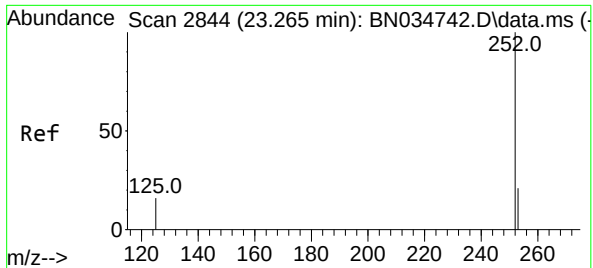
Ion Ratio Lower Upper

252 100

253 26.1 19.8 29.6

125 29.7 18.2 27.2#





#39

Benzo(a)pyrene

Concen: 0.478 ng

RT: 23.244 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN034859.D

Acq: 05 Nov 2024 02:57

Instrument :

BNA_N

ClientSampleId :

PB164594BS

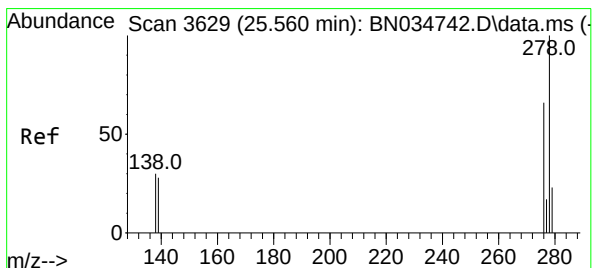
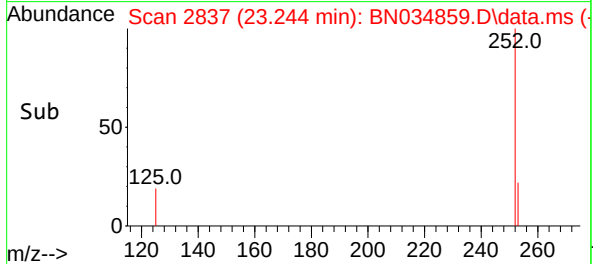
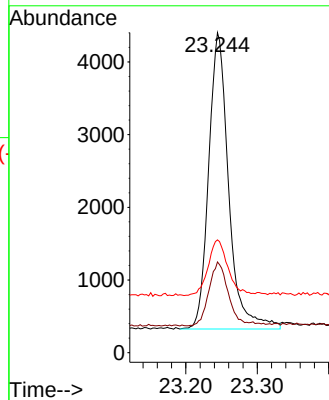
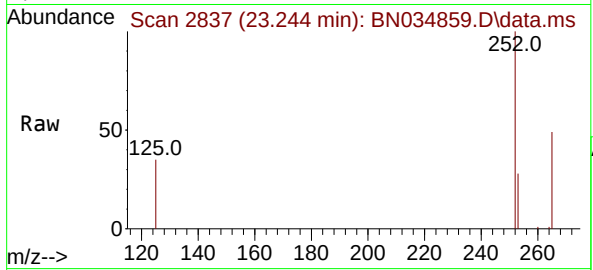
Tgt Ion:252 Resp: 7931

Ion Ratio Lower Upper

252 100

253 28.4 20.7 31.1

125 35.3 20.3 30.5#



#40

Dibenzo(a,h)anthracene

Concen: 0.537 ng

RT: 25.525 min Scan# 3617

Delta R.T. -0.000 min

Lab File: BN034859.D

Acq: 05 Nov 2024 02:57

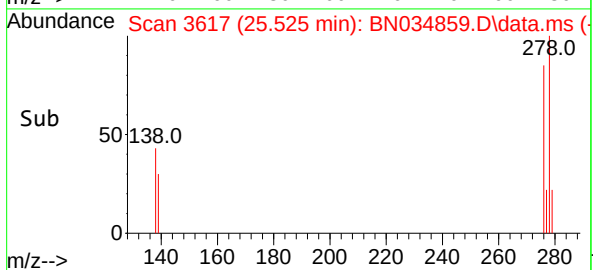
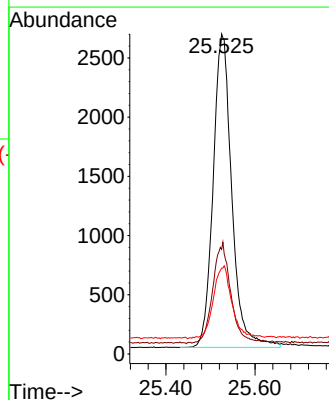
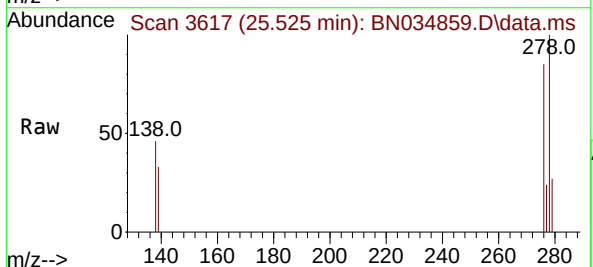
Tgt Ion:278 Resp: 7688

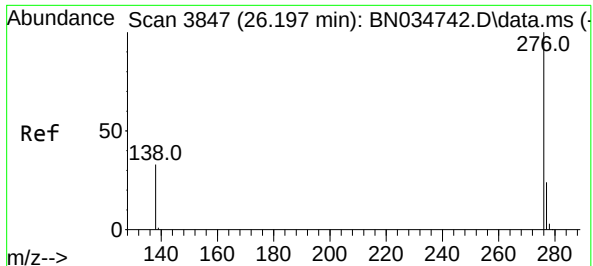
Ion Ratio Lower Upper

278 100

139 32.7 24.9 37.3

279 26.8 21.0 31.4





#41

Benzo(g,h,i)perylene

Concen: 0.536 ng

RT: 26.165 min Scan# 3836

Delta R.T. -0.000 min

Lab File: BN034859.D

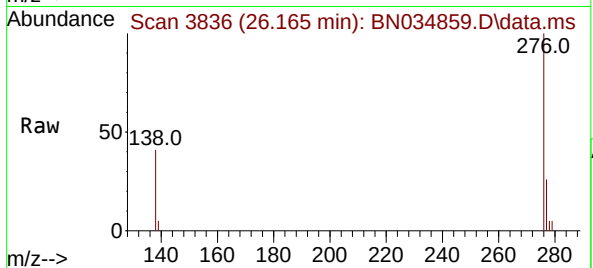
Acq: 05 Nov 2024 02:57

Instrument :

BNA_N

ClientSampleId :

PB164594BS



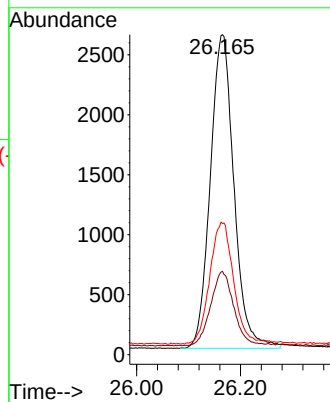
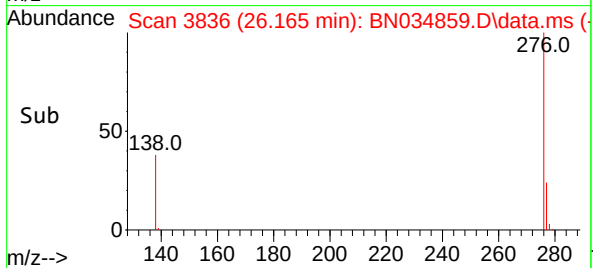
Tgt Ion:276 Resp: 8287

Ion Ratio Lower Upper

276 100

277 26.0 20.2 30.2

138 41.0 28.7 43.1



Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	CTO WE13		Date Received:	
Client Sample ID:	PB164594BSD		SDG No.:	P4652
Lab Sample ID:	PB164594BSD		Matrix:	Water
Analytical Method:	SW8270SIM		% Solid:	0
Sample Wt/Vol:	1000	Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOC-SIMGroup1
Extraction Type :		Decanted : N	Level :	LOW
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN034860.D	1	11/01/24 09:35	11/05/24 03:33	PB164594

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.39		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.48		30 - 150		121%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.32		30 - 150		79%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.39		55 - 111		97%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.44	*	53 - 106		109%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.52		58 - 132		131%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6750	7.589				
1146-65-2	Naphthalene-d8	19700	10.351				
15067-26-2	Acenaphthene-d10	8890	14.222				
1517-22-2	Phenanthrene-d10	15800	16.97				
1719-03-5	Chrysene-d12	5820	21.16				
1520-96-3	Perylene-d12	4710	23.338				

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\BN110424\
 Data File : BN034860.D
 Acq On : 05 Nov 2024 03:33
 Operator : RC/JU
 Sample : PB164594BSD
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB164594BSD

Quant Time: Nov 05 04:06:18 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 05 00:03:28 2024
 Response via : Initial Calibration

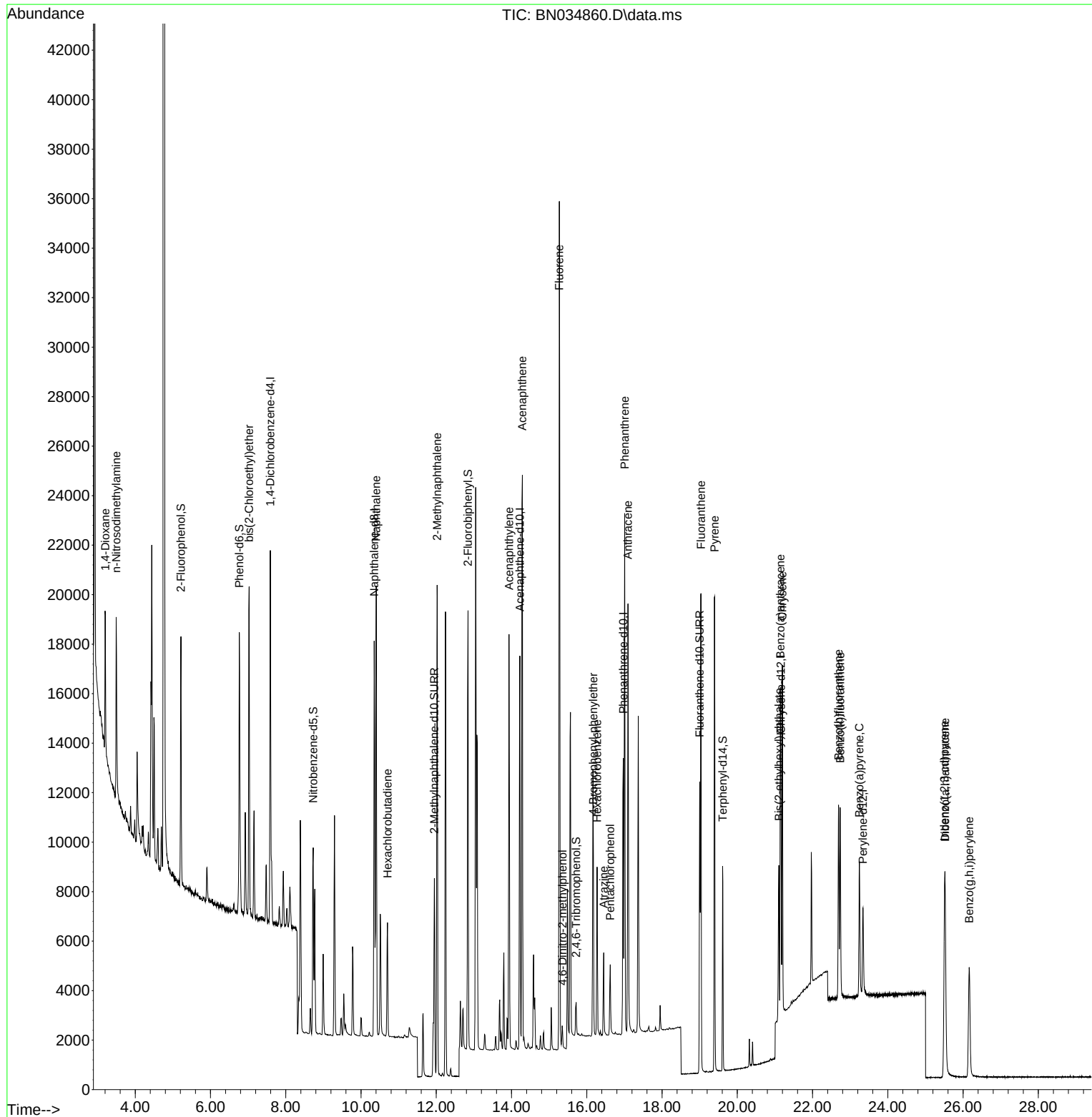
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.589	152	6749	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	19671	0.400	ng	0.00
13) Acenaphthene-d10	14.222	164	8893	0.400	ng	0.00
19) Phenanthrene-d10	16.970	188	15802	0.400	ng	0.00
29) Chrysene-d12	21.160	240	5819	0.400	ng	# 0.00
35) Perylene-d12	23.338	264	4708	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.213	112	7214	0.353	ng	0.00
5) Phenol-d6	6.766	99	9762	0.367	ng	0.00
8) Nitrobenzene-d5	8.728	82	6015	0.389	ng	0.00
11) 2-Methylnaphthalene-d10	11.950	152	13746	0.483	ng	0.00
14) 2,4,6-Tribromophenol	15.716	330	742	0.169	ng	0.00
15) 2-Fluorobiphenyl	12.843	172	15269	0.436	ng	0.00
27) Fluoranthene-d10	19.001	212	11742	0.317	ng	0.00
31) Terphenyl-d14	19.610	244	6548	0.524	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.206	88	2848	0.385	ng	# 44
3) n-Nitrosodimethylamine	3.494	42	4447	0.533	ng	# 83
6) bis(2-Chloroethyl)ether	7.026	93	8920	0.460	ng	94
9) Naphthalene	10.404	128	22538	0.414	ng	99
10) Hexachlorobutadiene	10.703	225	3557	0.397	ng	# 99
12) 2-Methylnaphthalene	12.022	142	13714	0.385	ng	97
16) Acenaphthylene	13.934	152	17846	0.400	ng	100
17) Acenaphthene	14.286	154	11944	0.402	ng	94
18) Fluorene	15.270	166	14326	0.387	ng	99
20) 4,6-Dinitro-2-methylph...	15.355	198	563	0.366	ng	89
21) 4-Bromophenyl-phenylether	16.175	248	3665	0.401	ng	# 90
22) Hexachlorobenzene	16.275	284	4511	0.441	ng	93
23) Atrazine	16.448	200	2499	0.317	ng	96
24) Pentachlorophenol	16.622	266	1399	0.317	ng	99
25) Phenanthrene	17.007	178	20226	0.435	ng	99
26) Anthracene	17.094	178	17921	0.412	ng	100
28) Fluoranthene	19.034	202	16959	0.331	ng	99
30) Pyrene	19.396	202	16485	0.542	ng	100
32) Benzo(a)anthracene	21.143	228	9762	0.421	ng	100
33) Chrysene	21.196	228	10851	0.478	ng	99
34) Bis(2-ethylhexyl)phtha...	21.107	149	5095	0.263	ng	96
36) Indeno(1,2,3-cd)pyrene	25.507	276	9759	0.563	ng	93
37) Benzo(b)fluoranthene	22.689	252	9144	0.482	ng	# 90
38) Benzo(k)fluoranthene	22.733	252	9232	0.499	ng	# 91
39) Benzo(a)pyrene	23.244	252	7529	0.481	ng	# 88
40) Dibenzo(a,h)anthracene	25.525	278	7525	0.557	ng	95
41) Benzo(g,h,i)perylene	26.162	276	8203	0.562	ng	93

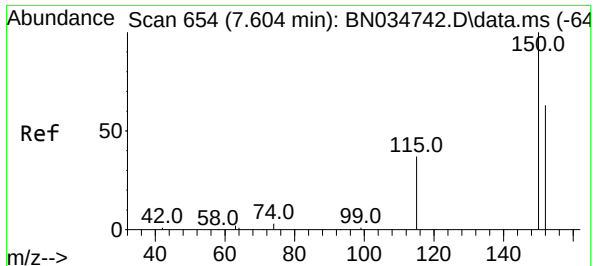
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110424\
Data File : BN034860.D
Acq On : 05 Nov 2024 03:33
Operator : RC/JU
Sample : PB164594BSD
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB164594BSD

Quant Time: Nov 05 04:06:18 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 05 00:03:28 2024
Response via : Initial Calibration

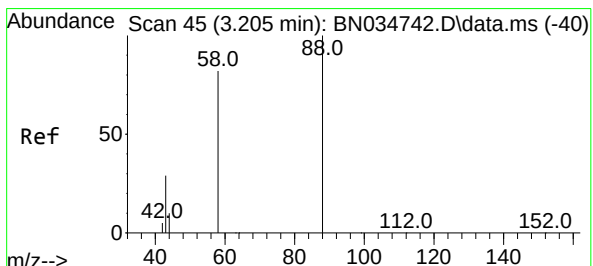
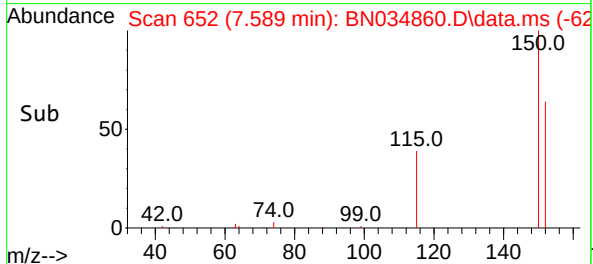
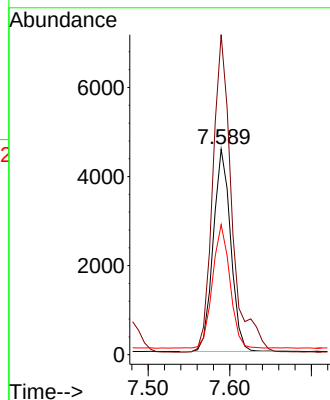
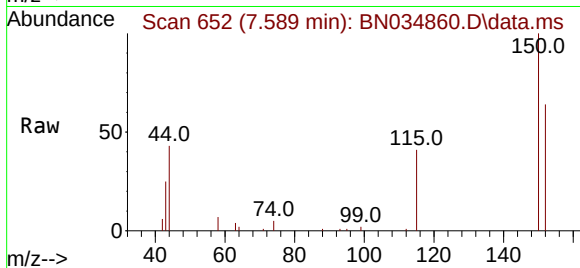




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.589 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN034860.D
Acq: 05 Nov 2024 03:33

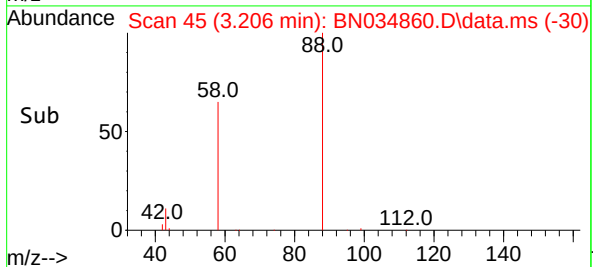
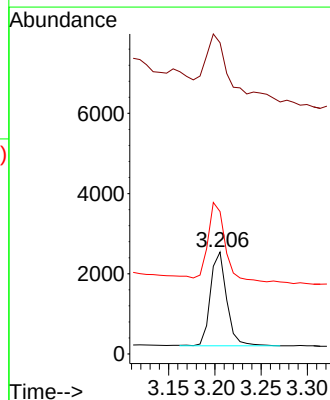
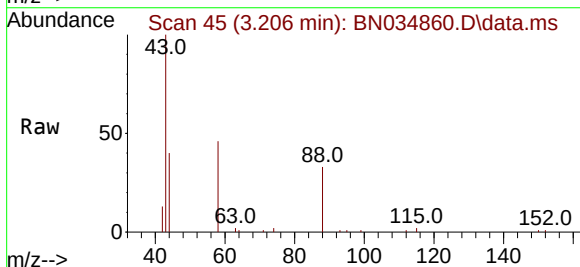
Instrument :
BNA_N
ClientSampleId :
PB164594BSD

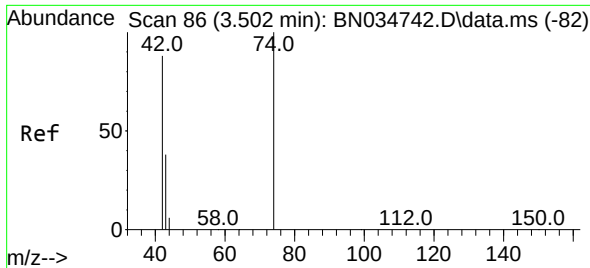
Tgt Ion:152 Resp: 6749
Ion Ratio Lower Upper
152 100
150 155.7 124.9 187.3
115 63.2 50.2 75.2



#2
1,4-Dioxane
Concen: 0.385 ng
RT: 3.206 min Scan# 45
Delta R.T. 0.007 min
Lab File: BN034860.D
Acq: 05 Nov 2024 03:33

Tgt Ion: 88 Resp: 2848
Ion Ratio Lower Upper
88 100
43 111.6 26.7 40.1#
58 90.3 59.3 88.9#

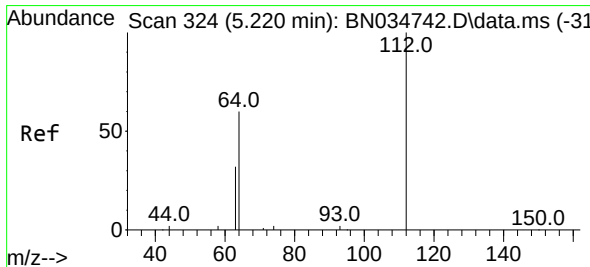
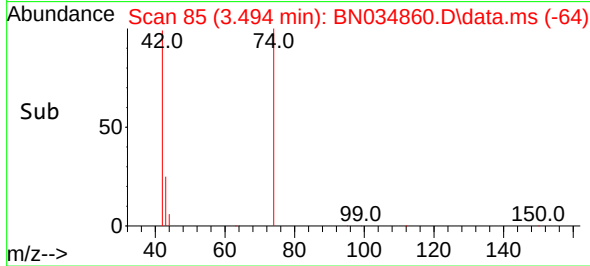
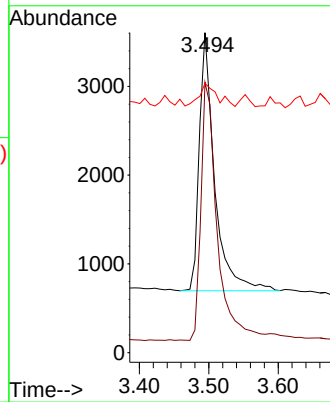
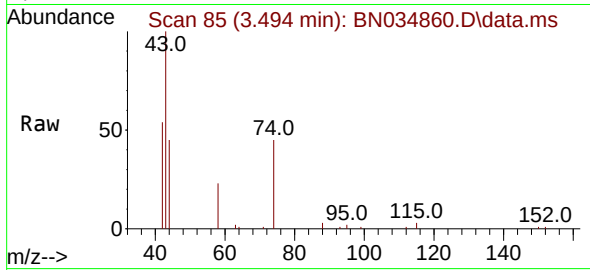




#3
n-Nitrosodimethylamine
Concen: 0.533 ng
RT: 3.494 min Scan# 81
Delta R.T. 0.000 min
Lab File: BN034860.D
Acq: 05 Nov 2024 03:33

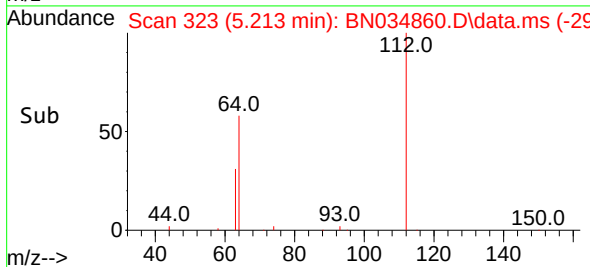
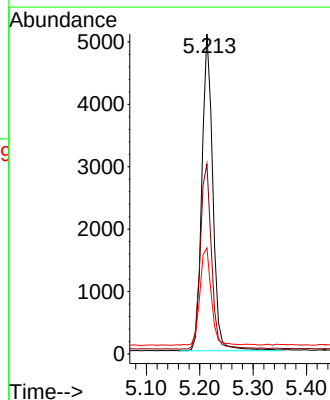
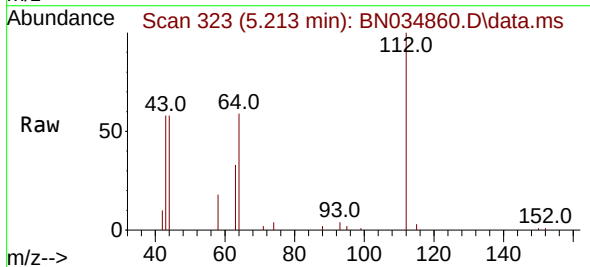
Instrument :
BNA_N
ClientSampleId :
PB164594BSD

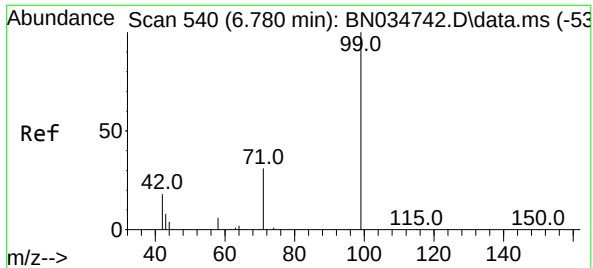
Tgt Ion: 42 Resp: 4447
Ion Ratio Lower Upper
42 100
74 108.5 103.1 154.7
44 10.6 6.7 10.1#



#4
2-Fluorophenol
Concen: 0.353 ng
RT: 5.213 min Scan# 323
Delta R.T. 0.000 min
Lab File: BN034860.D
Acq: 05 Nov 2024 03:33

Tgt Ion: 112 Resp: 7214
Ion Ratio Lower Upper
112 100
64 60.5 44.9 67.3
63 32.2 23.5 35.3

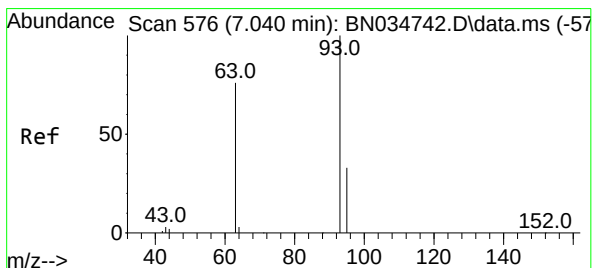
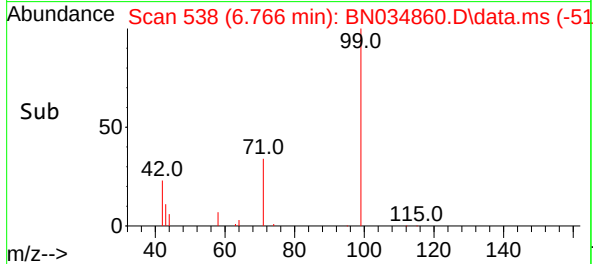
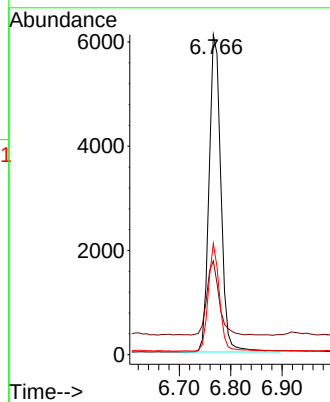
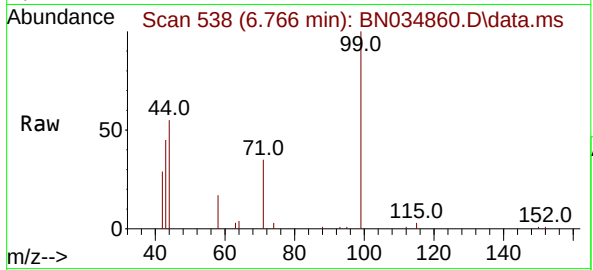




#5
Phenol-d6
Concen: 0.367 ng
RT: 6.766 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN034860.D
Acq: 05 Nov 2024 03:33

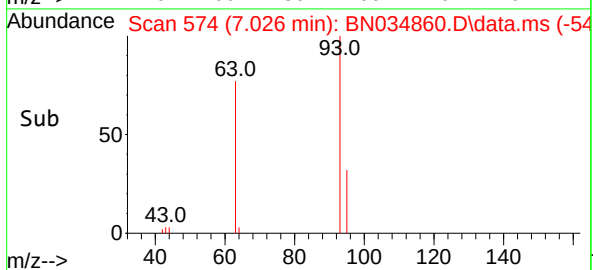
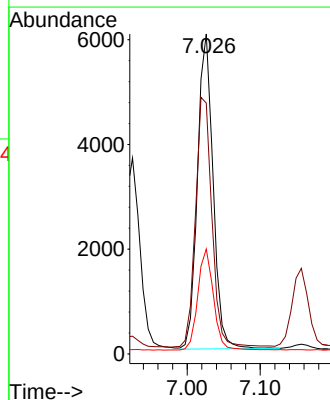
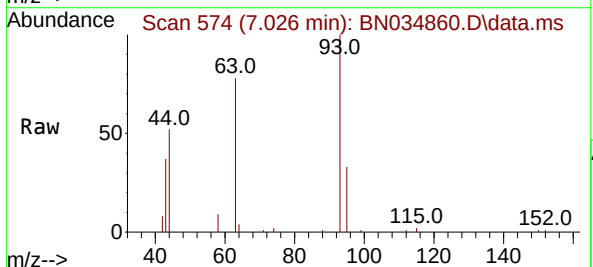
Instrument :
BNA_N
ClientSampleId :
PB164594BSD

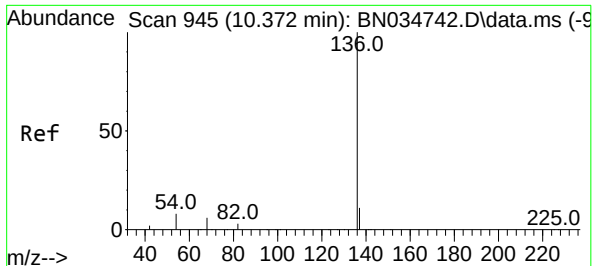
Tgt Ion: 99 Resp: 9762
Ion Ratio Lower Upper
99 100
42 24.2 15.9 23.9#
71 31.9 24.3 36.5



#6
bis(2-Chloroethyl)ether
Concen: 0.460 ng
RT: 7.026 min Scan# 574
Delta R.T. 0.000 min
Lab File: BN034860.D
Acq: 05 Nov 2024 03:33

Tgt Ion: 93 Resp: 8920
Ion Ratio Lower Upper
93 100
63 83.5 61.2 91.8
95 32.1 25.8 38.8

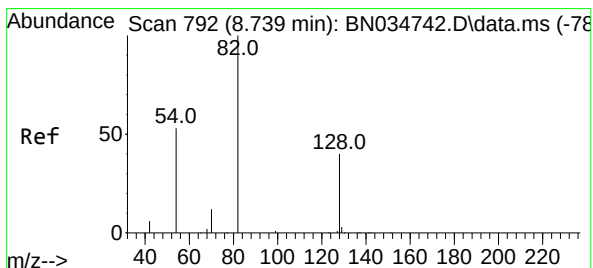
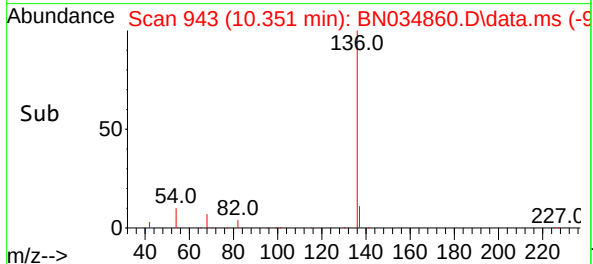
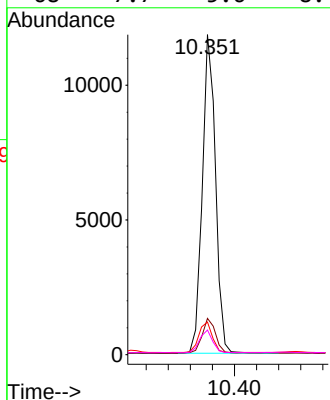
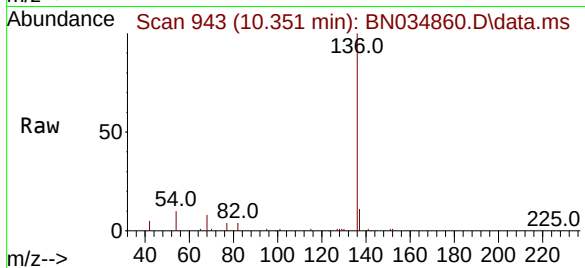




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 945
Delta R.T. 0.000 min
Lab File: BN034860.D
Acq: 05 Nov 2024 03:33

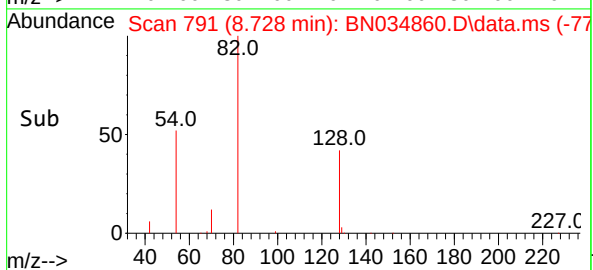
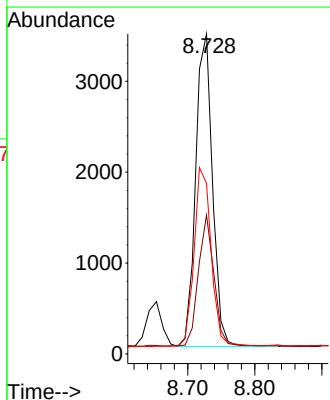
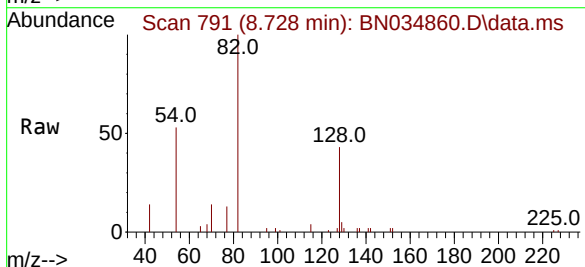
Instrument :
BNA_N
ClientSampleId :
PB164594BSD

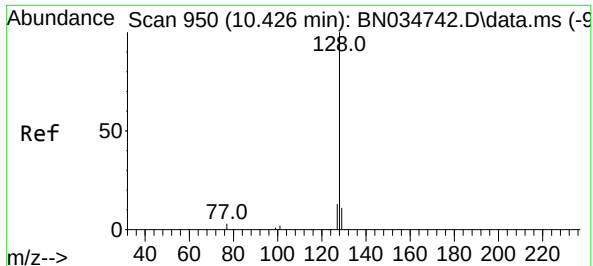
Tgt Ion:	136	Resp:	19671
Ion Ratio	Lower	Upper	
136	100		
137	11.3	9.2	13.8
54	10.2	7.0	10.4
68	7.7	5.6	8.4



#8
Nitrobenzene-d5
Concen: 0.389 ng
RT: 8.728 min Scan# 791
Delta R.T. 0.000 min
Lab File: BN034860.D
Acq: 05 Nov 2024 03:33

Tgt Ion:	82	Resp:	6015
Ion Ratio	Lower	Upper	
82	100		
128	43.4	33.7	50.5
54	53.3	44.4	66.6

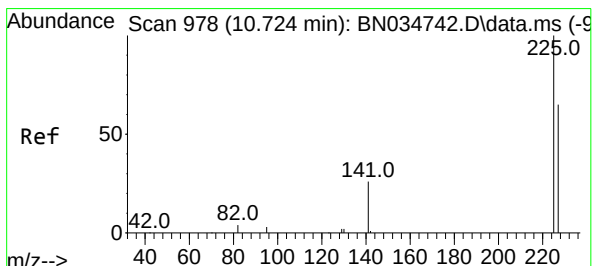
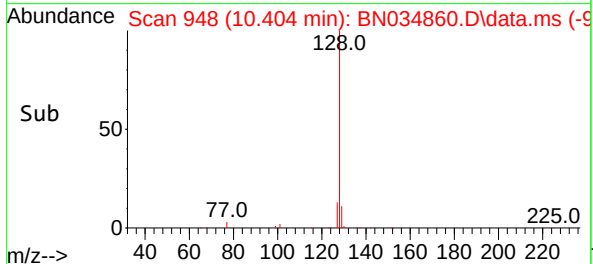
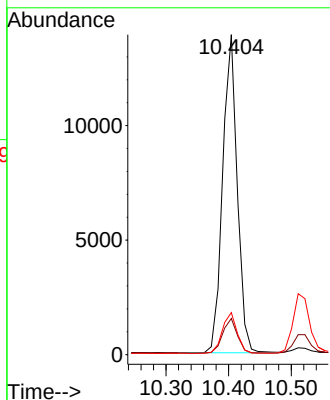
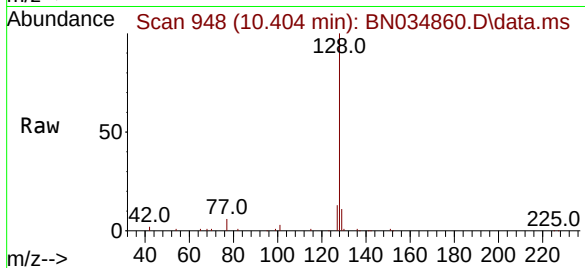




#9
Naphthalene
Concen: 0.414 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN034860.D
Acq: 05 Nov 2024 03:33

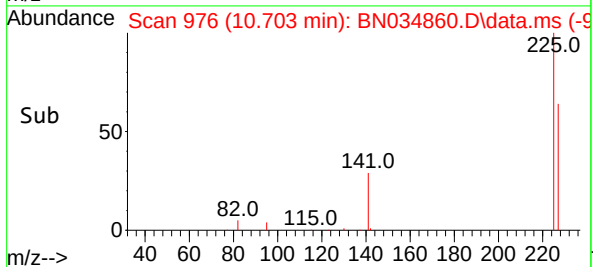
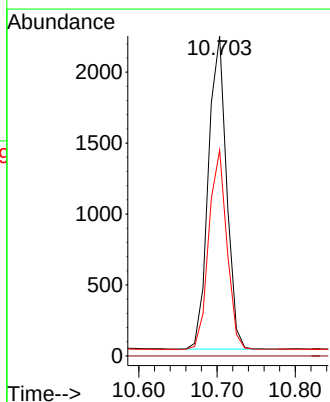
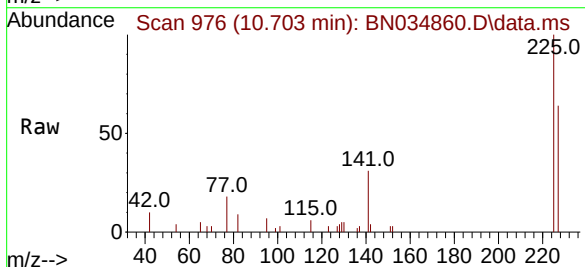
Instrument :
BNA_N
ClientSampleId :
PB164594BSD

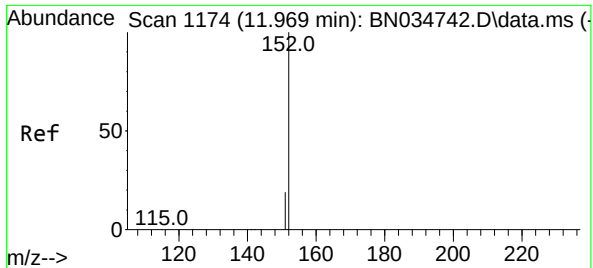
Tgt Ion:128 Resp: 22538
Ion Ratio Lower Upper
128 100
129 11.3 9.4 14.0
127 13.1 10.6 15.8



#10
Hexachlorobutadiene
Concen: 0.397 ng
RT: 10.703 min Scan# 976
Delta R.T. 0.000 min
Lab File: BN034860.D
Acq: 05 Nov 2024 03:33

Tgt Ion:225 Resp: 3557
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.3 51.4 77.2

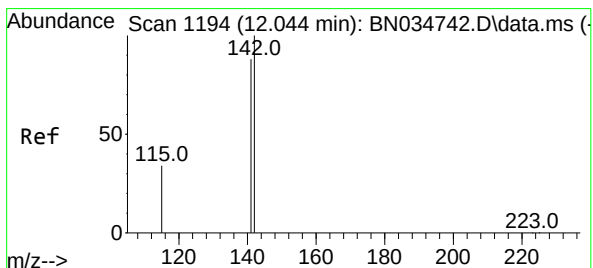
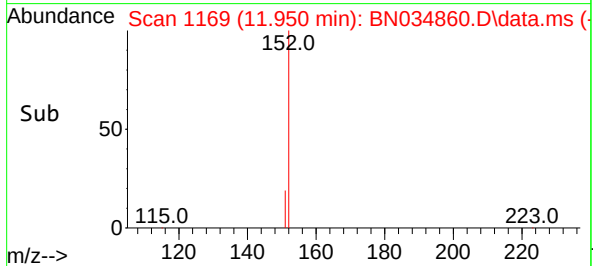
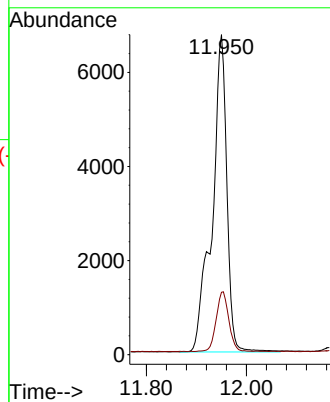
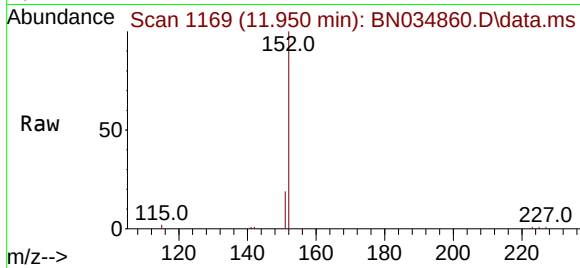




#11
2-Methylnaphthalene-d10
Concen: 0.483 ng
RT: 11.950 min Scan# 1187
Delta R.T. 0.000 min
Lab File: BN034860.D
Acq: 05 Nov 2024 03:33

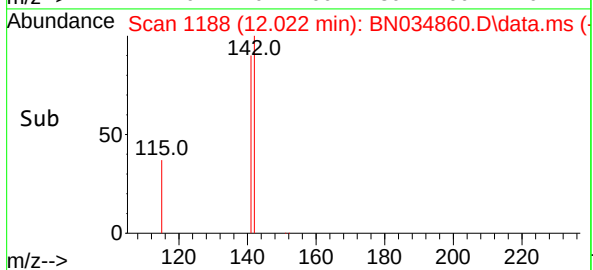
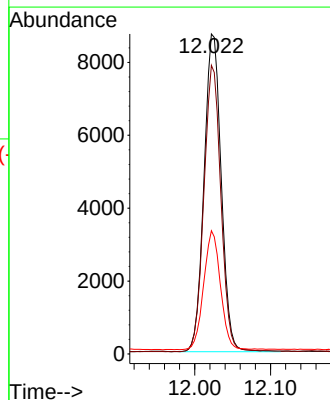
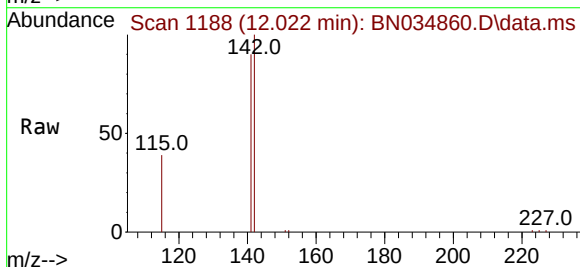
Instrument :
BNA_N
ClientSampleId :
PB164594BSD

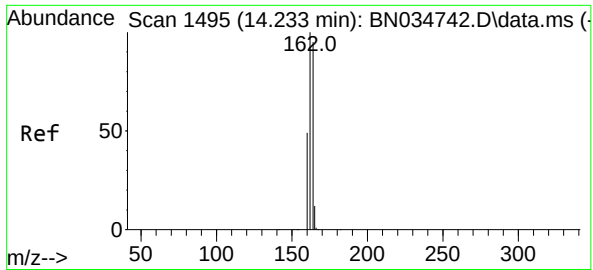
Tgt Ion:152 Resp: 13746
Ion Ratio Lower Upper
152 100
151 16.3 16.6 24.8#



#12
2-Methylnaphthalene
Concen: 0.385 ng
RT: 12.022 min Scan# 1188
Delta R.T. -0.004 min
Lab File: BN034860.D
Acq: 05 Nov 2024 03:33

Tgt Ion:142 Resp: 13714
Ion Ratio Lower Upper
142 100
141 90.2 70.6 106.0
115 38.5 28.6 42.8

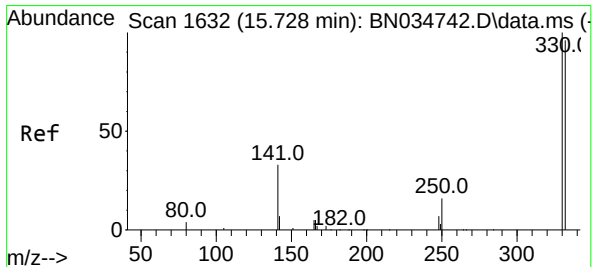
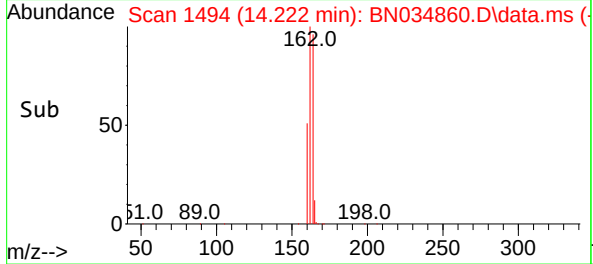
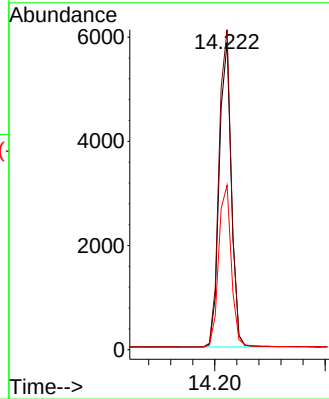
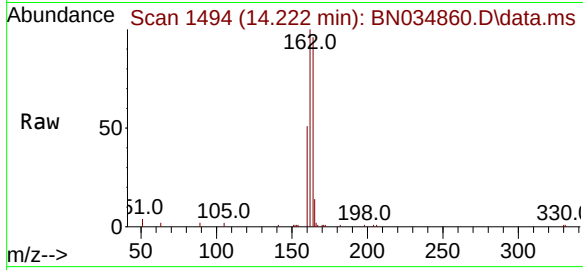




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.222 min Scan# 1494
Delta R.T. 0.000 min
Lab File: BN034860.D
Acq: 05 Nov 2024 03:33

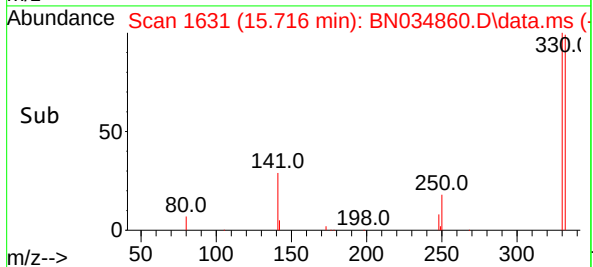
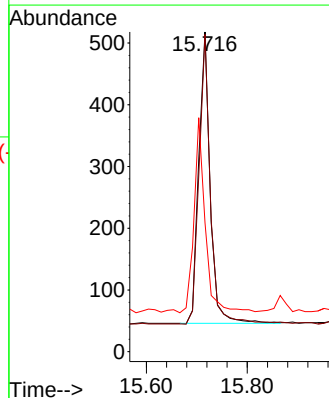
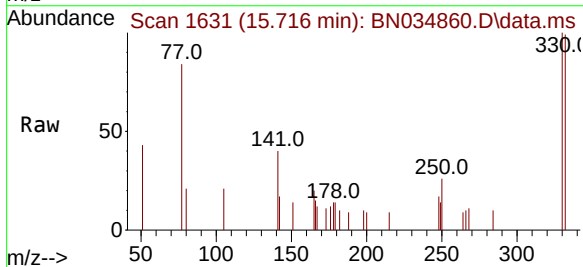
Instrument :
BNA_N
ClientSampleId :
PB164594BSD

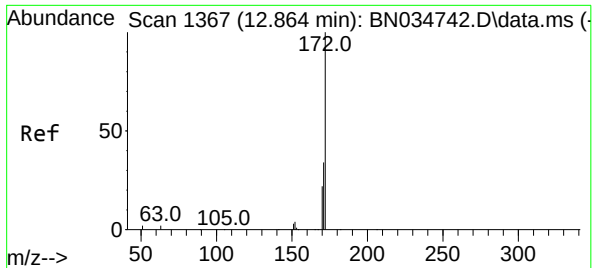
Tgt Ion:164 Resp: 8893
Ion Ratio Lower Upper
164 100
162 104.0 84.3 126.5
160 53.5 41.7 62.5



#14
2,4,6-Tribromophenol
Concen: 0.169 ng
RT: 15.716 min Scan# 1631
Delta R.T. 0.000 min
Lab File: BN034860.D
Acq: 05 Nov 2024 03:33

Tgt Ion:330 Resp: 742
Ion Ratio Lower Upper
330 100
332 98.7 77.8 116.6
141 65.9 41.0 61.4#

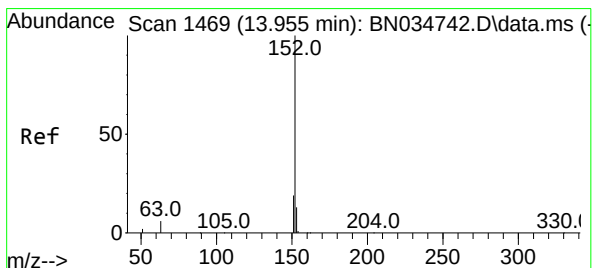
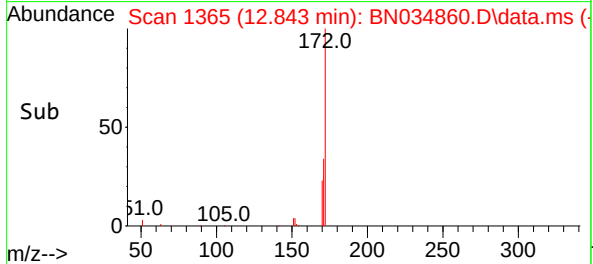
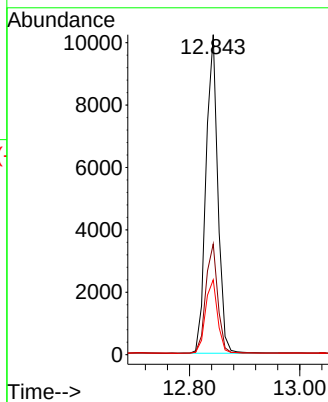
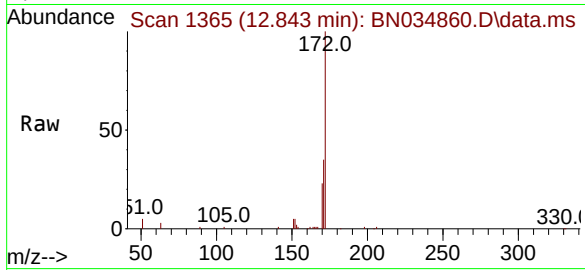




#15
2-Fluorobiphenyl
Concen: 0.436 ng
RT: 12.843 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN034860.D
Acq: 05 Nov 2024 03:33

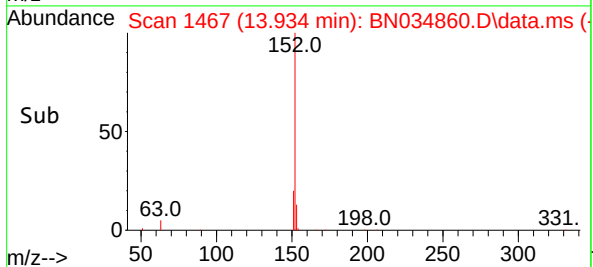
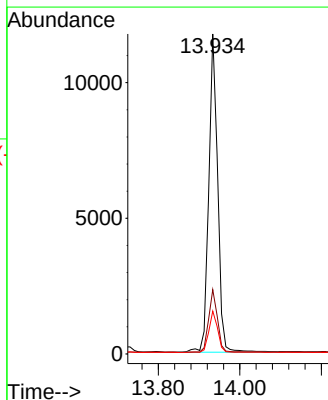
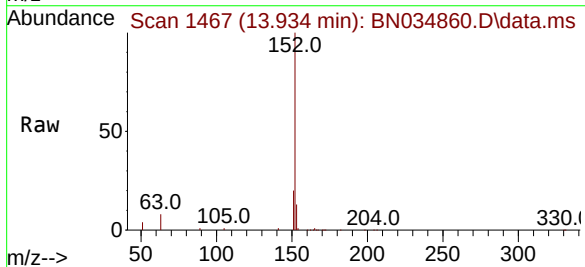
Instrument :
BNA_N
ClientSampleId :
PB164594BSD

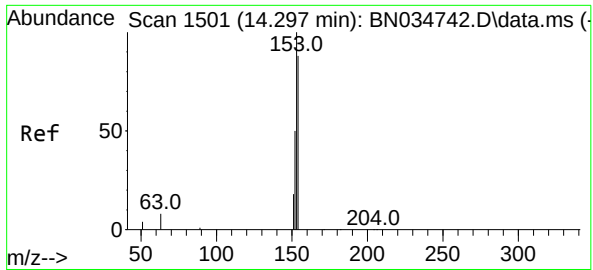
Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.6	27.2	40.8
170	23.4	18.0	27.0



#16
Acenaphthylene
Concen: 0.400 ng
RT: 13.934 min Scan# 1467
Delta R.T. 0.000 min
Lab File: BN034860.D
Acq: 05 Nov 2024 03:33

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.5	15.4	23.2
153	13.0	10.2	15.4

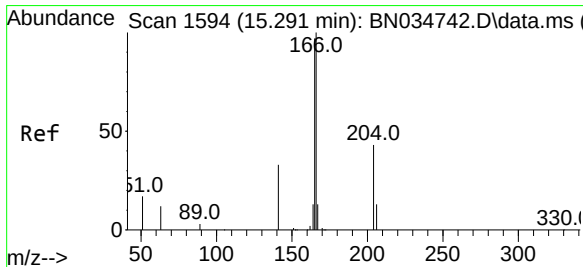
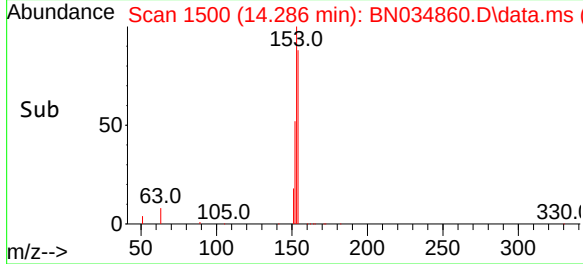
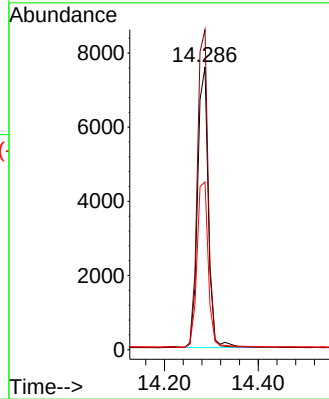
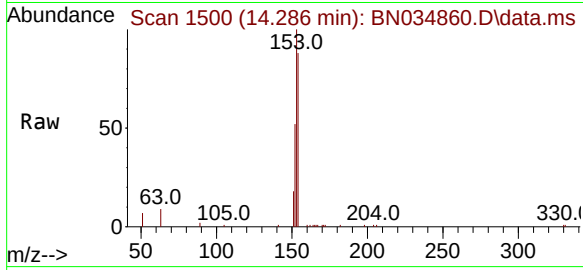




#17
Acenaphthene
Concen: 0.402 ng
RT: 14.286 min Scan# 1500
Delta R.T. 0.000 min
Lab File: BN034860.D
Acq: 05 Nov 2024 03:33

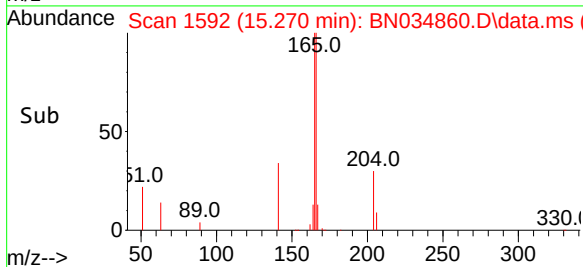
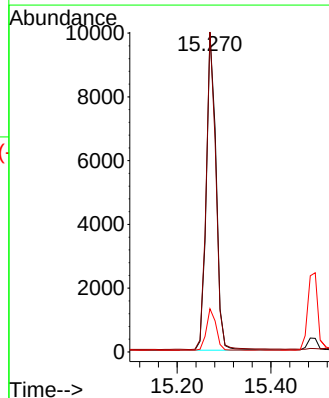
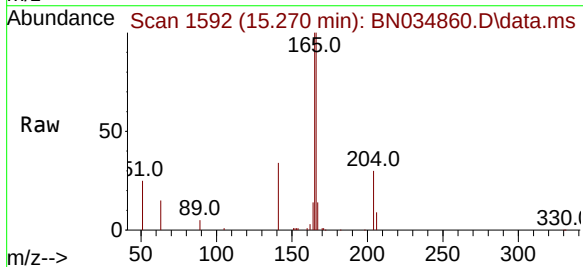
Instrument :
BNA_N
ClientSampleId :
PB164594BSD

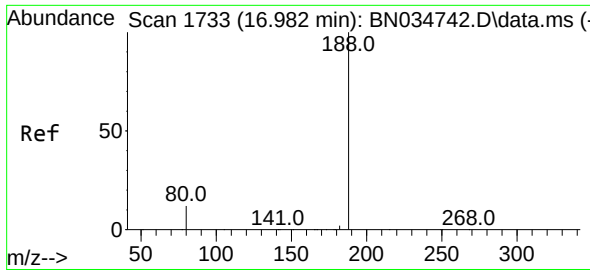
Tgt Ion:154 Resp: 11944
Ion Ratio Lower Upper
154 100
153 114.4 87.8 131.6
152 62.0 44.6 67.0



#18
Fluorene
Concen: 0.387 ng
RT: 15.270 min Scan# 1592
Delta R.T. 0.000 min
Lab File: BN034860.D
Acq: 05 Nov 2024 03:33

Tgt Ion:166 Resp: 14326
Ion Ratio Lower Upper
166 100
165 98.8 78.5 117.7
167 13.1 10.8 16.2

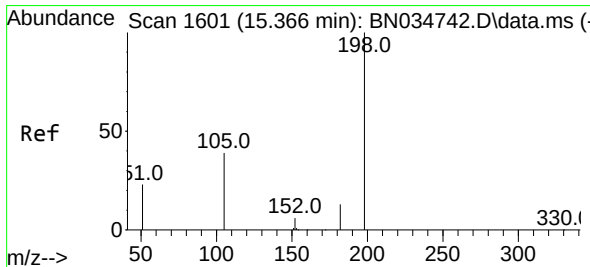
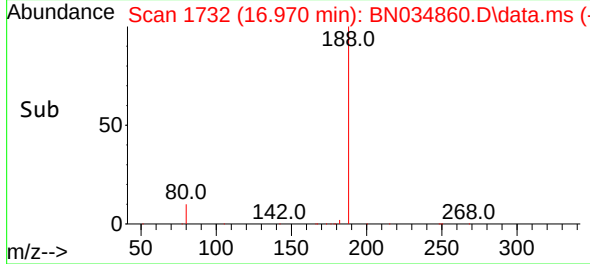
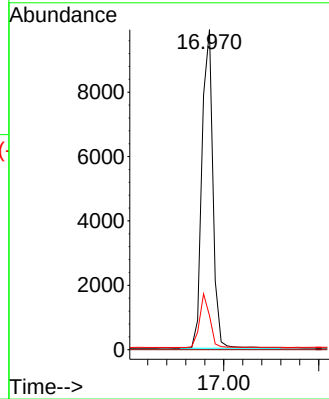
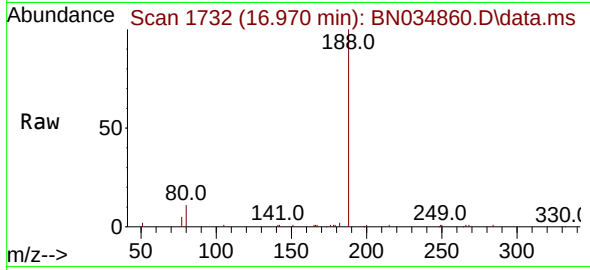




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.970 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN034860.D
Acq: 05 Nov 2024 03:33

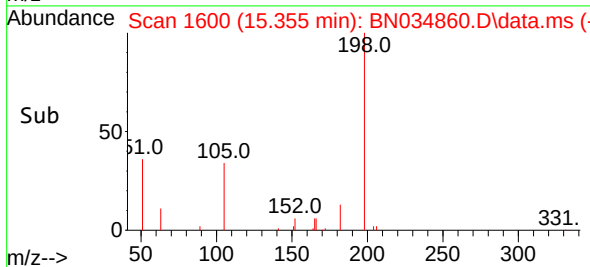
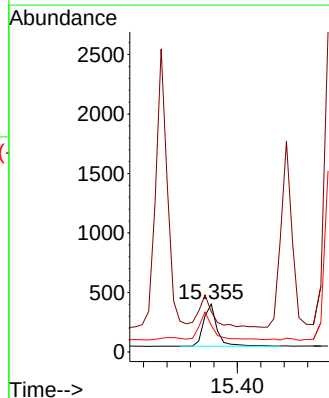
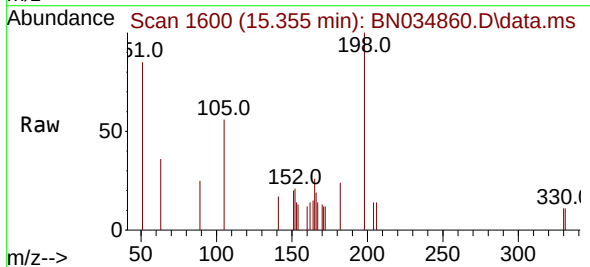
Instrument :
BNA_N
ClientSampleId :
PB164594BSD

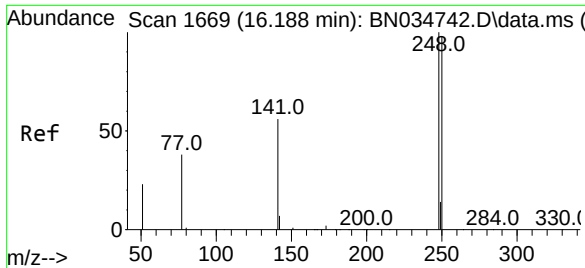
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.7	9.8	14.6



#20
4,6-Dinitro-2-methylphenol
Concen: 0.366 ng
RT: 15.355 min Scan# 1600
Delta R.T. 0.000 min
Lab File: BN034860.D
Acq: 05 Nov 2024 03:33

Tgt Ion	Ratio	Lower	Upper
198	100		
51	84.6	58.0	87.0
105	56.0	49.1	73.7

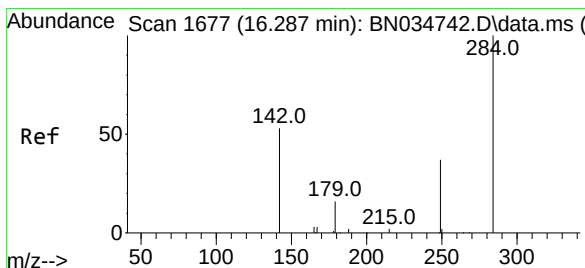
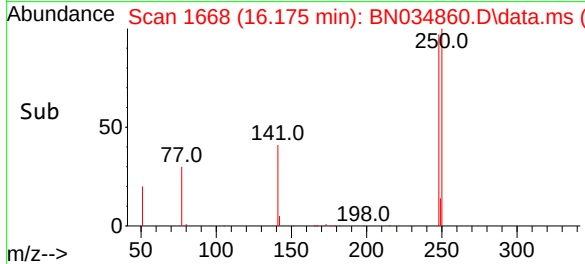
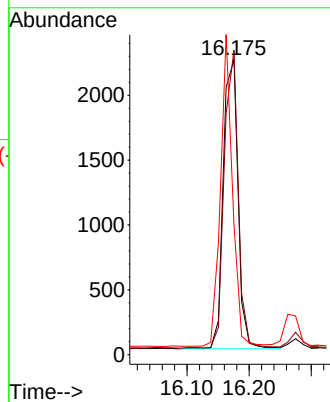
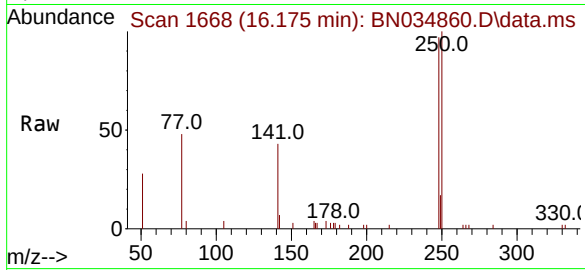




#21
4-Bromophenyl-phenylether
Concen: 0.401 ng
RT: 16.175 min Scan# 1668
Delta R.T. 0.000 min
Lab File: BN034860.D
Acq: 05 Nov 2024 03:33

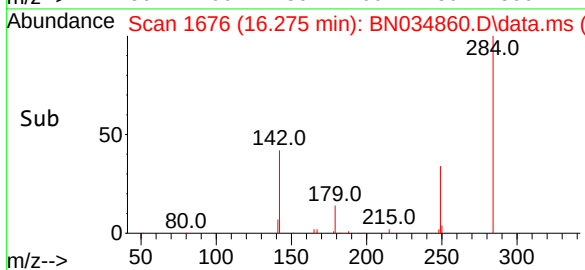
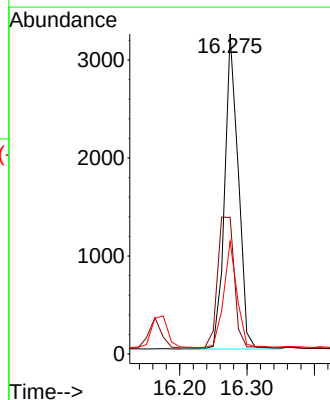
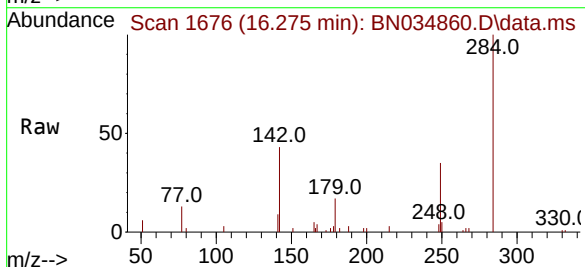
Instrument :
BNA_N
ClientSampleId :
PB164594BSD

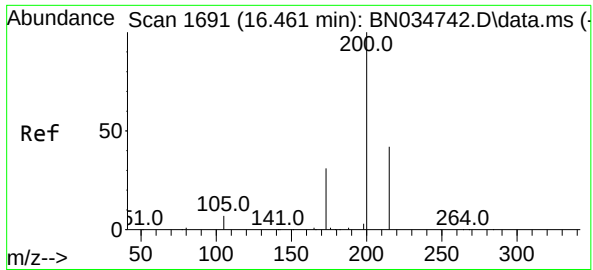
Tgt Ion	Ratio	Lower	Upper
248	100		
250	103.3	78.7	118.1
141	44.2	46.4	69.6



#22
Hexachlorobenzene
Concen: 0.441 ng
RT: 16.275 min Scan# 1676
Delta R.T. 0.000 min
Lab File: BN034860.D
Acq: 05 Nov 2024 03:33

Tgt Ion	Ratio	Lower	Upper
284	100		
142	50.9	35.4	53.0
249	33.1	25.7	38.5

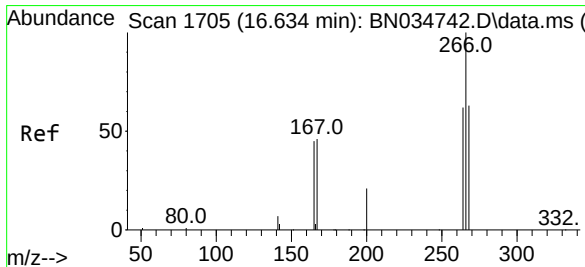
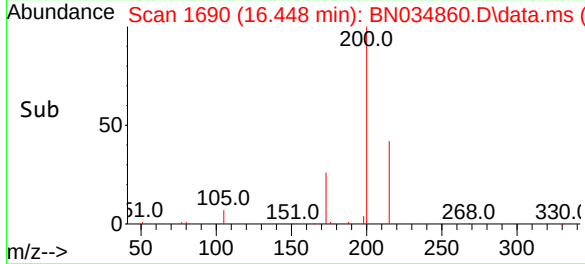
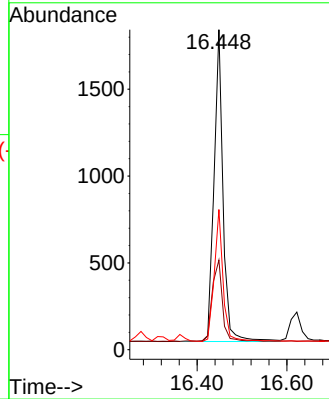
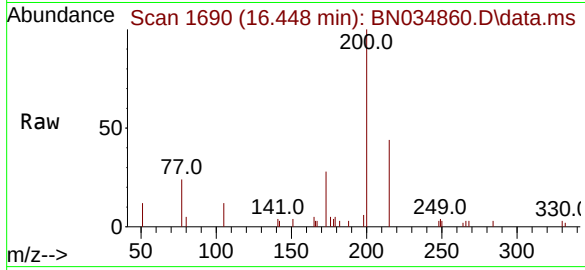




#23
Atrazine
Concen: 0.317 ng
RT: 16.448 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN034860.D
Acq: 05 Nov 2024 03:33

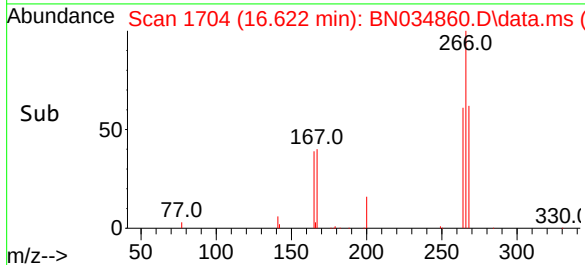
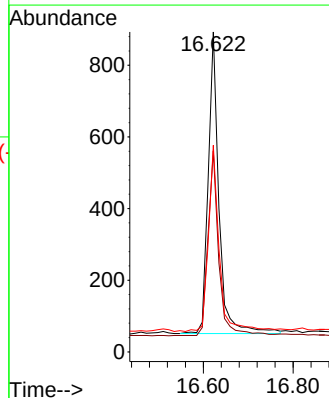
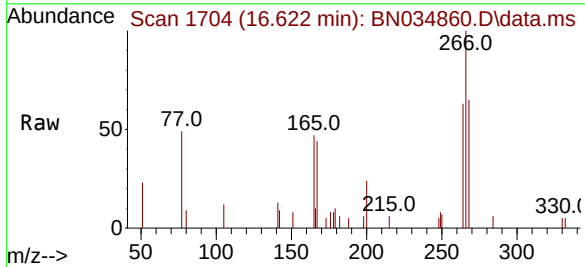
Instrument :
BNA_N
ClientSampleId :
PB164594BSD

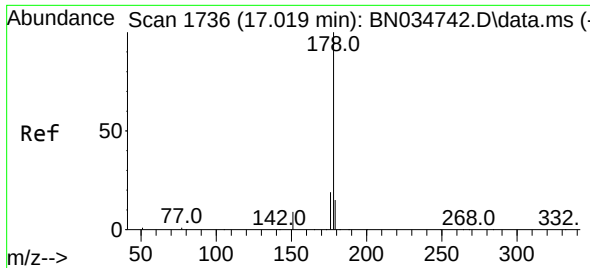
Tgt Ion:	200	Resp:	2499
Ion	Ratio	Lower	Upper
200	100		
173	28.0	25.8	38.6
215	43.8	34.2	51.4



#24
Pentachlorophenol
Concen: 0.317 ng
RT: 16.622 min Scan# 1704
Delta R.T. 0.000 min
Lab File: BN034860.D
Acq: 05 Nov 2024 03:33

Tgt Ion:	266	Resp:	1399
Ion	Ratio	Lower	Upper
266	100		
264	60.5	48.7	73.1
268	62.0	50.2	75.4

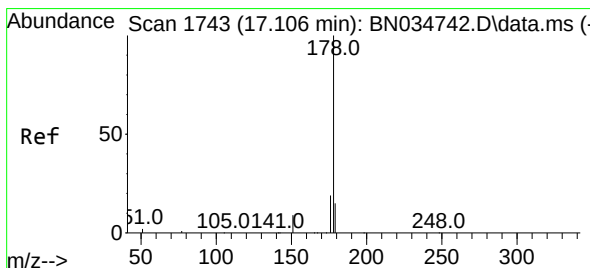
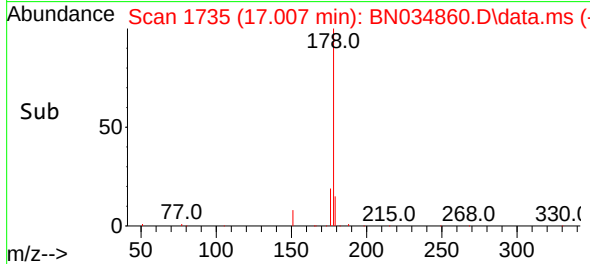
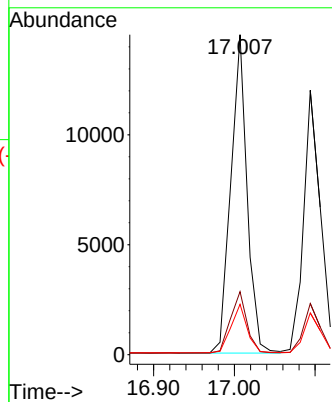
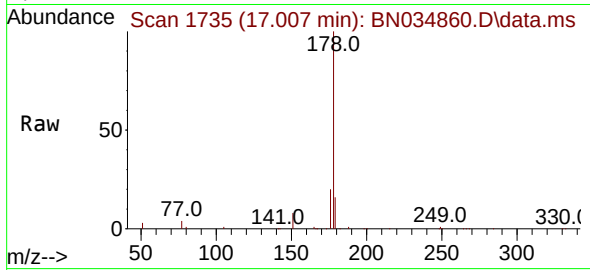




#25
Phenanthrene
Concen: 0.435 ng
RT: 17.007 min Scan# 1742
Delta R.T. 0.000 min
Lab File: BN034860.D
Acq: 05 Nov 2024 03:33

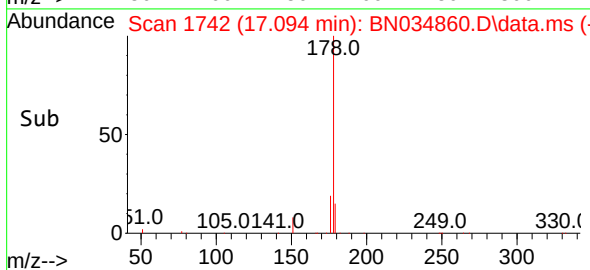
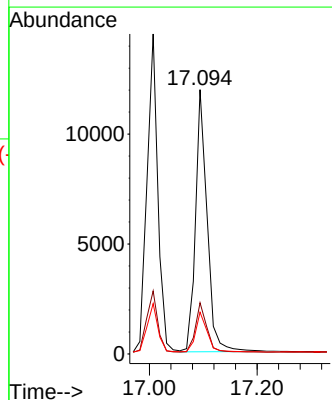
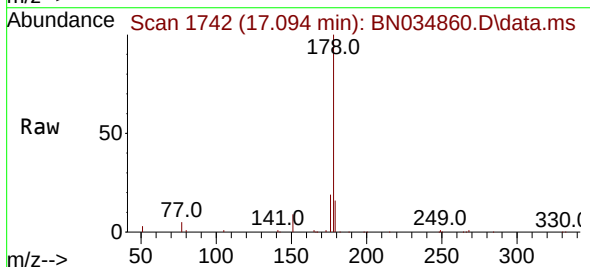
Instrument :
BNA_N
ClientSampleId :
PB164594BSD

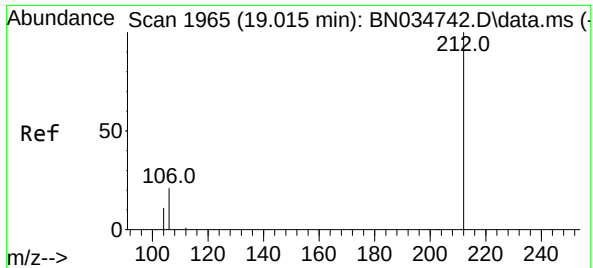
Tgt Ion:178 Resp: 20226
Ion Ratio Lower Upper
178 100
176 19.6 15.4 23.0
179 15.2 12.2 18.4



#26
Anthracene
Concen: 0.412 ng
RT: 17.094 min Scan# 1742
Delta R.T. 0.000 min
Lab File: BN034860.D
Acq: 05 Nov 2024 03:33

Tgt Ion:178 Resp: 17921
Ion Ratio Lower Upper
178 100
176 18.8 15.0 22.6
179 15.2 12.2 18.2

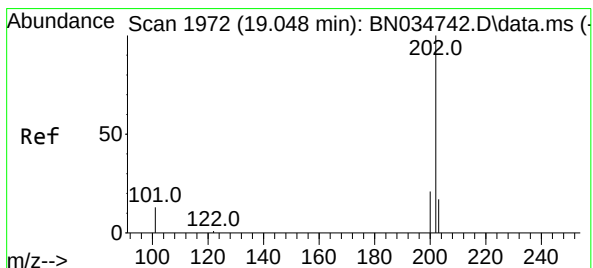
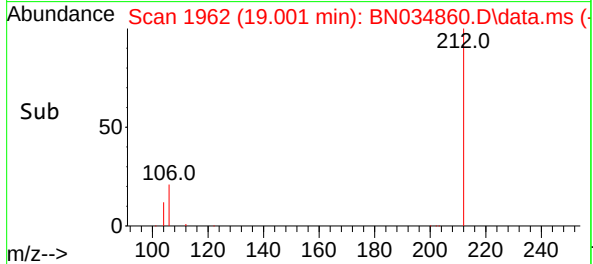
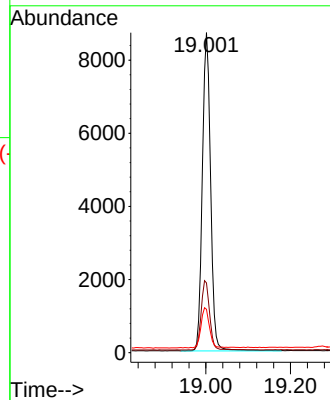
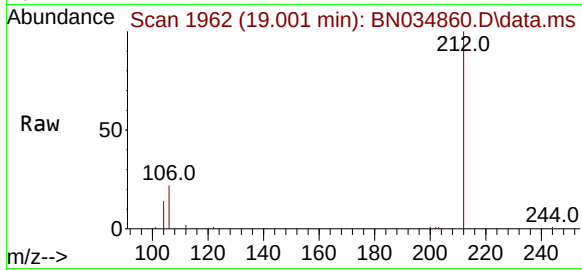




#27
Fluoranthene-d10
Concen: 0.317 ng
RT: 19.001 min Scan# 1969
Delta R.T. 0.000 min
Lab File: BN034860.D
Acq: 05 Nov 2024 03:33

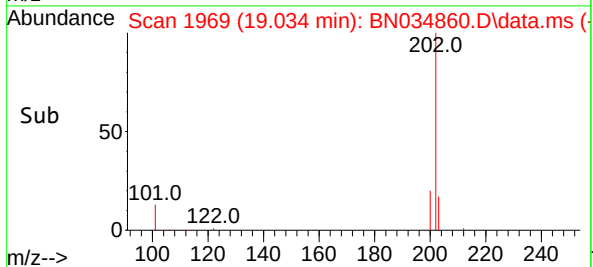
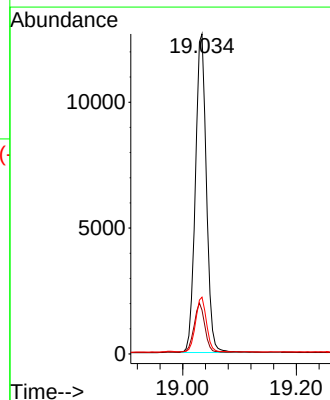
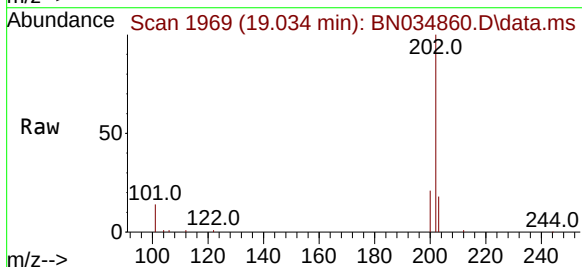
Instrument :
BNA_N
ClientSampleId :
PB164594BSD

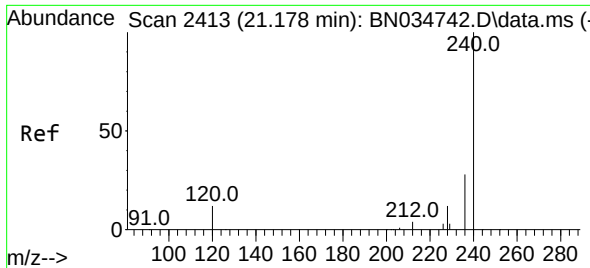
Tgt Ion	Ratio	Lower	Upper
212	100		
106	22.3	16.1	24.1
104	13.1	9.2	13.8



#28
Fluoranthene
Concen: 0.331 ng
RT: 19.034 min Scan# 1969
Delta R.T. 0.000 min
Lab File: BN034860.D
Acq: 05 Nov 2024 03:33

Tgt Ion	Ratio	Lower	Upper
202	100		
101	14.9	11.4	17.0
203	17.1	13.7	20.5

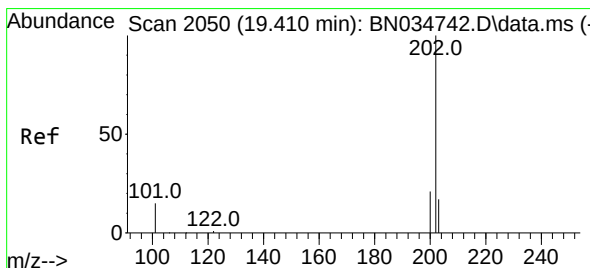
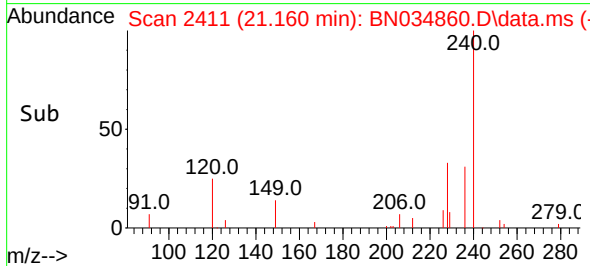
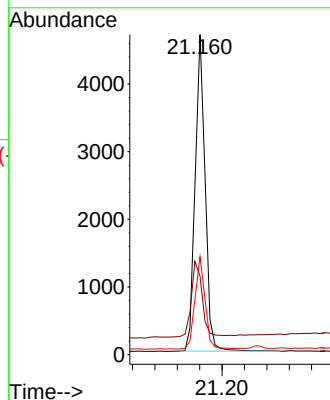
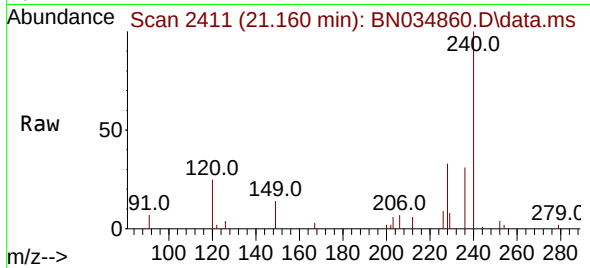




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.160 min Scan# 2411
Delta R.T. 0.000 min
Lab File: BN034860.D
Acq: 05 Nov 2024 03:33

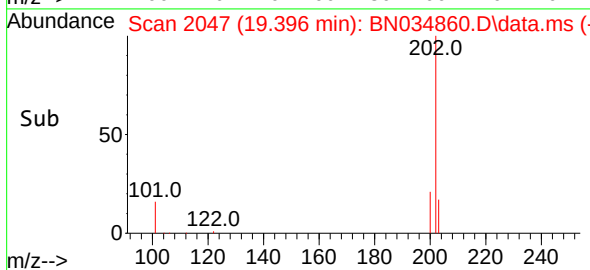
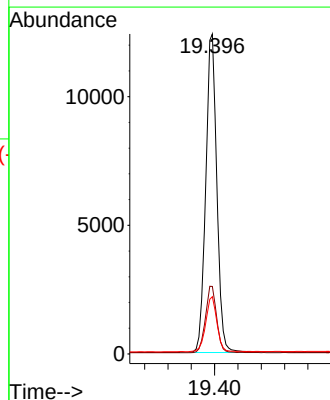
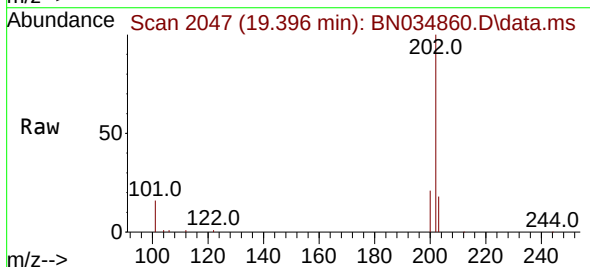
Instrument :
BNA_N
ClientSampleId :
PB164594BSD

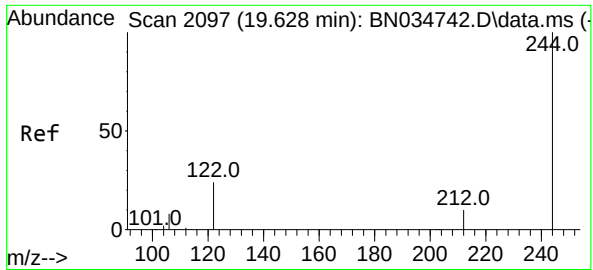
Tgt Ion:240 Resp: 5819
Ion Ratio Lower Upper
240 100
120 24.5 11.5 17.3#
236 30.6 23.2 34.8



#30
Pyrene
Concen: 0.542 ng
RT: 19.396 min Scan# 2047
Delta R.T. 0.000 min
Lab File: BN034860.D
Acq: 05 Nov 2024 03:33

Tgt Ion:202 Resp: 16485
Ion Ratio Lower Upper
202 100
200 21.1 17.0 25.4
203 17.5 14.2 21.2

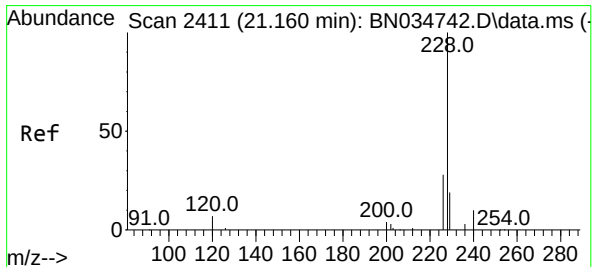
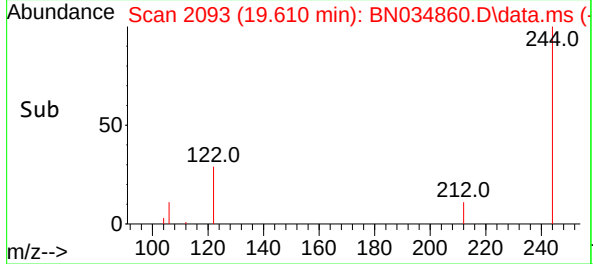
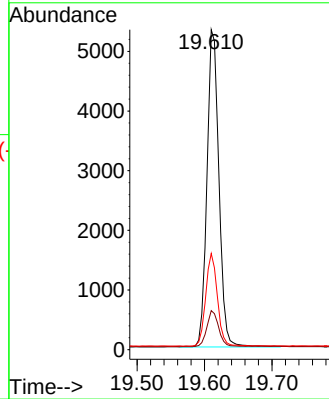
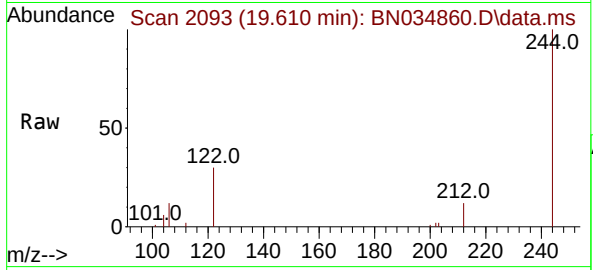




#31
Terphenyl-d14
Concen: 0.524 ng
RT: 19.610 min Scan# 2093
Delta R.T. -0.005 min
Lab File: BN034860.D
Acq: 05 Nov 2024 03:33

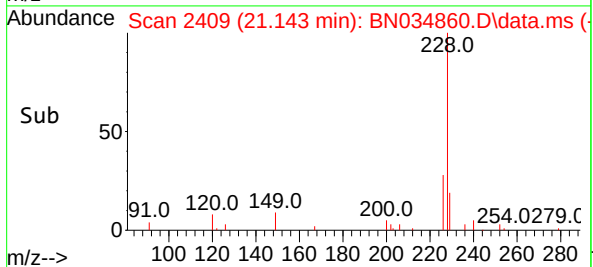
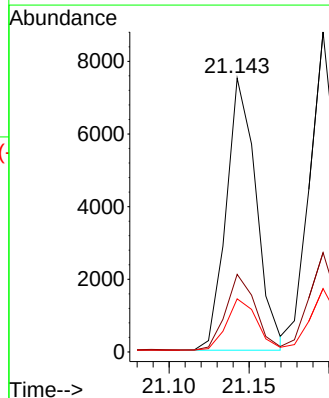
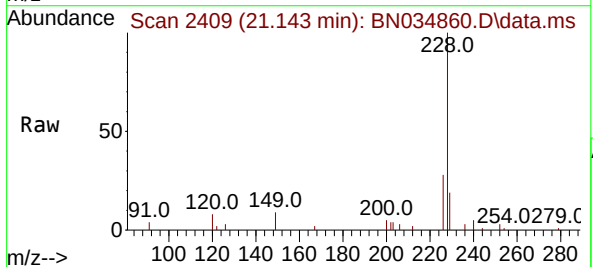
Instrument :
BNA_N
ClientSampleId :
PB164594BSD

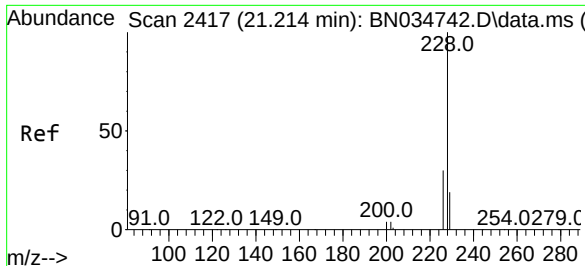
Tgt Ion:244 Resp: 6548
Ion Ratio Lower Upper
244 100
212 12.2 8.2 12.4
122 30.0 19.8 29.6#



#32
Benzo(a)anthracene
Concen: 0.421 ng
RT: 21.143 min Scan# 2409
Delta R.T. 0.000 min
Lab File: BN034860.D
Acq: 05 Nov 2024 03:33

Tgt Ion:228 Resp: 9762
Ion Ratio Lower Upper
228 100
226 28.4 22.6 33.8
229 19.4 15.7 23.5

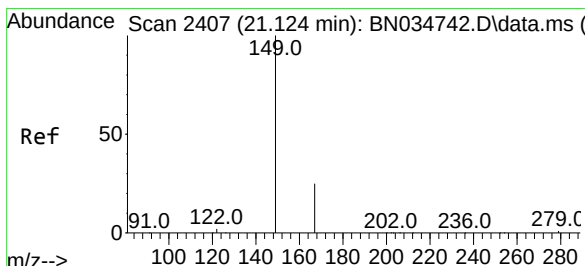
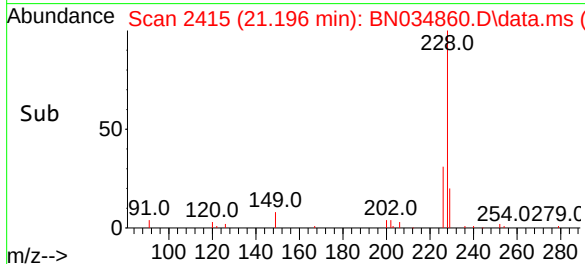
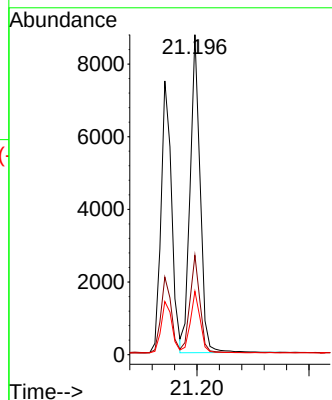
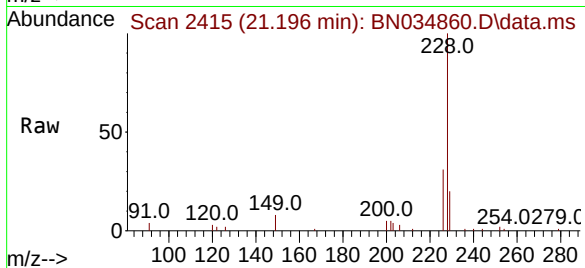




#33
Chrysene
Concen: 0.478 ng
RT: 21.196 min Scan# 2415
Delta R.T. 0.000 min
Lab File: BN034860.D
Acq: 05 Nov 2024 03:33

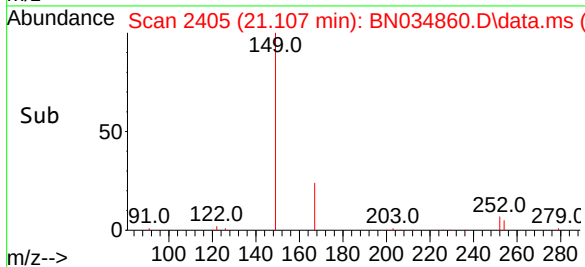
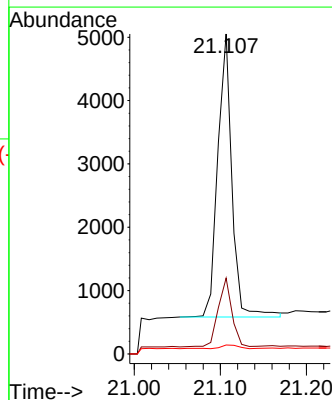
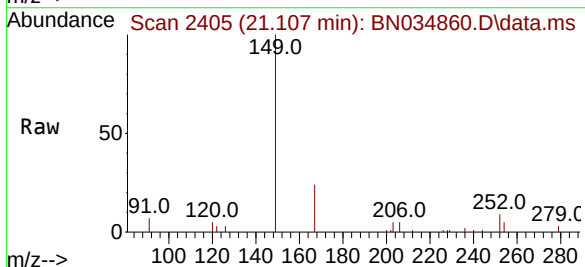
Instrument :
BNA_N
ClientSampleId :
PB164594BSD

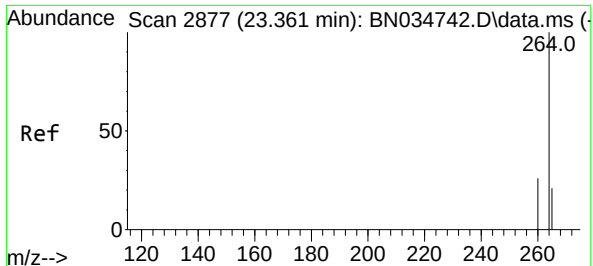
Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.1	24.4	36.6
229	19.8	15.6	23.4



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.263 ng
RT: 21.107 min Scan# 2405
Delta R.T. 0.000 min
Lab File: BN034860.D
Acq: 05 Nov 2024 03:33

Tgt Ion	Ratio	Lower	Upper
149	100		
167	23.4	20.6	30.8
279	1.7	1.5	2.3





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.338 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN034860.D

Acq: 05 Nov 2024 03:33

Instrument :

BNA_N

ClientSampleId :

PB164594BSD

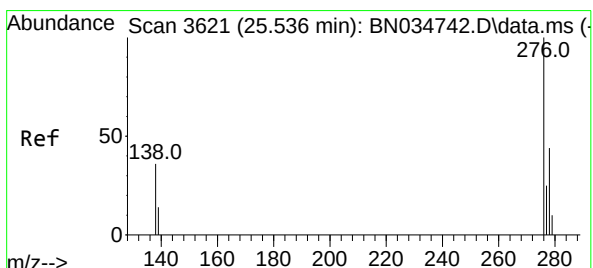
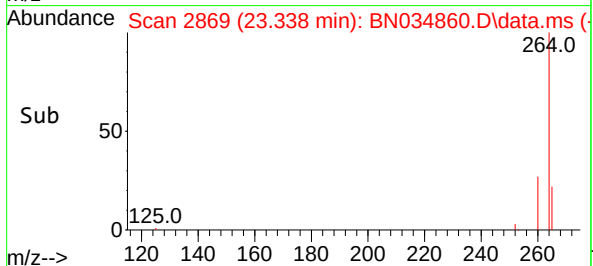
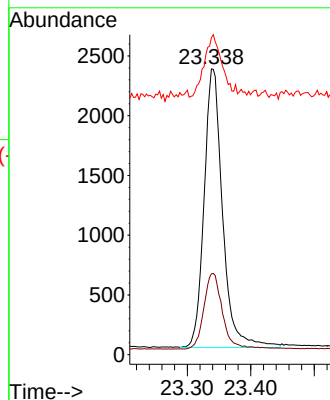
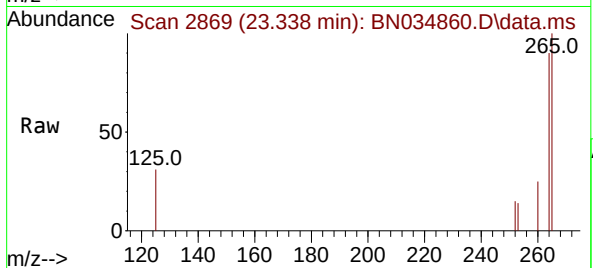
Tgt Ion:264 Resp: 4708

Ion Ratio Lower Upper

264 100

260 28.3 21.5 32.3

265 110.9 47.5 71.3#



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.563 ng

RT: 25.507 min Scan# 3611

Delta R.T. 0.003 min

Lab File: BN034860.D

Acq: 05 Nov 2024 03:33

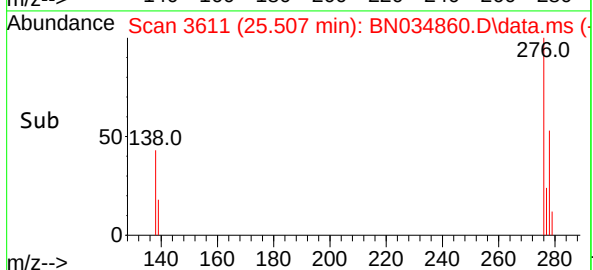
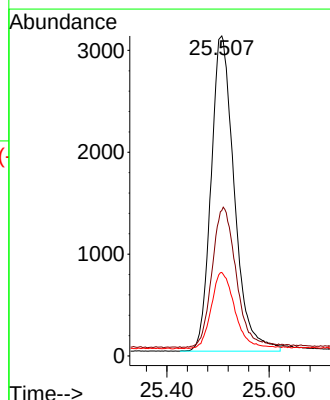
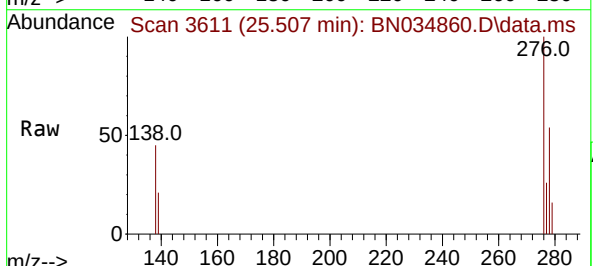
Tgt Ion:276 Resp: 9759

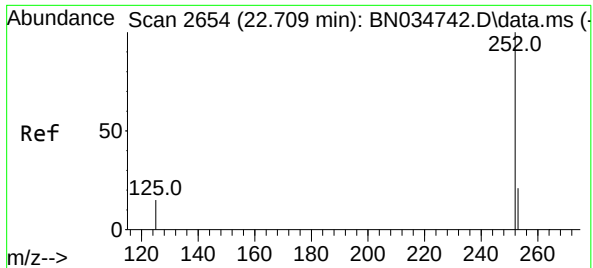
Ion Ratio Lower Upper

276 100

138 46.0 31.5 47.3

277 24.5 19.7 29.5

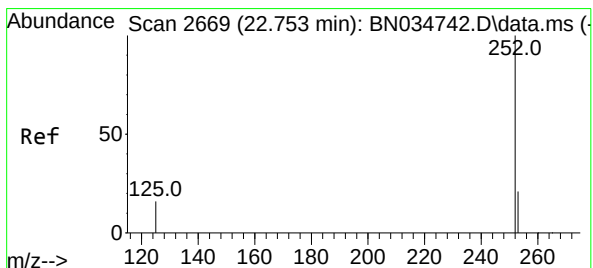
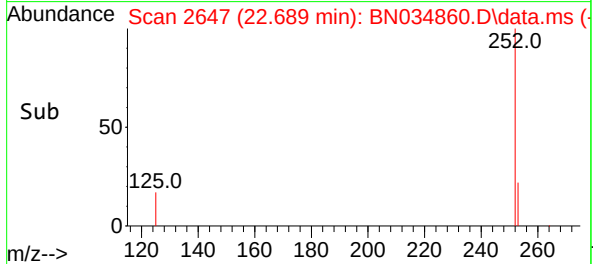
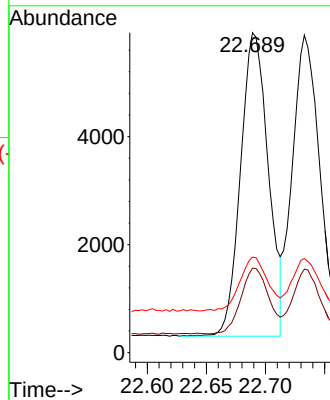
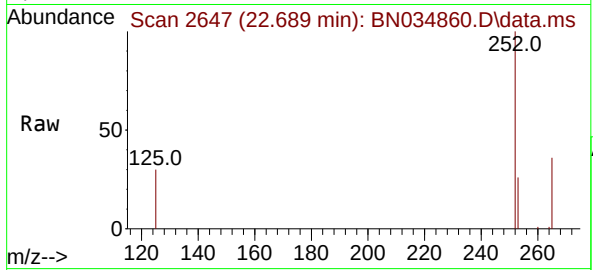




#37
Benzo(b)fluoranthene
Concen: 0.482 ng
RT: 22.689 min Scan# 2647
Delta R.T. 0.000 min
Lab File: BN034860.D
Acq: 05 Nov 2024 03:33

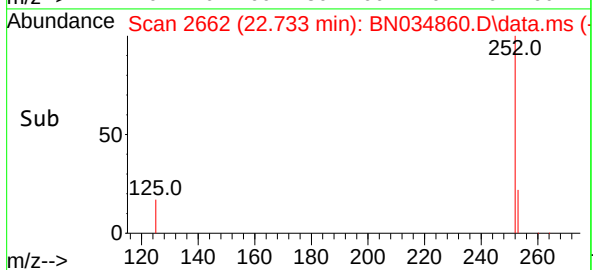
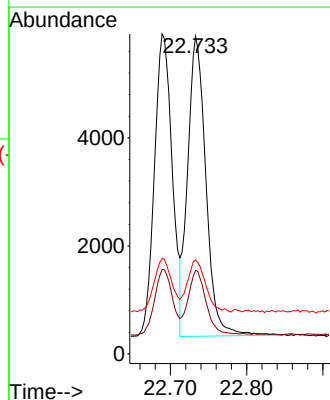
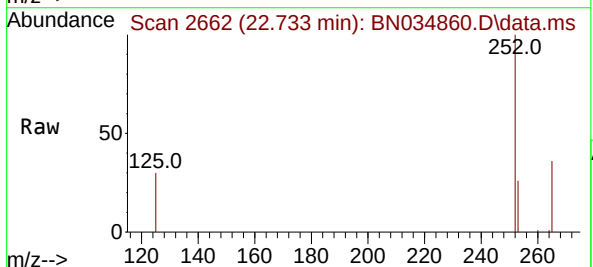
Instrument :
BNA_N
ClientSampleId :
PB164594BSD

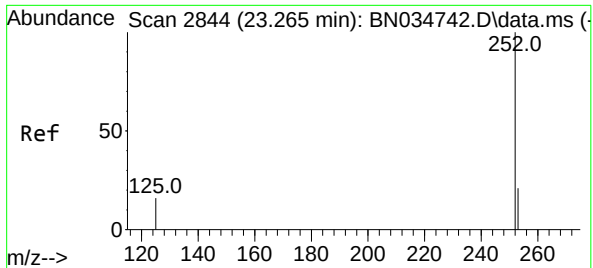
Tgt Ion:252 Resp: 9144
Ion Ratio Lower Upper
252 100
253 26.4 19.7 29.5
125 29.9 17.1 25.7#



#38
Benzo(k)fluoranthene
Concen: 0.499 ng
RT: 22.733 min Scan# 2662
Delta R.T. 0.003 min
Lab File: BN034860.D
Acq: 05 Nov 2024 03:33

Tgt Ion:252 Resp: 9232
Ion Ratio Lower Upper
252 100
253 26.3 19.8 29.6
125 29.6 18.2 27.2#

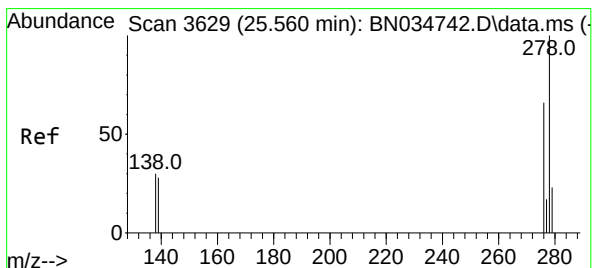
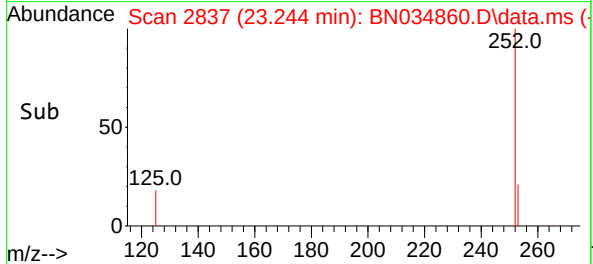
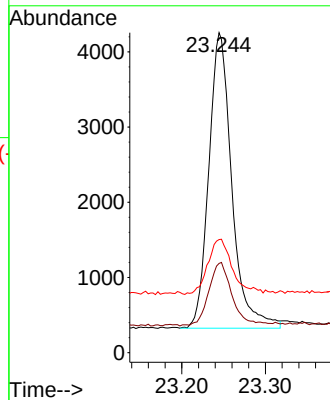
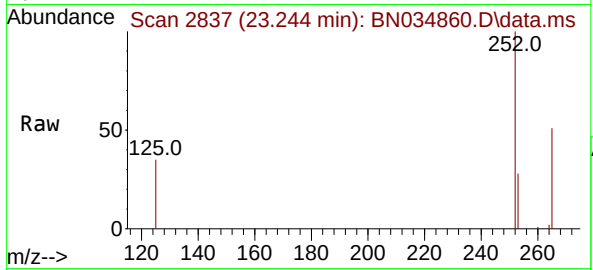




#39
Benzo(a)pyrene
Concen: 0.481 ng
RT: 23.244 min Scan# 21
Delta R.T. 0.003 min
Lab File: BN034860.D
Acq: 05 Nov 2024 03:33

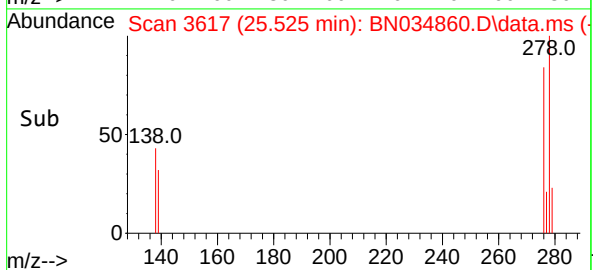
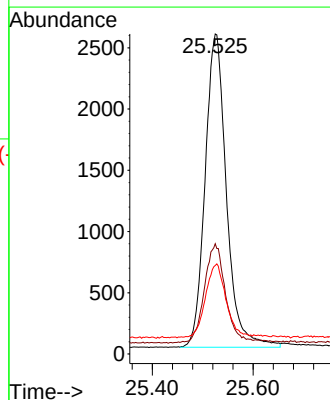
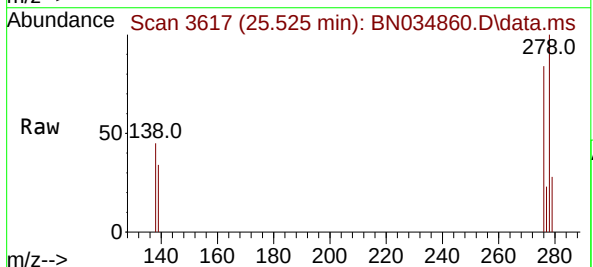
Instrument :
BNA_N
ClientSampleId :
PB164594BSD

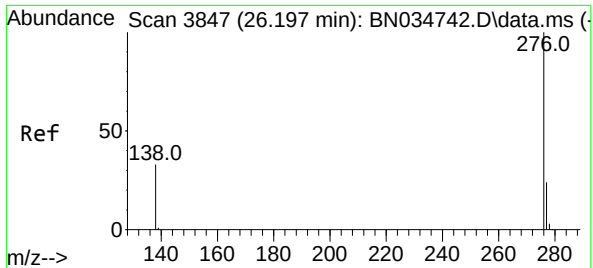
Tgt Ion	252	253	125
Resp:	7529		
Ion Ratio	100	27.9	35.3
Lower		20.7	20.3
Upper		31.1	30.5



#40
Dibenzo(a,h)anthracene
Concen: 0.557 ng
RT: 25.525 min Scan# 3617
Delta R.T. 0.000 min
Lab File: BN034860.D
Acq: 05 Nov 2024 03:33

Tgt Ion	278	139	279
Resp:	7525		
Ion Ratio	100	34.4	27.7
Lower		24.9	21.0
Upper		37.3	31.4





#41

Benzo(g,h,i)perylene

Concen: 0.562 ng

RT: 26.162 min Scan# 3835

Delta R.T. -0.003 min

Lab File: BN034860.D

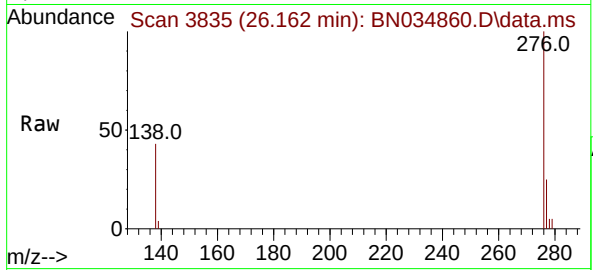
Acq: 05 Nov 2024 03:33

Instrument :

BNA_N

ClientSampleId :

PB164594BSD



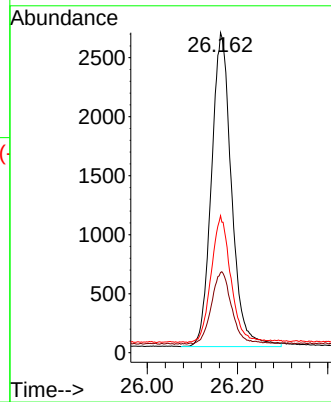
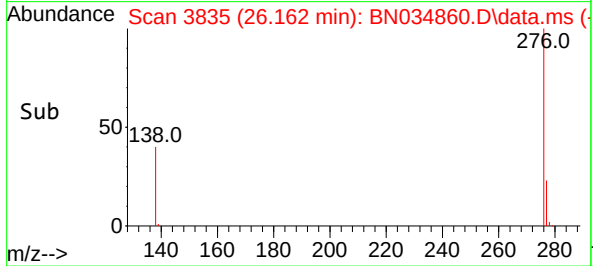
Tgt Ion:276 Resp: 8203

Ion Ratio Lower Upper

276 100

277 25.0 20.2 30.2

138 42.8 28.7 43.1





Manual Integration Report

Sequence:	BN103024	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

Manual Integration Report

Sequence:	BN110424	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC0.4	BN034837.D	Bis(2-ethylhexyl)phthalate	Jagrut	11/5/2024 4:18:00 PM	mohammad	11/6/2024 3:14:45 AM	Peak Integrated by Software
P4652-01	BN034839.D	Benzo(g,h,i)perylene	Jagrut	11/5/2024 4:18:02 PM	mohammad	11/6/2024 3:14:45 AM	Peak Integrated by Software
P4652-01	BN034839.D	Chrysene	Jagrut	11/5/2024 4:18:02 PM	mohammad	11/6/2024 3:14:45 AM	Peak Integrated by Software
P4652-02	BN034840.D	Phenanthrene	Jagrut	11/5/2024 4:18:05 PM	mohammad	11/6/2024 3:14:45 AM	Peak Integrated by Software
SSTDCCC0.4	BN034861.D	Benzo(k)fluoranthene	Jagrut	11/5/2024 4:18:09 PM	mohammad	11/6/2024 3:14:45 AM	Peak Integrated by Software



Manual Integration Report

Sequence:	BN110524	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN103024

Review By	yogesh	Review On	11/4/2024 1:33:07 AM
Supervise By	mohammad	Supervise On	11/4/2024 1:50:10 AM
SubDirectory	BN103024	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn103024
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	BN034739.D	30 Oct 2024 08:41	RC/JU	Ok
2	SSTDIC0.1	BN034740.D	30 Oct 2024 09:20	RC/JU	Ok
3	SSTDIC0.2	BN034741.D	30 Oct 2024 09:56	RC/JU	Ok
4	SSTDIC0.4	BN034742.D	30 Oct 2024 10:32	RC/JU	Ok
5	SSTDIC0.8	BN034743.D	30 Oct 2024 11:08	RC/JU	Ok
6	SSTDIC1.6	BN034744.D	30 Oct 2024 11:44	RC/JU	Ok
7	SSTDIC3.2	BN034745.D	30 Oct 2024 12:20	RC/JU	Ok
8	SSTDIC5.0	BN034746.D	30 Oct 2024 12:56	RC/JU	Ok
9	SSTDICV0.4	BN034747.D	30 Oct 2024 15:21	RC/JU	Ok
10	PB164323BL	BN034748.D	30 Oct 2024 15:57	RC/JU	Not Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN110424

Review By	Jagrut	Review On	11/5/2024 4:35:19 PM
Supervise By	mohammad	Supervise On	11/6/2024 3:14:45 AM
SubDirectory	BN110424	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn103024
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	BN034836.D	04 Nov 2024 09:30	RC/JU	Ok
2	SSTDCCC0.4	BN034837.D	04 Nov 2024 10:45	RC/JU	Ok,M
3	PB164594BL	BN034838.D	04 Nov 2024 11:21	RC/JU	Ok
4	P4652-01	BN034839.D	04 Nov 2024 14:55	RC/JU	Dilution
5	P4652-02	BN034840.D	04 Nov 2024 15:31	RC/JU	Ok,M
6	P4652-03	BN034841.D	04 Nov 2024 16:07	RC/JU	Ok
7	P4652-01DL	BN034842.D	04 Nov 2024 16:43	RC/JU	Not Ok
8	P4652-05	BN034843.D	04 Nov 2024 17:19	RC/JU	Ok
9	P4652-06	BN034844.D	04 Nov 2024 17:54	RC/JU	Ok
10	P4652-01DL	BN034845.D	04 Nov 2024 18:30	RC/JU	Ok
11	P4665-05	BN034846.D	04 Nov 2024 19:06	RC/JU	Ok
12	P4665-07	BN034847.D	04 Nov 2024 19:42	RC/JU	Ok
13	SSTDCCC0.4	BN034848.D	04 Nov 2024 20:18	RC/JU	Ok
14	DFTPP	BN034849.D	04 Nov 2024 20:54	RC/JU	Ok
15	SSTDCCC0.4	BN034850.D	04 Nov 2024 21:33	RC/JU	Ok
16	PB164511BL	BN034851.D	04 Nov 2024 22:09	RC/JU	Ok
17	PB164511BS	BN034852.D	04 Nov 2024 22:45	RC/JU	Ok
18	PB164511BSD	BN034853.D	04 Nov 2024 23:21	RC/JU	Ok
19	P4600-03	BN034854.D	04 Nov 2024 23:57	RC/JU	Ok
20	P4600-05	BN034855.D	05 Nov 2024 00:33	RC/JU	Ok
21	P4600-07	BN034856.D	05 Nov 2024 01:09	RC/JU	Ok

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN110424

Review By	Jagrut	Review On	11/5/2024 4:35:19 PM
Supervise By	mohammad	Supervise On	11/6/2024 3:14:45 AM
SubDirectory	BN110424	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn103024
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			

22	P4652-04	BN034857.D	05 Nov 2024 01:45	RC/JU	Dilution
23	P4665-02	BN034858.D	05 Nov 2024 02:21	RC/JU	ReRun
24	PB164594BS	BN034859.D	05 Nov 2024 02:57	RC/JU	Ok
25	PB164594BSD	BN034860.D	05 Nov 2024 03:33	RC/JU	Ok
26	SSTDCCC0.4	BN034861.D	05 Nov 2024 04:09	RC/JU	Ok,M

M : Manual Integration

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QCBatch ID # BN110524

Review By	yogesh	Review On	11/6/2024 3:10:02 AM		
Supervise By	mohammad	Supervise On	11/6/2024 3:16:41 AM		
SubDirectory	BN110524	HP Acquire Method	BNA_N	HP Processing Method	bn103024
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	BN034862.D	05 Nov 2024 08:44	RC/JU	Ok
2	SSTDCCC0.4	BN034863.D	05 Nov 2024 09:23	RC/JU	Ok
3	PB164594BL	BN034864.D	05 Nov 2024 10:37	RC/JU	Ok
4	P4652-04DL	BN034865.D	05 Nov 2024 11:13	RC/JU	Ok
5	P4665-02RE	BN034866.D	05 Nov 2024 11:49	RC/JU	Confirms
6	SSTDCCC0.4	BN034867.D	05 Nov 2024 12:46	RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN103024

Review By	yogesh	Review On	11/4/2024 1:33:07 AM
Supervise By	mohammad	Supervise On	11/4/2024 1:50:10 AM
SubDirectory	BN103024	HP Acquire Method	BNA_N, 8270_HP Processing Method bn103024

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#	Sampleld	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN034739.D	30 Oct 2024 08:41		RC/JU	Ok
2	SSTDICC0.1	SSTDICC0.1	BN034740.D	30 Oct 2024 09:20	Compound#20 removed from 0.1 ppm	RC/JU	Ok
3	SSTDICC0.2	SSTDICC0.2	BN034741.D	30 Oct 2024 09:56		RC/JU	Ok
4	SSTDICCC0.4	SSTDICCC0.4	BN034742.D	30 Oct 2024 10:32	Compound#20 Kept on LR	RC/JU	Ok
5	SSTDICC0.8	SSTDICC0.8	BN034743.D	30 Oct 2024 11:08	The Calibration is Good For DOD	RC/JU	Ok
6	SSTDICC1.6	SSTDICC1.6	BN034744.D	30 Oct 2024 11:44		RC/JU	Ok
7	SSTDICC3.2	SSTDICC3.2	BN034745.D	30 Oct 2024 12:20		RC/JU	Ok
8	SSTDICC5.0	SSTDICC5.0	BN034746.D	30 Oct 2024 12:56		RC/JU	Ok
9	SSTDICV0.4	ICVBN103024	BN034747.D	30 Oct 2024 15:21		RC/JU	Ok
10	PB164323BL	PB164323BL	BN034748.D	30 Oct 2024 15:57	END CCC Missing	RC/JU	Not Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN110424

Review By	Jagrut	Review On	11/5/2024 4:35:19 PM
Supervise By	mohammad	Supervise On	11/6/2024 3:14:45 AM
SubDirectory	BN110424	HP Acquire Method	BNA_N, 8270_HP Processing Method bn103024

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	BN034836.D	04 Nov 2024 09:30		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN034837.D	04 Nov 2024 10:45		RC/JU	Ok,M
3	PB164594BL	PB164594BL	BN034838.D	04 Nov 2024 11:21		RC/JU	Ok
4	P4652-01	RW5-SP100-50-202410	BN034839.D	04 Nov 2024 14:55	Need 5X Dilution	RC/JU	Dilution
5	P4652-02	RW5-SP201-50-202410	BN034840.D	04 Nov 2024 15:31		RC/JU	Ok,M
6	P4652-03	RW5-SP301-303-50-20	BN034841.D	04 Nov 2024 16:07		RC/JU	Ok
7	P4652-01DL	RW5-SP100-50-202410	BN034842.D	04 Nov 2024 16:43	Internal Standard spiking error	RC/JU	Not Ok
8	P4652-05	RW5-SP201-90-202410	BN034843.D	04 Nov 2024 17:19		RC/JU	Ok
9	P4652-06	RW5-SP301-303-90-20	BN034844.D	04 Nov 2024 17:54		RC/JU	Ok
10	P4652-01DL	RW5-SP100-50-202410	BN034845.D	04 Nov 2024 18:30		RC/JU	Ok
11	P4665-05	BP-VPB-190-GW-558-5	BN034846.D	04 Nov 2024 19:06		RC/JU	Ok
12	P4665-07	BP-VPB-190-GW-598-6	BN034847.D	04 Nov 2024 19:42		RC/JU	Ok
13	SSTDCCC0.4	SSTDCCC0.4EC	BN034848.D	04 Nov 2024 20:18		RC/JU	Ok
14	DFTPP	DFTPP	BN034849.D	04 Nov 2024 20:54		RC/JU	Ok
15	SSTDCCC0.4	SSTDCCC0.4	BN034850.D	04 Nov 2024 21:33		RC/JU	Ok
16	PB164511BL	PB164511BL	BN034851.D	04 Nov 2024 22:09		RC/JU	Ok
17	PB164511BS	PB164511BS	BN034852.D	04 Nov 2024 22:45		RC/JU	Ok
18	PB164511BSD	PB164511BSD	BN034853.D	04 Nov 2024 23:21		RC/JU	Ok

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN110424

Review By	Jagrut	Review On	11/5/2024 4:35:19 PM
Supervise By	mohammad	Supervise On	11/6/2024 3:14:45 AM
SubDirectory	BN110424	HP Acquire Method	BNA_N, 8270_HP Processing Method bn103024
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	P4600-03	BP-VPB-190-GW-438-4	BN034854.D	04 Nov 2024 23:57		RC/JU	Ok
20	P4600-05	BP-VPB-190-GW-478-4	BN034855.D	05 Nov 2024 00:33		RC/JU	Ok
21	P4600-07	BP-VPB-190-GW-518-5	BN034856.D	05 Nov 2024 01:09		RC/JU	Ok
22	P4652-04	RW5-SP100-90-202410	BN034857.D	05 Nov 2024 01:45	Need 5X Dilution	RC/JU	Dilution
23	P4665-02	VPB190-HYD-2024103	BN034858.D	05 Nov 2024 02:21	Surrogate Fail	RC/JU	ReRun
24	PB164594BS	PB164594BS	BN034859.D	05 Nov 2024 02:57		RC/JU	Ok
25	PB164594BSD	PB164594BSD	BN034860.D	05 Nov 2024 03:33		RC/JU	Ok
26	SSTDCCC0.4	SSTDCCC0.4EC	BN034861.D	05 Nov 2024 04:09		RC/JU	Ok,M

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN110524

Review By	yogesh	Review On	11/6/2024 3:10:02 AM
Supervise By	mohammad	Supervise On	11/6/2024 3:16:41 AM
SubDirectory	BN110524	HP Acquire Method	BNA_N
		HP Processing Method	bn103024

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	BN034862.D	05 Nov 2024 08:44		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN034863.D	05 Nov 2024 09:23		RC/JU	Ok
3	PB164594BL	PB164594BL	BN034864.D	05 Nov 2024 10:37		RC/JU	Ok
4	P4652-04DL	RW5-SP100-90-202410	BN034865.D	05 Nov 2024 11:13		RC/JU	Ok
5	P4665-02RE	VPB190-HYD-2024103	BN034866.D	05 Nov 2024 11:49	Surrogate Fail	RC/JU	Confirms
6	SSTDCCC0.4	SSTDCCC0.4EC	BN034867.D	05 Nov 2024 12:46		RC/JU	Ok

M : Manual Integration

SOP ID:	M3510C,3580A-Extraction SVOC-20		
Clean Up SOP #:	N/A	Extraction Start Date :	11/01/2024
Matrix :	Water	Extraction Start Time :	09:35
Weigh By:	N/A	Extraction By:	RS
Balance check:	N/A	Filter By:	RS
Balance ID:	N/A	pH Meter ID:	N/A
pH Strip Lot#:	E3574	Hood ID:	4,6,7
Extraction Method:	☒ Separatory Funnel	☐ Continuous Liquid/Liquid	☐ Sonication
		☐ Waste Dilution	☐ Soxhlet
		Concentration By:	EH
		Supervisor By :	rajesh

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

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3817
Baked Na2SO4	N/A	EP2554
10N NaoH	N/A	EP2550
H2SO4 1:1	N/A	EP2548
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210673. pH Adjusted<2 with 1:1 H2SO4 &>11 with 10 N NaOH.P 4665 01,02,03 Added in batch at 11:00.

KD Bath ID:	Water bath -01	Envap ID:	NEVAP-02
KD Bath Temperature:	60 °C	Envap Temperature:	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/01/24	RP (Set 1 & 2)	RLSVOC
16:00	Preparation Group	Analysis Group

Analytical Method: M3510C,3580A-Extraction SVOC-20

Concentration Date: 11/01/2024

Sample ID	Client Sample ID	Test	g ^{mL}	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164594BL	SBLK594	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1			SEP-01
PB164594BS	SLCS594	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1			2
PB164594BS D	SLCSD594	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1			3
P4652-01	RW5-SP100-50-2024103 0	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1	B		4
P4652-02	RW5-SP201-50-2024103 0	SVOC-SIMGrou p1	980	6	RUPESH	rajesh	1			5
P4652-03	RW5-SP301-303-50-2024 1030	SVOC-SIMGrou p1	900	6	RUPESH	rajesh	1	B		6
P4652-04	RW5-SP100-90-2024103 0	SVOC-SIMGrou p1	980	6	RUPESH	rajesh	1	B		7
P4652-05	RW5-SP201-90-2024103 0	SVOC-SIMGrou p1	960	6	RUPESH	rajesh	1			8
P4652-06	RW5-SP301-303-90-2024 1030	SVOC-SIMGrou p1	950	6	RUPESH	rajesh	1	B		9
P4665-02	VPB190-HYD-20241030	SVOC-SIMGrou p1	980	6	RUPESH	rajesh	1	C		10
P4665-05	BP-VPB-190-GW-558-560	SVOC-SIMGrou p1	800	6	RUPESH	rajesh	1	C	Muddy	11
P4665-07	BP-VPB-190-GW-598-600	SVOC-SIMGrou p1	990	6	RUPESH	rajesh	1	C		12

* Extracts relinquished on the same date as received.

P4652-SVOC-SIMGroup1



561 of 705

11-00
164594

WORKLIST(Hardcopy Internal Chain)

WorkList Name : p4665

WorkList ID : 185016

Department : Extraction

Date : 11-01-2024 11:00:24

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4665-02	VPB190-HYD-20241030	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	K51	10/30/2024	8270-Modified
P4665-05	BP-VPB-190-GW-558-560	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	K51	10/30/2024	8270-Modified
P4665-07	BP-VPB-190-GW-598-600	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	K51	10/30/2024	8270-Modified

Date/Time 11/01/24 11:00
Raw Sample Received by: R. C. C. C. C.
Raw Sample Relinquished by: Rm Sm

Date/Time 11/01/24 11:15
Raw Sample Received by: Rm Sm
Raw Sample Relinquished by: R S (C. C. C. C.)

164594
9/35

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4652

WorkList ID : 185012

Department : Extraction

Date : 11-01-2024 09:31:15

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4652-01	RW5-SP100-50-20241030	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	K61	10/30/2024	8270-Modified I
P4652-02	RW5-SP201-50-20241030	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	K61	10/30/2024	8270-Modified I
P4652-03	RW5-SP301-303-50-20241030	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	K61	10/30/2024	8270-Modified I
P4652-04	RW5-SP100-90-20241030	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	K61	10/30/2024	8270-Modified I
P4652-05	RW5-SP201-90-20241030	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	K61	10/30/2024	8270-Modified I
P4652-06	RW5-SP301-303-90-20241030	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	K61	10/30/2024	8270-Modified I

Date/Time 11/01/24 9:33

Raw Sample Received by: RJ (Set 1067)

Raw Sample Relinquished by: RM Com

P4652-SVOC-SIMGroup1

Date/Time 11/01/24 10:00

Raw Sample Received by: RM Sme

Raw Sample Relinquished by: RJ (Set 1067)

Prep Standard - Chemical Standard Summary

Order ID : P4652
Test : SVOC-SIMGroup1
Prepbatch ID : PB164594,
Sequence ID/Qc Batch ID: BN110424,BN110524,

Standard ID :
EP2548,EP2550,EP2554,SP6527,SP6547,SP6548,SP6573,SP6596,SP6597,SP6598,SP6599,SP6600,SP6601,SP6602,SP6603,SP6606,SP6636,

Chemical ID :
E3551,E3657,E3746,E3759,E3768,E3786,E3788,E3817,M5178,S10103,S10247,S10782,S10977,S 11003,S11011,S11097,S11494,S11566,S11766,S11771,S12029,S12077,S12096,S12105,S12112,S12113,S12117,S12126,S12453,W3112,

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
314	1.1 H2SO4 SOLN	EP2548	10/16/2024	04/16/2025	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 10/16/2024

FROM 1000.00000ml of W3112 + 4000.00000ml of M5178 = Final Quantity: 2000.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1874	10 N SODIUM HYDROXIDE SOLN	EP2550	10/16/2024	04/16/2025	Rajesh Parikh	Extraction_SC ALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 10/16/2024

FROM 1000.00000ml of W3112 + 400.00000gram of E3657 = Final Quantity: 1000.000 ml

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3923	Baked Sodium Sulfate	EP2554	10/26/2024	01/03/2025	RUPESHKUMAR SHAH	Extraction_SC ALE_2 (EX-SC-2)	None	Rajesh Parikh 10/26/2024

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

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

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3355	8270-SIM MDL-3.2PPM CALIBRATION STOCK SOL- 2ND	SP6547	07/08/2024	11/21/2024	Jagrut Upadhyay	None	None	mohammad ahmed
SOURCE FROM 0.00630ml of S10977 + 0.01280ml of S11003 + 0.03200ml of S10782 + 0.03200ml of S11766 + 0.06400ml of S11566 + 0.06400ml of S12096 + 0.06400ml of S12117 + 19.72490ml of E3746 = Final Quantity: 20.000 ml								

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

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3895	50 ug/ml DFTTP 8270E	SP6573	07/15/2024	01/08/2025	Rahul Chavli	None	None	Yogesh Patel
								07/17/2024

FROM 1.00000ml of S10247 + 19.00000ml of E3768 = Final Quantity: 20.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3339	8270 sim calibration stock 10ppm (CPI)	SP6596	08/09/2024	11/21/2024	Jagrut Upadhyay	None	None	Yogesh Patel
								08/21/2024

FROM 0.02500ml of S12113 + 0.03350ml of S10103 + 0.05000ml of S11494 + 0.10000ml of S12112 + 0.12500ml of S10782 + 0.25000ml of S11097 + 0.25000ml of S12077 + 24.16650ml of E3786 = Final Quantity: 25.000 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3361	8270-SIM MDL-5PPM CALIBRATION SOLUTION	SP6597	08/09/2024	11/21/2024	Jagrut Upadhyay	None	None	Yogesh Patel
08/21/2024								

FROM 0.50000ml of E3786 + 0.01000ml of SP6527 + 0.50000ml of SP6596 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3341	8270-SIM MDL-3.2PPM CALIBRATION SOLUTION	SP6598	08/09/2024	11/21/2024	Jagrut Upadhyay	None	None	Yogesh Patel
08/21/2024								

FROM 0.68000ml of E3786 + 0.01000ml of SP6527 + 0.32000ml of SP6596 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3344	8270-SIM MDL-1.6PPM CALIBRATION SOLUTION	SP6599	08/09/2024	11/21/2024	Jagrut Upadhyay	None	None	Yogesh Patel
								08/21/2024

FROM 0.84000ml of E3786 + 0.01000ml of SP6527 + 0.16000ml of SP6596 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3342	8270-SIM MDL-0.8PPM CALIBRATION SOLUTION	SP6600	08/09/2024	11/21/2024	Jagrut Upadhyay	None	None	Yogesh Patel
								08/21/2024

FROM 0.92000ml of E3786 + 0.01000ml of SP6527 + 0.08000ml of SP6596 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3343	8270-SIM MDL-0.4PPM CALIBRATION SOLUTION	SP6601	08/09/2024	11/21/2024	Jagrut Upadhyay	None	None	Yogesh Patel
08/21/2024								

FROM 0.96000ml of E3786 + 0.01000ml of SP6527 + 0.04000ml of SP6596 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3345	8270-SIM MDL-0.2PPM CALIBRATION SOLUTION	SP6602	08/09/2024	11/21/2024	Jagrut Upadhyay	None	None	Yogesh Patel
08/21/2024								

FROM 0.50000ml of E3786 + 0.01000ml of SP6527 + 0.50000ml of SP6601 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3346	8270-SIM MDL-0.1PPM CALIBRATION SOLUTION	SP6603	08/09/2024	11/21/2024	Jagrut Upadhyay	None	None	Yogesh Patel
								08/21/2024

FROM 0.75000ml of E3786 + 0.01000ml of SP6527 + 0.25000ml of SP6601 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3492	8270-SIM-Spike 0.4 PPM	SP6606	08/20/2024	02/12/2025	Rahul Chavli	None	None	mohammad ahmed
								08/21/2024

FROM 0.00160ml of S11011 + 0.02000ml of S11771 + 0.04000ml of S12105 + 0.04000ml of S12126 + 0.04000ml of S12453 + 99.85840ml of E3788 = Final Quantity: 100.000 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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 #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	313201	01/03/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19510-5 / Sodium Hydroxide Pellets 2.5 Kg, Pk of 4	23B1556310	12/31/2025	12/04/2023 / Rajesh	12/01/2023 / Rajesh	E3657

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24C0162011	11/25/2024	05/25/2024 / Rajesh	05/08/2024 / Rajesh	E3746

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24D1962005	12/08/2024	06/08/2024 / Rajesh	05/31/2024 / Rajesh	E3759

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24E2462004	01/08/2025	07/08/2024 / Rajesh	06/21/2024 / Rajesh	E3768

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24F1062004	02/01/2025	08/01/2024 / Rajesh	07/16/2024 / Rajesh	E3786

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	23H1462005	04/23/2025	08/13/2024 / Rajesh	08/13/2024 / Rajesh	E3788

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24H2762011	04/09/2025	10/09/2024 / Rajesh	10/09/2024 / Rajesh	E3817

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	0000281827	03/29/2026	05/25/2022 / william	04/05/2022 / william	M5178

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

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	33913 / SOM01.0 SIM Analysis Standard (Surrogate), 2000 PPM	A0186160	11/21/2024	05/21/2024 / Jagrut	09/07/2022 / Christian	S10782

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul	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

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] [CS 4978-1]	A0201940	12/05/2024	06/05/2024 / Rahul	09/18/2023 / Kiran	S11566

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	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, CH2Cl2, 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]

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]

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-010223-01 / 1,4-Dioxane Solution, 2,000mg/L, 1ml	454157	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, CH ₂ Cl ₂ [New Solvent 100% CH ₂ Cl ₂]	A0203726	12/05/2024	06/05/2024 / Rahul	03/15/2024 / Rahul	S12117

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH ₂ Cl ₂ [New Solvent 100% CH ₂ Cl ₂]	A0203726	02/12/2025	08/12/2024 / Rahul	03/15/2024 / Rahul	S12126

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request]	A0214021	02/12/2025	08/12/2024 / Rahul	07/23/2024 / RAHUL	S12453

[CS 4978-1]

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112



5580 Skylane Blvd
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Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-112090	440246	≤ -10 °C	Methylene Chloride	2/16/2026	CLP Acid Surrogate Solution, 7,500 mg/L, 1 mL
-04					

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
2-chlorophenol-d ₄	93951-73-6	99.3	248.12.7P	7487 ± 17.2
2-fluorophenol	367-12-4	99.8	10.7.3.3P	7513 ± 17.26
phenol-d ₆	13127-88-3	99.9	949.120.8P	7481 ± 17.19
2,4,6-tribromophenol	118-79-6	99.8	12.1.6P	7469 ± 17.17

Received on

02/25/21

by
CG

S9236
to

S9240

*Not a certified value

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

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

Certified By: Erica Castiglione
Erica Castiglione
Chemist



5580 Skylane Blvd
Santa Rosa, CA 95403

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

Receivalon
02/07/23 by CG

Sheet 511096
to
511099

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

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 4

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

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

*Not a certified value

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

Brianna Smith

Certified By: _____

Brianna Smith
Chemist

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

Certificate of Analysis

Page 4 of 4

Catalog No.: Z-110381-01

Lot No.: 495831

Expiration Date: 10/30/2027

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

*Not a certified value

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

Certified By:



Briana Smith
Chemist

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



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

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

CERTIFIED VALUES

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

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

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

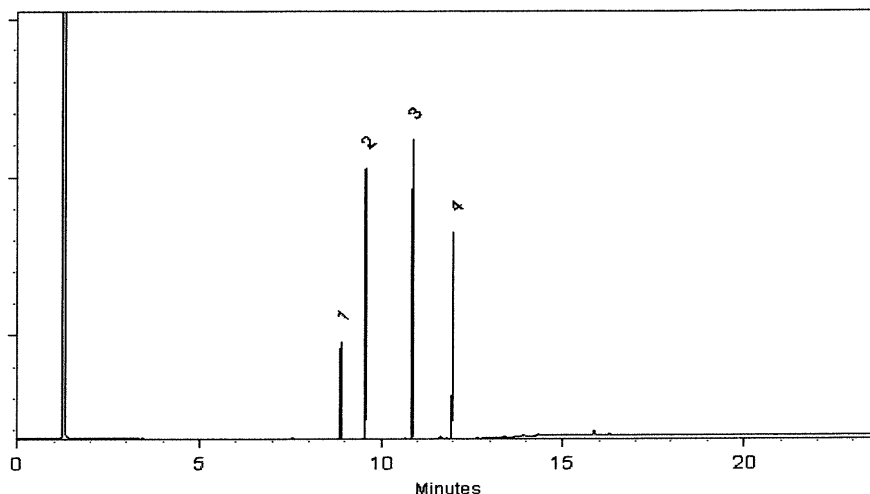
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



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

Morgan Craighead - Mix Technician

Date Mixed: 08-Mar-2022

Balance: B345965662

Marlene Cowan - Operations Tech I

Date Passed: 10-Mar-2022

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



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Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Received on
09/07/22
by
CG
S10778
to
S10782

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

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:

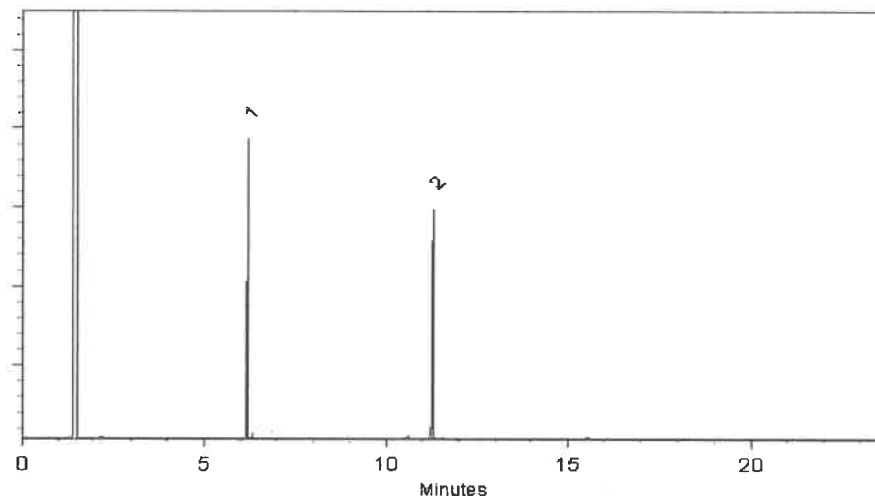
250°C

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
Registered Quality System
Certificate #FM 80397



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

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:

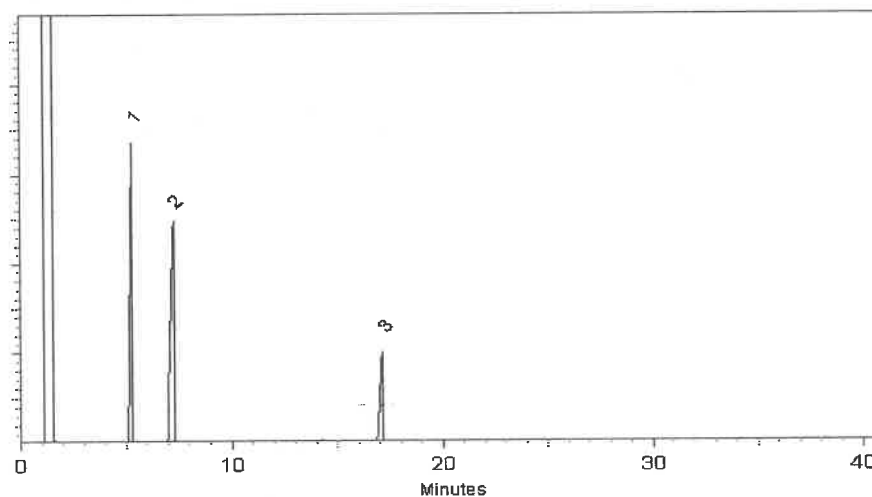
250°C

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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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31086 **Lot No.:** A0189418
Description : B/N Surrogate Mix (4/89 SOW)
Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : August 31, 2028 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

Received by
CG on
12/28/22
\$10981
to
S11010

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Nitrobenzene-d5 CAS # 4165-60-0 (Lot PR-29940A) Purity 99%	5,009.8 µg/mL	+/- 29.1271 µg/mL Gravimetric +/- 225.6421 µg/mL Unstressed +/- 250.3778 µg/mL Stressed
2	2-Fluorobiphenyl CAS # 321-60-8 (Lot 00021384) Purity 99%	5,026.6 µg/mL	+/- 29.2250 µg/mL Gravimetric +/- 226.4003 µg/mL Unstressed +/- 251.2191 µg/mL Stressed
3	p-Terphenyl-d14 CAS # 1718-51-0 (Lot PR-30504) Purity 99%	5,027.3 µg/mL	+/- 29.2289 µg/mL Gravimetric +/- 226.4304 µg/mL Unstressed +/- 251.2524 µg/mL Stressed

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

Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

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

Inj. Temp:

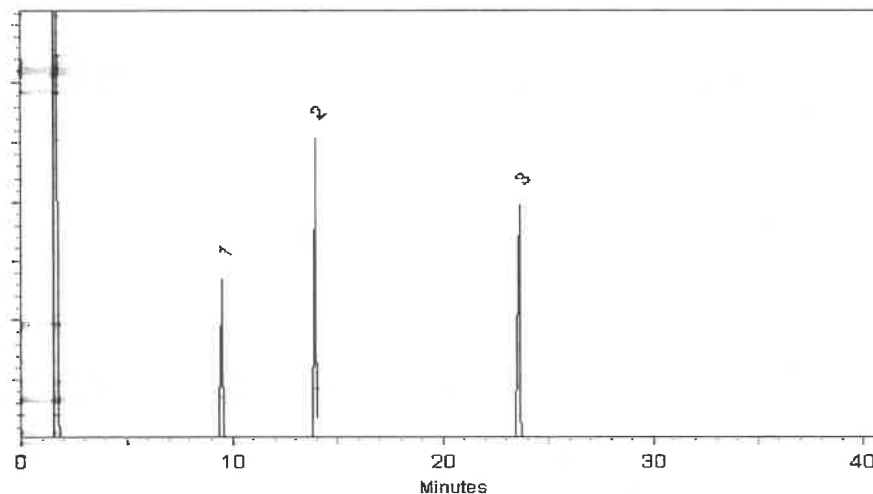
250°C

Det. Temp:

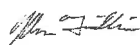
330°C

Det. Type:

FID



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


John Friedline - Operations Technician I

Date Mixed: 09-Sep-2022

Balance: 1128353505


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Sep-2022

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



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 555872 **Lot No.:** A0193449

Description : Custom Pentachlorophenol Standard

Custom Pentachlorophenol Standard 25,000µg/mL, Methanol, 1mL/ampul

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

Expiration Date : January 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

Received on
01/13/23
by
CG
S11011
+0
S11015

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP221012	99%	25,050.0 µg/mL	+/- 778.6378

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Russ Bookhamer

Russ Bookhamer - Operations Technician I

Date Mixed: 11-Jan-2023

Balance: B442140311

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

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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

CERTIFICATE OF ANALYSIS

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

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

COMMENTS

QC: PhC Irma Belmares

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

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

RC-02-01, Ed. 3



Certificate of Analysis

Sodium Hydroxide (Pellets)

Material: 0583
Grade: ACS GRADE
Batch Number: 23B1556310

Chemical Formula: NaOH
Molecular Weight: 40
CAS #: 1310-73-2
Appearance:

Manufacture Date: 12/14/2022
Expiration Date: 12/31/2025

Storage: Room Temperature

Pellets

TEST	SPECIFICATION	ANALYSIS	DISPOSITION
Calcium	$\leq 0.005 \%$	$< 0.005 \%$	PASS
Chloride	$\leq 0.005 \%$	0.002 %	PASS
Heavy Metals	$\leq 0.002 \%$	$< 0.002 \%$	PASS
Iron	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Magnesium	$\leq 0.002 \%$	$< 0.002 \%$	PASS
Mercury	$\leq 0.1 \text{ ppm}$	$< 0.1 \text{ ppm}$	PASS
Nickel	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Nitrogen Compounds	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Phosphate	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Potassium	$\leq 0.02 \%$	$< 0.02 \%$	PASS
Purity	$\geq 97.0 \%$	99.2 %	PASS
Sodium Carbonate	$\leq 1.0 \%$	0.5 %	PASS
Sulfate	$\leq 0.003 \%$	$< 0.003 \%$	PASS

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

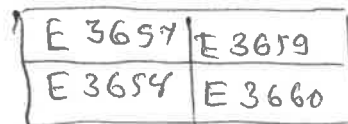
This document has been electronically produced and is valid without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon
VWR Chemicals, LLC.
28600 Fountain Parkway, Solon OH 44139 USA

Additional Information

Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.



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



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


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	$\leq 1.0 \text{ ppm}$	0.1 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	$\leq 10 \text{ ppm}$	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02 \%$	< 0.01 %

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

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

E 3786

Jamie Croak
Director Quality Operations, Bioscience Production

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

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



Material No.: 9266-A4
Batch No.: 24H2762011
Manufactured Date: 2024-06-05
Expiration Date: 2025-09-04
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	2
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	5
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	$< 0.01\%$

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

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3817

Jamie Croak
Director Quality Operations, Bioscience Production

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

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis



Material No.: 9530-33
Batch No.: 0000281827
Manufactured Date: 2021/03/30
Retest Date: 2026/03/29
Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS – Assay (as HCl) (by acid–base titrn)	36.5 – 38.0 %	37.6
ACS – Color (APHA)	<= 10	5
ACS – Residue after Ignition	<= 3 ppm	1
ACS – Specific Gravity at 60°/60°F	1.185 – 1.192	1.189
ACS – Bromide (Br)	<= 0.005 %	< 0.005
ACS – Extractable Organic Substances	<= 5 ppm	< 1
ACS – Free Chlorine (as Cl ₂)	<= 0.5 ppm	< 0.5
Phosphate (PO ₄)	<= 0.05 ppm	< 0.03
Sulfate (SO ₄)	<= 0.5 ppm	< 0.3
Sulfite (SO ₃)	<= 0.8 ppm	0.3
Ammonium (NH ₄)	<= 3 ppm	< 1
Trace Impurities – Arsenic (As)	<= 0.010 ppm	< 0.003
Trace Impurities – Aluminum (Al)	<= 10.0 ppb	0.5
Arsenic and Antimony (as As)	<= 5 ppb	< 3
Trace Impurities – Barium (Ba)	<= 1.0 ppb	< 0.2
Trace Impurities – Beryllium (Be)	<= 1.0 ppb	< 0.2
Trace Impurities – Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities – Boron (B)	<= 20.0 ppb	< 5.0
Trace Impurities – Cadmium (Cd)	<= 1.0 ppb	< 0.3
Trace Impurities – Calcium (Ca)	<= 50.0 ppb	15.0
Trace Impurities – Chromium (Cr)	<= 1.0 ppb	< 0.4
Trace Impurities – Cobalt (Co)	<= 1.0 ppb	< 0.3
Trace Impurities – Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities – Gallium (Ga)	<= 1.0 ppb	< 0.2

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

Test	Specification	Result
Trace Impurities – Germanium (Ge)	<= 3.0 ppb	< 2.0
Trace Impurities – Gold (Au)	<= 4.0 ppb	3.0
Heavy Metals (as Pb)	<= 100 ppb	< 50
Trace Impurities – Iron (Fe)	<= 15.0 ppb	1.0
Trace Impurities – Lead (Pb)	<= 1.0 ppb	< 0.5
Trace Impurities – Lithium (Li)	<= 1.0 ppb	< 0.2
Trace Impurities – Magnesium (Mg)	<= 10.0 ppb	< 0.4
Trace Impurities – Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities – Mercury (Hg)	<= 0.5 ppb	0.2
Trace Impurities – Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities – Nickel (Ni)	<= 4.0 ppb	< 0.3
Trace Impurities – Niobium (Nb)	<= 1.0 ppb	< 0.2
Trace Impurities – Potassium (K)	<= 9.0 ppb	< 2.0
Trace Impurities – Selenium (Se), For Information Only	ppb	1.0
Trace Impurities – Silicon (Si)	<= 100.0 ppb	18.0
Trace Impurities – Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities – Sodium (Na)	<= 100.0 ppb	< 5.0
Trace Impurities – Strontium (Sr)	<= 1.0 ppb	< 0.2
Trace Impurities – Tantalum (Ta)	<= 1.0 ppb	< 0.9
Trace Impurities – Thallium (Tl)	<= 5.0 ppb	< 2.0
Trace Impurities – Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities – Titanium (Ti)	<= 1.0 ppb	< 0.2
Trace Impurities – Vanadium (V)	<= 1.0 ppb	< 0.2
Trace Impurities – Zinc (Zn)	<= 5.0 ppb	0.4
Trace Impurities – Zirconium (Zr)	<= 1.0 ppb	< 0.1

For Laboratory, Research or Manufacturing Use

Product Information (not specifications):

Appearance (clear, fuming liquid)

Meets ACS Specifications

Country of Origin: US

Packaging Site: Phillipsburg Mfg Ctr & DC


Jamie Ethier
Vice President Global Quality

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



5580 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-110094-02	506889	≤ -10 °C	Methylene Chloride	7/25/2028	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.
↓
511498 } 08/11/2023

*Not a certified value

Certified By: Shane C. Tipton
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
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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.: 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.



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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:

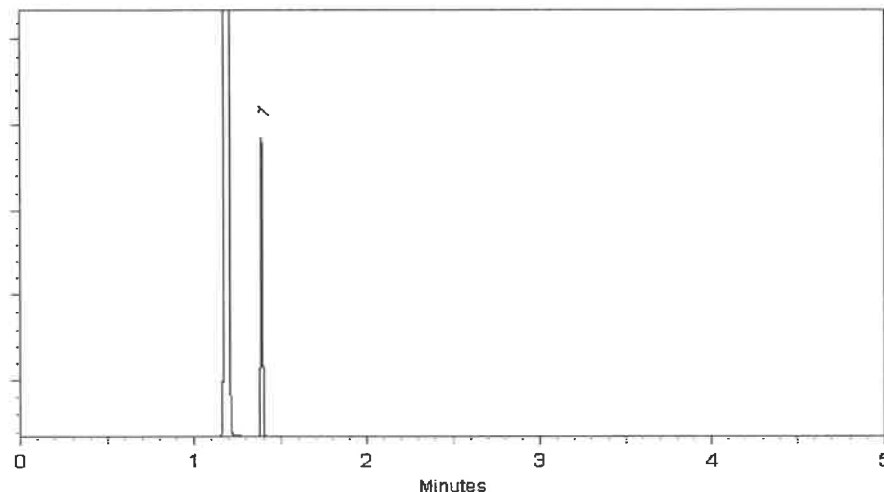
FID

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

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31853 **Lot No.:** A0196453
Description : 1,4-dioxane
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : March 31, 2028 **Storage:** 0°C or colder
Ship: Ambient

S11749
↓
S11794 } RC / 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant flow 1.8 mL/min.

Temp. Program:

80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

Inj. Temp:

250°C

Det. Temp:

340°C

Det. Type:

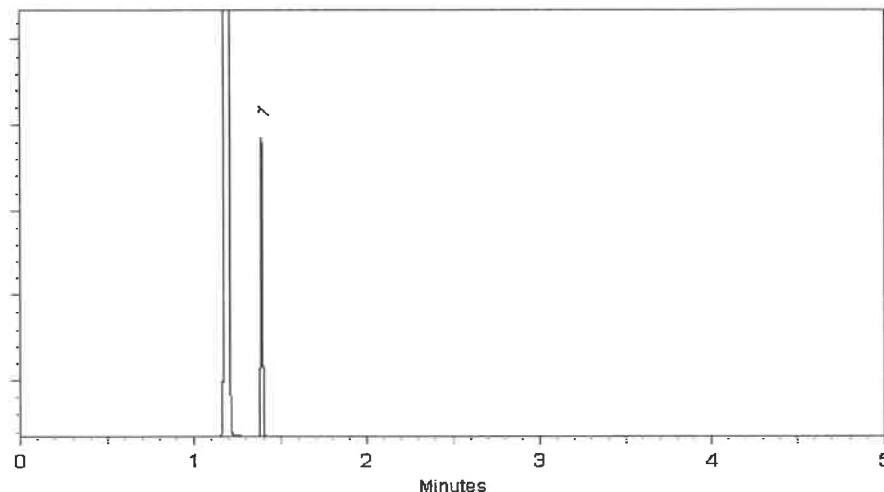
FID

Split Vent:

100 ml/min.

Inj. Vol

1µl



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

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023

Balance Serial # B707717271

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

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

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 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:

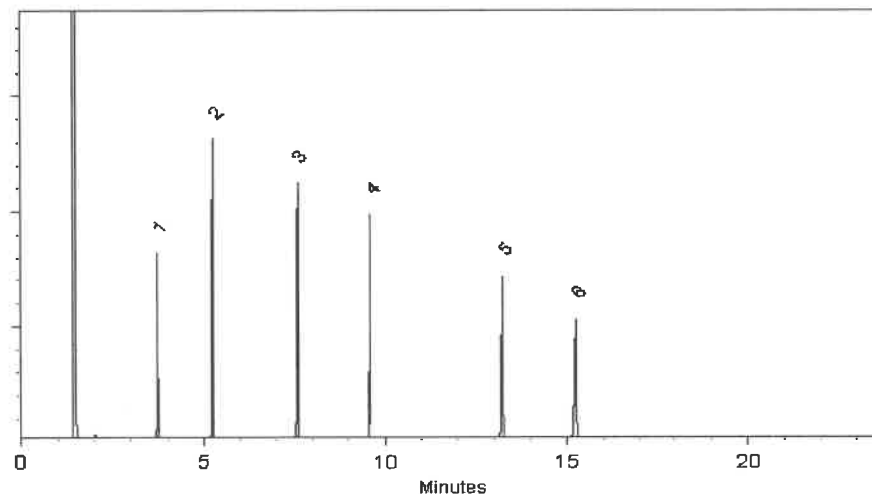
FID

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



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: _____

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Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110816-01	414127	≤ -10 °C	Methylene Chloride	6/21/2025	Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
atrazine	1912-24-9	99.5	337.7.3P	997 ± 5.81
benzidine	92-87-5	99.9	124.18.6.2P	991.8 ± 5.77
caprolactam	105-60-2	99.9	271.1.6P	999 ± 5.82

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.



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

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Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : Custom 8270 Plus Standard #2

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

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

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

Ship: Ambient

512082 } RC/
↓
512111 } 02/22/24

CERTIFIED VALUES

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

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

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

John Friedline - Operations Technician I

Date Mixed: 12-Feb-2024

Balance: B345965662



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Catalog No. : 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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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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Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-020223-01	454157	≤ -10 °C	P/T Methanol	6/10/2026	1,4-Dioxane Solution, 2000 mg/L, 1 mL

<u>Compound</u>	<u>CAS No.</u>	<u>Purity (%)</u>	<u>Compound Lot No.</u>	<u>Concentration, mg/L</u>
1,4-dioxane	123-91-1	100	223.1.3P	1997 ± 57.08

512112 } RC/
↓
912116 } 03/08/24

*Not a certified value

Certified By: _____

Melissa Workoff
Chemist

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



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

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

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

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

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

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

512117 } RC/
↓ 03/18/24
512146 }

CERTIFIED VALUES

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

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

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

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

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



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 555223 **Lot No.:** A0214021

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

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

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

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

S12449 } RC/
↓ 7/24/24
S12508 }

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024

Balance: 1128353505

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

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



SHIPPING DOCUMENTS

- 1
- 2
- 3
- 4
- 5
- 6
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- 8
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- 10
- 11
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- 14
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- 18

CHEMTECH CHAIN OF CUSTODY RECORD		284 Sheffield Street, Mountainside, NJ 07092 (908) 789-8900 Fax: (908) 78-8922 www.chemtech.net		Chemtech Project Number: P4652																																																														
				COC Number:																																																														
CLIENT INFORMATION			PROJECT INFORMATION					BILLING INFORMATION																																																										
COMPANY: Tetra Tech			PROJECT NAME: NWIRP Bethpage					BILL TO:				PO#																																																						
ADDRESS: 4433 Corporation Ln, Suite 300			PROJECT #: 112G08005-WE13 LOCATION: RW5B					ADDRESS:																																																										
CITY: Virginia Beach STATE: VA ZIP: 23462			PROJECT MANAGER: Ernie Wu					CITY:				STATE: ZIP:																																																						
ATTENTION: Ernie Wu			E-MAIL: ernie.wu@tetratech.com					ATTENTION:				PHONE:																																																						
PHONE: 757-466-4901 FAX: 757-461-4148			PHONE: 757-466-4901 FAX: 757-461-4148					ANALYSIS																																																										
DATA TURNAROUND INFORMATION			DATA DELIVERABLE INFORMATION					1,4-Dioxane SW846 8270 SIM TAL Metals 60100/747A <table border="1" style="border-collapse: collapse; text-align: center;"> <tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td></tr> </table>							1	2	3	4	5	6	7	8	9																																											
1	2	3	4	5	6	7	8								9																																																			
FAX: _____ 72hr 1.4D, 5 Day TAL Metals DAYS* HARD COPY: _____ 72hr 1.4D, 5 Day TAL Metals DAYS* EDD _____ 72hr 1.4D, 5 Day TAL Metals DAYS* * TO BE APPROVED BY CHEMTECH STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS			☐ RESEULTS ONLY ☐ USEPA CLP ☐ RESULTS + QC ☐ New York State ASP "B" ☐ New Jersey REDUCED ☐ New York State ASP "A" ☐ New Jersey CLP ☐ Other _____ ☐ EDD Format _____																																																															
CHEMTECH SAMPLE ID			PROJECT SAMPLE IDENTIFICATION		SAMPLE MATRIX		SAMPLE TYPE		SAMPLE COLLECTION		# of Bottles		<table border="1" style="border-collapse: collapse; text-align: center;"> <tr> <td colspan="2" style="text-align: left;">PRESERVATIVES</td> <td colspan="7" style="text-align: left;">COMMENTS</td> </tr> <tr> <td>A</td><td>B</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td> <td colspan="9" style="text-align: left; font-size: 0.8em;"> <-- Specify Preservatives A-HCl B-HNO3 C-H2SO4 D-NaOH E-ICE F-Other </td> </tr> </table>									PRESERVATIVES		COMMENTS							A	B																	1	2	3	4	5	6	7	8	9	<-- Specify Preservatives A-HCl B-HNO3 C-H2SO4 D-NaOH E-ICE F-Other								
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SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER	DATE/TIME	RECEIVED BY	Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp: 3.1 MeOH extraction requires an additional 4oz. Jar for percent solid ☐ Ice in Cooler? Yes Comments: 50% 68 gpm & 0.5 gph, 90% 120 gpm & 0.58 gph
1.	11/10/24	1.	
RELINQUISHED BY	DATE/TIME	RECEIVED BY	
2.	10-31-24	2.	
RELINQUISHED BY	DATE/TIME	RECEIVED FOR LAB BY	
3.		3.	

Page _____ of _____

SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight
 CHEMTECH: ☐ Picked Up ☐ Overnight

Shipment Complete
☐ YES ☐ NO

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110424\
 Data File : BN034837.D
 Acq On : 04 Nov 2024 10:45
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Nov 04 11:21:52 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 30 13:28:24 2024
 Response via : Initial Calibration

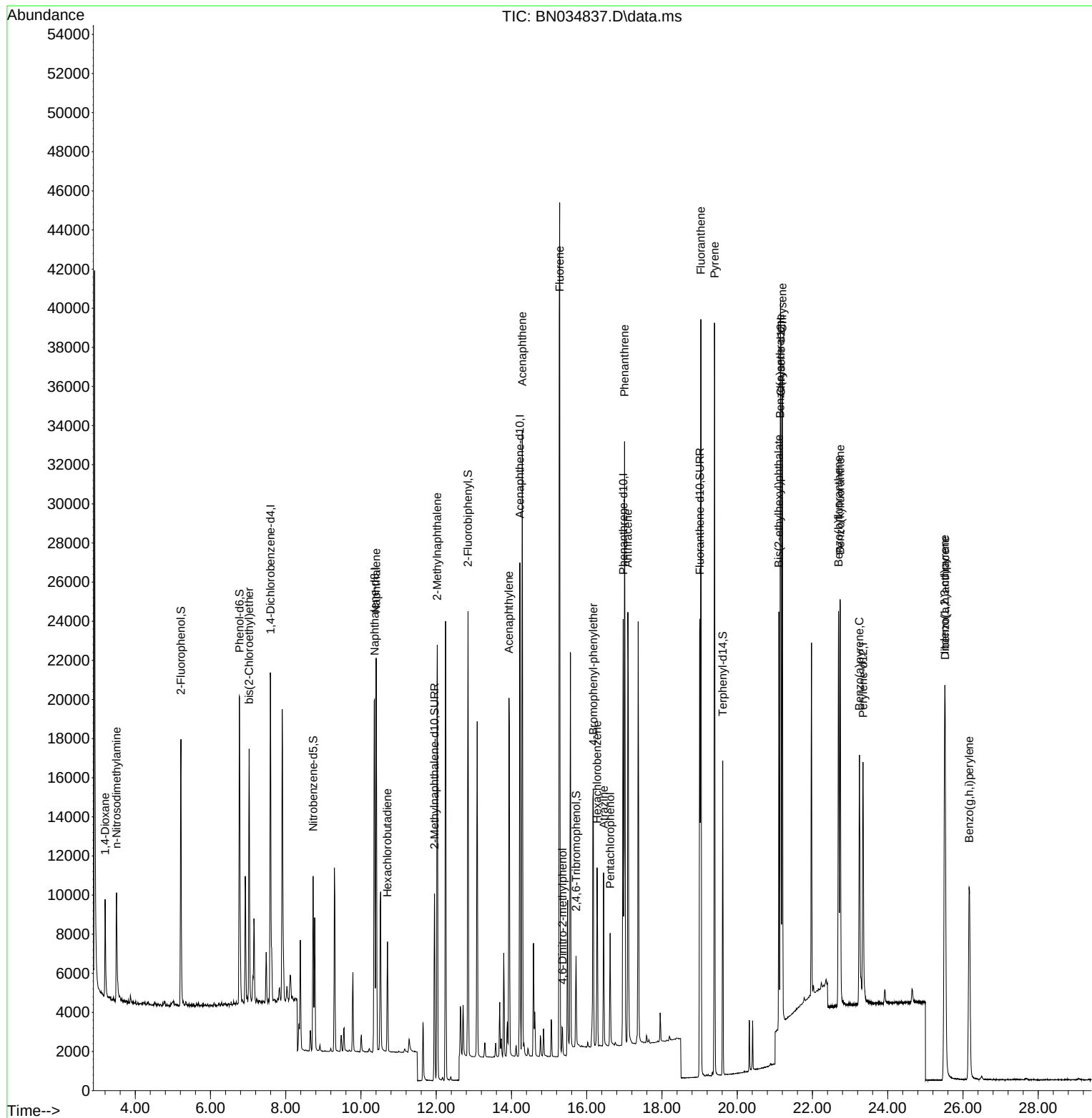
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.597	152	8324	0.400	ng	0.00
7) Naphthalene-d8	10.362	136	24670	0.400	ng	#-0.01
13) Acenaphthene-d10	14.222	164	13111	0.400	ng	-0.01
19) Phenanthrene-d10	16.970	188	27070	0.400	ng	-0.01
29) Chrysene-d12	21.160	240	17835	0.400	ng	#-0.02
35) Perylene-d12	23.344	264	15548	0.400	ng	-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.213	112	10994	0.436	ng	0.00
5) Phenol-d6	6.773	99	14688	0.448	ng	0.00
8) Nitrobenzene-d5	8.728	82	6575	0.339	ng	-0.01
11) 2-Methylnaphthalene-d10	11.954	152	12567	0.352	ng	-0.02
14) 2,4,6-Tribromophenol	15.716	330	2415	0.373	ng	-0.01
15) 2-Fluorobiphenyl	12.843	172	18757	0.363	ng	-0.02
27) Fluoranthene-d10	19.006	212	23015	0.362	ng	0.00
31) Terphenyl-d14	19.614	244	12555	0.328	ng	-0.01
Target Compounds						
2) 1,4-Dioxane	3.198	88	3166	0.347	ng	92
3) n-Nitrosodimethylamine	3.502	42	4032	0.392	ng	# 89
6) bis(2-Chloroethyl)ether	7.026	93	9017	0.377	ng	98
9) Naphthalene	10.404	128	24838	0.364	ng	100
10) Hexachlorobutadiene	10.703	225	4204	0.374	ng	# 99
12) 2-Methylnaphthalene	12.026	142	15806	0.354	ng	99
16) Acenaphthylene	13.933	152	21430	0.326	ng	100
17) Acenaphthene	14.286	154	15095	0.344	ng	98
18) Fluorene	15.281	166	19063	0.349	ng	100
20) 4,6-Dinitro-2-methylph...	15.355	198	943	0.362	ng	87
21) 4-Bromophenyl-phenylether	16.175	248	5421	0.346	ng	96
22) Hexachlorobenzene	16.275	284	6598	0.376	ng	97
23) Atrazine	16.448	200	6167	0.457	ng	99
24) Pentachlorophenol	16.622	266	2534	0.336	ng	98
25) Phenanthrene	17.007	178	29558	0.371	ng	100
26) Anthracene	17.094	178	25840	0.347	ng	100
28) Fluoranthene	19.034	202	32410	0.369	ng	99
30) Pyrene	19.396	202	33058	0.355	ng	100
32) Benzo(a)anthracene	21.142	228	24572	0.346	ng	99
33) Chrysene	21.196	228	26217	0.377	ng	99
34) Bis(2-ethylhexyl)phtha...	21.107	149	17900	0.302	ng	98
36) Indeno(1,2,3-cd)pyrene	25.513	276	22092	0.386	ng	96
37) Benzo(b)fluoranthene	22.692	252	23215	0.371	ng	99
38) Benzo(k)fluoranthene	22.736	252	23241	0.381	ng	97
39) Benzo(a)pyrene	23.247	252	17914	0.347	ng	99
40) Dibenzo(a,h)anthracene	25.525	278	17024	0.382	ng	99
41) Benzo(g,h,i)perylene	26.168	276	18218	0.378	ng	97

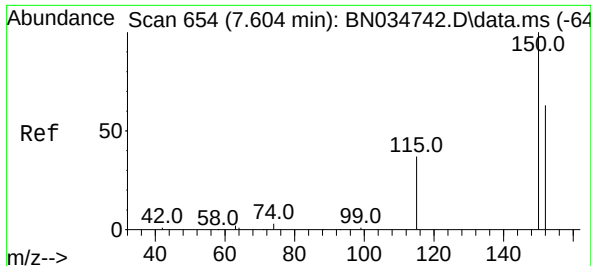
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110424\
Data File : BN034837.D
Acq On : 04 Nov 2024 10:45
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Nov 04 11:21:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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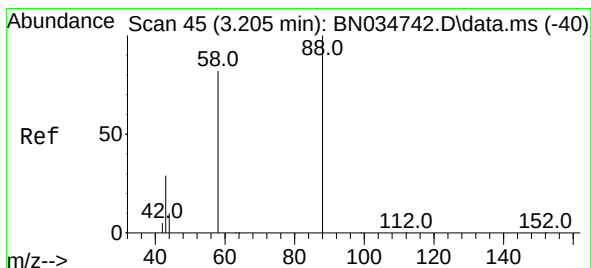
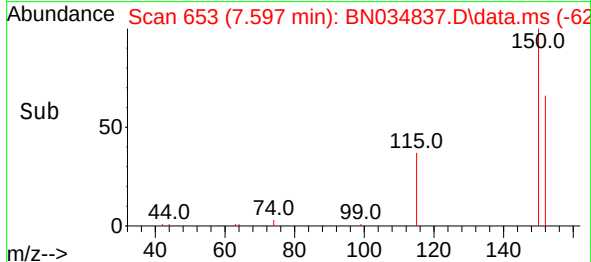
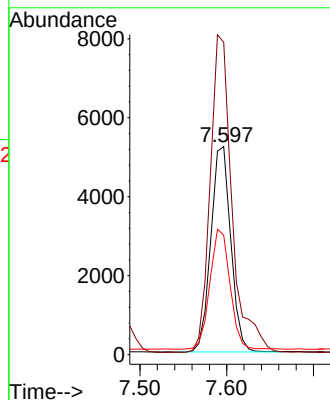
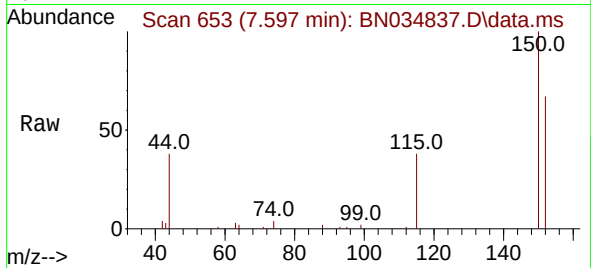




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.597 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN034837.D
Acq: 04 Nov 2024 10:45

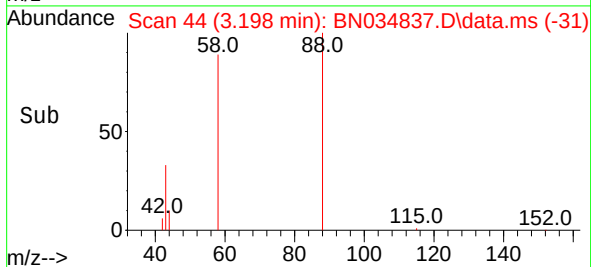
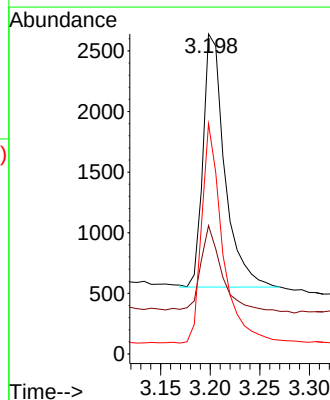
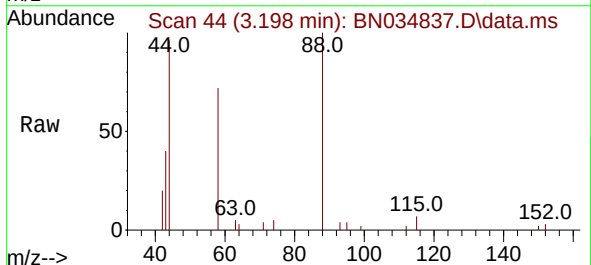
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

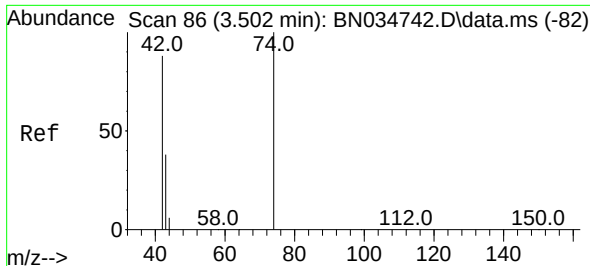
Tgt Ion:152 Resp: 8324
Ion Ratio Lower Upper
152 100
150 150.1 124.9 187.3
115 57.4 50.2 75.2



#2
1,4-Dioxane
Concen: 0.347 ng
RT: 3.198 min Scan# 44
Delta R.T. -0.007 min
Lab File: BN034837.D
Acq: 04 Nov 2024 10:45

Tgt Ion: 88 Resp: 3166
Ion Ratio Lower Upper
88 100
43 33.7 26.7 40.1
58 83.5 59.3 88.9

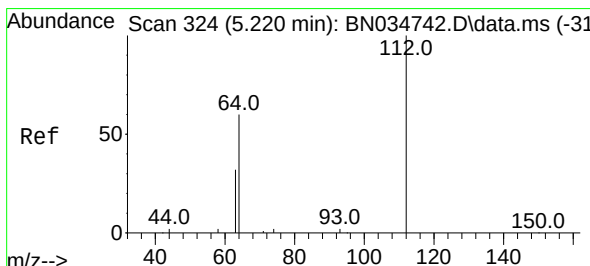
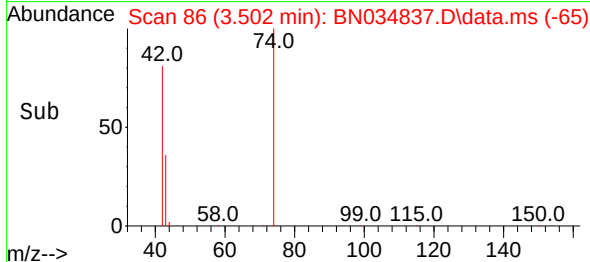
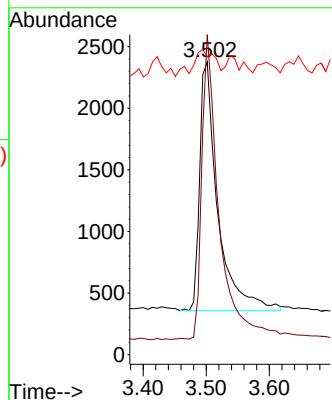
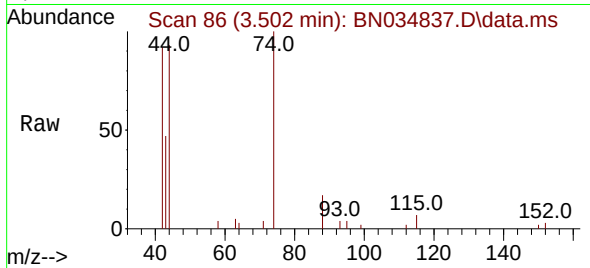




#3
n-Nitrosodimethylamine
Concen: 0.392 ng
RT: 3.502 min Scan# 80
Delta R.T. 0.000 min
Lab File: BN034837.D
Acq: 04 Nov 2024 10:45

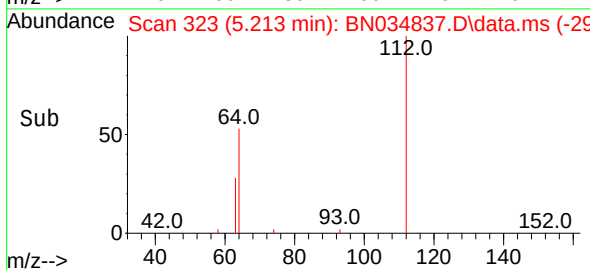
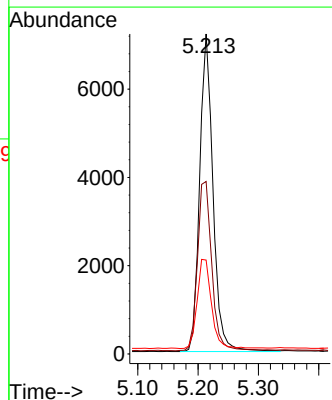
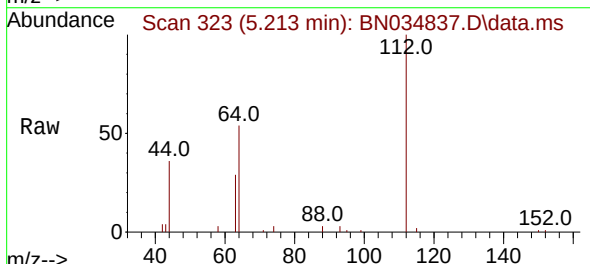
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BNA_N
ClientSampleId :
SSTDCCC0.4

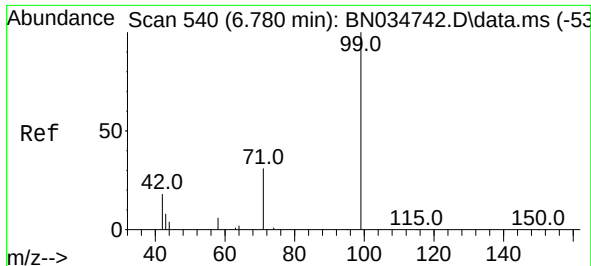
Tgt Ion: 42 Resp: 4032
Ion Ratio Lower Upper
42 100
74 116.3 103.1 154.7
44 12.9 6.7 10.1#



#4
2-Fluorophenol
Concen: 0.436 ng
RT: 5.213 min Scan# 323
Delta R.T. -0.007 min
Lab File: BN034837.D
Acq: 04 Nov 2024 10:45

Tgt Ion: 112 Resp: 10994
Ion Ratio Lower Upper
112 100
64 57.6 44.9 67.3
63 30.2 23.5 35.3

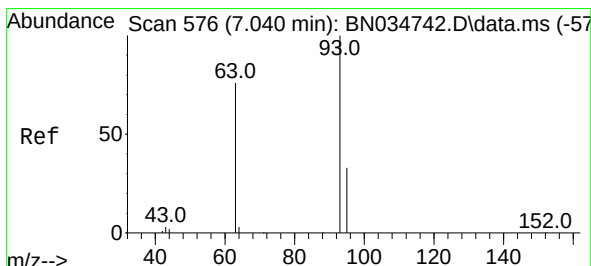
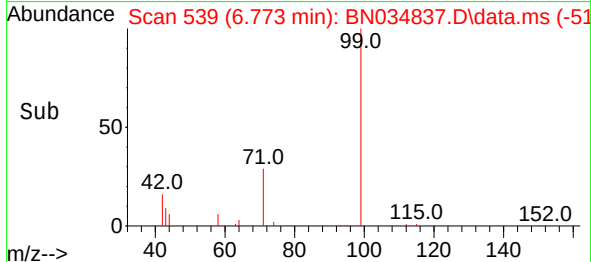
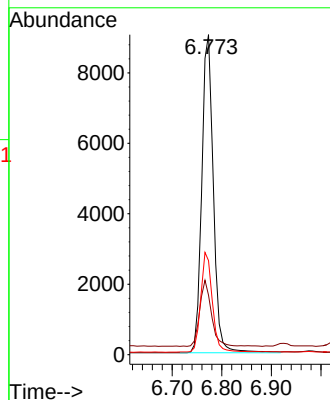
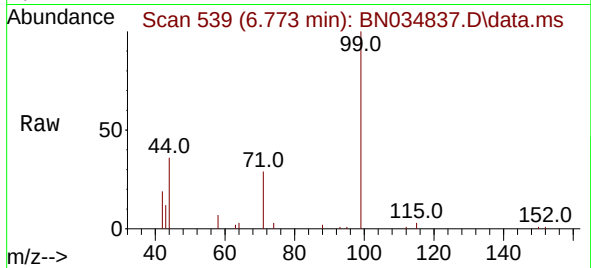




#5
Phenol-d6
Concen: 0.448 ng
RT: 6.773 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN034837.D
Acq: 04 Nov 2024 10:45

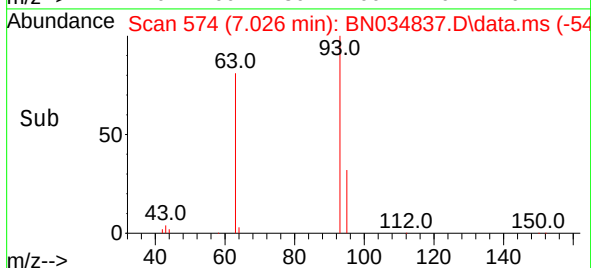
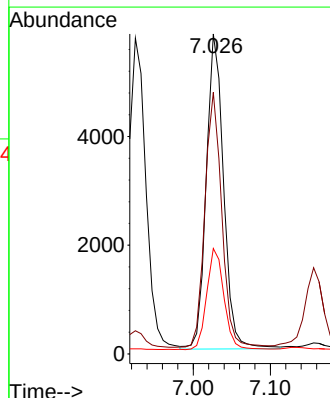
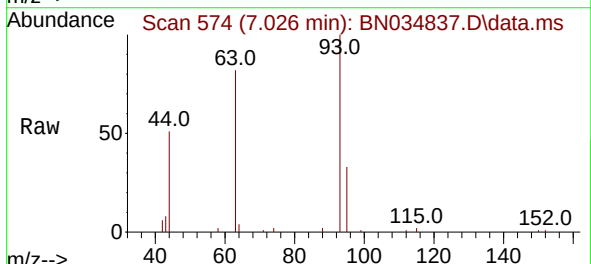
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

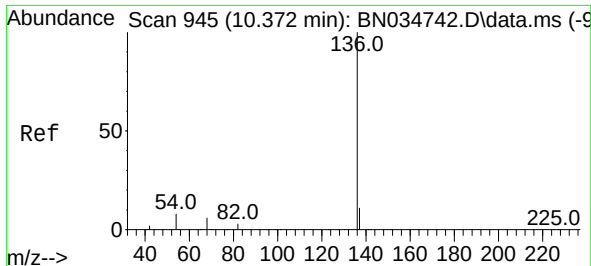
Tgt Ion:	99	Resp:	14688
Ion	Ratio	Lower	Upper
99	100		
42	20.8	15.9	23.9
71	31.7	24.3	36.5



#6
bis(2-Chloroethyl)ether
Concen: 0.377 ng
RT: 7.026 min Scan# 574
Delta R.T. -0.014 min
Lab File: BN034837.D
Acq: 04 Nov 2024 10:45

Tgt Ion:	93	Resp:	9017
Ion	Ratio	Lower	Upper
93	100		
63	78.7	61.2	91.8
95	32.0	25.8	38.8

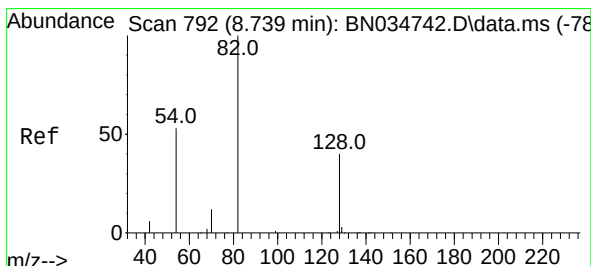
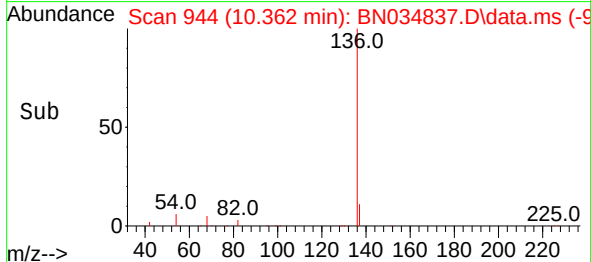
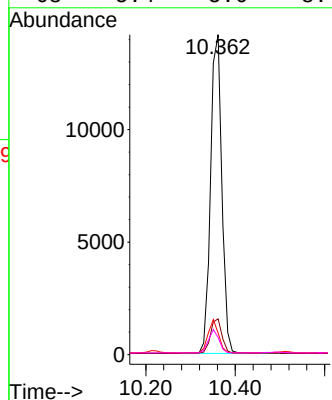
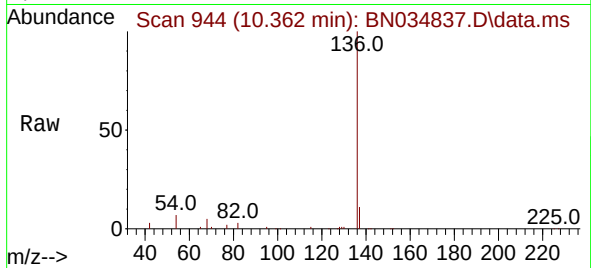




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.362 min Scan# 945
Delta R.T. -0.011 min
Lab File: BN034837.D
Acq: 04 Nov 2024 10:45

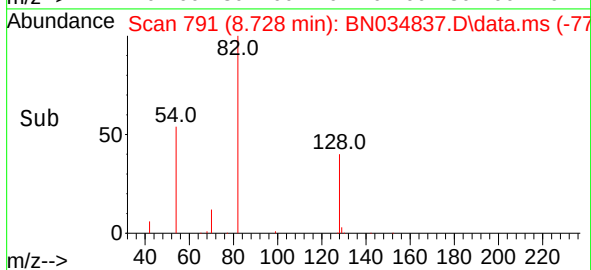
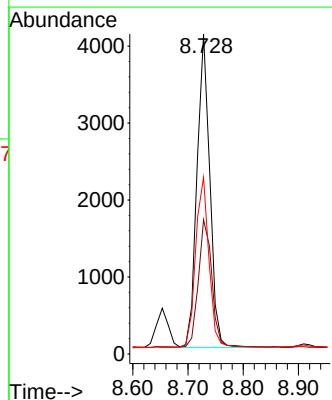
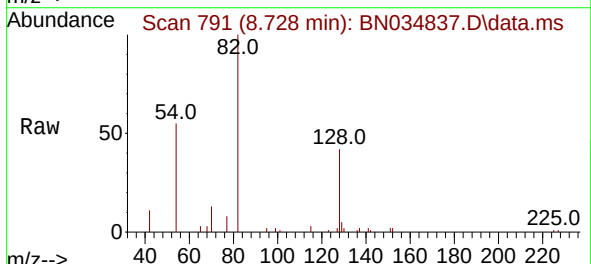
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

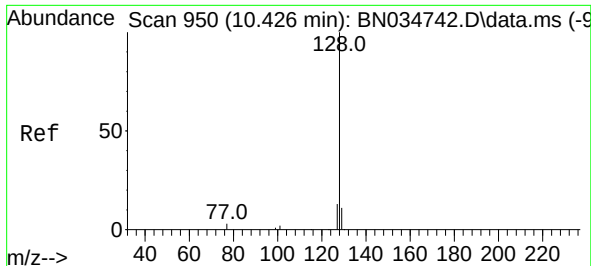
Tgt Ion:	136	Resp:	24670
Ion Ratio	Lower	Upper	
136	100		
137	11.2	9.2	13.8
54	6.8	7.0	10.4#
68	5.4	5.6	8.4#



#8
Nitrobenzene-d5
Concen: 0.339 ng
RT: 8.728 min Scan# 791
Delta R.T. -0.011 min
Lab File: BN034837.D
Acq: 04 Nov 2024 10:45

Tgt Ion:	82	Resp:	6575
Ion Ratio	Lower	Upper	
82	100		
128	41.9	33.7	50.5
54	55.2	44.4	66.6

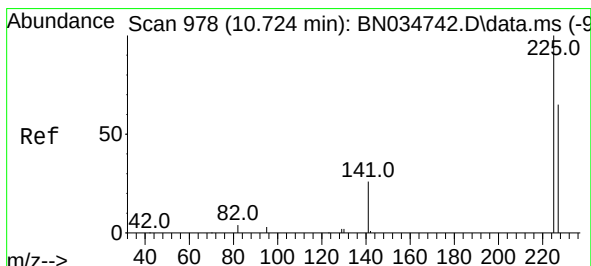
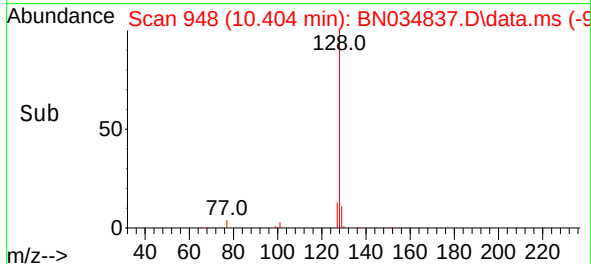
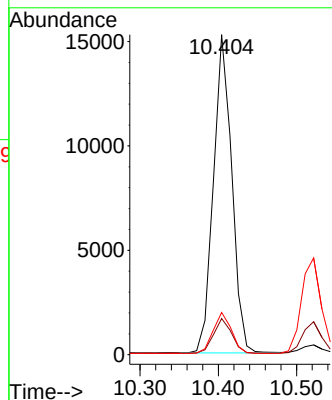
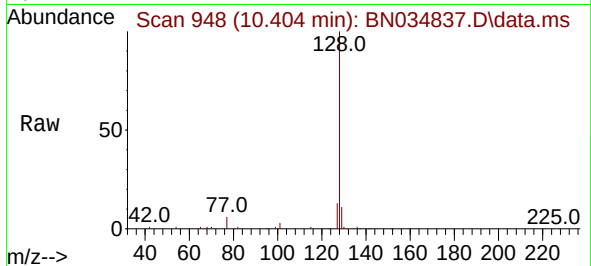




#9
Naphthalene
Concen: 0.364 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.021 min
Lab File: BN034837.D
Acq: 04 Nov 2024 10:45

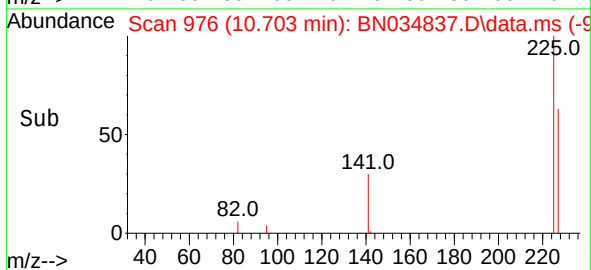
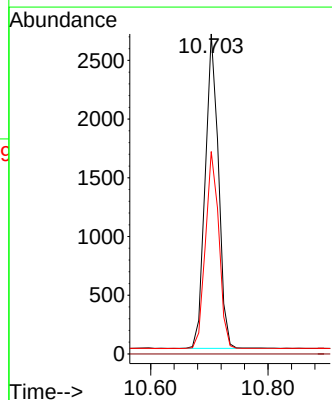
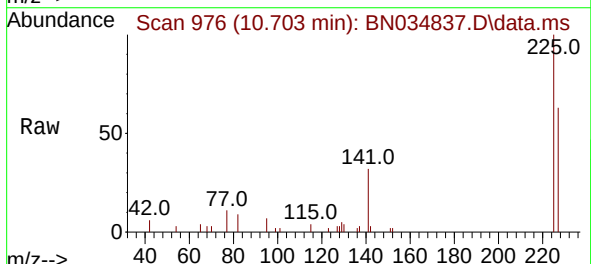
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

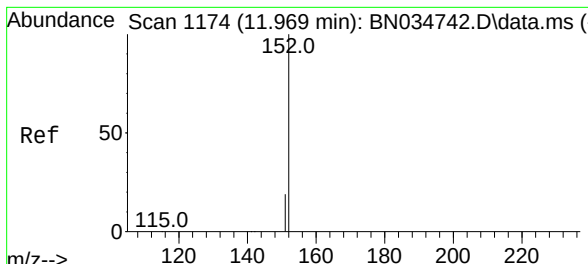
Tgt Ion:128 Resp: 24838
Ion Ratio Lower Upper
128 100
129 11.3 9.4 14.0
127 13.2 10.6 15.8



#10
Hexachlorobutadiene
Concen: 0.374 ng
RT: 10.703 min Scan# 976
Delta R.T. -0.021 min
Lab File: BN034837.D
Acq: 04 Nov 2024 10:45

Tgt Ion:225 Resp: 4204
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.6 51.4 77.2

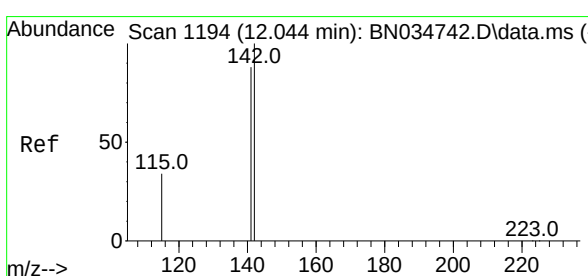
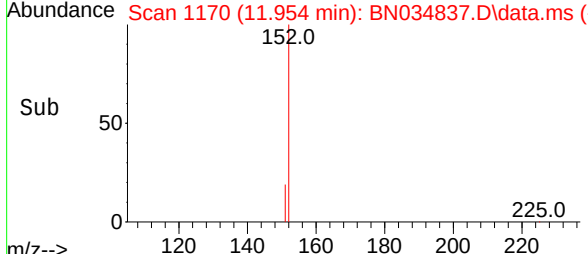
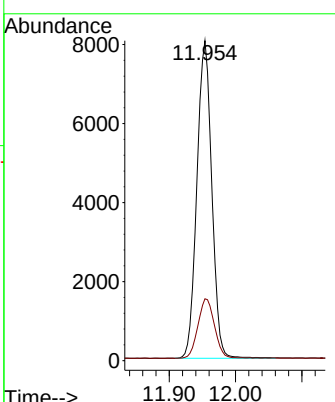
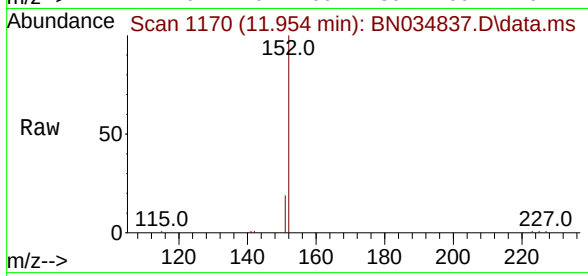




#11
 2-Methylnaphthalene-d10
 Concen: 0.352 ng
 RT: 11.954 min Scan# 1170
 Delta R.T. -0.015 min
 Lab File: BN034837.D
 Acq: 04 Nov 2024 10:45

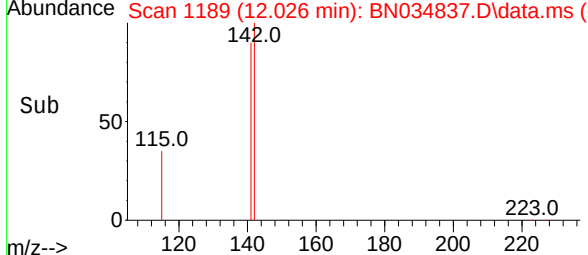
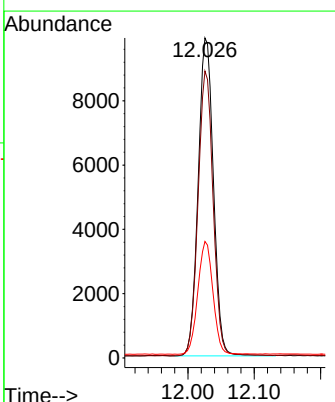
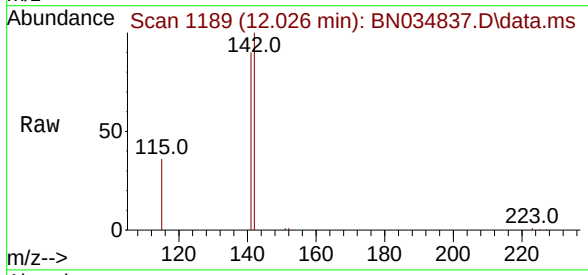
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

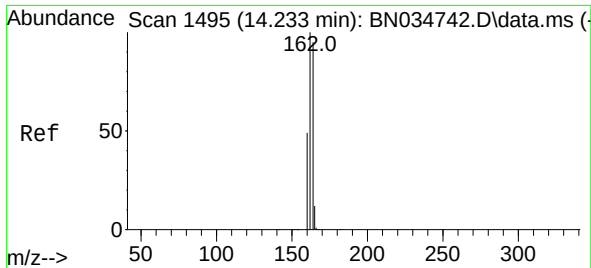
Tgt Ion:	152	Resp:	12567
Ion Ratio	Lower	Upper	
152	100		
151	20.9	16.6	24.8



#12
 2-Methylnaphthalene
 Concen: 0.354 ng
 RT: 12.026 min Scan# 1189
 Delta R.T. -0.019 min
 Lab File: BN034837.D
 Acq: 04 Nov 2024 10:45

Tgt Ion:	142	Resp:	15806
Ion Ratio	Lower	Upper	
142	100		
141	89.6	70.6	106.0
115	36.4	28.6	42.8

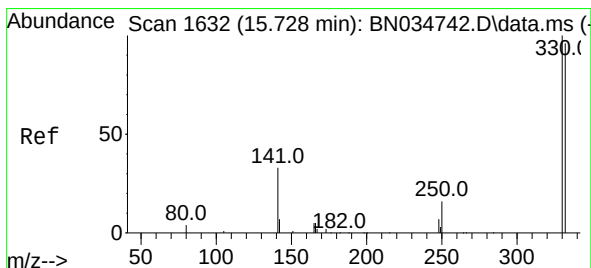
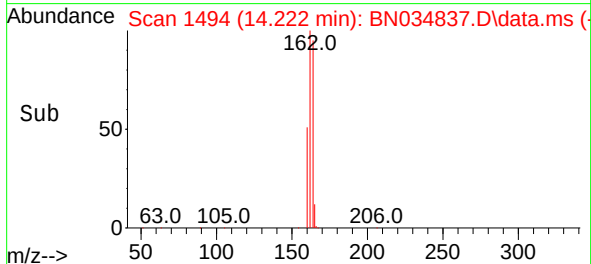
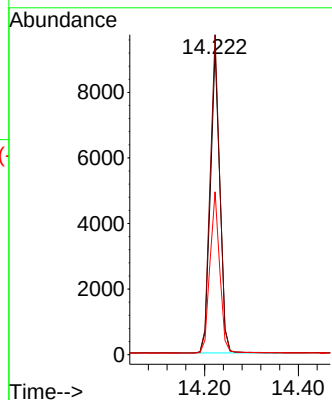
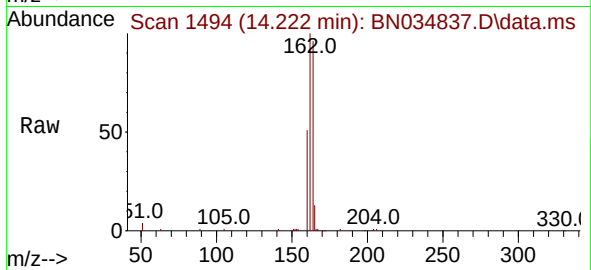




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.222 min Scan# 1494
Delta R.T. -0.011 min
Lab File: BN034837.D
Acq: 04 Nov 2024 10:45

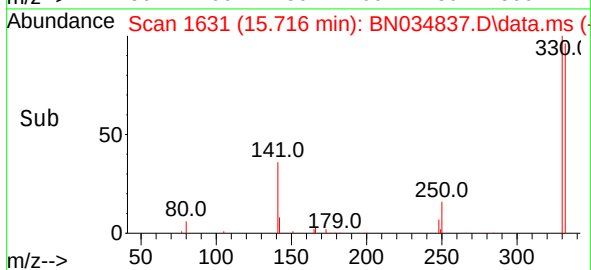
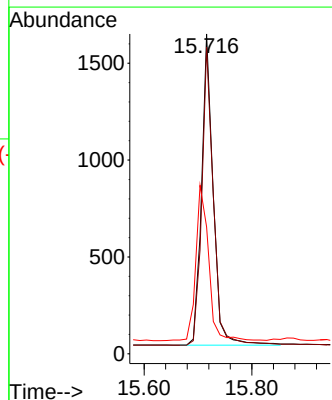
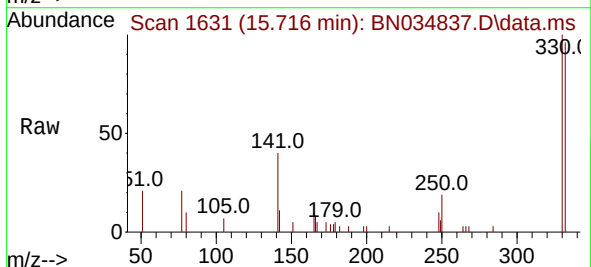
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

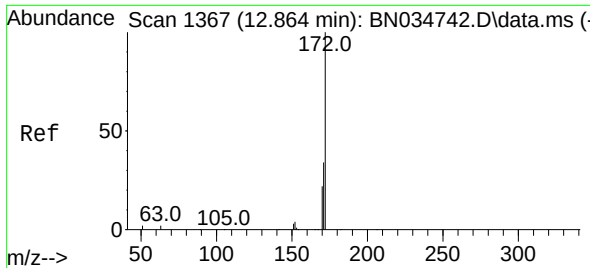
Tgt Ion:164 Resp: 13111
Ion Ratio Lower Upper
164 100
162 104.7 84.3 126.5
160 53.3 41.7 62.5



#14
2,4,6-Tribromophenol
Concen: 0.373 ng
RT: 15.716 min Scan# 1631
Delta R.T. -0.012 min
Lab File: BN034837.D
Acq: 04 Nov 2024 10:45

Tgt Ion:330 Resp: 2415
Ion Ratio Lower Upper
330 100
332 95.6 77.8 116.6
141 54.8 41.0 61.4



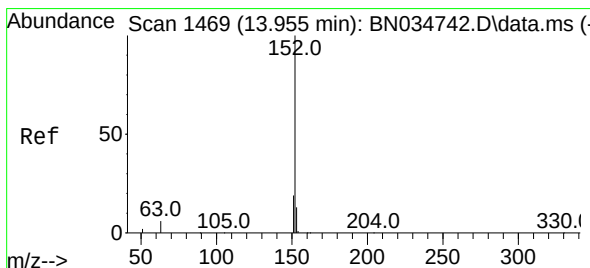
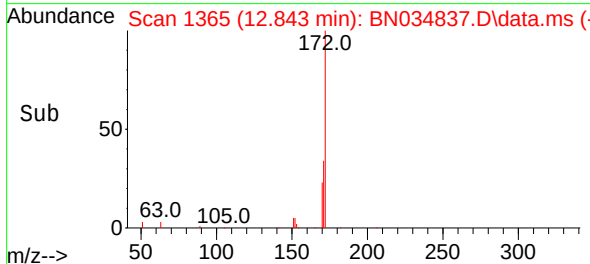
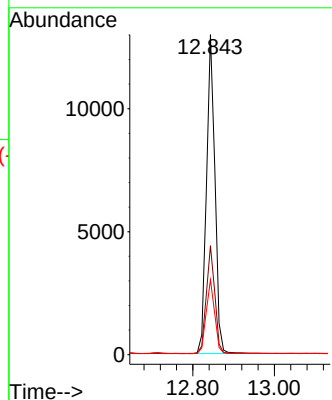
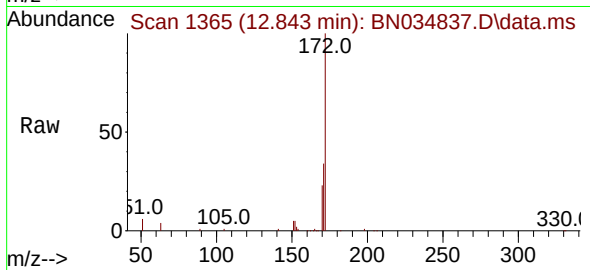


#15
2-Fluorobiphenyl
Concen: 0.363 ng
RT: 12.843 min Scan# 1465
Delta R.T. -0.021 min
Lab File: BN034837.D
Acq: 04 Nov 2024 10:45

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:172 Resp: 18757

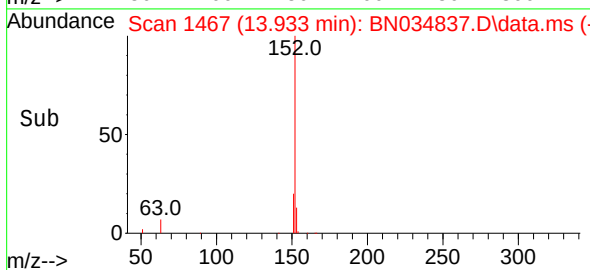
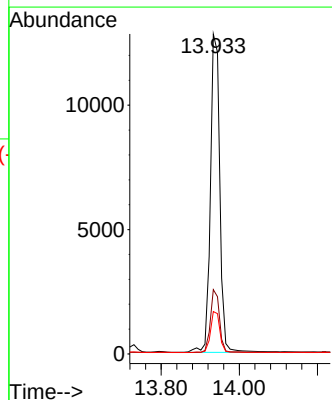
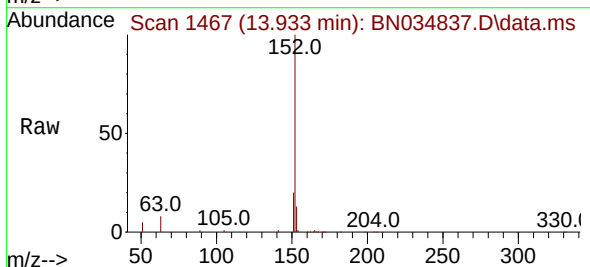
Ion	Ratio	Lower	Upper
172	100		
171	34.1	27.2	40.8
170	23.4	18.0	27.0

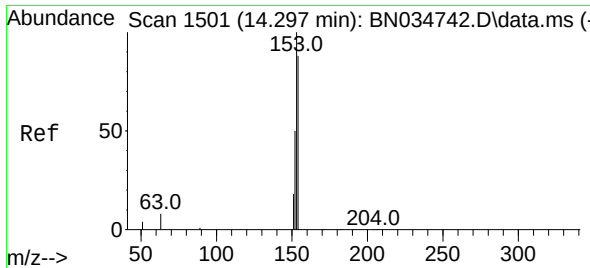


#16
Acenaphthylene
Concen: 0.326 ng
RT: 13.933 min Scan# 1467
Delta R.T. -0.021 min
Lab File: BN034837.D
Acq: 04 Nov 2024 10:45

Tgt Ion:152 Resp: 21430

Ion	Ratio	Lower	Upper
152	100		
151	19.2	15.4	23.2
153	13.0	10.2	15.4

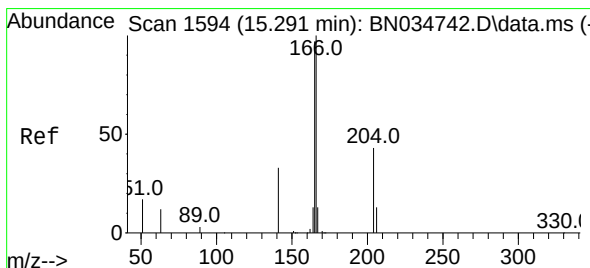
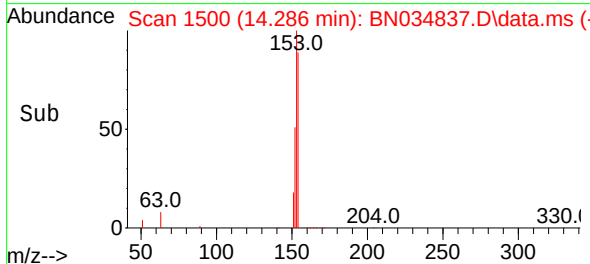
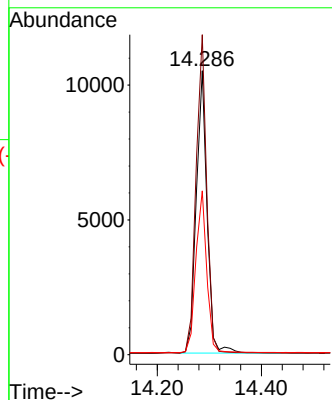
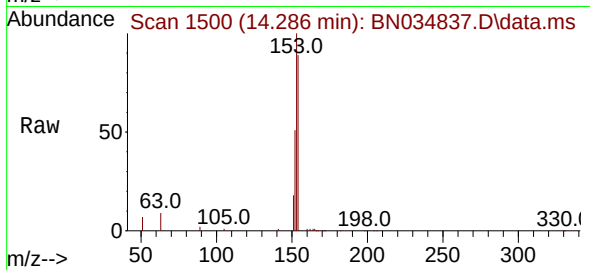




#17
Acenaphthene
Concen: 0.344 ng
RT: 14.286 min Scan# 1500
Delta R.T. -0.011 min
Lab File: BN034837.D
Acq: 04 Nov 2024 10:45

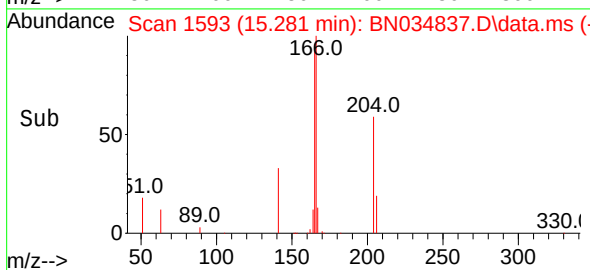
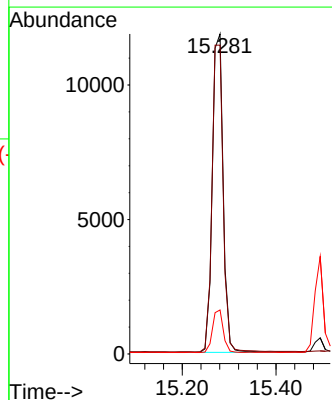
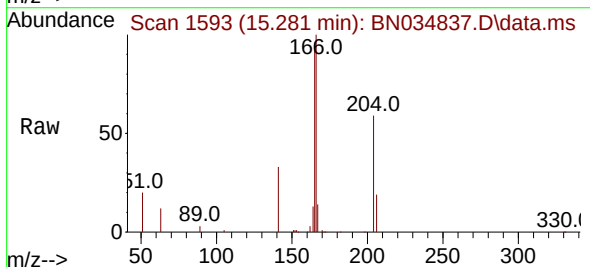
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

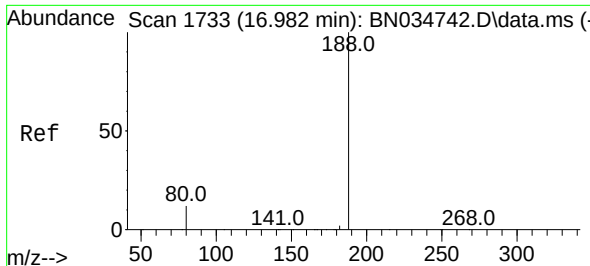
Tgt Ion:154 Resp: 15095
Ion Ratio Lower Upper
154 100
153 111.7 87.8 131.6
152 58.0 44.6 67.0



#18
Fluorene
Concen: 0.349 ng
RT: 15.281 min Scan# 1593
Delta R.T. -0.011 min
Lab File: BN034837.D
Acq: 04 Nov 2024 10:45

Tgt Ion:166 Resp: 19063
Ion Ratio Lower Upper
166 100
165 98.3 78.5 117.7
167 13.4 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.970 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN034837.D

Acq: 04 Nov 2024 10:45

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

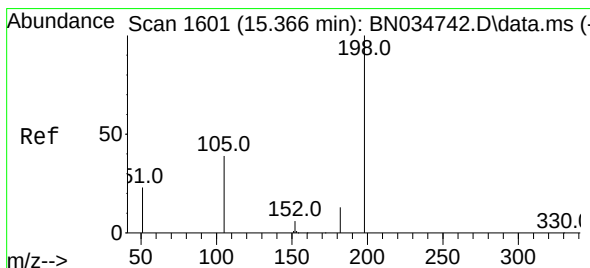
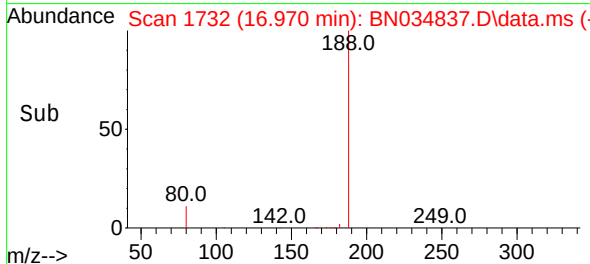
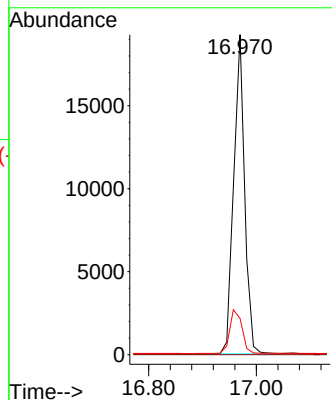
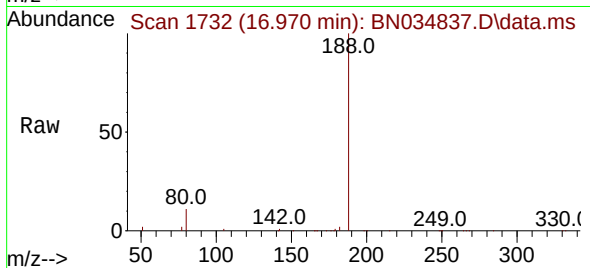
Tgt Ion:188 Resp: 27070

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.3 9.8 14.6



#20

4,6-Dinitro-2-methylphenol

Concen: 0.362 ng

RT: 15.355 min Scan# 1600

Delta R.T. -0.011 min

Lab File: BN034837.D

Acq: 04 Nov 2024 10:45

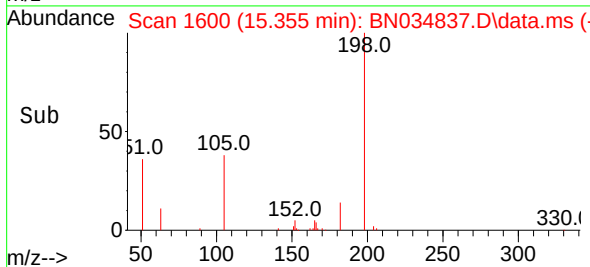
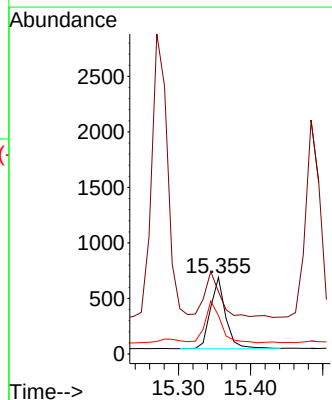
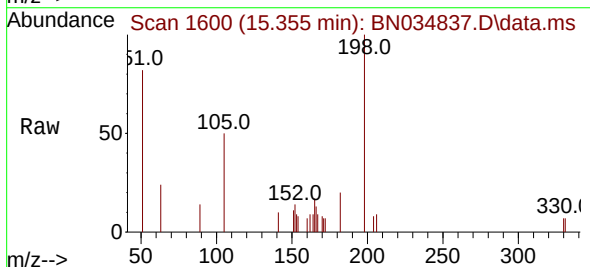
Tgt Ion:198 Resp: 943

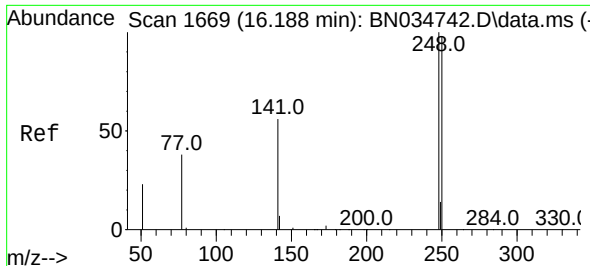
Ion Ratio Lower Upper

198 100

51 81.7 58.0 87.0

105 50.2 49.1 73.7

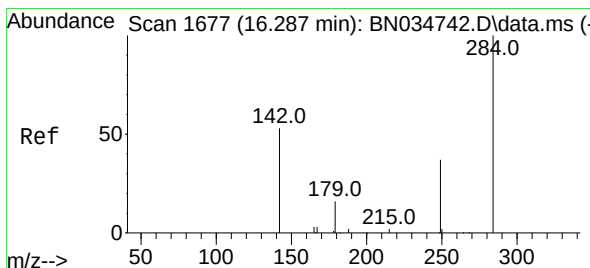
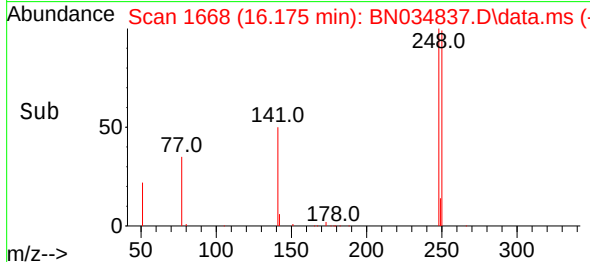
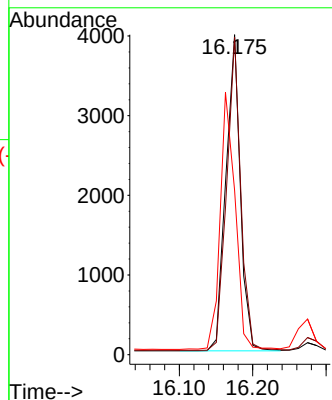
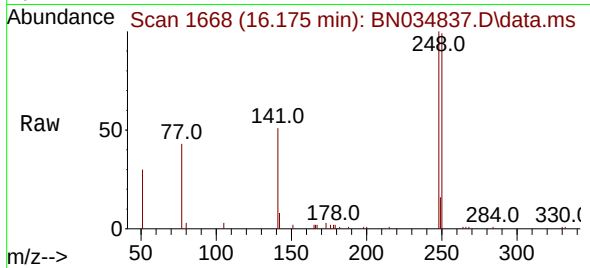




#21
4-Bromophenyl-phenylether
Concen: 0.346 ng
RT: 16.175 min Scan# 1668
Delta R.T. -0.012 min
Lab File: BN034837.D
Acq: 04 Nov 2024 10:45

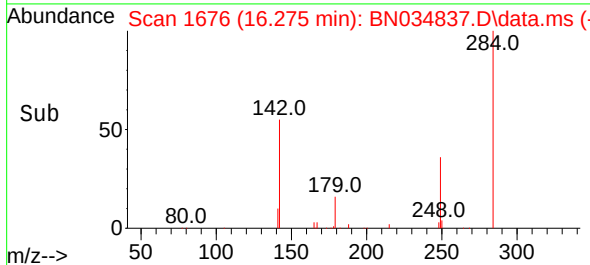
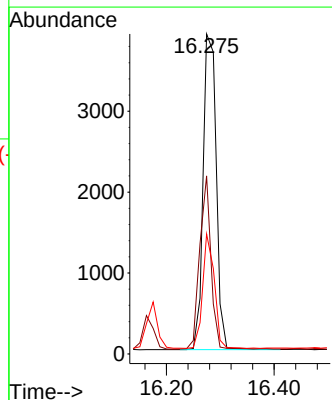
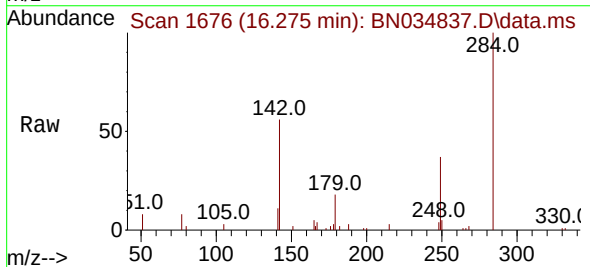
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

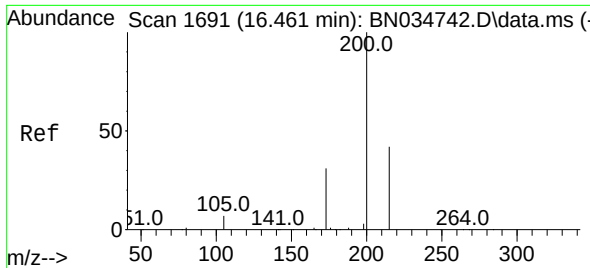
Tgt Ion:248 Resp: 5421
Ion Ratio Lower Upper
248 100
250 99.2 78.7 118.1
141 51.3 46.4 69.6



#22
Hexachlorobenzene
Concen: 0.376 ng
RT: 16.275 min Scan# 1676
Delta R.T. -0.012 min
Lab File: BN034837.D
Acq: 04 Nov 2024 10:45

Tgt Ion:284 Resp: 6598
Ion Ratio Lower Upper
284 100
142 47.0 35.4 53.0
249 32.3 25.7 38.5

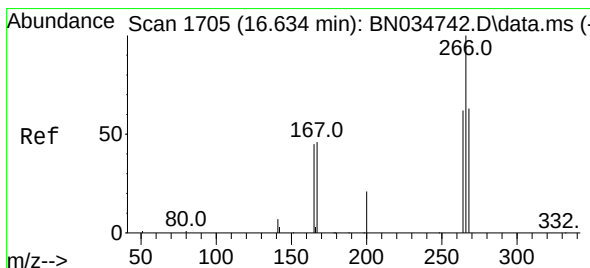
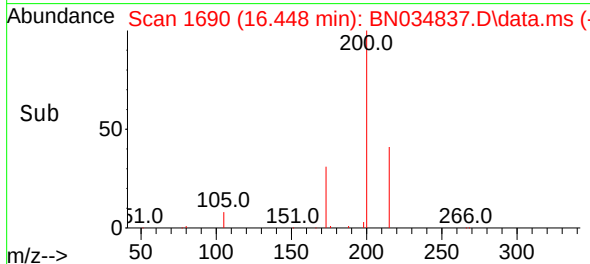
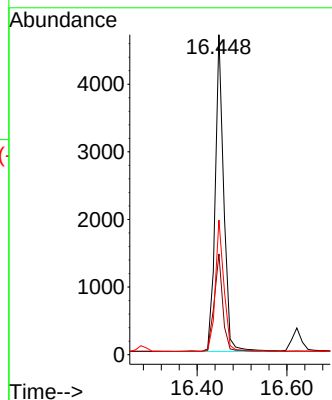
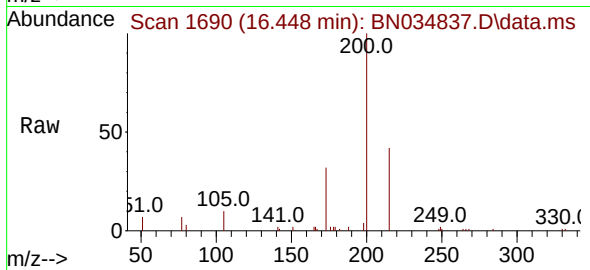




#23
Atrazine
Concen: 0.457 ng
RT: 16.448 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN034837.D
Acq: 04 Nov 2024 10:45

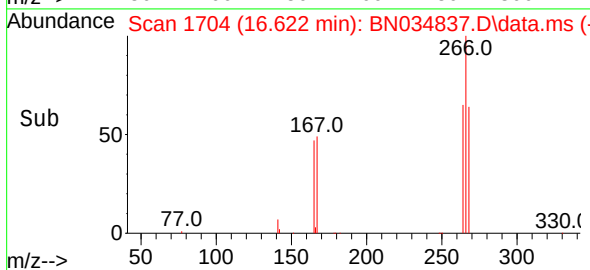
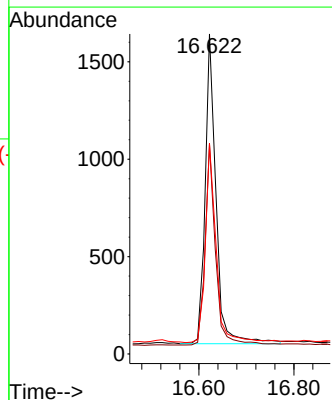
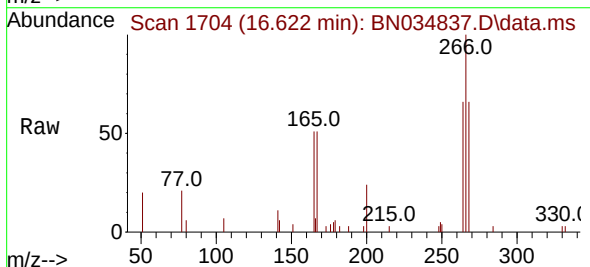
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

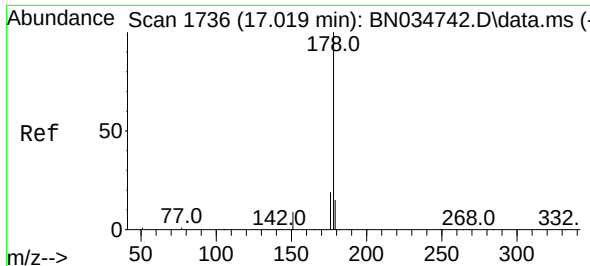
Tgt Ion:200 Resp: 6167
Ion Ratio Lower Upper
200 100
173 31.5 25.8 38.6
215 42.1 34.2 51.4



#24
Pentachlorophenol
Concen: 0.336 ng
RT: 16.622 min Scan# 1704
Delta R.T. -0.012 min
Lab File: BN034837.D
Acq: 04 Nov 2024 10:45

Tgt Ion:266 Resp: 2534
Ion Ratio Lower Upper
266 100
264 62.5 48.7 73.1
268 63.8 50.2 75.4

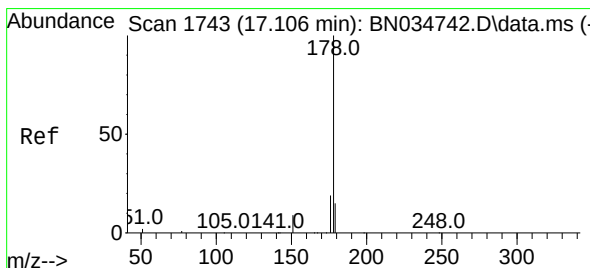
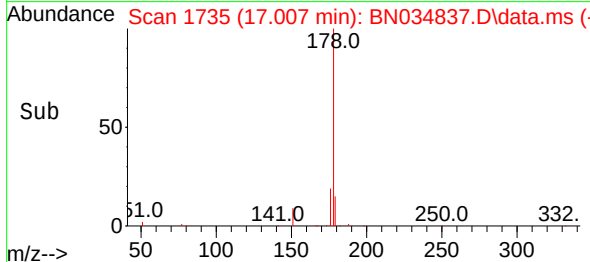
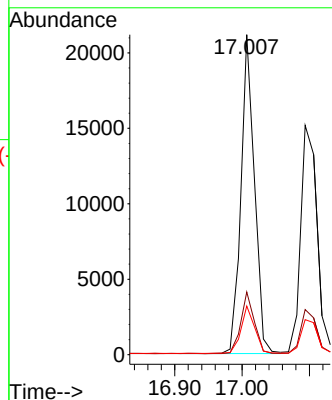
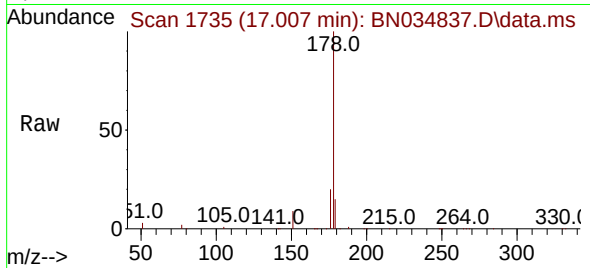




#25
Phenanthrene
Concen: 0.371 ng
RT: 17.007 min Scan# 1742
Delta R.T. -0.012 min
Lab File: BN034837.D
Acq: 04 Nov 2024 10:45

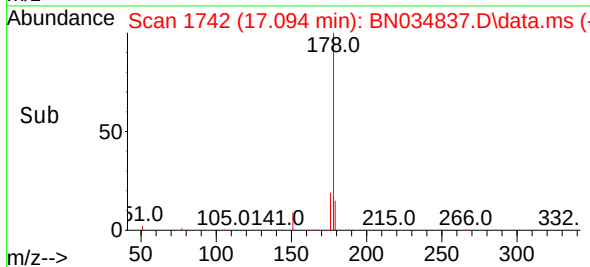
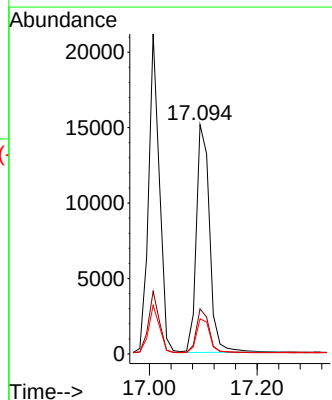
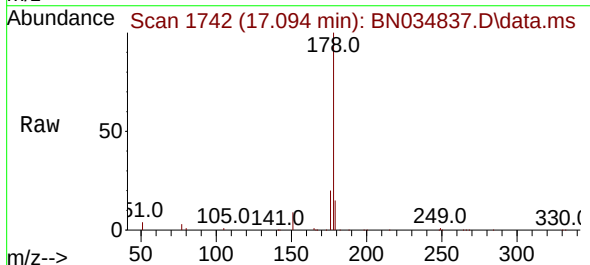
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

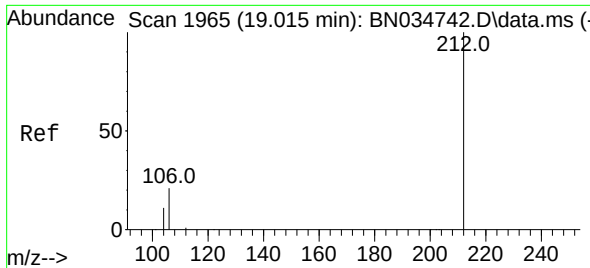
Tgt Ion:178 Resp: 29558
Ion Ratio Lower Upper
178 100
176 19.3 15.4 23.0
179 15.1 12.2 18.4



#26
Anthracene
Concen: 0.347 ng
RT: 17.094 min Scan# 1742
Delta R.T. -0.012 min
Lab File: BN034837.D
Acq: 04 Nov 2024 10:45

Tgt Ion:178 Resp: 25840
Ion Ratio Lower Upper
178 100
176 18.6 15.0 22.6
179 15.1 12.2 18.2

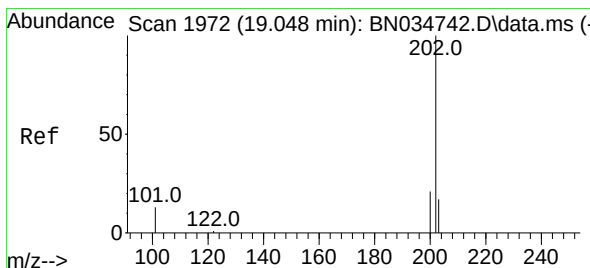
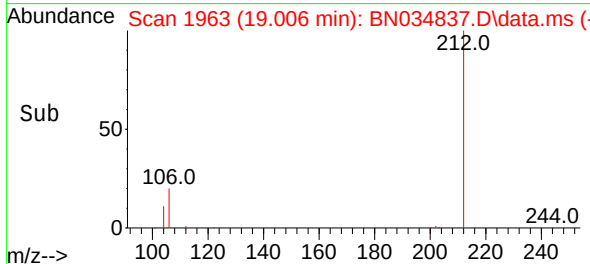
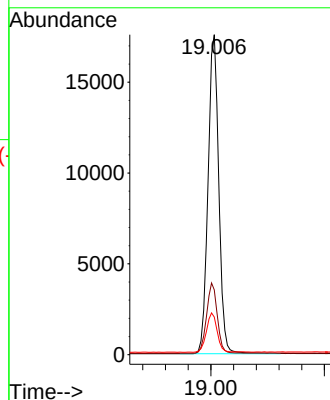
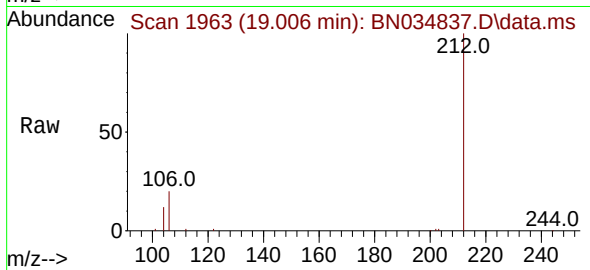




#27
Fluoranthene-d10
Concen: 0.362 ng
RT: 19.006 min Scan# 1963
Delta R.T. -0.009 min
Lab File: BN034837.D
Acq: 04 Nov 2024 10:45

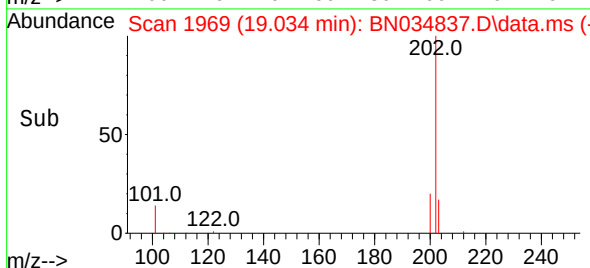
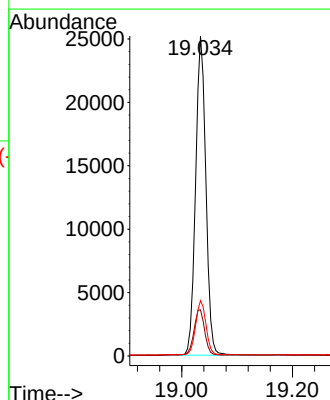
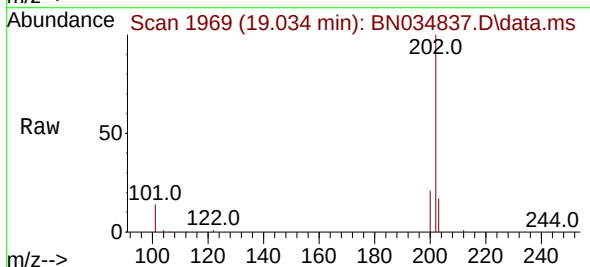
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

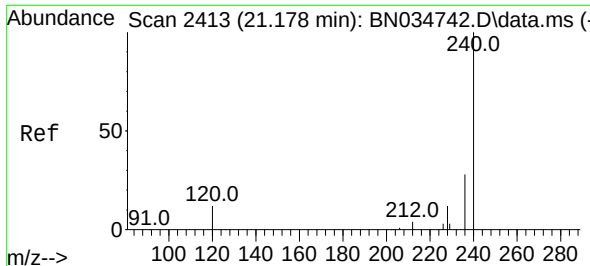
Tgt Ion:212 Resp: 23015
Ion Ratio Lower Upper
212 100
106 21.9 16.1 24.1
104 12.2 9.2 13.8



#28
Fluoranthene
Concen: 0.369 ng
RT: 19.034 min Scan# 1969
Delta R.T. -0.014 min
Lab File: BN034837.D
Acq: 04 Nov 2024 10:45

Tgt Ion:202 Resp: 32410
Ion Ratio Lower Upper
202 100
101 15.0 11.4 17.0
203 17.2 13.7 20.5

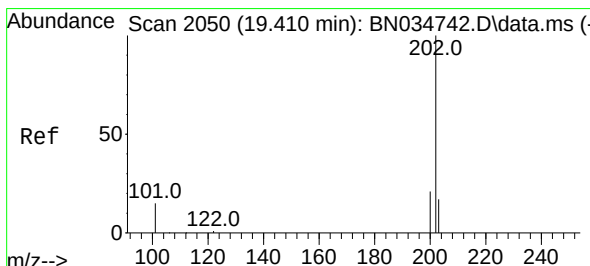
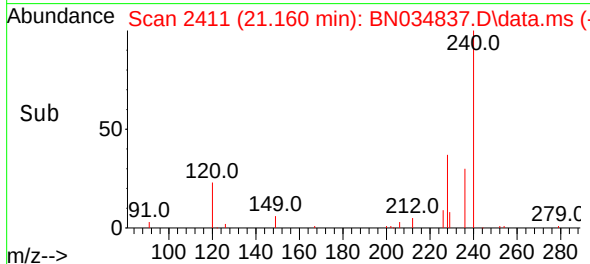
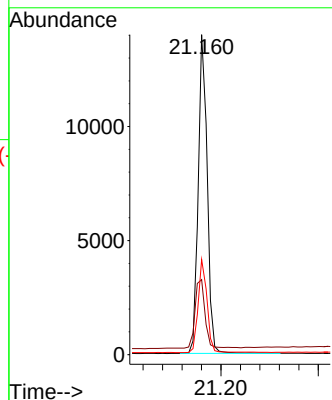
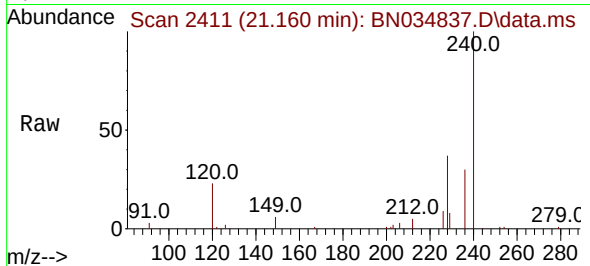




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.160 min Scan# 2411
Delta R.T. -0.018 min
Lab File: BN034837.D
Acq: 04 Nov 2024 10:45

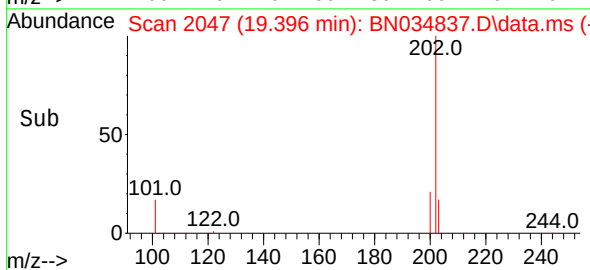
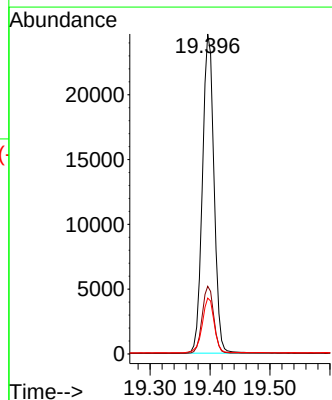
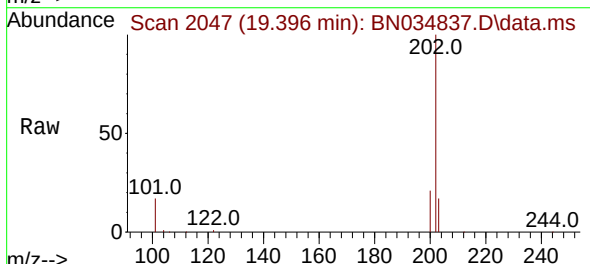
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

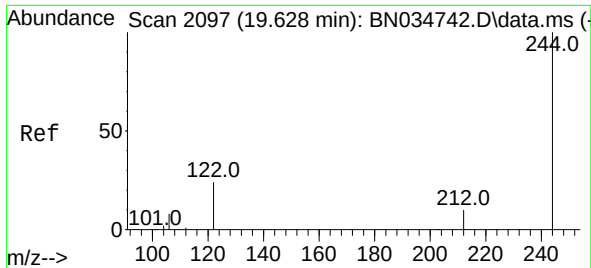
Tgt Ion:240 Resp: 17835
Ion Ratio Lower Upper
240 100
120 23.5 11.5 17.3#
236 29.8 23.2 34.8



#30
Pyrene
Concen: 0.355 ng
RT: 19.396 min Scan# 2047
Delta R.T. -0.014 min
Lab File: BN034837.D
Acq: 04 Nov 2024 10:45

Tgt Ion:202 Resp: 33058
Ion Ratio Lower Upper
202 100
200 21.1 17.0 25.4
203 17.7 14.2 21.2

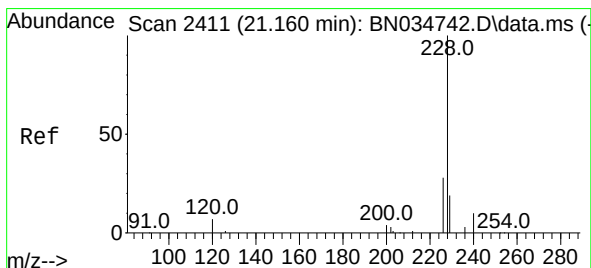
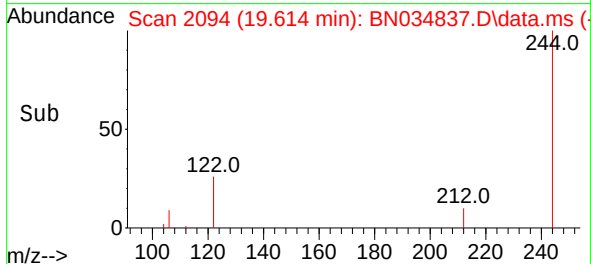
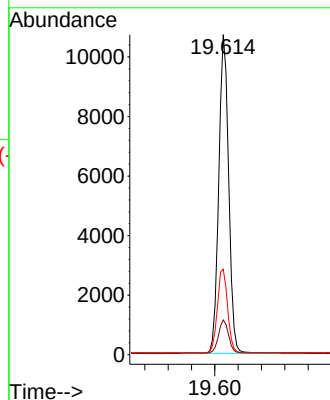
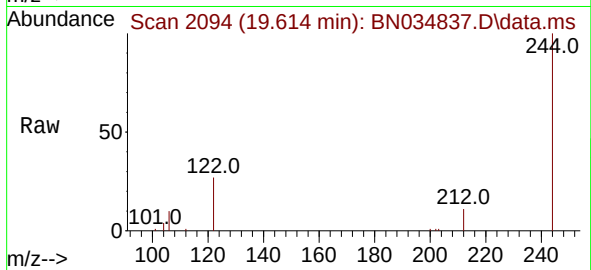




#31
Terphenyl-d14
Concen: 0.328 ng
RT: 19.614 min Scan# 2094
Delta R.T. -0.014 min
Lab File: BN034837.D
Acq: 04 Nov 2024 10:45

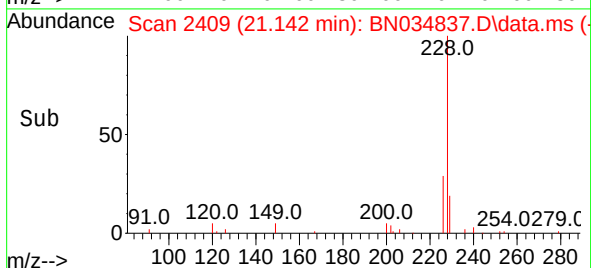
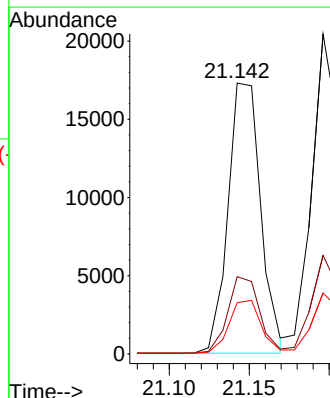
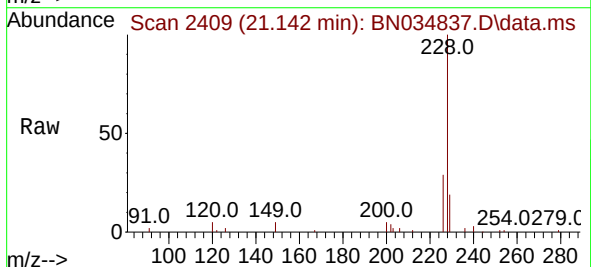
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

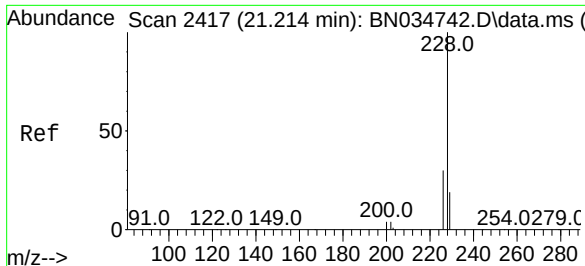
Tgt Ion:244 Resp: 12555
Ion Ratio Lower Upper
244 100
212 10.8 8.2 12.4
122 26.7 19.8 29.6



#32
Benzo(a)anthracene
Concen: 0.346 ng
RT: 21.142 min Scan# 2409
Delta R.T. -0.018 min
Lab File: BN034837.D
Acq: 04 Nov 2024 10:45

Tgt Ion:228 Resp: 24572
Ion Ratio Lower Upper
228 100
226 28.5 22.6 33.8
229 18.9 15.7 23.5

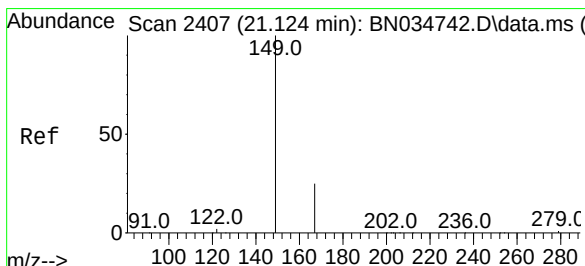
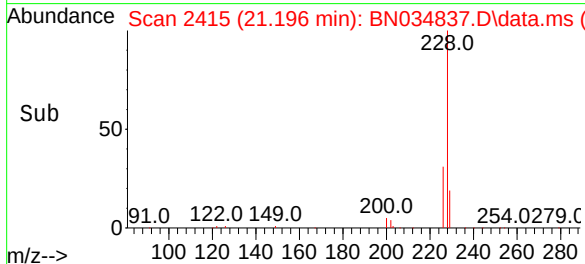
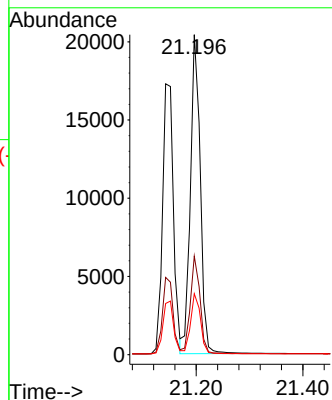
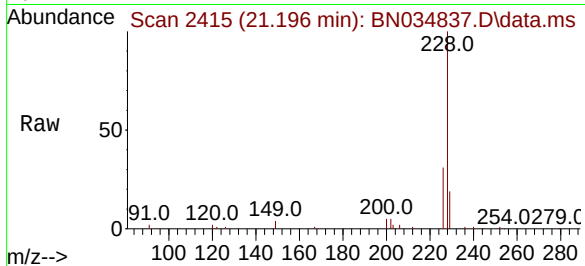




#33
Chrysene
Concen: 0.377 ng
RT: 21.196 min Scan# 2415
Delta R.T. -0.018 min
Lab File: BN034837.D
Acq: 04 Nov 2024 10:45

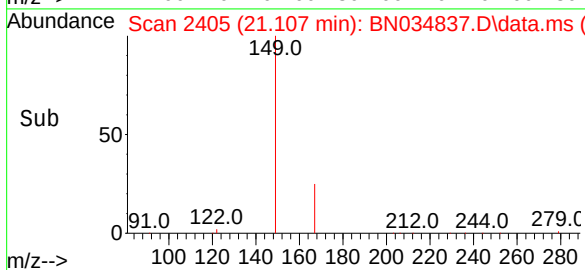
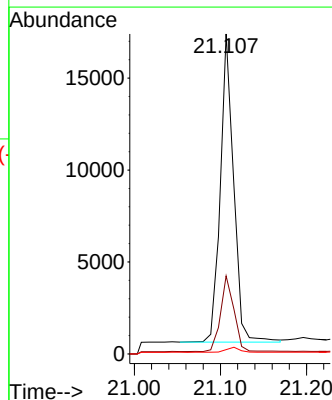
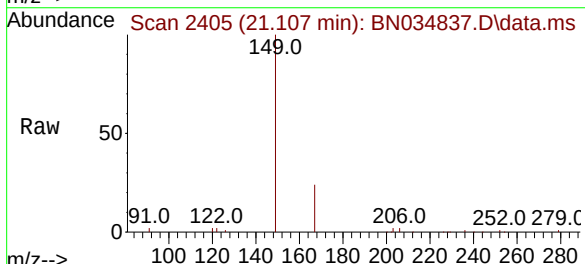
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

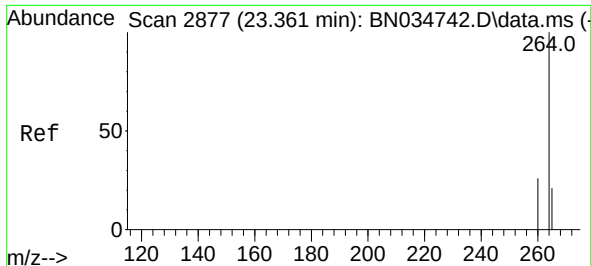
Tgt Ion:228 Resp: 26217
Ion Ratio Lower Upper
228 100
226 30.8 24.4 36.6
229 19.1 15.6 23.4



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.302 ng
RT: 21.107 min Scan# 2405
Delta R.T. -0.018 min
Lab File: BN034837.D
Acq: 04 Nov 2024 10:45

Tgt Ion:149 Resp: 17900
Ion Ratio Lower Upper
149 100
167 24.8 20.6 30.8
279 1.8 1.5 2.3

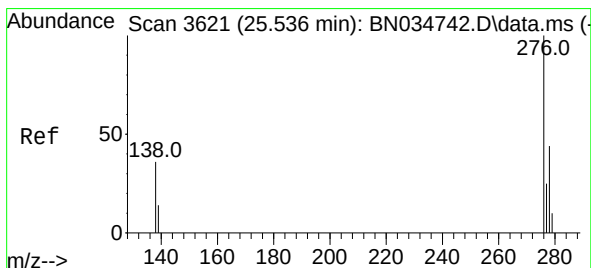
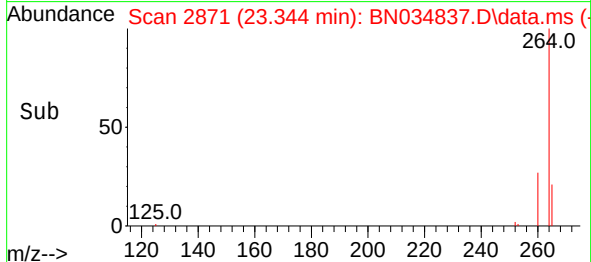
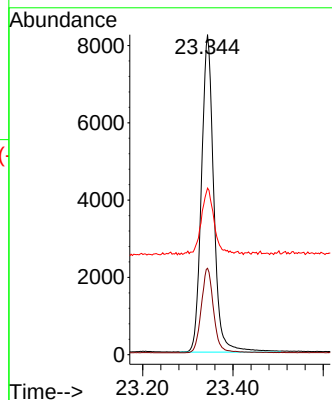
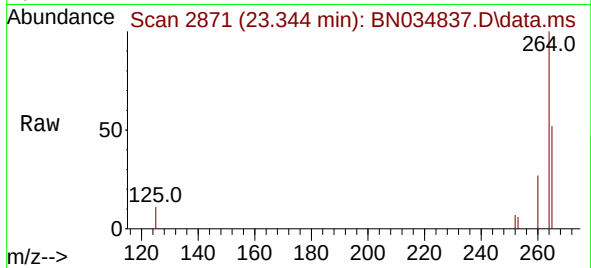




#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.344 min Scan# 21
 Delta R.T. -0.017 min
 Lab File: BN034837.D
 Acq: 04 Nov 2024 10:45

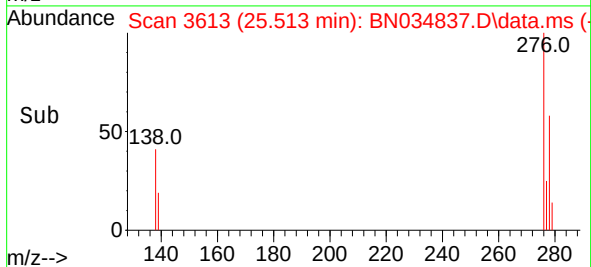
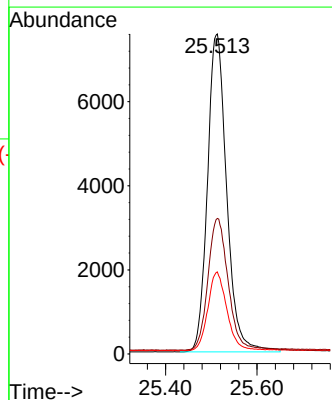
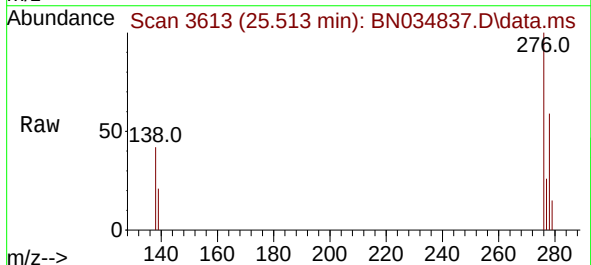
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

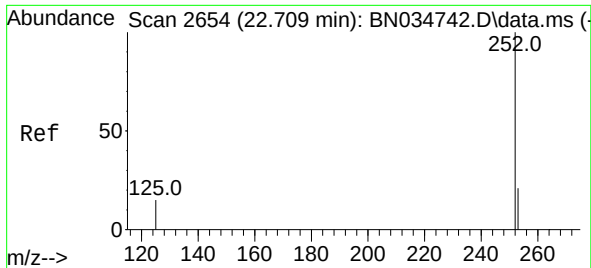
Tgt Ion:264 Resp: 15548
 Ion Ratio Lower Upper
 264 100
 260 27.0 21.5 32.3
 265 52.0 47.5 71.3



#36
 Indeno(1,2,3-cd)pyrene
 Concen: 0.386 ng
 RT: 25.513 min Scan# 3613
 Delta R.T. -0.023 min
 Lab File: BN034837.D
 Acq: 04 Nov 2024 10:45

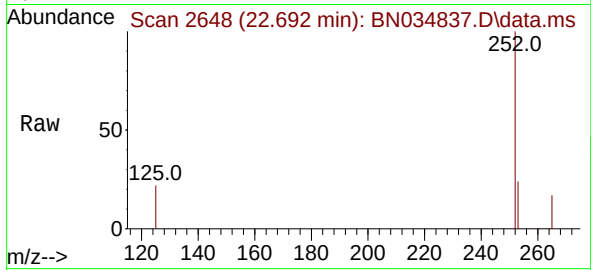
Tgt Ion:276 Resp: 22092
 Ion Ratio Lower Upper
 276 100
 138 43.4 31.5 47.3
 277 24.5 19.7 29.5



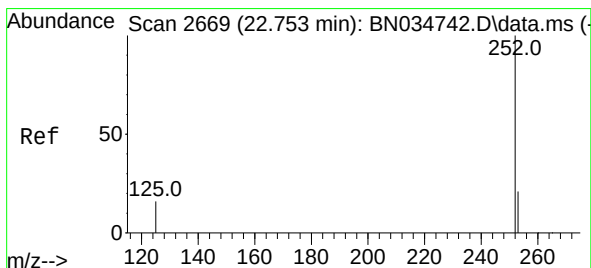
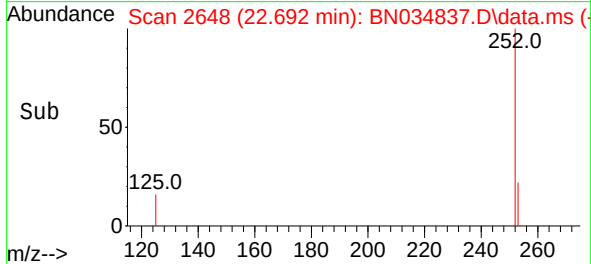
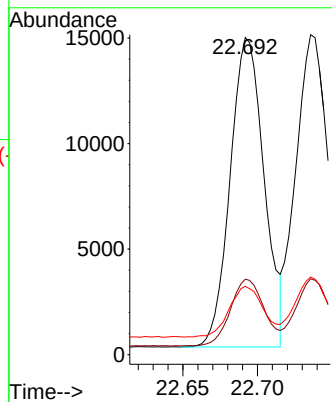


#37
Benzo(b)fluoranthene
Concen: 0.371 ng
RT: 22.692 min Scan# 2648
Delta R.T. -0.017 min
Lab File: BN034837.D
Acq: 04 Nov 2024 10:45

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

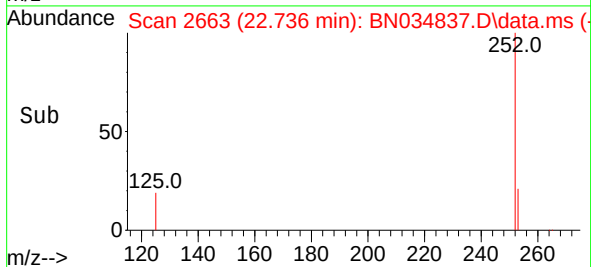
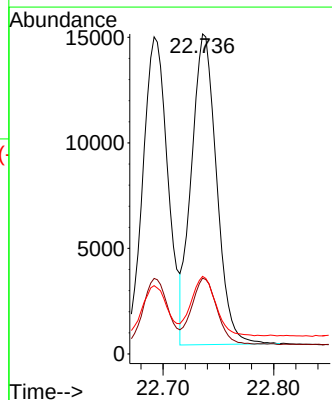
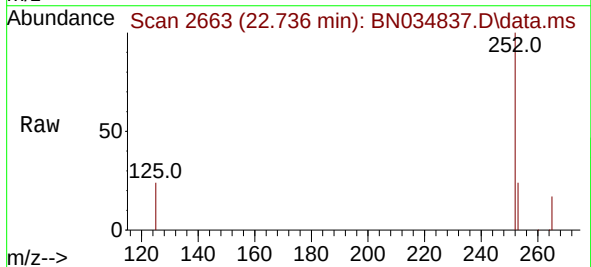


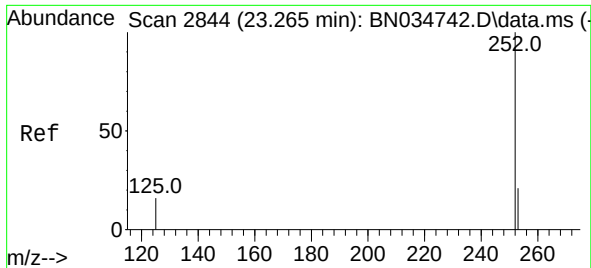
Tgt Ion:252 Resp: 23215
Ion Ratio Lower Upper
252 100
253 23.8 19.7 29.5
125 21.6 17.1 25.7



#38
Benzo(k)fluoranthene
Concen: 0.381 ng
RT: 22.736 min Scan# 2663
Delta R.T. -0.017 min
Lab File: BN034837.D
Acq: 04 Nov 2024 10:45

Tgt Ion:252 Resp: 23241
Ion Ratio Lower Upper
252 100
253 23.7 19.8 29.6
125 24.3 18.2 27.2





#39

Benzo(a)pyrene

Concen: 0.347 ng

RT: 23.247 min Scan# 21

Delta R.T. -0.017 min

Lab File: BN034837.D

Acq: 04 Nov 2024 10:45

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

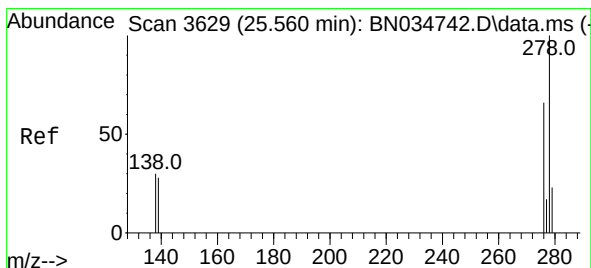
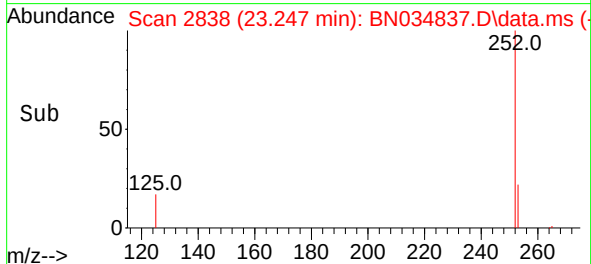
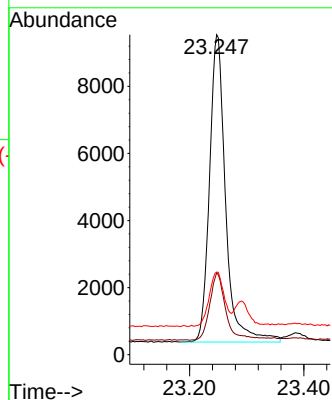
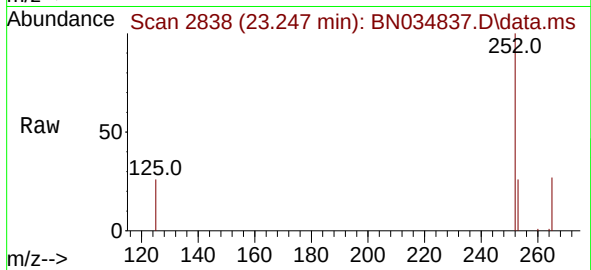
Tgt Ion:252 Resp: 17914

Ion Ratio Lower Upper

252 100

253 25.6 20.7 31.1

125 25.8 20.3 30.5



#40

Dibenzo(a,h)anthracene

Concen: 0.382 ng

RT: 25.525 min Scan# 3617

Delta R.T. -0.035 min

Lab File: BN034837.D

Acq: 04 Nov 2024 10:45

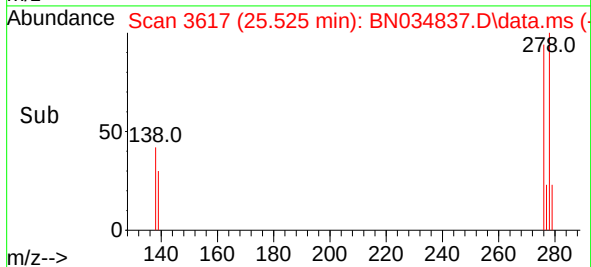
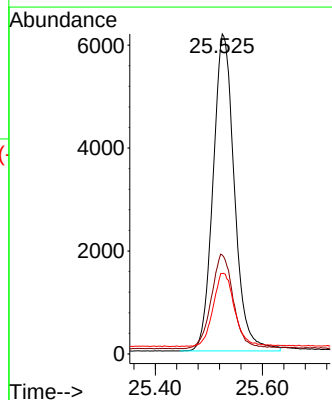
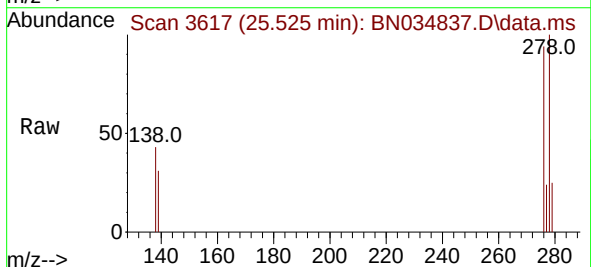
Tgt Ion:278 Resp: 17024

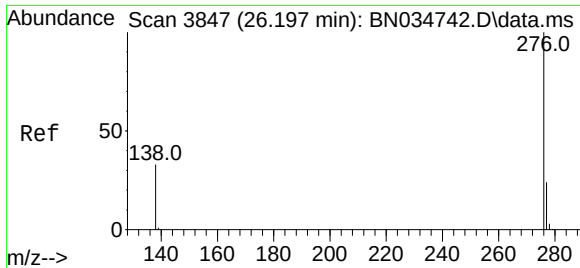
Ion Ratio Lower Upper

278 100

139 30.9 24.9 37.3

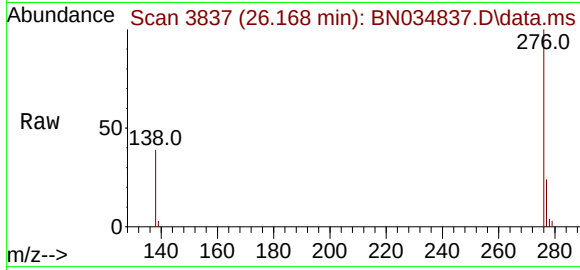
279 25.2 21.0 31.4



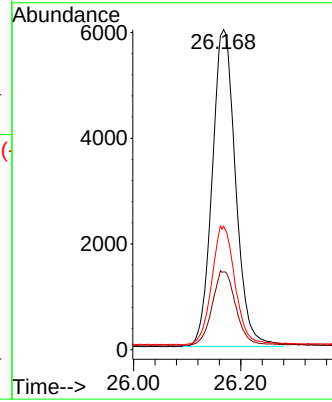
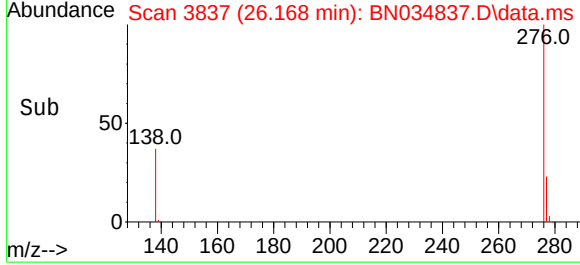


#41
 Benzo(g,h,i)perylene
 Concen: 0.378 ng
 RT: 26.168 min Scan# 3847
 Delta R.T. -0.029 min
 Lab File: BN034837.D
 Acq: 04 Nov 2024 10:45

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4



Tgt Ion:276 Resp: 18218
 Ion Ratio Lower Upper
 276 100
 277 24.3 20.2 30.2
 138 38.6 28.7 43.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110424\
 Data File : BN034839.D
 Acq On : 04 Nov 2024 14:55
 Operator : RC/JU
 Sample : P4652-01
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RW5-SP100-50-20241030

Quant Time: Nov 04 15:32:19 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 30 13:28:24 2024
 Response via : Initial Calibration

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

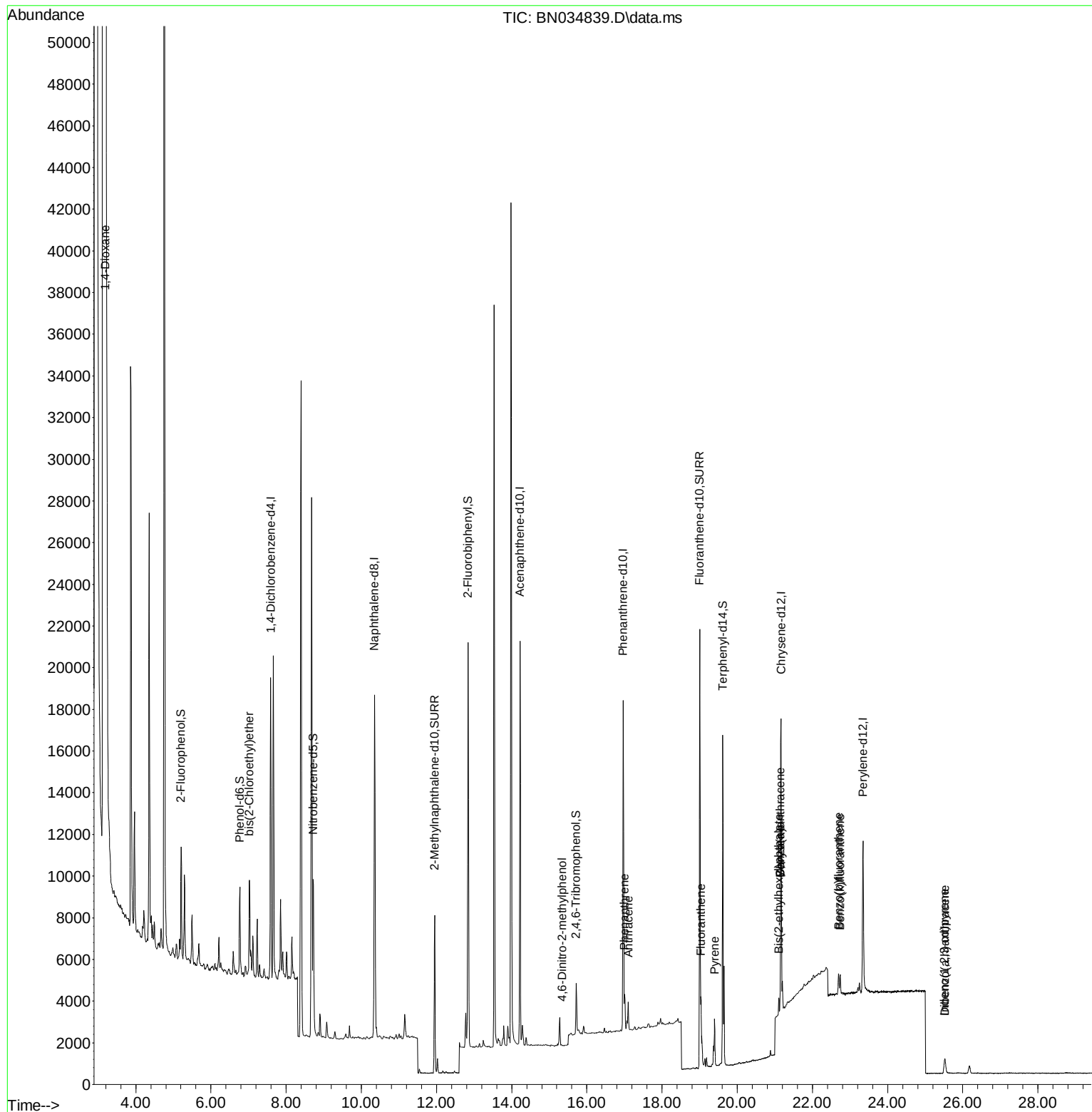
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.589	152	6676	0.400	ng	-0.01
7) Naphthalene-d8	10.351	136	20196	0.400	ng	-0.02
13) Acenaphthene-d10	14.218	164	10306	0.400	ng	-0.01
19) Phenanthrene-d10	16.964	188	20231	0.400	ng	#-0.02
29) Chrysene-d12	21.167	240	12090	0.400	ng	-0.01
35) Perylene-d12	23.344	264	9717	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.206	112	4172	0.206	ng	-0.01
5) Phenol-d6	6.766	99	3682	0.140	ng	-0.01
8) Nitrobenzene-d5	8.717	82	6109	0.385	ng	-0.02
11) 2-Methylnaphthalene-d10	11.950	152	10186	0.348	ng	-0.02
14) 2,4,6-Tribromophenol	15.710	330	1295	0.254	ng	-0.02
15) 2-Fluorobiphenyl	12.839	172	15625	0.385	ng	-0.03
27) Fluoranthene-d10	19.003	212	20365	0.429	ng	-0.01
31) Terphenyl-d14	19.617	244	12757	0.491	ng	-0.01
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.191	88	59452	8.123	ng	95
6) bis(2-Chloroethyl)ether	7.019	93	1335	0.070	ng	# 47
20) 4,6-Dinitro-2-methylph...	15.341	198	8	0.182	ng	# 1
25) Phenanthrene	17.001	178	1845	0.031	ng	98
26) Anthracene	17.101	178	1352	0.024	ng	99
28) Fluoranthene	19.036	202	2824	0.043	ng	95
30) Pyrene	19.398	202	1908	0.030	ng	99
32) Benzo(a)anthracene	21.149	228	1080	0.022	ng	91
33) Chrysene	21.149	228	1080	0.023	ng	94
34) Bis(2-ethylhexyl)phtha...	21.104	149	903	0.022	ng	# 93
36) Indeno(1,2,3-cd)pyrene	25.514	276	846	0.024	ng	99
37) Benzo(b)fluoranthene	22.695	252	1200	0.031	ng	# 5
38) Benzo(k)fluoranthene	22.736	252	1114	0.029	ng	# 1
40) Dibenzo(a,h)anthracene	25.531	278	575	0.021	ng	# 27

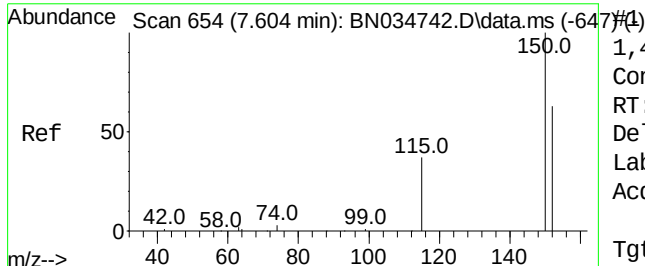
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110424\
Data File : BN034839.D
Acq On : 04 Nov 2024 14:55
Operator : RC/JU
Sample : P4652-01
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-50-20241030

Quant Time: Nov 04 15:32:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 30 13:28:24 2024
Response via : Initial Calibration

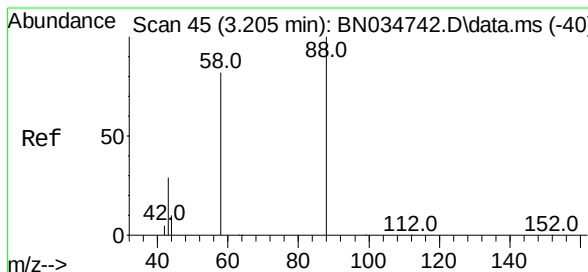
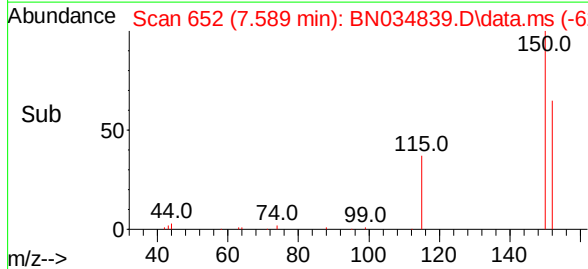
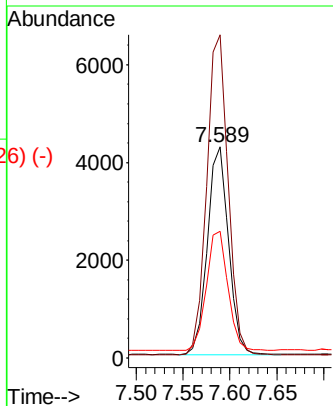
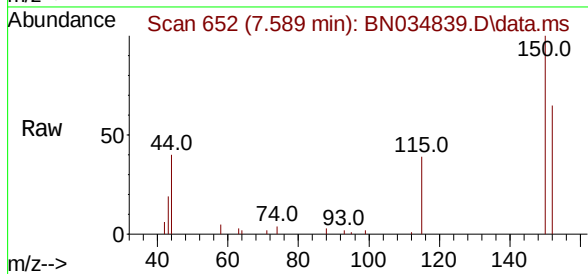




1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.589 min Scan#
 Delta R.T. -0.015 min
 Lab File: BN034839.D
 Acq: 04 Nov 2024 14:55

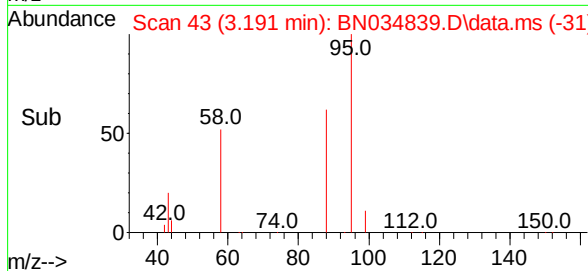
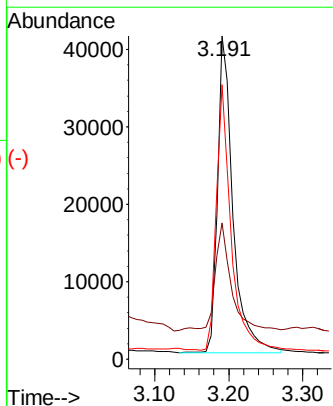
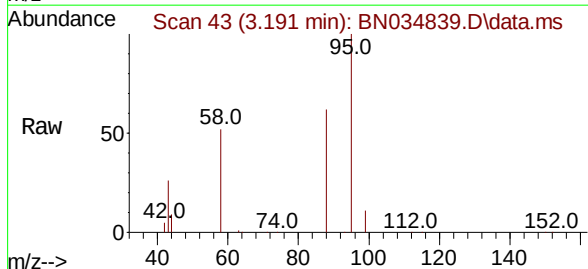
Instrument :
 BNA_N
 ClientSampleId :
 RW5-SP100-50-20241030

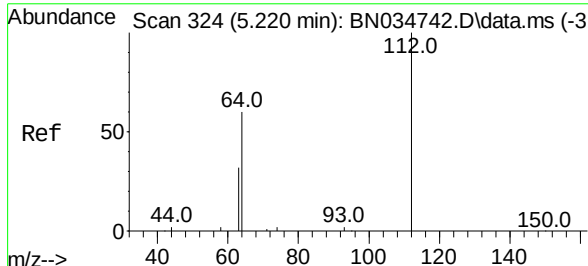
Tgt Ion:	152	Resp:	6676
Ion	Ratio	Lower	Upper
152	100		
150	153.1	124.9	187.3
115	60.1	50.2	75.2



1,4-Dioxane
 Concen: 8.123 ng
 RT: 3.191 min Scan# 43
 Delta R.T. -0.014 min
 Lab File: BN034839.D
 Acq: 04 Nov 2024 14:55

Tgt Ion:	88	Resp:	59452
Ion	Ratio	Lower	Upper
88	100		
43	34.3	26.7	40.1
58	79.5	59.3	88.9





2-Fluorophenol

Concen: 0.206 ng

RT: 5.206 min Scan# 4

Delta R.T. -0.014 min

Lab File: BN034839.D

Acq: 04 Nov 2024 14:55

Instrument :

BNA_N

ClientSampleId :

RW5-SP100-50-20241030

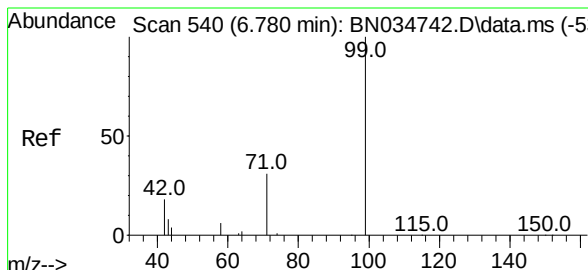
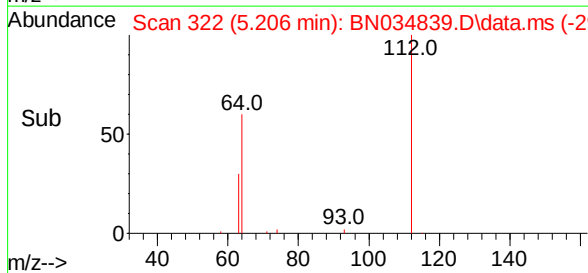
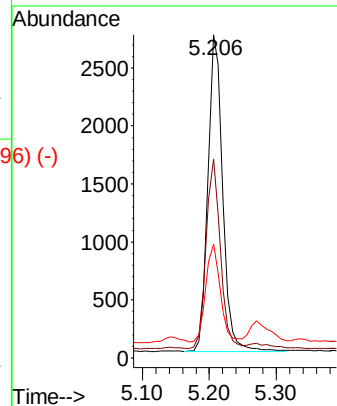
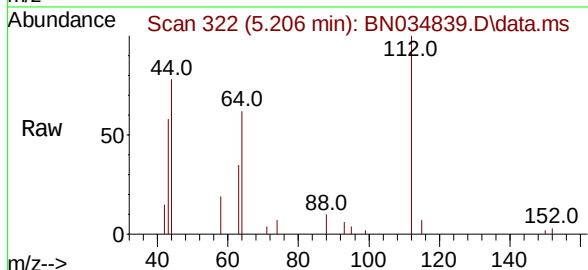
Tgt Ion: 112 Resp: 4172

Ion Ratio Lower Upper

112 100

64 57.3 44.9 67.3

63 30.4 23.5 35.3



Phenol-d6

Concen: 0.140 ng

RT: 6.766 min Scan# 538

Delta R.T. -0.014 min

Lab File: BN034839.D

Acq: 04 Nov 2024 14:55

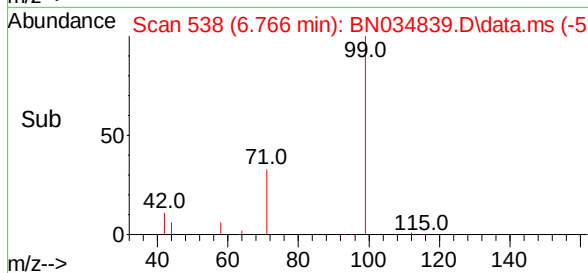
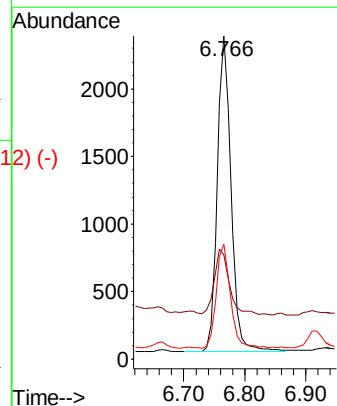
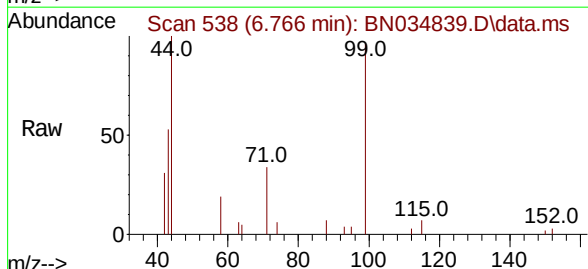
Tgt Ion: 99 Resp: 3682

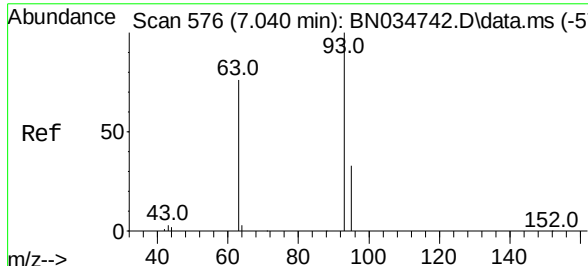
Ion Ratio Lower Upper

99 100

42 23.1 15.9 23.9

71 35.0 24.3 36.5

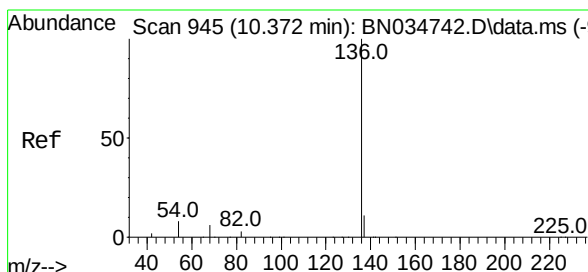
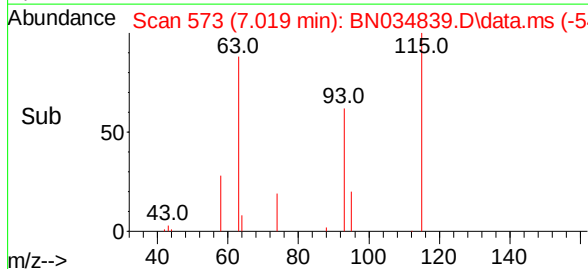
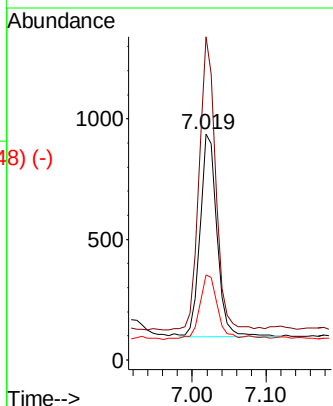
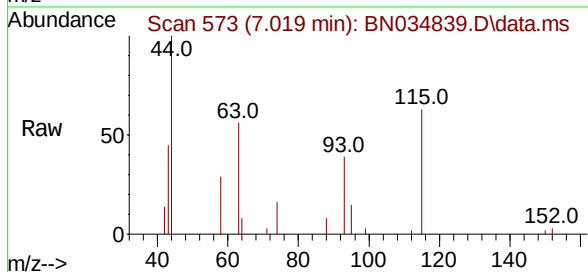




Scan 576 (7.040 min): BN034742.D\data.ms (-571) #6
 bis(2-Chloroethyl)ether
 Concen: 0.070 ng
 RT: 7.019 min Scan# 1
 Delta R.T. -0.022 min
 Lab File: BN034839.D
 Acq: 04 Nov 2024 14:55

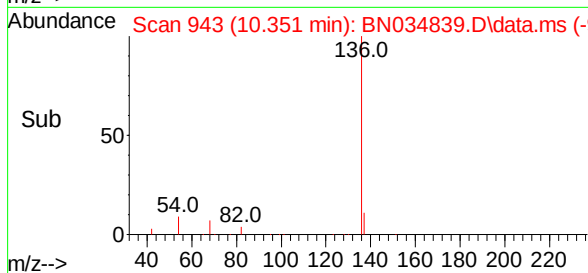
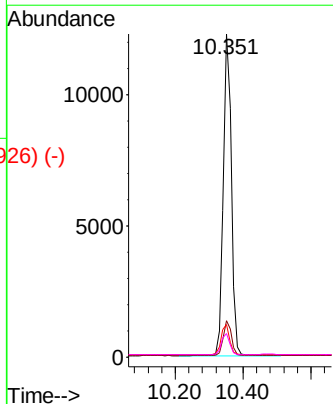
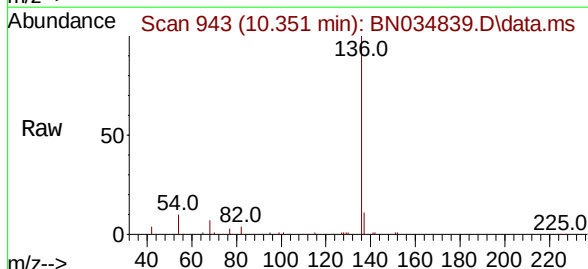
Instrument :
 BNA_N
 ClientSampleId :
 RW5-SP100-50-20241030

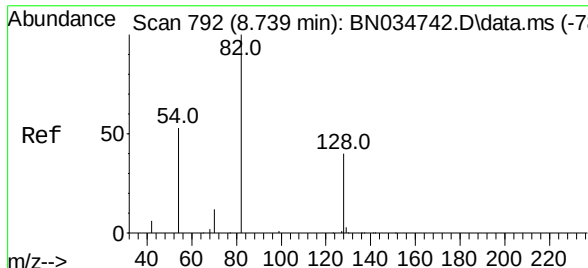
Tgt Ion:	93	Resp:	1335
Ion	Ratio	Lower	Upper
93	100		
63	139.6	61.2	91.8#
95	34.2	25.8	38.8



Scan 945 (10.372 min): BN034742.D\data.ms (-936) #7
 Naphthalene-d8
 Concen: 0.400 ng
 RT: 10.351 min Scan# 943
 Delta R.T. -0.021 min
 Lab File: BN034839.D
 Acq: 04 Nov 2024 14:55

Tgt Ion:	136	Resp:	20196
Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.2	13.8
54	10.2	7.0	10.4
68	7.4	5.6	8.4





Nitrobenzene-d5

Concen: 0.385 ng

RT: 8.717 min Scan#

Delta R.T. -0.021 min

Lab File: BN034839.D

Acq: 04 Nov 2024 14:55

Instrument :

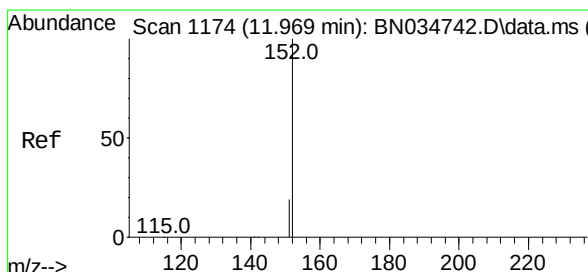
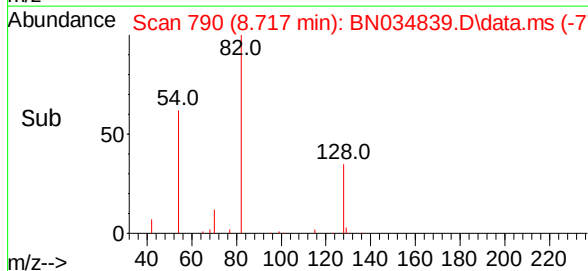
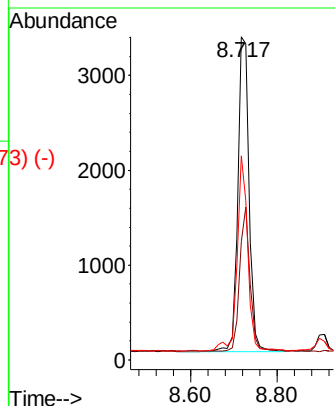
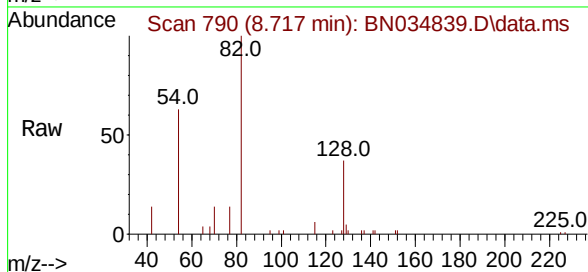
BNA_N

ClientSampleId :

RW5-SP100-50-20241030

Tgt Ion: 82 Resp: 6109

Ion	Ratio	Lower	Upper
82	100		
128	36.6	33.7	50.5
54	63.3	44.4	66.6



2-Methylnaphthalene-d10

Concen: 0.348 ng

RT: 11.950 min Scan# 1169

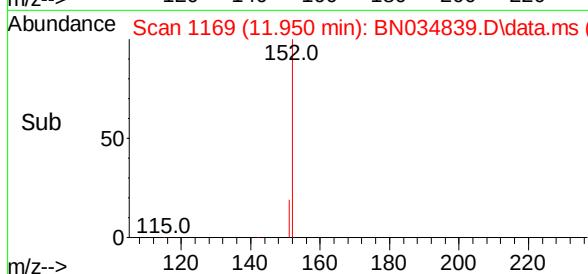
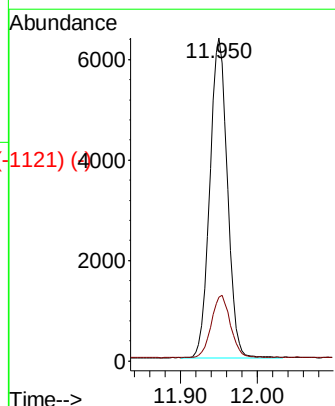
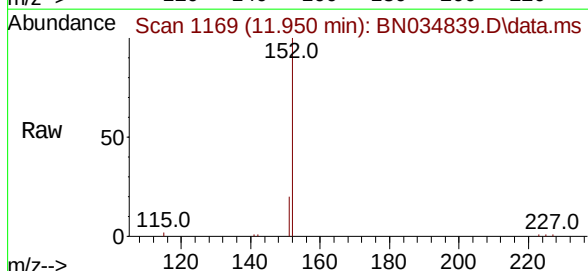
Delta R.T. -0.019 min

Lab File: BN034839.D

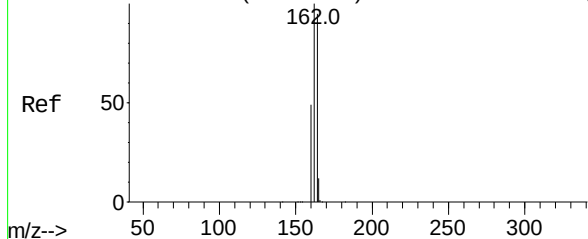
Acq: 04 Nov 2024 14:55

Tgt Ion: 152 Resp: 10186

Ion	Ratio	Lower	Upper
152	100		
151	20.9	16.6	24.8



Abundance Scan 1495 (14.233 min): BN034742.D\data.ms (-1416) (-)



Acenaphthene-d10

Concen: 0.400 ng

RT: 14.218 min Scan# 1493

Delta R.T. -0.015 min

Lab File: BN034839.D

Acq: 04 Nov 2024 14:55

Instrument :

BNA_N

ClientSampleId :

RW5-SP100-50-20241030

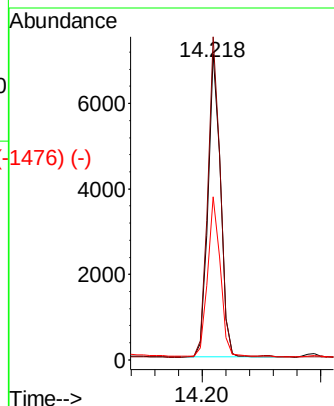
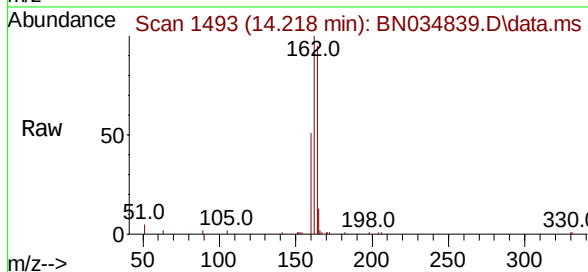
Tgt Ion:164 Resp: 10306

Ion Ratio Lower Upper

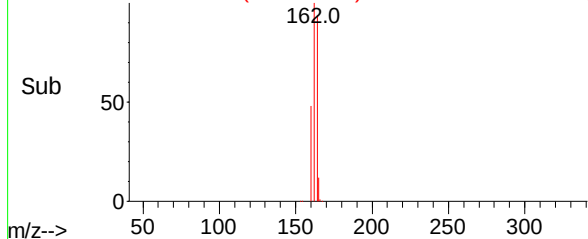
164 100

162 105.7 84.3 126.5

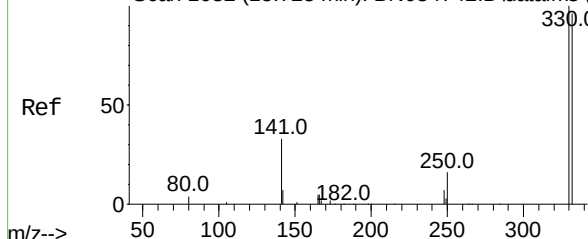
160 53.4 41.7 62.5



Abundance Scan 1493 (14.218 min): BN034839.D\data.ms (-1476) (-)



Abundance Scan 1632 (15.728 min): BN034742.D\data.ms (-1628) (-)



2,4,6-Tribromophenol

Concen: 0.254 ng

RT: 15.710 min Scan# 1630

Delta R.T. -0.018 min

Lab File: BN034839.D

Acq: 04 Nov 2024 14:55

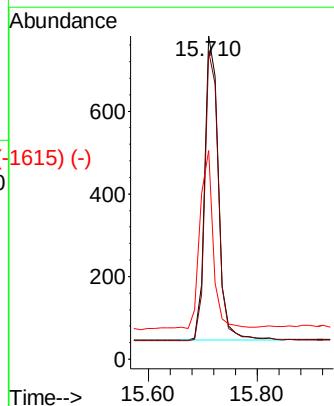
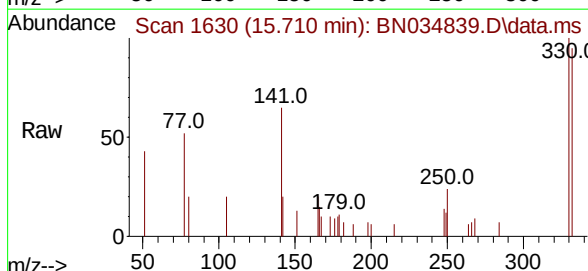
Tgt Ion:330 Resp: 1295

Ion Ratio Lower Upper

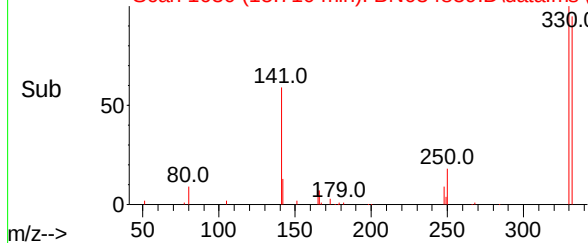
330 100

332 95.4 77.8 116.6

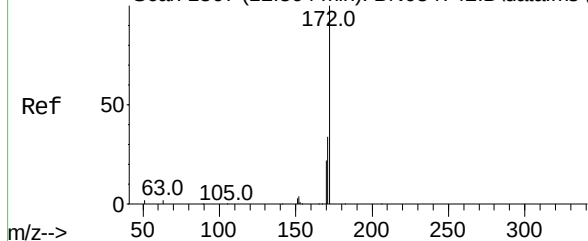
141 62.4 41.0 61.4#



Abundance Scan 1630 (15.710 min): BN034839.D\data.ms (-1615) (-)



Abundance Scan 1367 (12.864 min): BN034742.D\data.ms (-1367) (-)



2-Fluorobiphenyl

Concen: 0.385 ng

RT: 12.839 min Scan# 1367

Delta R.T. -0.025 min

Lab File: BN034839.D

Acq: 04 Nov 2024 14:55

Instrument :

BNA_N

ClientSampleId :

RW5-SP100-50-20241030

Tgt Ion:172 Resp: 15625

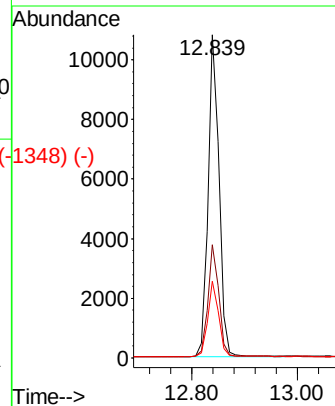
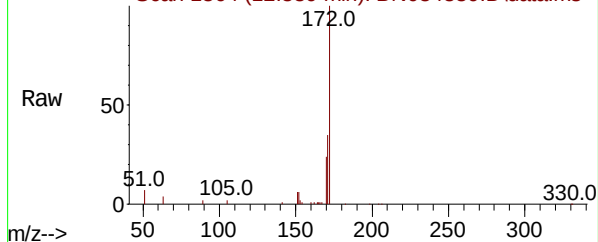
Ion Ratio Lower Upper

172 100

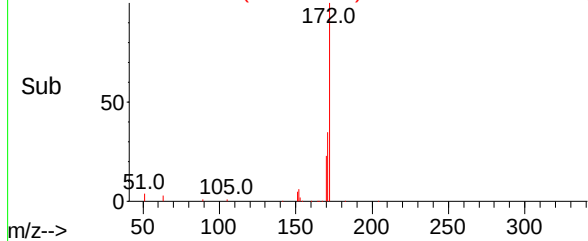
171 35.0 27.2 40.8

170 23.7 18.0 27.0

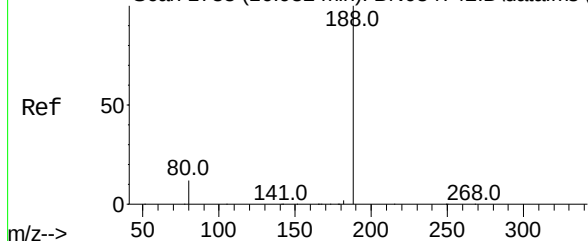
Abundance Scan 1364 (12.839 min): BN034839.D\data.ms



Abundance Scan 1364 (12.839 min): BN034839.D\data.ms (-1348) (-)



Abundance Scan 1733 (16.982 min): BN034742.D\data.ms (-1729) (-)



Phenanthrene-d10

Concen: 0.400 ng

RT: 16.964 min Scan# 1731

Delta R.T. -0.018 min

Lab File: BN034839.D

Acq: 04 Nov 2024 14:55

Tgt Ion:188 Resp: 20231

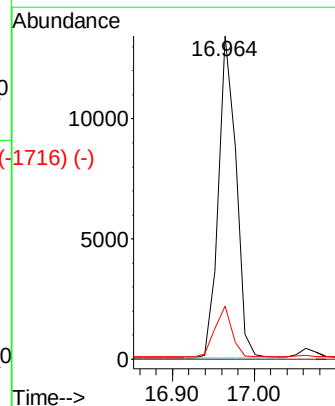
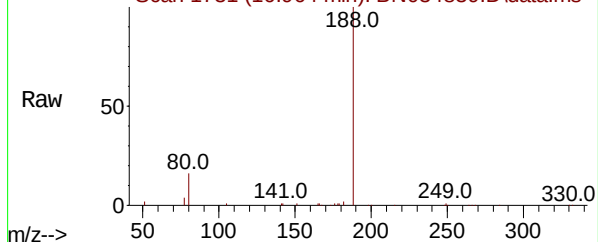
Ion Ratio Lower Upper

188 100

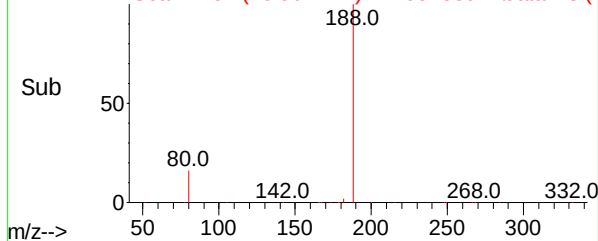
94 0.0 0.0 0.0

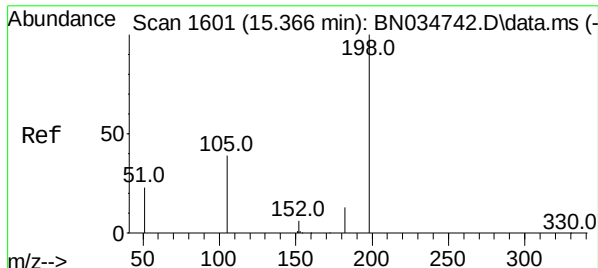
80 16.4 9.8 14.6#

Abundance Scan 1731 (16.964 min): BN034839.D\data.ms



Abundance Scan 1731 (16.964 min): BN034839.D\data.ms (-1716) (-)

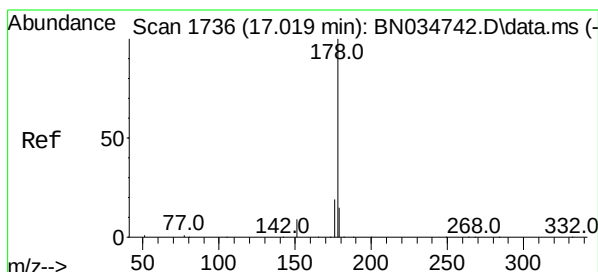
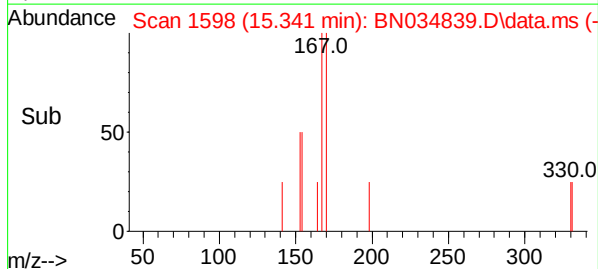
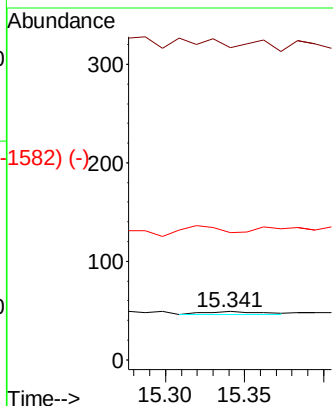
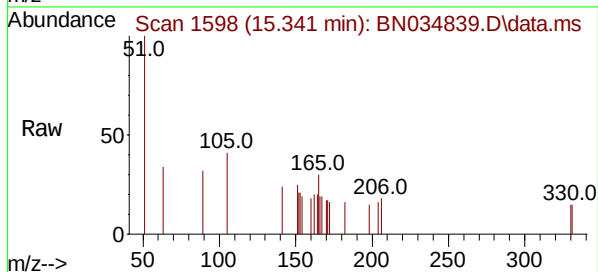




4,6-Dinitro-2-methylphenol
Concen: 0.182 ng
RT: 15.341 min Scan# 1526
Delta R.T. -0.025 min
Lab File: BN034839.D
Acq: 04 Nov 2024 14:55

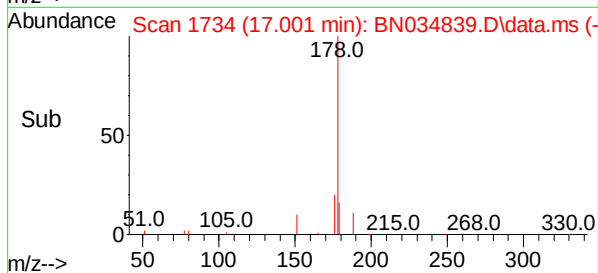
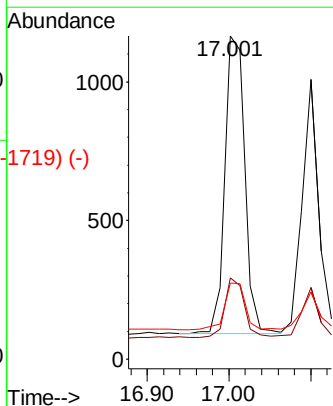
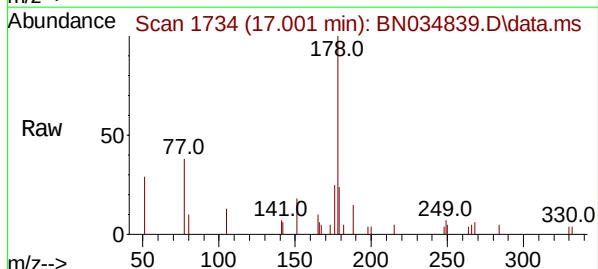
Instrument :
BNA_N
ClientSampleId :
RW5-SP100-50-20241030

Tgt Ion:	198	Resp:	8
Ion	Ratio	Lower	Upper
198	100		
51	646.9	58.0	87.0#
105	263.3	49.1	73.7#

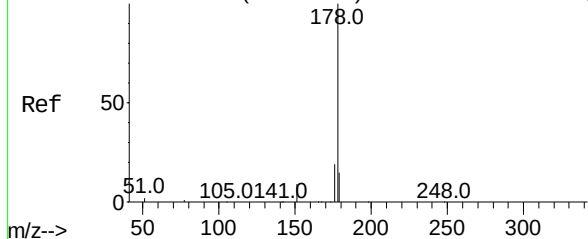


Phenanthrene
Concen: 0.031 ng
RT: 17.001 min Scan# 1734
Delta R.T. -0.018 min
Lab File: BN034839.D
Acq: 04 Nov 2024 14:55

Tgt Ion:	178	Resp:	1845
Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.4	23.0
179	16.6	12.2	18.4



Abundance Scan 1743 (17.106 min): BN034742.D\data.ms (-1726) (-)



Anthracene

Concen: 0.024 ng

RT: 17.101 min Scan# 1743

Delta R.T. -0.006 min

Lab File: BN034839.D

Acq: 04 Nov 2024 14:55

Instrument :

BNA_N

ClientSampleId :

RW5-SP100-50-20241030

Tgt Ion:178 Resp: 1352

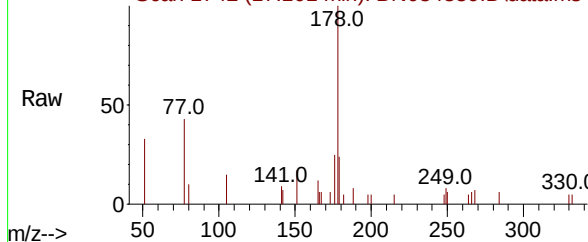
Ion Ratio Lower Upper

178 100

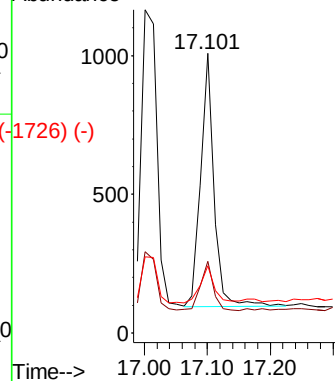
176 18.4 15.0 22.6

179 15.2 12.2 18.2

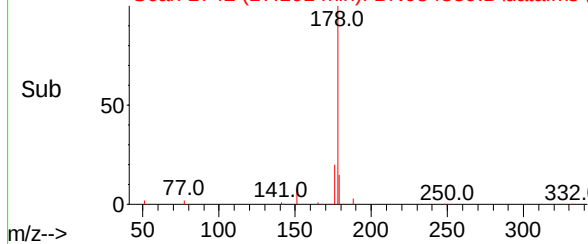
Abundance Scan 1742 (17.101 min): BN034839.D\data.ms



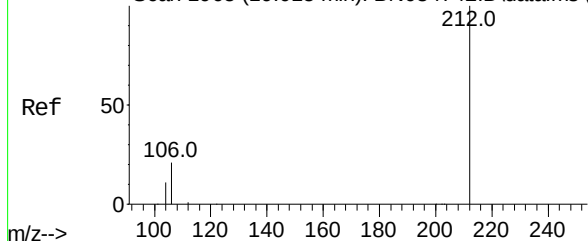
Abundance



Abundance Scan 1742 (17.101 min): BN034839.D\data.ms (-1726) (-)



Abundance Scan 1965 (19.015 min): BN034742.D\data.ms (-1925) (-)



Fluoranthene-d10

Concen: 0.429 ng

RT: 19.003 min Scan# 1961

Delta R.T. -0.012 min

Lab File: BN034839.D

Acq: 04 Nov 2024 14:55

Tgt Ion:212 Resp: 20365

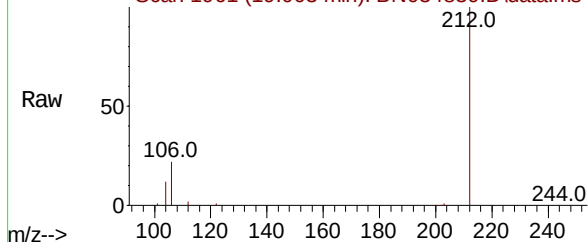
Ion Ratio Lower Upper

212 100

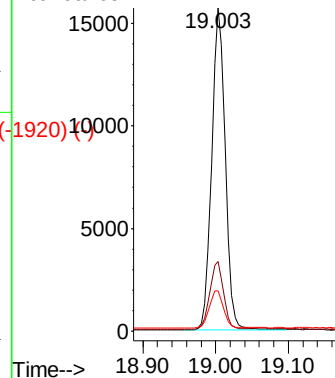
106 21.2 16.1 24.1

104 12.3 9.2 13.8

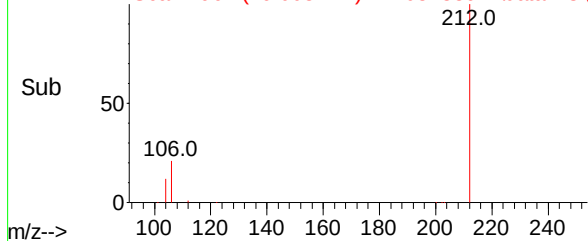
Abundance Scan 1961 (19.003 min): BN034839.D\data.ms



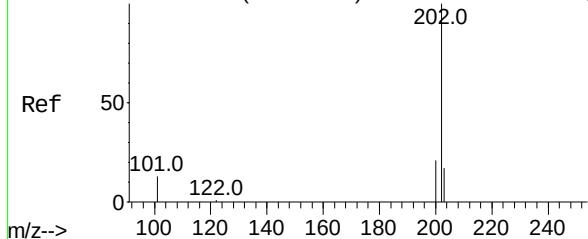
Abundance



Abundance Scan 1961 (19.003 min): BN034839.D\data.ms (-1920) (-)



Abundance Scan 1972 (19.048 min): BN034742.D\data.ms (-1923) (-)



Fluoranthene

Concen: 0.043 ng

RT: 19.036 min Scan# 1923

Delta R.T. -0.012 min

Lab File: BN034839.D

Acq: 04 Nov 2024 14:55

Instrument :

BNA_N

ClientSampleId :

RW5-SP100-50-20241030

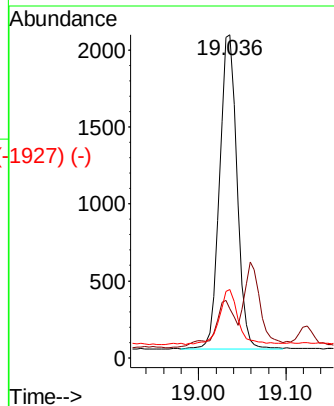
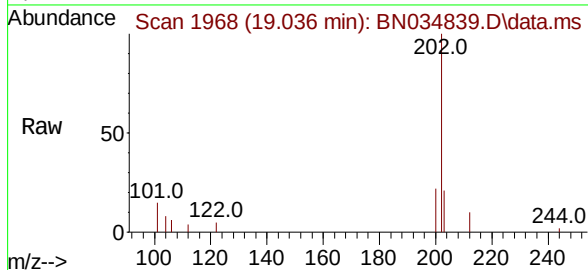
Tgt Ion:202 Resp: 2824

Ion Ratio Lower Upper

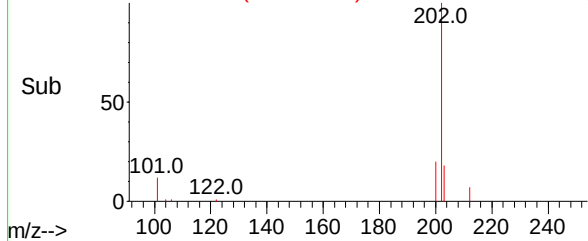
202 100

101 16.9 11.4 17.0

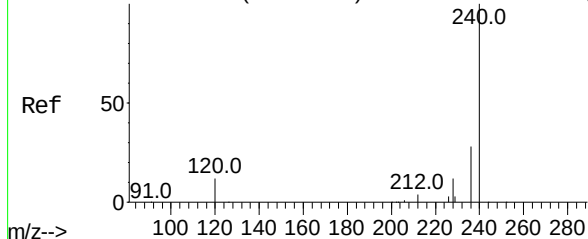
203 18.7 13.7 20.5



Abundance Scan 1968 (19.036 min): BN034839.D\data.ms (-1927) (-)



Abundance Scan 2413 (21.178 min): BN034742.D\data.ms (-2429) (-)



Chrysene-d12

Concen: 0.400 ng

RT: 21.167 min Scan# 2410

Delta R.T. -0.011 min

Lab File: BN034839.D

Acq: 04 Nov 2024 14:55

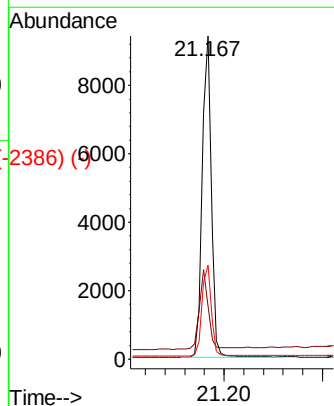
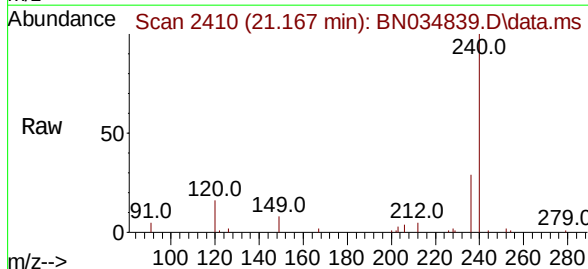
Tgt Ion:240 Resp: 12090

Ion Ratio Lower Upper

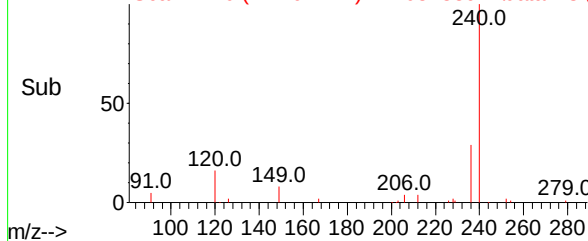
240 100

120 16.4 11.5 17.3

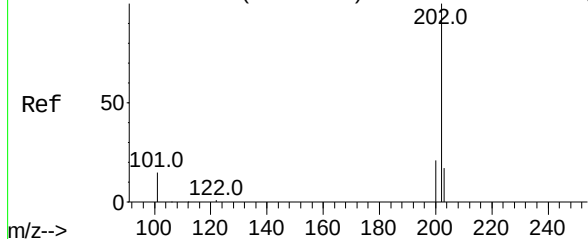
236 29.1 23.2 34.8



Abundance Scan 2410 (21.167 min): BN034839.D\data.ms (-2386) (-)



Abundance Scan 2050 (19.410 min): BN034742.D\data.ms (-2039) (-)



Pyrene

Concen: 0.030 ng

RT: 19.398 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN034839.D

Acq: 04 Nov 2024 14:55

Instrument :

BNA_N

ClientSampleId :

RW5-SP100-50-20241030

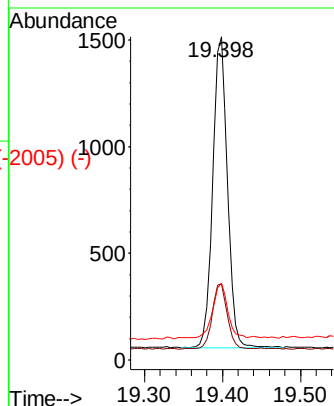
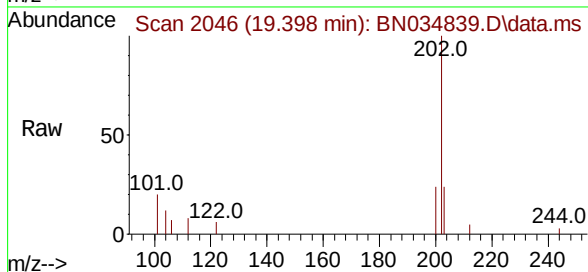
Tgt Ion:202 Resp: 1908

Ion Ratio Lower Upper

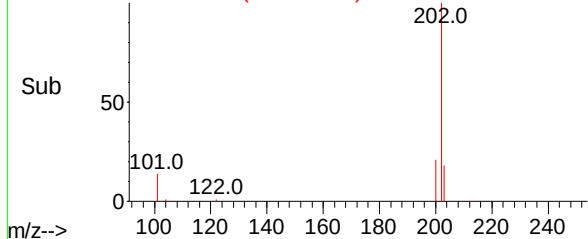
202 100

200 21.2 17.0 25.4

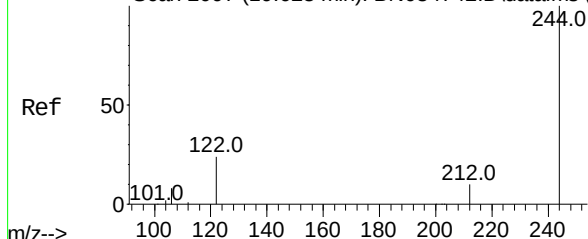
203 19.0 14.2 21.2



Abundance Scan 2046 (19.398 min): BN034839.D\data.ms (-2005) (-)



Abundance Scan 2097 (19.628 min): BN034742.D\data.ms (-2039) (-)



Terphenyl-d14

Concen: 0.491 ng

RT: 19.617 min Scan# 2093

Delta R.T. -0.012 min

Lab File: BN034839.D

Acq: 04 Nov 2024 14:55

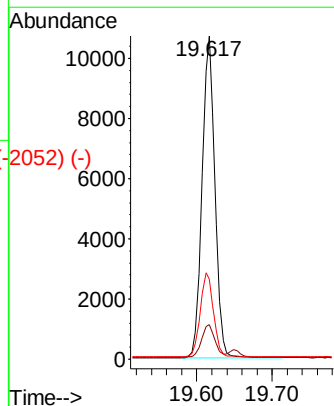
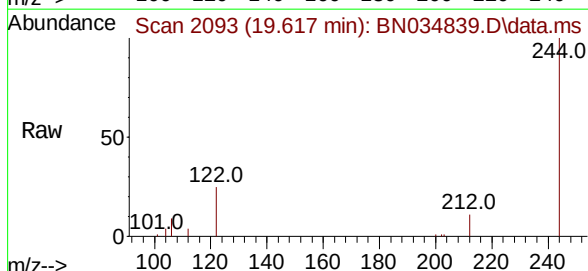
Tgt Ion:244 Resp: 12757

Ion Ratio Lower Upper

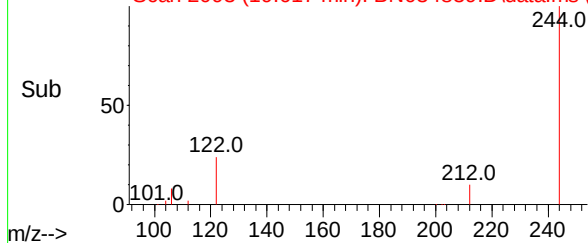
244 100

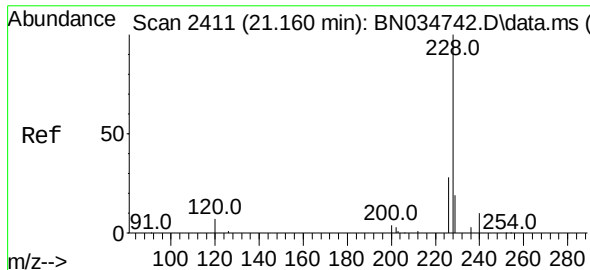
212 10.8 8.2 12.4

122 24.8 19.8 29.6



Abundance Scan 2093 (19.617 min): BN034839.D\data.ms (-2052) (-)

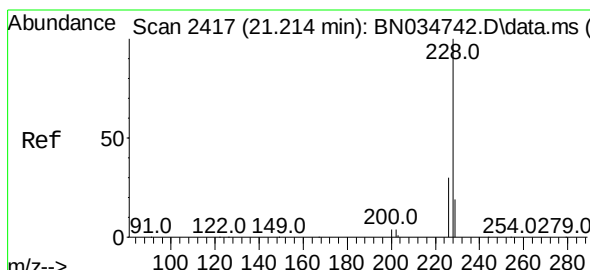
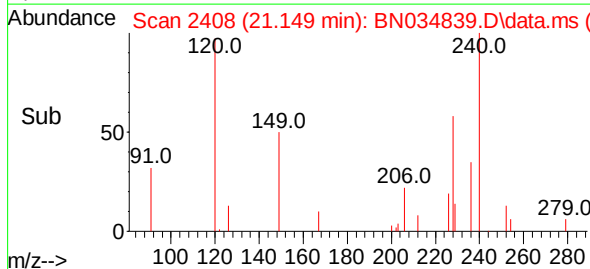
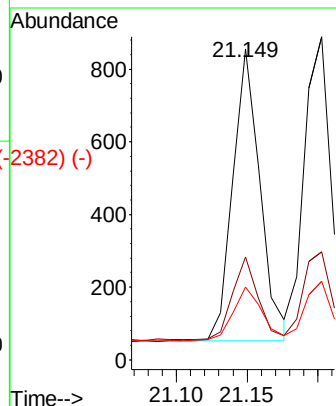
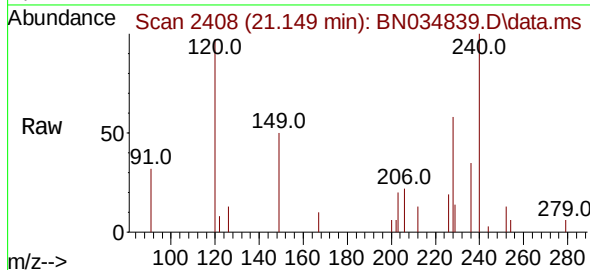




Scan 2411 (21.160 min): BN034742.D\data.ms (-2402) (-)
 Benzo(a)anthracene
 Concen: 0.022 ng
 RT: 21.149 min Scan# 2408
 Delta R.T. -0.011 min
 Lab File: BN034839.D
 Acq: 04 Nov 2024 14:55

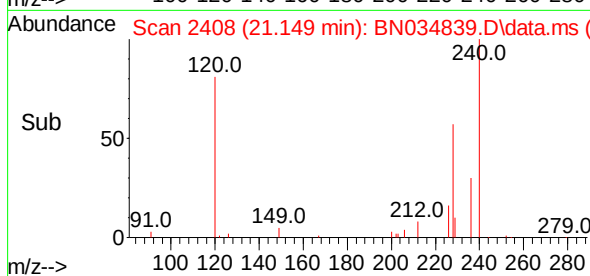
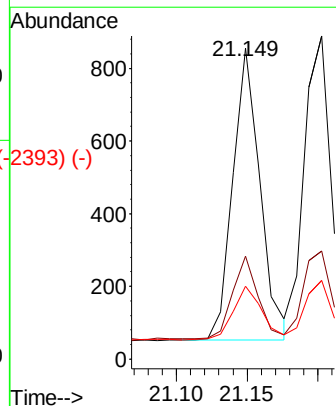
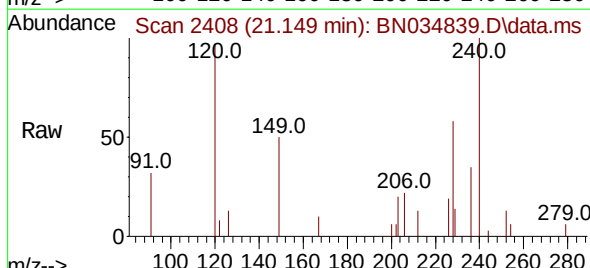
Instrument :
 BNA_N
 ClientSampleId :
 RW5-SP100-50-20241030

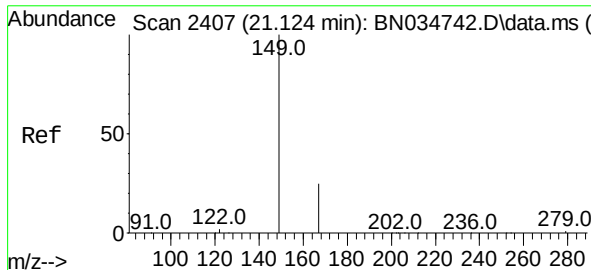
Tgt Ion:	228	Resp:	1080
Ion	Ratio	Lower	Upper
228	100		
226	33.1	22.6	33.8
229	23.4	15.7	23.5



Scan 2417 (21.214 min): BN034742.D\data.ms (-2403) (-)
 Chrysene
 Concen: 0.023 ng
 RT: 21.149 min Scan# 2408
 Delta R.T. -0.065 min
 Lab File: BN034839.D
 Acq: 04 Nov 2024 14:55

Tgt Ion:	228	Resp:	1080
Ion	Ratio	Lower	Upper
228	100		
226	33.1	24.4	36.6
229	23.4	15.6	23.4

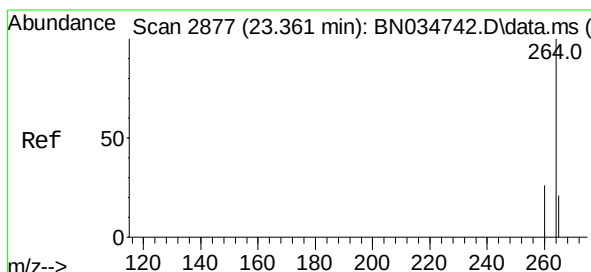
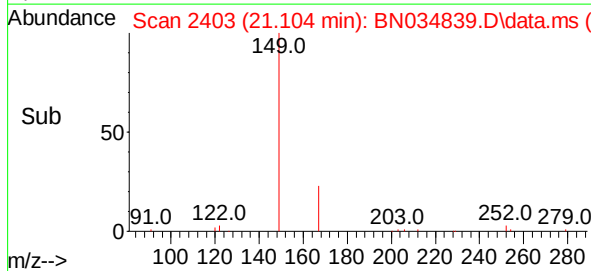
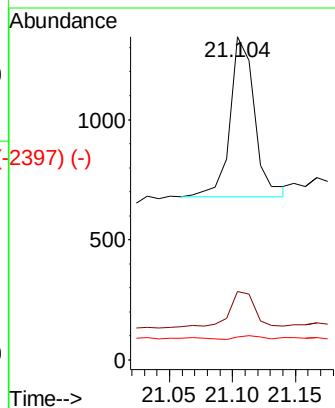
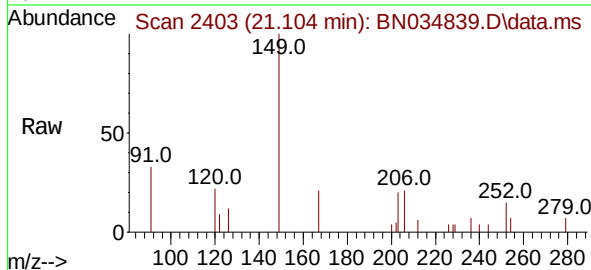




Scan 2407 (21.124 min): BN034742.D\data.ms (-2407) (-)
 Bis(2-ethylhexyl)phthalate
 Concen: 0.022 ng
 RT: 21.104 min Scan# 1
 Delta R.T. -0.020 min
 Lab File: BN034839.D
 Acq: 04 Nov 2024 14:55

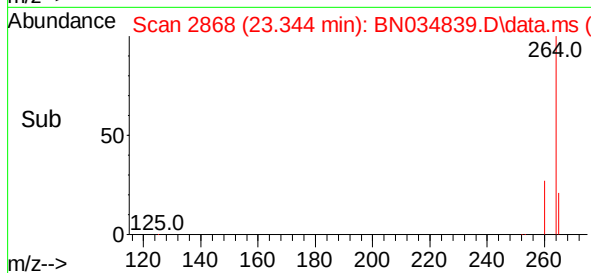
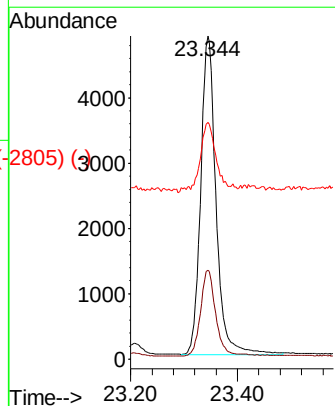
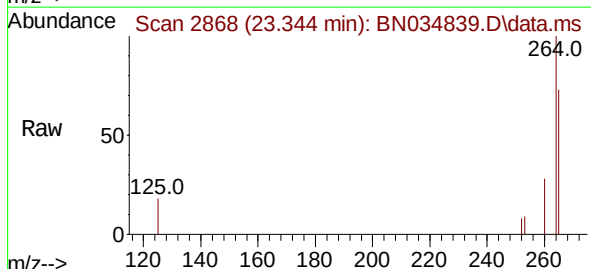
Instrument :
 BNA_N
 ClientSampleId :
 RW5-SP100-50-20241030

Tgt Ion:	149	Resp:	903
Ion	Ratio	Lower	Upper
149	100		
167	21.8	20.6	30.8
279	2.7	1.5	2.3#



Scan 2877 (23.361 min): BN034742.D\data.ms (-2877) (-)
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.344 min Scan# 2868
 Delta R.T. -0.017 min
 Lab File: BN034839.D
 Acq: 04 Nov 2024 14:55

Tgt Ion:	264	Resp:	9717
Ion	Ratio	Lower	Upper
264	100		
260	27.5	21.5	32.3
265	73.3	47.5	71.3#



Abundance Scan 3621 (25.536 min): BN034742.D\data.ms (-3536) (-)

Indeno(1,2,3-cd)pyrene

Concen: 0.024 ng

RT: 25.514 min Scan# 3621

Delta R.T. -0.023 min

Lab File: BN034839.D

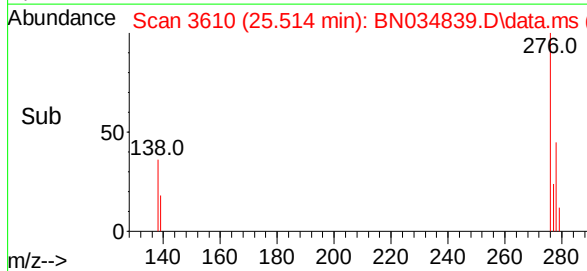
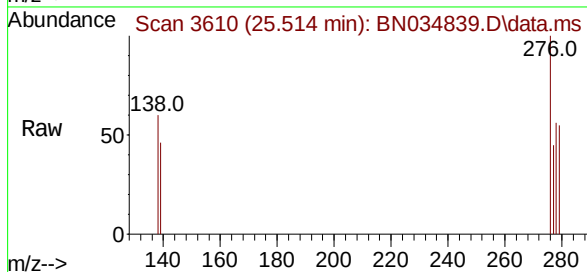
Acq: 04 Nov 2024 14:55

Instrument :

BNA_N

ClientSampleId :

RW5-SP100-50-20241030



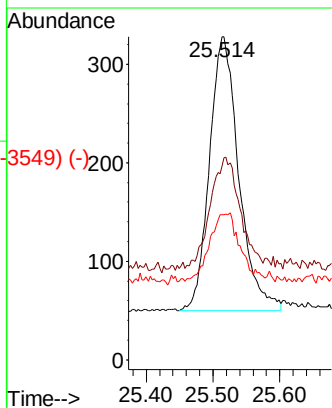
Tgt Ion:276 Resp: 846

Ion Ratio Lower Upper

276 100

138 39.8 31.5 47.3

277 24.8 19.7 29.5



Abundance Scan 2654 (22.709 min): BN034742.D\data.ms (-2647) (-)

Benzo(b)fluoranthene

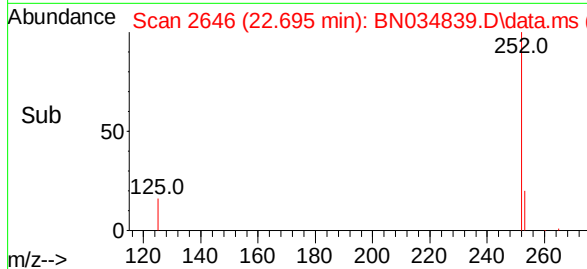
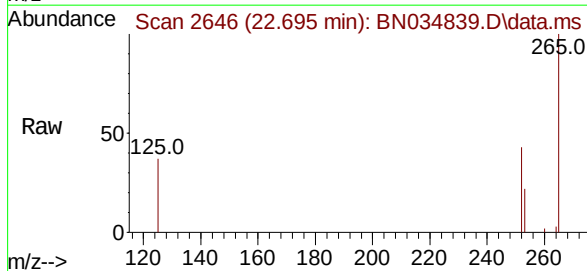
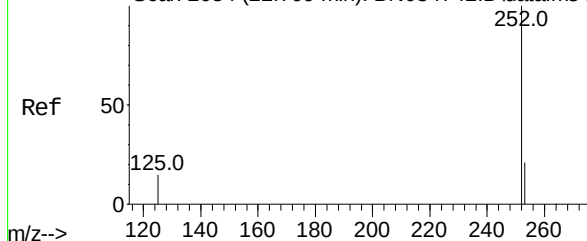
Concen: 0.031 ng

RT: 22.695 min Scan# 2646

Delta R.T. -0.014 min

Lab File: BN034839.D

Acq: 04 Nov 2024 14:55



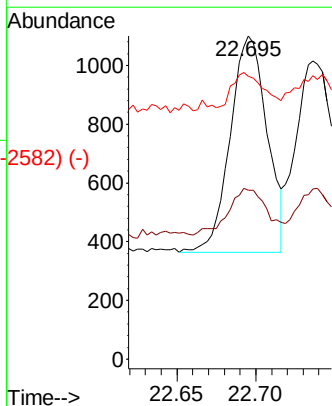
Tgt Ion:252 Resp: 1200

Ion Ratio Lower Upper

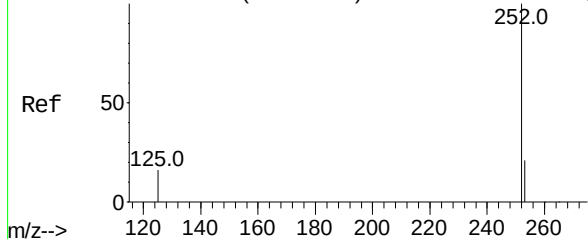
252 100

253 52.3 19.7 29.5#

125 87.5 17.1 25.7#



Abundance Scan 2669 (22.753 min): BN034742.D\data.ms (-2669) (-)



Benzo(k)fluoranthene

Concen: 0.029 ng

RT: 22.736 min Scan# 1

Delta R.T. -0.017 min

Lab File: BN034839.D

Acq: 04 Nov 2024 14:55

Instrument :

BNA_N

ClientSampleId :

RW5-SP100-50-20241030

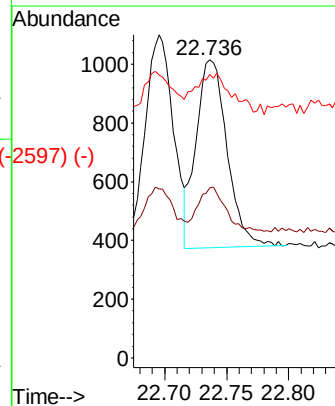
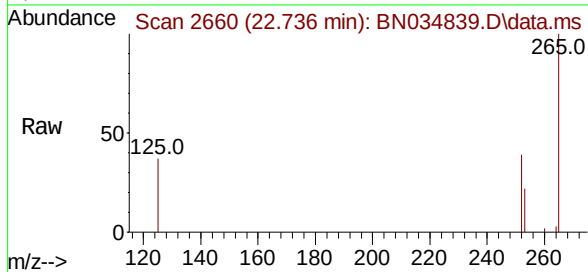
Tgt Ion:252 Resp: 1114

Ion Ratio Lower Upper

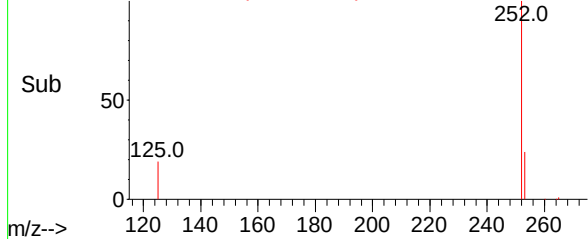
252 100

253 57.0 19.8 29.6#

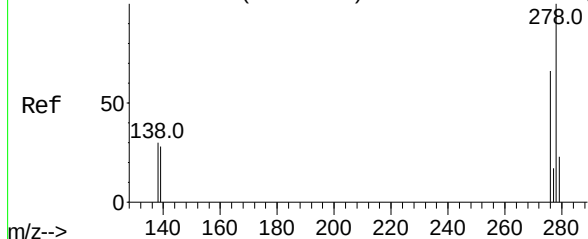
125 95.0 18.2 27.2#



Abundance Scan 2660 (22.736 min): BN034839.D\data.ms (-2597) (-)



Abundance Scan 3629 (25.560 min): BN034742.D\data.ms (-3629) (-)



Dibenzo(a,h)anthracene

Concen: 0.021 ng

RT: 25.531 min Scan# 3616

Delta R.T. -0.029 min

Lab File: BN034839.D

Acq: 04 Nov 2024 14:55

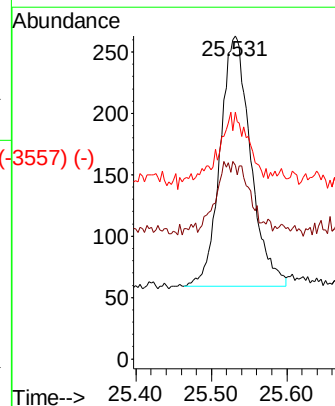
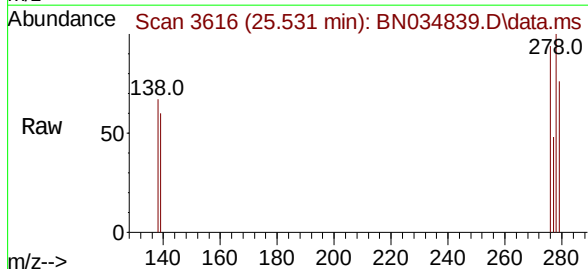
Tgt Ion:278 Resp: 575

Ion Ratio Lower Upper

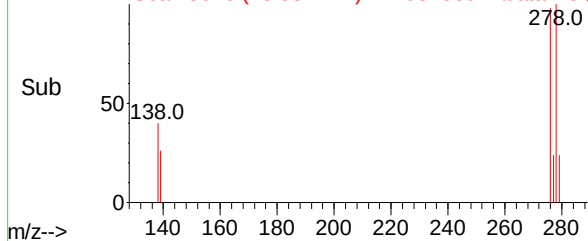
278 100

139 60.1 24.9 37.3#

279 76.4 21.0 31.4#



Abundance Scan 3616 (25.531 min): BN034839.D\data.ms (-3557) (-)



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110424\
 Data File : BN034840.D
 Acq On : 04 Nov 2024 15:31
 Operator : RC/JU
 Sample : P4652-02
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RW5-SP201-50-20241030

Quant Time: Nov 04 16:08:30 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 30 13:28:24 2024
 Response via : Initial Calibration

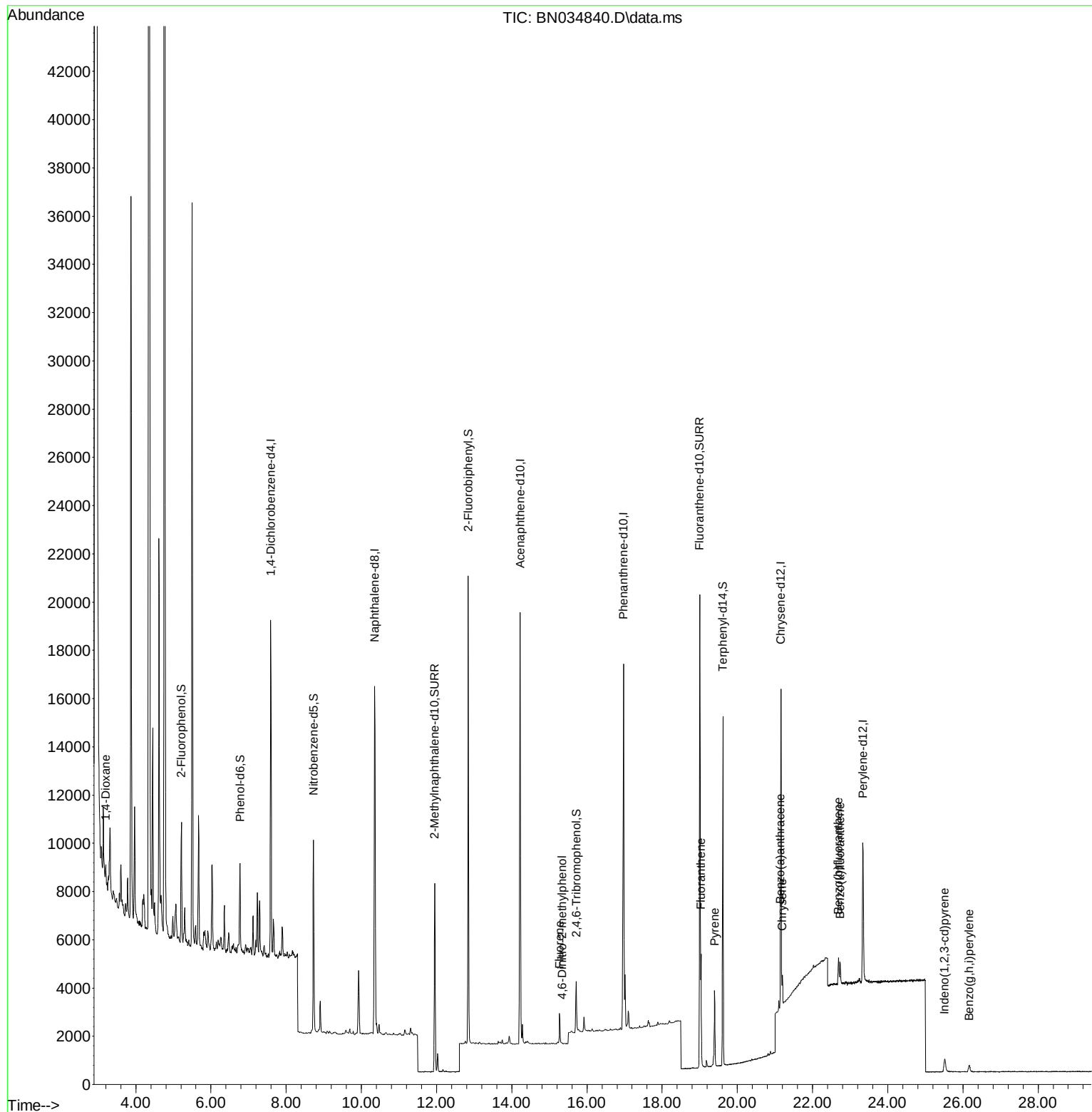
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.589	152	6345	0.400	ng	-0.01
7) Naphthalene-d8	10.351	136	18925	0.400	ng	#-0.02
13) Acenaphthene-d10	14.222	164	9397	0.400	ng	-0.01
19) Phenanthrene-d10	16.970	188	18708	0.400	ng	-0.01
29) Chrysene-d12	21.160	240	10340	0.400	ng	#-0.02
35) Perylene-d12	23.338	264	7618	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.213	112	3693	0.192	ng	0.00
5) Phenol-d6	6.773	99	3236	0.130	ng	0.00
8) Nitrobenzene-d5	8.728	82	6185	0.416	ng	-0.01
11) 2-Methylnaphthalene-d10	11.950	152	10220	0.373	ng	-0.02
14) 2,4,6-Tribromophenol	15.716	330	1154	0.249	ng	-0.01
15) 2-Fluorobiphenyl	12.843	172	16254	0.439	ng	-0.02
27) Fluoranthene-d10	19.001	212	19026	0.434	ng	-0.01
31) Terphenyl-d14	19.614	244	11843	0.533	ng	-0.01
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.198	88	455	0.065	ng	# 1
18) Fluorene	15.270	166	851	0.022	ng	# 98
20) 4,6-Dinitro-2-methylph...	15.345	198	3	0.181	ng	# 1
28) Fluoranthene	19.034	202	3736	0.062	ng	96
30) Pyrene	19.396	202	2579	0.048	ng	98
32) Benzo(a)anthracene	21.142	228	900	0.022	ng	# 89
33) Chrysene	21.196	228	921	0.023	ng	# 90
36) Indeno(1,2,3-cd)pyrene	25.513	276	750	0.027	ng	98
37) Benzo(b)fluoranthene	22.689	252	1336	0.044	ng	# 12
38) Benzo(k)fluoranthene	22.736	252	998	0.033	ng	# 2
41) Benzo(g,h,i)perylene	26.171	276	489	0.021	ng	# 38

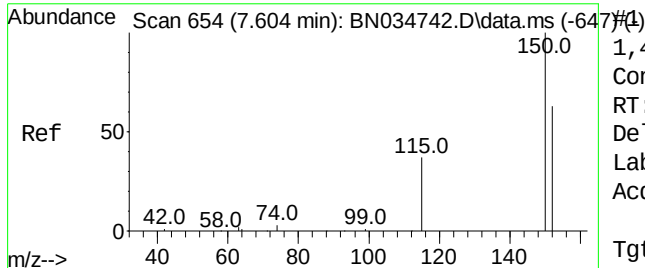
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110424\
Data File : BN034840.D
Acq On : 04 Nov 2024 15:31
Operator : RC/JU
Sample : P4652-02
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW5-SP201-50-20241030

Quant Time: Nov 04 16:08:30 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 30 13:28:24 2024
Response via : Initial Calibration

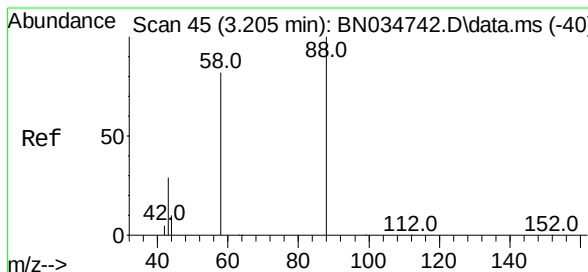
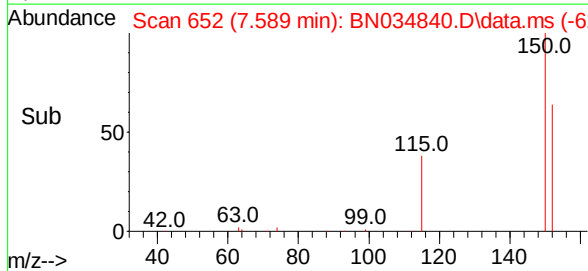
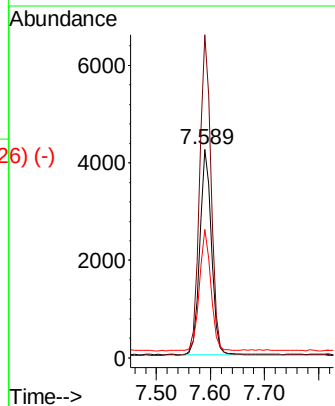
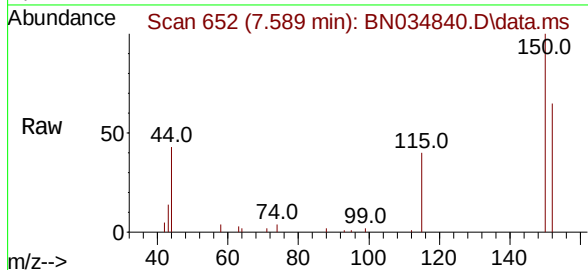




1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.589 min Scan#
Delta R.T. -0.015 min
Lab File: BN034840.D
Acq: 04 Nov 2024 15:31

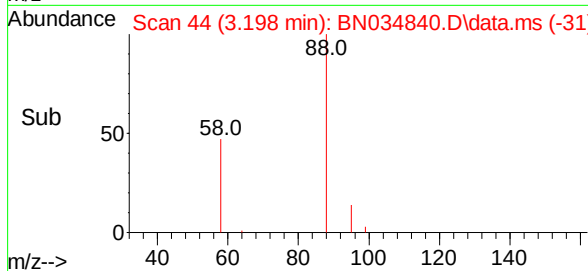
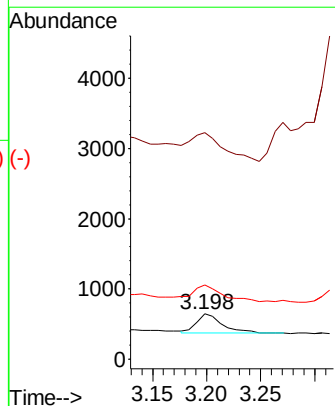
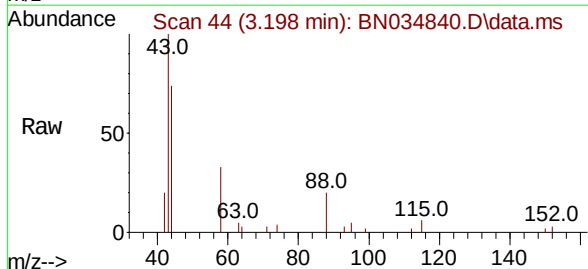
Instrument :
BNA_N
ClientSampleId :
RW5-SP201-50-20241030

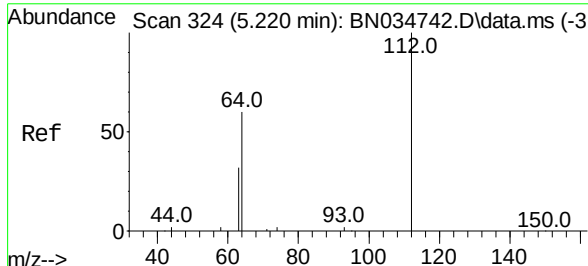
Tgt Ion:152 Resp: 6345
Ion Ratio Lower Upper
152 100
150 154.8 124.9 187.3
115 61.5 50.2 75.2



1,4-Dioxane
Concen: 0.065 ng
RT: 3.198 min Scan# 44
Delta R.T. -0.007 min
Lab File: BN034840.D
Acq: 04 Nov 2024 15:31

Tgt Ion: 88 Resp: 455
Ion Ratio Lower Upper
88 100
43 187.7 26.7 40.1#
58 98.5 59.3 88.9#





2-Fluorophenol

Concen: 0.192 ng

RT: 5.213 min Scan# 1

Delta R.T. -0.007 min

Lab File: BN034840.D

Acq: 04 Nov 2024 15:31

Instrument :

BNA_N

ClientSampleId :

RW5-SP201-50-20241030

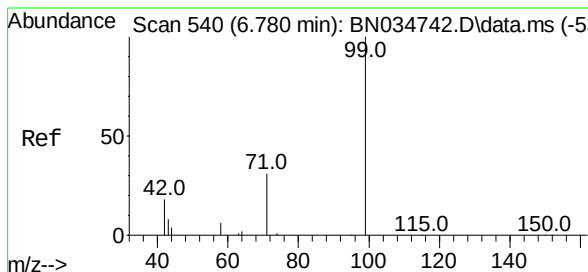
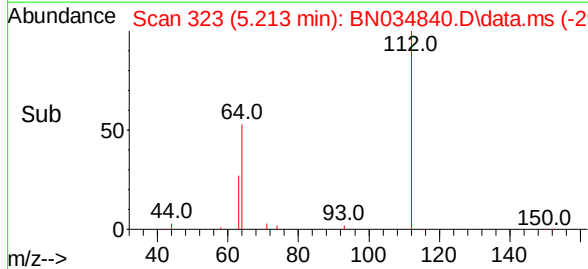
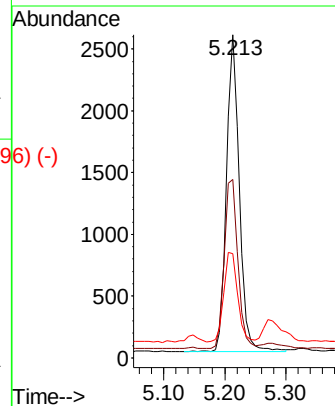
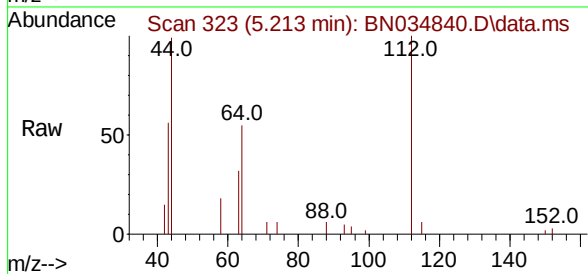
Tgt Ion: 112 Resp: 3693

Ion Ratio Lower Upper

112 100

64 56.2 44.9 67.3

63 30.7 23.5 35.3



Phenol-d6

Concen: 0.130 ng

RT: 6.773 min Scan# 539

Delta R.T. -0.007 min

Lab File: BN034840.D

Acq: 04 Nov 2024 15:31

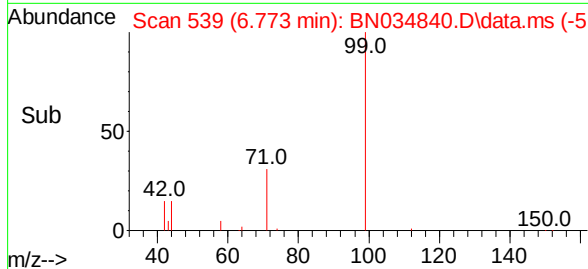
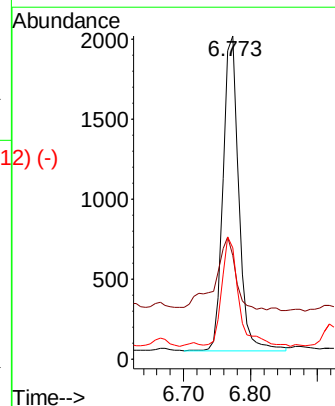
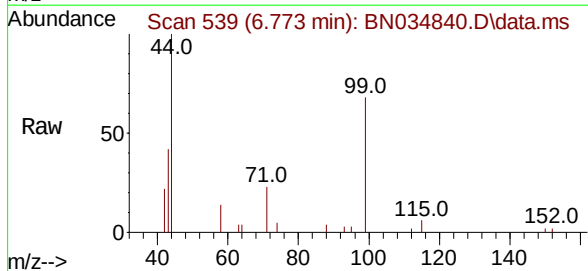
Tgt Ion: 99 Resp: 3236

Ion Ratio Lower Upper

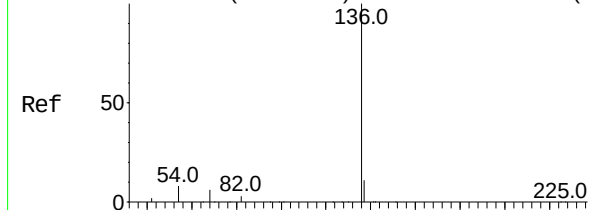
99 100

42 30.2 15.9 23.9#

71 37.6 24.3 36.5#



Abundance Scan 945 (10.372 min): BN034742.D\data.ms (-936) (-)



Naphthalene-d8

Concen: 0.400 ng

RT: 10.351 min Scan#

Delta R.T. -0.021 min

Lab File: BN034840.D

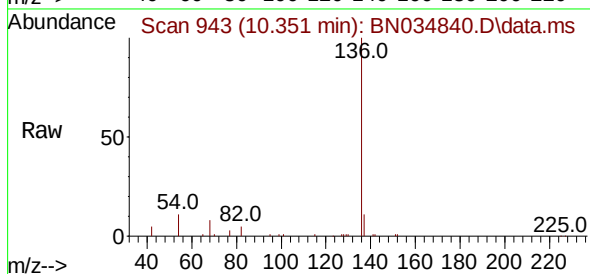
Acq: 04 Nov 2024 15:31

Instrument :

BNA_N

ClientSampleId :

RW5-SP201-50-20241030



Tgt Ion: 136 Resp: 18925

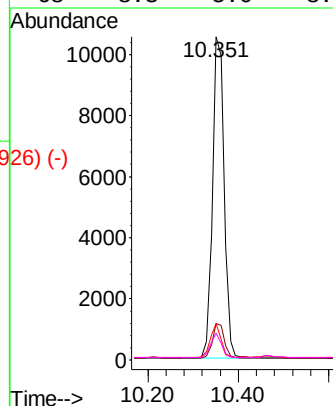
Ion Ratio Lower Upper

136 100

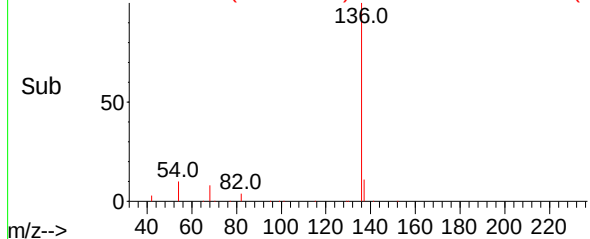
137 11.3 9.2 13.8

54 11.2 7.0 10.4#

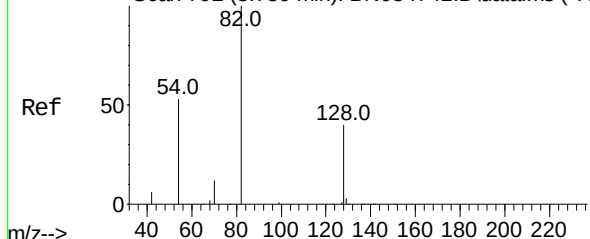
68 8.3 5.6 8.4



Abundance Scan 943 (10.351 min): BN034840.D\data.ms (-926) (-)



Abundance Scan 792 (8.739 min): BN034742.D\data.ms (-789) (-)



Nitrobenzene-d5

Concen: 0.416 ng

RT: 8.728 min Scan# 791

Delta R.T. -0.011 min

Lab File: BN034840.D

Acq: 04 Nov 2024 15:31

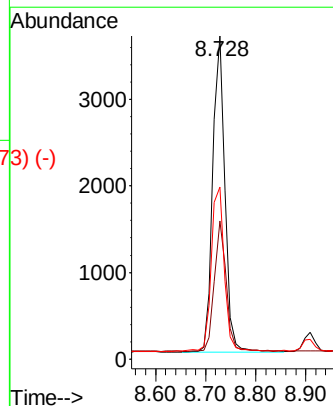
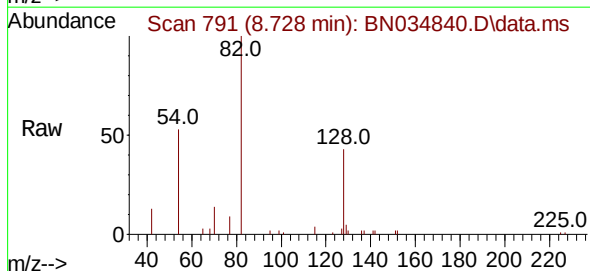
Tgt Ion: 82 Resp: 6185

Ion Ratio Lower Upper

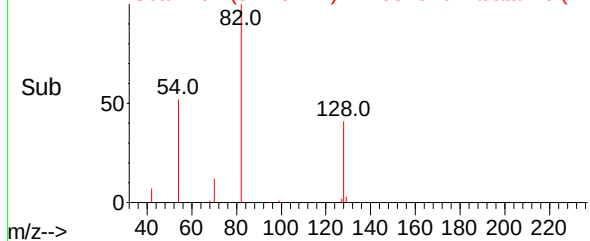
82 100

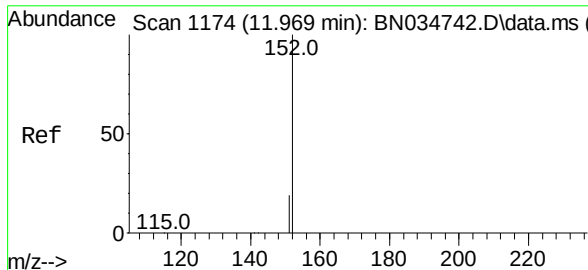
128 42.7 33.7 50.5

54 53.3 44.4 66.6



Abundance Scan 791 (8.728 min): BN034840.D\data.ms (-773) (-)

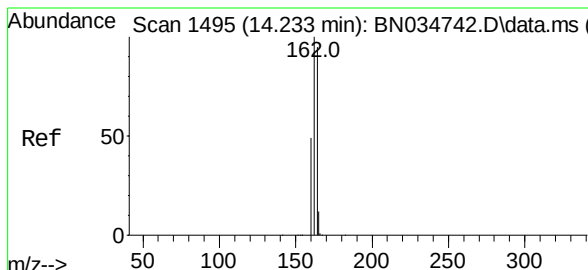
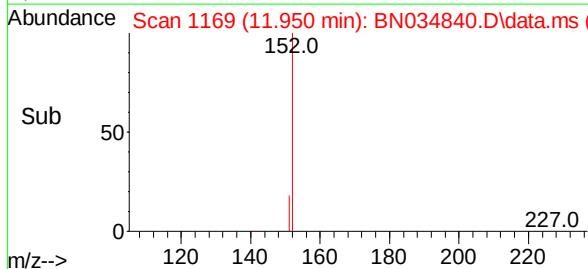
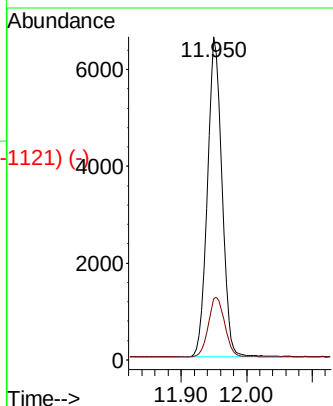
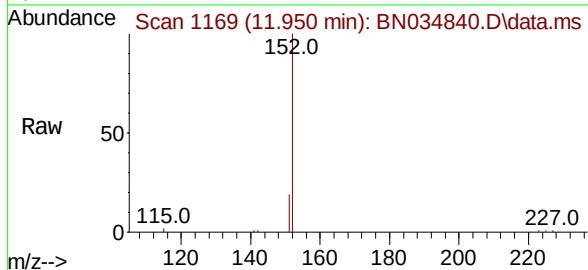




2-Methylnaphthalene-d10
Concen: 0.373 ng
RT: 11.950 min Scan# 1169
Delta R.T. -0.019 min
Lab File: BN034840.D
Acq: 04 Nov 2024 15:31

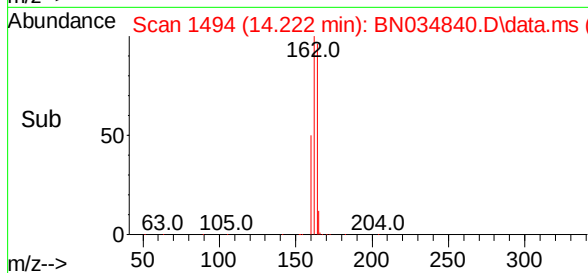
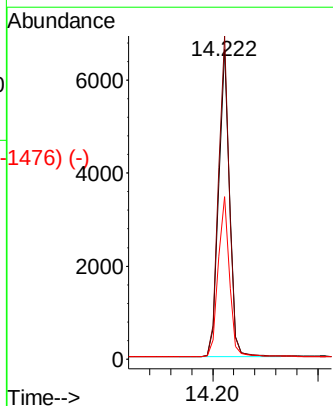
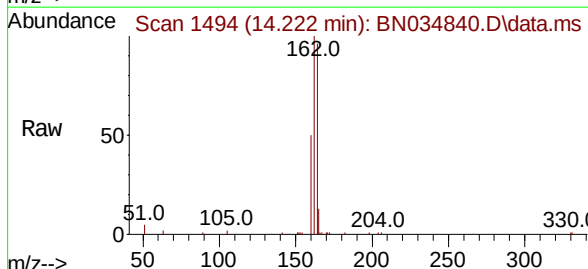
Instrument :
BNA_N
ClientSampleId :
RW5-SP201-50-20241030

Tgt Ion:152 Resp: 10220
Ion Ratio Lower Upper
152 100
151 21.0 16.6 24.8



Acenaphthene-d10
Concen: 0.400 ng
RT: 14.222 min Scan# 1494
Delta R.T. -0.011 min
Lab File: BN034840.D
Acq: 04 Nov 2024 15:31

Tgt Ion:164 Resp: 9397
Ion Ratio Lower Upper
164 100
162 104.4 84.3 126.5
160 52.4 41.7 62.5



Abundance Scan 1632 (15.728 min): BN034742.D\data.ms (-1628) (-)

2,4,6-Tribromophenol

Concen: 0.249 ng

RT: 15.716 min Scan# 1631

Delta R.T. -0.012 min

Lab File: BN034840.D

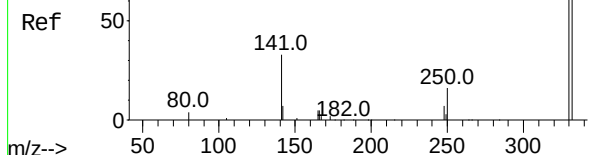
Acq: 04 Nov 2024 15:31

Instrument :

BNA_N

ClientSampleId :

RW5-SP201-50-20241030



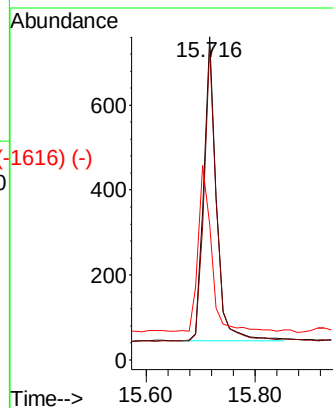
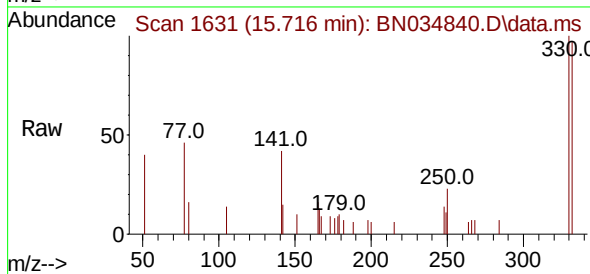
Tgt Ion:330 Resp: 1154

Ion Ratio Lower Upper

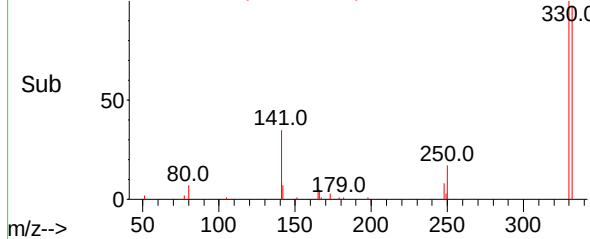
330 100

332 95.1 77.8 116.6

141 56.9 41.0 61.4



Abundance Scan 1631 (15.716 min): BN034840.D\data.ms (-1616) (-)



Abundance Scan 1367 (12.864 min): BN034742.D\data.ms (-1615) (-)

2-Fluorobiphenyl

Concen: 0.439 ng

RT: 12.843 min Scan# 1365

Delta R.T. -0.021 min

Lab File: BN034840.D

Acq: 04 Nov 2024 15:31

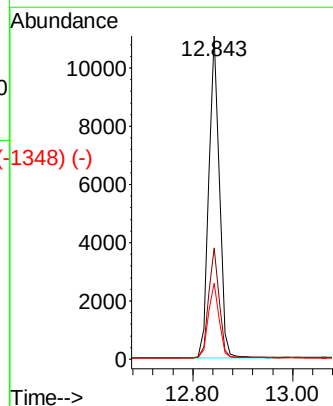
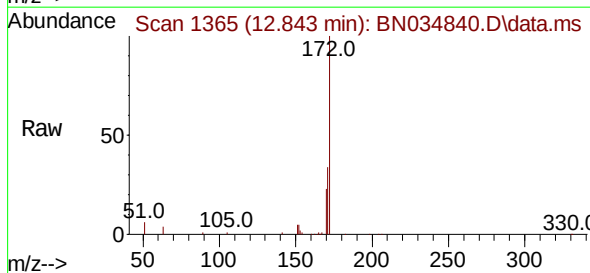
Tgt Ion:172 Resp: 16254

Ion Ratio Lower Upper

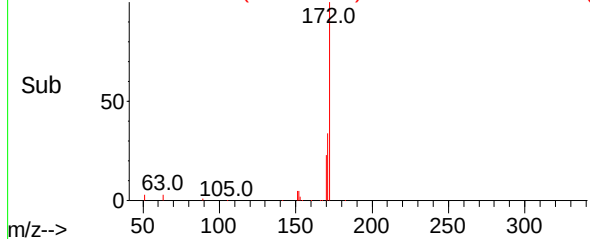
172 100

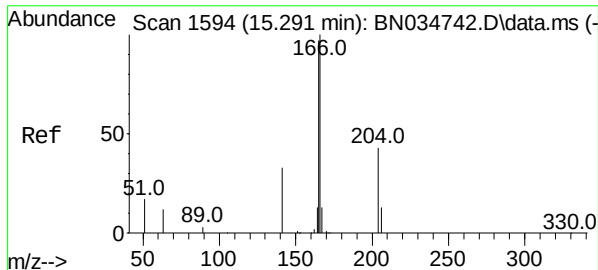
171 34.4 27.2 40.8

170 23.5 18.0 27.0



Abundance Scan 1365 (12.843 min): BN034840.D\data.ms (-1348) (-)





#18 (-)

Fluorene

Concen: 0.022 ng

RT: 15.270 min Scan# 1594

Delta R.T. -0.021 min

Lab File: BN034840.D

Acq: 04 Nov 2024 15:31

Instrument :

BNA_N

ClientSampleId :

RW5-SP201-50-20241030

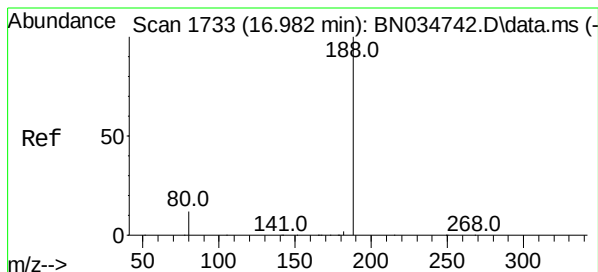
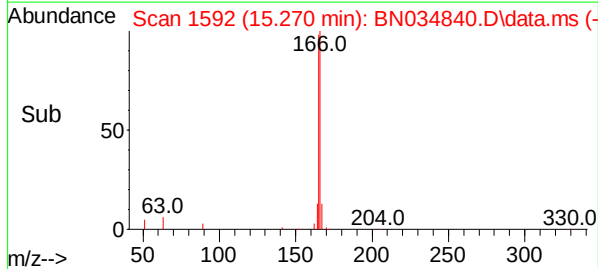
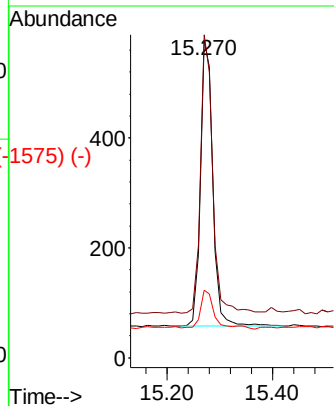
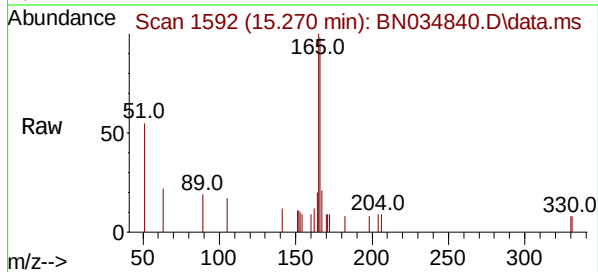
Tgt Ion:166 Resp: 851

Ion Ratio Lower Upper

166 100

165 96.6 78.5 117.7

167 16.2 10.8 16.2#



#19 (-)

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.970 min Scan# 1732

Delta R.T. -0.012 min

Lab File: BN034840.D

Acq: 04 Nov 2024 15:31

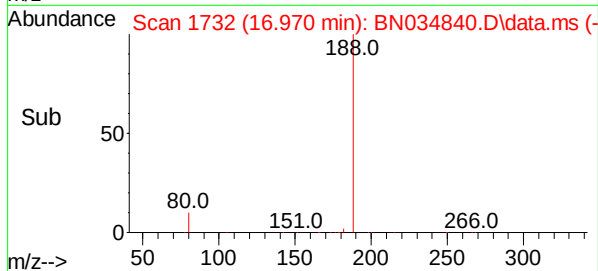
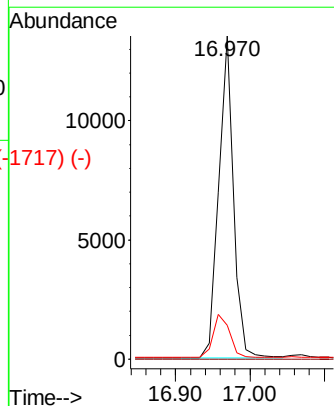
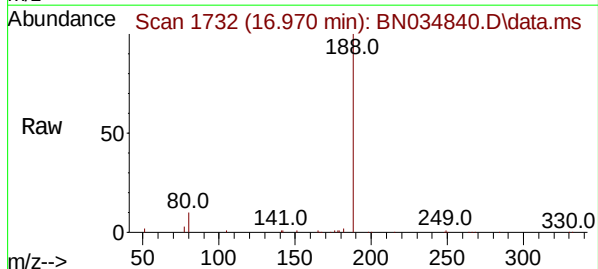
Tgt Ion:188 Resp: 18708

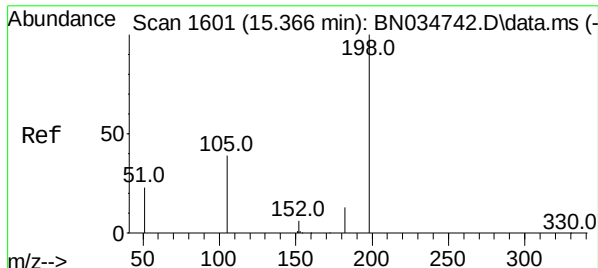
Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.5 9.8 14.6

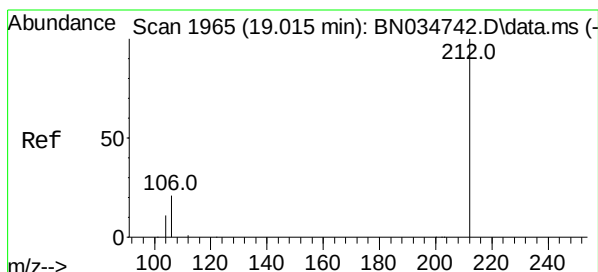
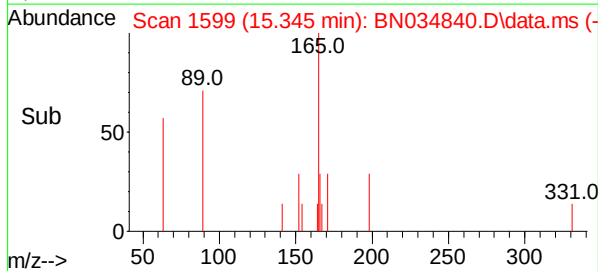
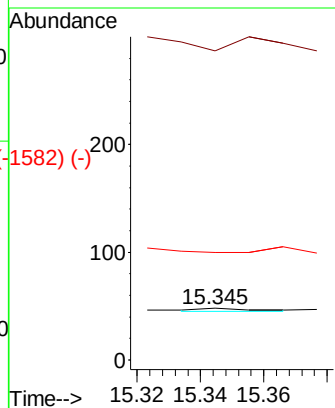
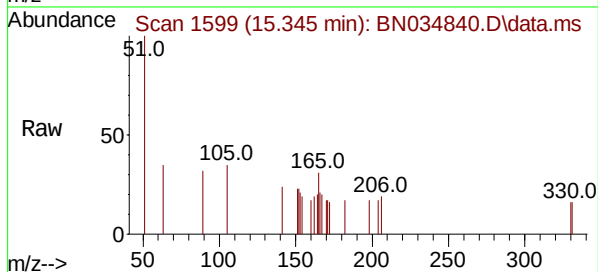




4,6-Dinitro-2-methylphenol
Concen: 0.181 ng
RT: 15.345 min Scan# 1599
Delta R.T. -0.021 min
Lab File: BN034840.D
Acq: 04 Nov 2024 15:31

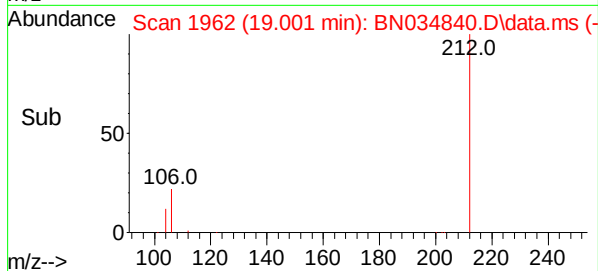
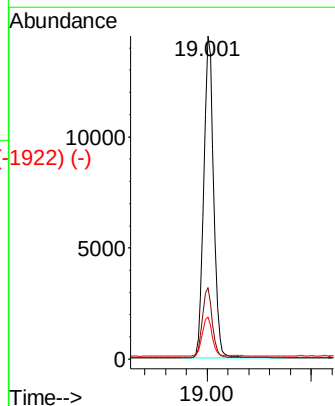
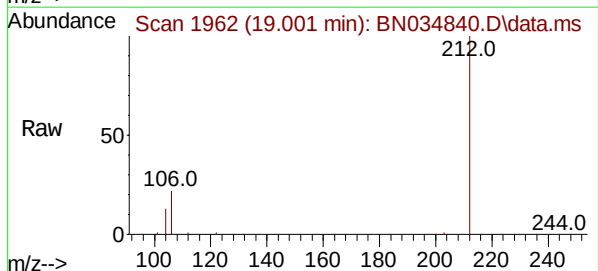
Instrument :
BNA_N
ClientSampleId :
RW5-SP201-50-20241030

Tgt Ion:	198	Resp:	3
Ion	Ratio	Lower	Upper
198	100		
51	597.9	58.0	87.0#
105	208.3	49.1	73.7#

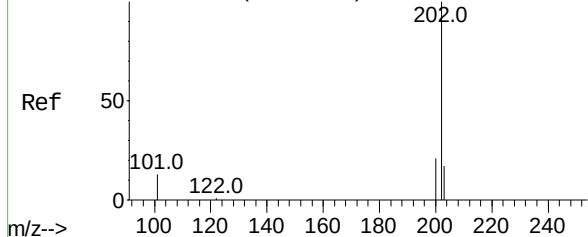


Fluoranthene-d10
Concen: 0.434 ng
RT: 19.001 min Scan# 1962
Delta R.T. -0.014 min
Lab File: BN034840.D
Acq: 04 Nov 2024 15:31

Tgt Ion:	212	Resp:	19026
Ion	Ratio	Lower	Upper
212	100		
106	21.5	16.1	24.1
104	12.3	9.2	13.8



Abundance Scan 1972 (19.048 min): BN034742.D\data.ms (-1929) (-)



Fluoranthene

Concen: 0.062 ng

RT: 19.034 min Scan# 1929

Delta R.T. -0.014 min

Lab File: BN034840.D

Acq: 04 Nov 2024 15:31

Instrument :

BNA_N

ClientSampleId :

RW5-SP201-50-20241030

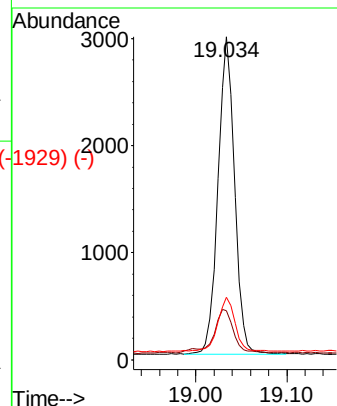
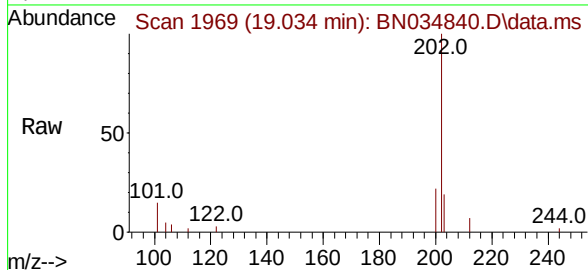
Tgt Ion:202 Resp: 3736

Ion Ratio Lower Upper

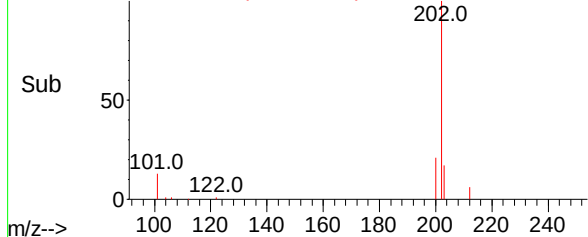
202 100

101 16.3 11.4 17.0

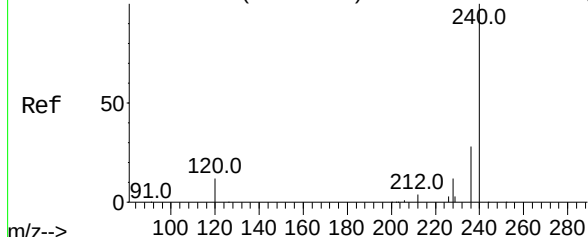
203 18.0 13.7 20.5



Abundance Scan 1969 (19.034 min): BN034840.D\data.ms (-1929) (-)



Abundance Scan 2413 (21.178 min): BN034742.D\data.ms (-2429) (-)



Chrysene-d12

Concen: 0.400 ng

RT: 21.160 min Scan# 2411

Delta R.T. -0.018 min

Lab File: BN034840.D

Acq: 04 Nov 2024 15:31

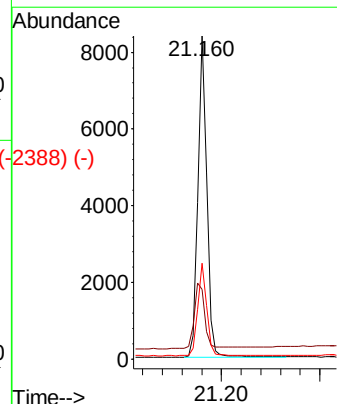
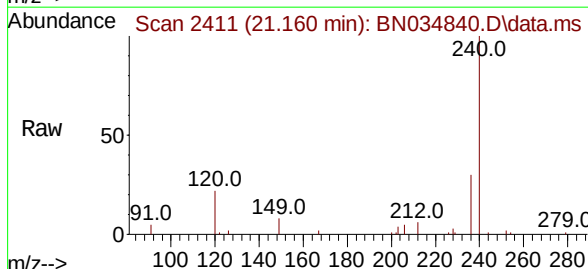
Tgt Ion:240 Resp: 10340

Ion Ratio Lower Upper

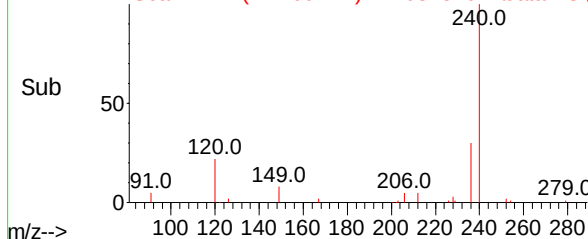
240 100

120 21.6 11.5 17.3#

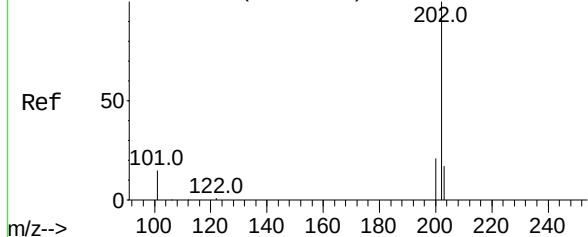
236 29.7 23.2 34.8



Abundance Scan 2411 (21.160 min): BN034840.D\data.ms (-2388) (-)



Abundance Scan 2050 (19.410 min): BN034742.D\data.ms (-2039) (-)



Pyrene

Concen: 0.048 ng

RT: 19.396 min Scan# 1

Delta R.T. -0.014 min

Lab File: BN034840.D

Acq: 04 Nov 2024 15:31

Instrument :

BNA_N

ClientSampleId :

RW5-SP201-50-20241030

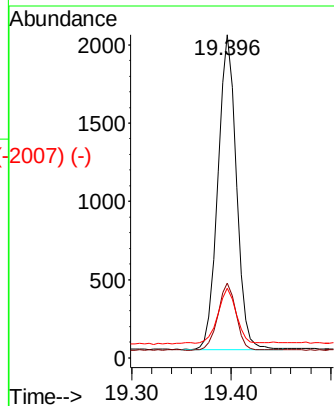
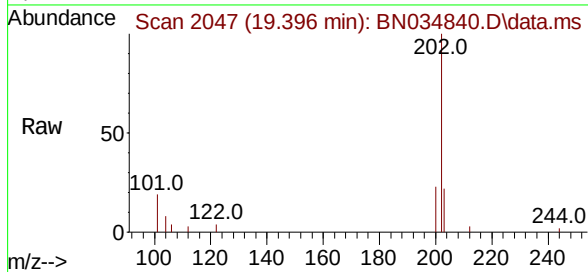
Tgt Ion:202 Resp: 2579

Ion Ratio Lower Upper

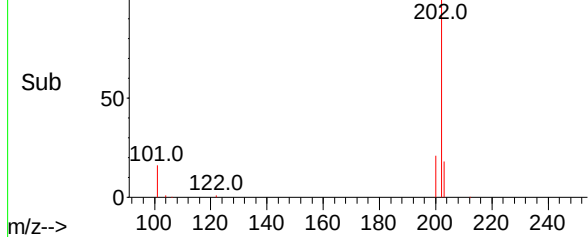
202 100

200 21.3 17.0 25.4

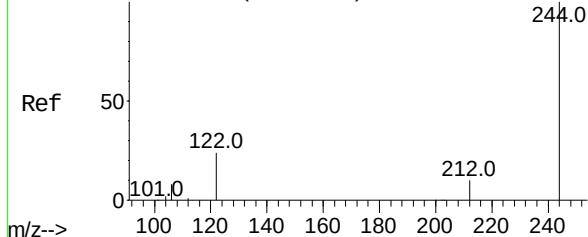
203 19.1 14.2 21.2



Abundance Scan 2047 (19.396 min): BN034840.D\data.ms (-2007) (-)



Abundance Scan 2097 (19.628 min): BN034742.D\data.ms (-2039) (-)



Terphenyl-d14

Concen: 0.533 ng

RT: 19.614 min Scan# 2094

Delta R.T. -0.014 min

Lab File: BN034840.D

Acq: 04 Nov 2024 15:31

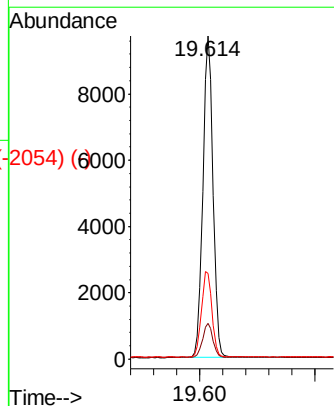
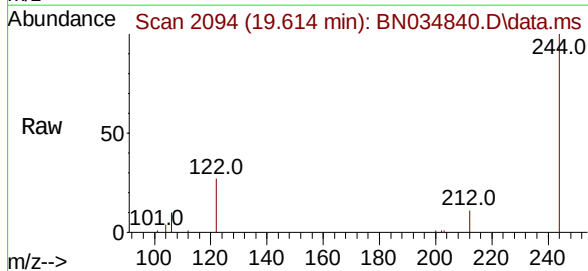
Tgt Ion:244 Resp: 11843

Ion Ratio Lower Upper

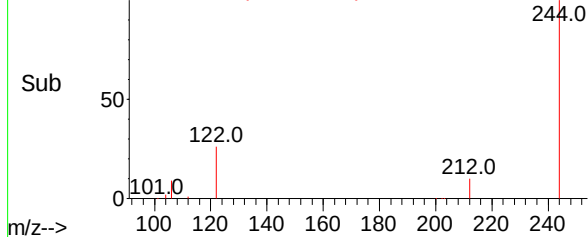
244 100

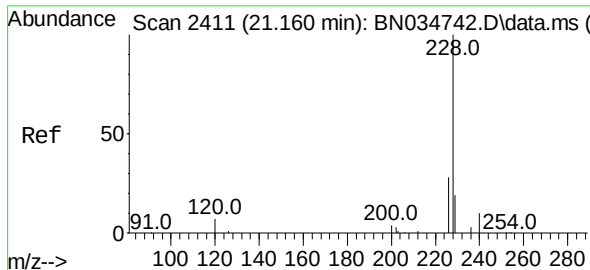
212 11.0 8.2 12.4

122 26.5 19.8 29.6



Abundance Scan 2094 (19.614 min): BN034840.D\data.ms (-2054) (-)

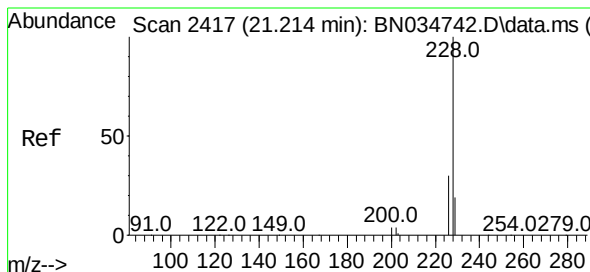
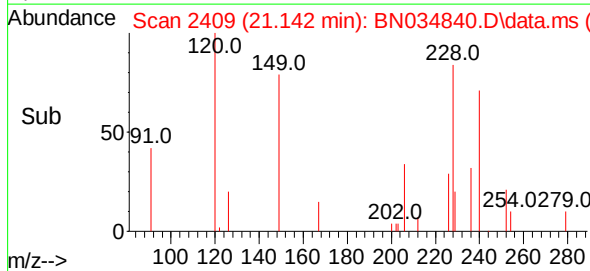
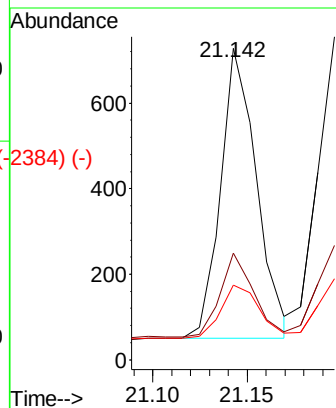
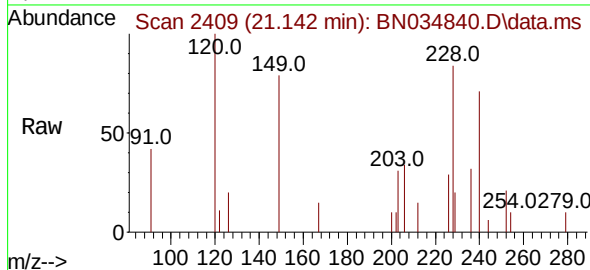




Benzo(a)anthracene
Concen: 0.022 ng
RT: 21.142 min Scan# 2409
Delta R.T. -0.018 min
Lab File: BN034840.D
Acq: 04 Nov 2024 15:31

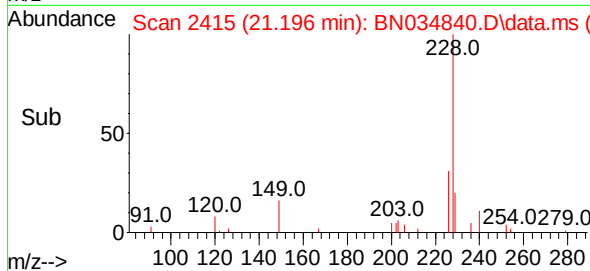
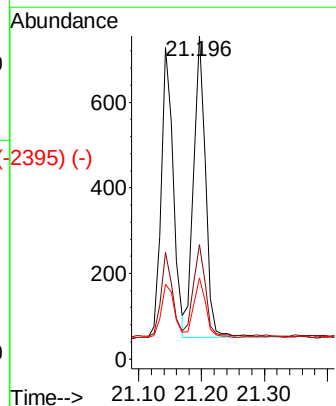
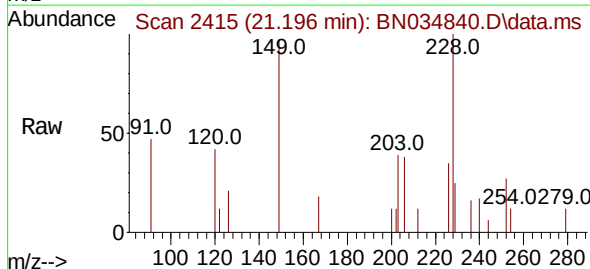
Instrument :
BNA_N
ClientSampleId :
RW5-SP201-50-20241030

Tgt Ion:	228	Resp:	900
Ion	Ratio	Lower	Upper
228	100		
226	34.3	22.6	33.8#
229	24.0	15.7	23.5#



Chrysene
Concen: 0.023 ng
RT: 21.196 min Scan# 2415
Delta R.T. -0.018 min
Lab File: BN034840.D
Acq: 04 Nov 2024 15:31

Tgt Ion:	228	Resp:	921
Ion	Ratio	Lower	Upper
228	100		
226	35.4	24.4	36.6
229	25.0	15.6	23.4#



Abundance Scan 2877 (23.361 min): BN034742.D\data.ms (-2635) (-)

Perylene-d12

Concen: 0.400 ng

RT: 23.338 min Scan# 1

Delta R.T. -0.023 min

Lab File: BN034840.D

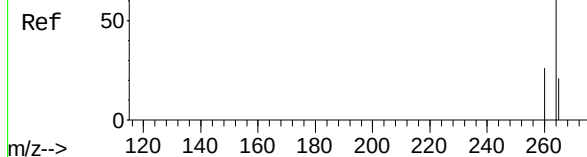
Acq: 04 Nov 2024 15:31

Instrument :

BNA_N

ClientSampleId :

RW5-SP201-50-20241030



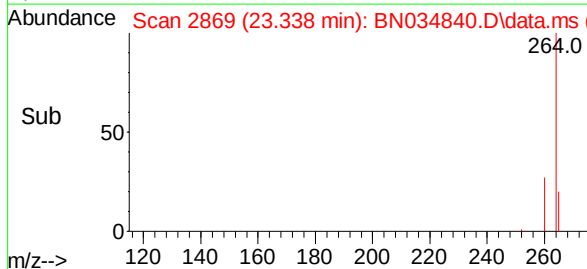
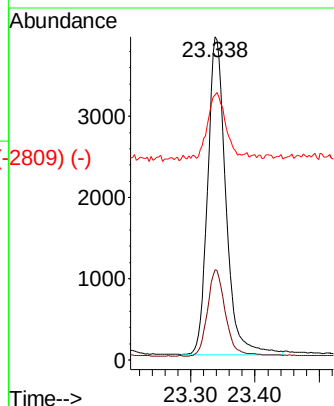
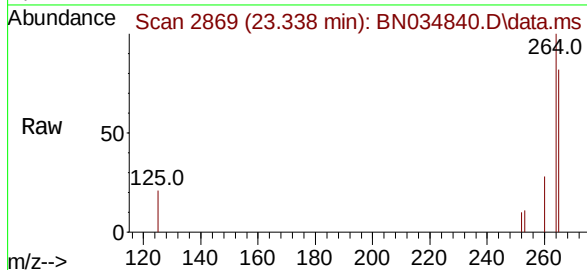
Tgt Ion:264 Resp: 7618

Ion Ratio Lower Upper

264 100

260 28.0 21.5 32.3

265 82.1 47.5 71.3#



Abundance Scan 3621 (25.536 min): BN034742.D\data.ms (-3536) (-)

Indeno(1,2,3-cd)pyrene

Concen: 0.027 ng

RT: 25.513 min Scan# 3613

Delta R.T. -0.023 min

Lab File: BN034840.D

Acq: 04 Nov 2024 15:31

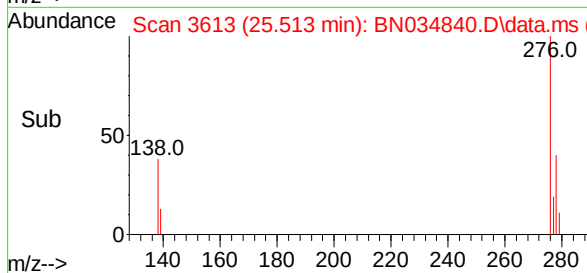
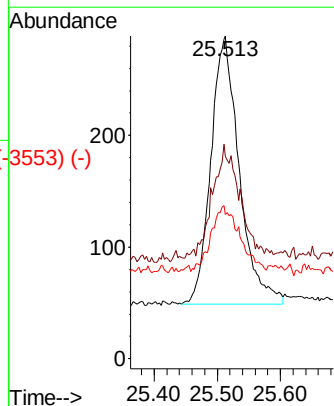
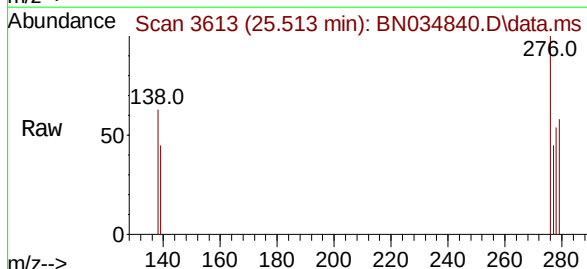
Tgt Ion:276 Resp: 750

Ion Ratio Lower Upper

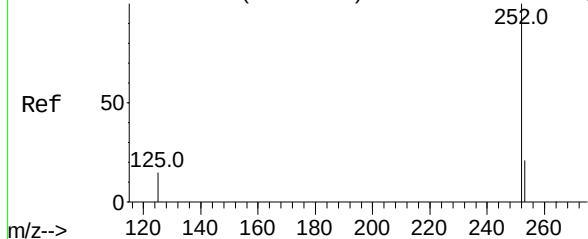
276 100

138 40.8 31.5 47.3

277 24.3 19.7 29.5



Abundance Scan 2654 (22.709 min): BN034742.D\data.ms (-2587) (-)



Benzo(b)fluoranthene

Concen: 0.044 ng

RT: 22.689 min Scan# 2647

Delta R.T. -0.020 min

Lab File: BN034840.D

Acq: 04 Nov 2024 15:31

Instrument :

BN034840.D

ClientSampleId :

RW5-SP201-50-20241030

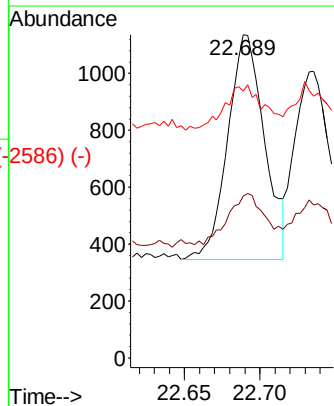
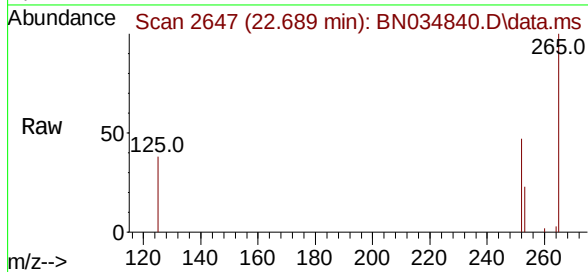
Tgt Ion:252 Resp: 1336

Ion Ratio Lower Upper

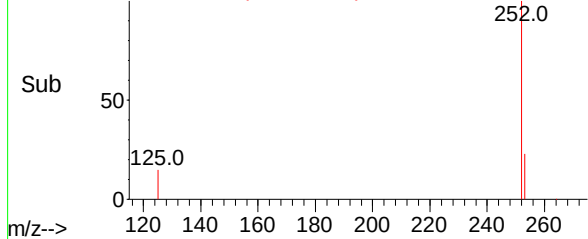
252 100

253 50.2 19.7 29.5#

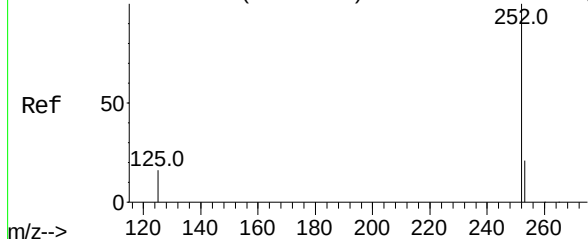
125 82.7 17.1 25.7#



Abundance Scan 2647 (22.689 min): BN034840.D\data.ms (-2586) (-)



Abundance Scan 2669 (22.753 min): BN034742.D\data.ms (-2662) (-)



Benzo(k)fluoranthene

Concen: 0.033 ng

RT: 22.736 min Scan# 2663

Delta R.T. -0.018 min

Lab File: BN034840.D

Acq: 04 Nov 2024 15:31

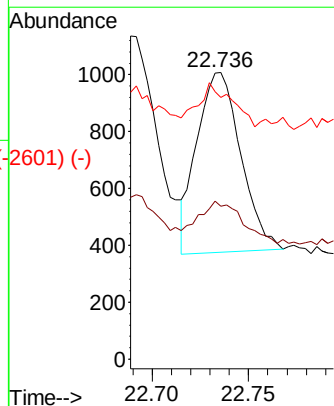
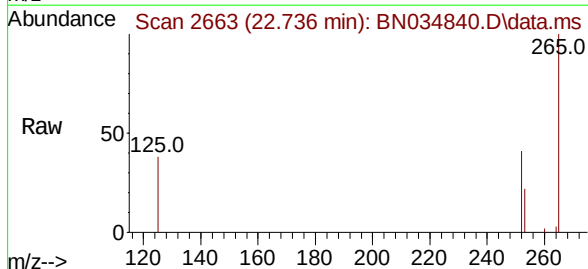
Tgt Ion:252 Resp: 998

Ion Ratio Lower Upper

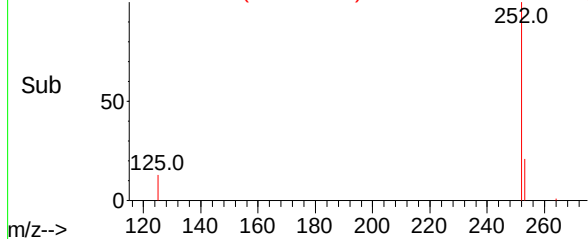
252 100

253 53.3 19.8 29.6#

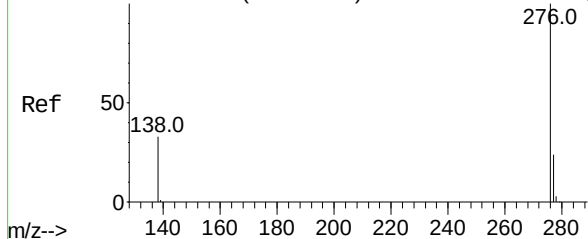
125 91.4 18.2 27.2#



Abundance Scan 2663 (22.736 min): BN034840.D\data.ms (-2601) (-)



Abundance Scan 3847 (26.197 min): BN034742.D\data.ms (-3620) (-)



Benzo(g,h,i)perylene

Concen: 0.021 ng

RT: 26.171 min Scan#

Delta R.T. -0.026 min

Lab File: BN034840.D

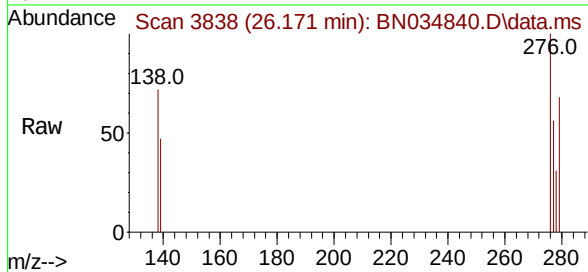
Acq: 04 Nov 2024 15:31

Instrument :

BNA_N

ClientSampleId :

RW5-SP201-50-20241030



Tgt Ion:276 Resp: 489

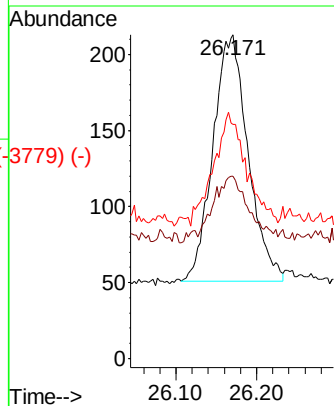
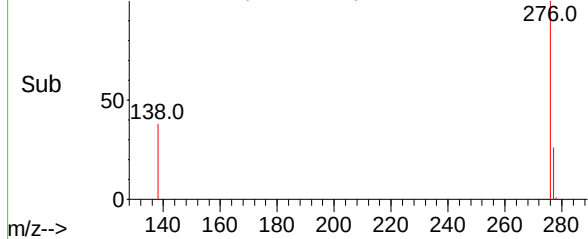
Ion Ratio Lower Upper

276 100

277 56.3 20.2 30.2#

138 72.3 28.7 43.1#

Abundance Scan 3838 (26.171 min): BN034840.D\data.ms (-3779) (-)



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110424\
 Data File : BN034861.D
 Acq On : 05 Nov 2024 04:09
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Nov 05 04:35:52 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 05 00:03:28 2024
 Response via : Initial Calibration

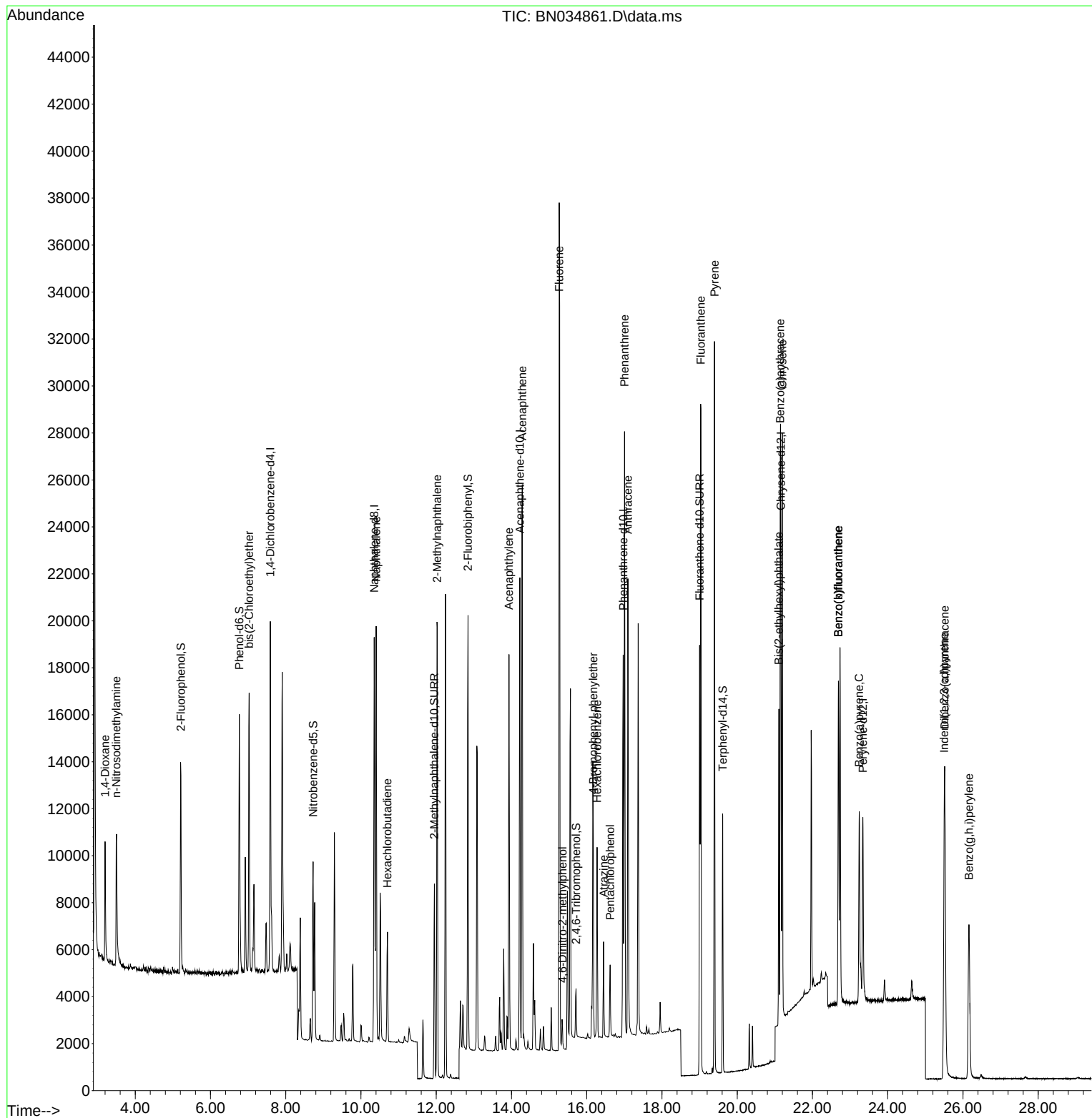
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.589	152	6839	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	21431	0.400	ng	0.00
13) Acenaphthene-d10	14.222	164	10867	0.400	ng	0.00
19) Phenanthrene-d10	16.970	188	21411	0.400	ng	0.00
29) Chrysene-d12	21.160	240	12483	0.400	ng	# 0.00
35) Perylene-d12	23.341	264	9733	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.213	112	7120	0.344	ng	0.00
5) Phenol-d6	6.766	99	9636	0.358	ng	0.00
8) Nitrobenzene-d5	8.728	82	5987	0.355	ng	0.00
11) 2-Methylnaphthalene-d10	11.950	152	10849	0.350	ng	0.00
14) 2,4,6-Tribromophenol	15.716	330	1137	0.212	ng	0.00
15) 2-Fluorobiphenyl	12.843	172	15772	0.368	ng	0.00
27) Fluoranthene-d10	19.001	212	17385	0.346	ng	0.00
31) Terphenyl-d14	19.614	244	9173	0.342	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.198	88	3081	0.411	ng	Qvalue 92
3) n-Nitrosodimethylamine	3.494	42	4138	0.490	ng	# 81
6) bis(2-Chloroethyl)ether	7.026	93	8023	0.408	ng	95
9) Naphthalene	10.404	128	22001	0.371	ng	99
10) Hexachlorobutadiene	10.703	225	3576	0.366	ng	# 99
12) 2-Methylnaphthalene	12.026	142	13519	0.349	ng	99
16) Acenaphthylene	13.933	152	17717	0.325	ng	100
17) Acenaphthene	14.286	154	12570	0.346	ng	95
18) Fluorene	15.270	166	15790	0.349	ng	99
20) 4,6-Dinitro-2-methylph...	15.355	198	711	0.353	ng	# 79
21) 4-Bromophenyl-phenylether	16.175	248	4117	0.332	ng	# 91
22) Hexachlorobenzene	16.275	284	5221	0.376	ng	93
23) Atrazine	16.448	200	2930	0.275	ng	96
24) Pentachlorophenol	16.622	266	1399	0.234	ng	96
25) Phenanthrene	17.007	178	24192	0.384	ng	100
26) Anthracene	17.094	178	20428	0.347	ng	100
28) Fluoranthene	19.034	202	25234	0.364	ng	99
30) Pyrene	19.396	202	25452	0.390	ng	100
32) Benzo(a)anthracene	21.142	228	17648	0.355	ng	99
33) Chrysene	21.196	228	19265	0.396	ng	100
34) Bis(2-ethylhexyl)phtha...	21.107	149	11721	0.282	ng	# 96
36) Indeno(1,2,3-cd)pyrene	25.501	276	14740	0.412	ng	92
37) Benzo(b)fluoranthene	22.689	252	15905	0.406	ng	96
38) Benzo(k)fluoranthene	22.689	252	15905	0.416	ng	97
39) Benzo(a)pyrene	23.241	252	11941	0.369	ng	# 93
40) Dibenzo(a,h)anthracene	25.516	278	11413	0.409	ng	98
41) Benzo(g,h,i)perylene	26.159	276	12092	0.401	ng	95

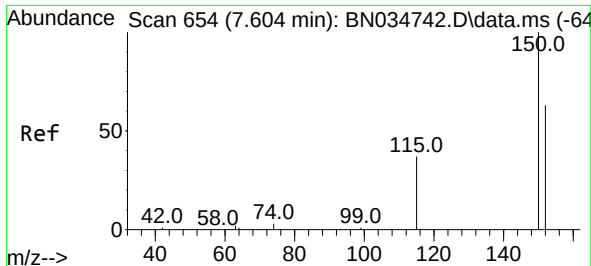
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110424\
Data File : BN034861.D
Acq On : 05 Nov 2024 04:09
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Nov 05 04:35:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 05 00:03:28 2024
Response via : Initial Calibration

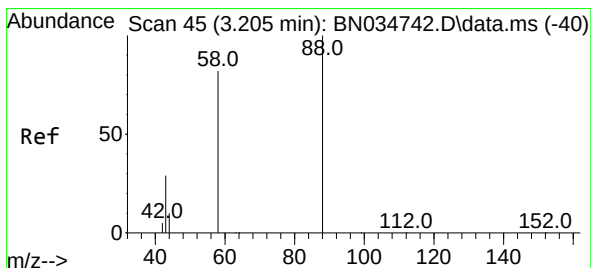
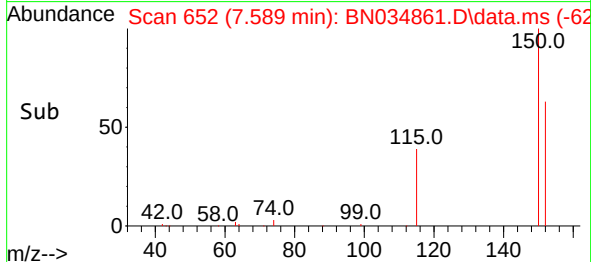
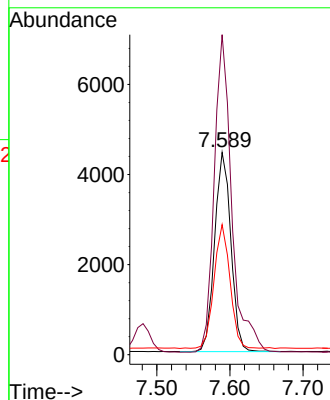
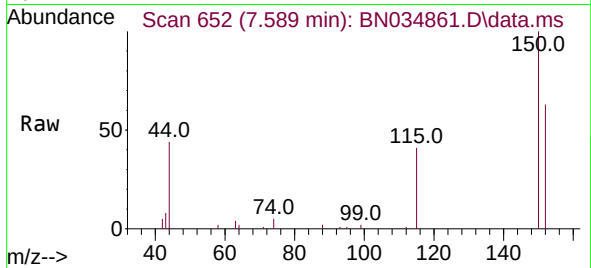




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.589 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

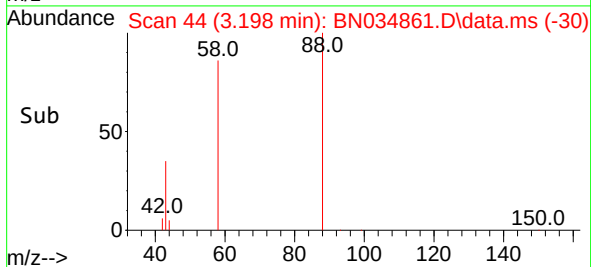
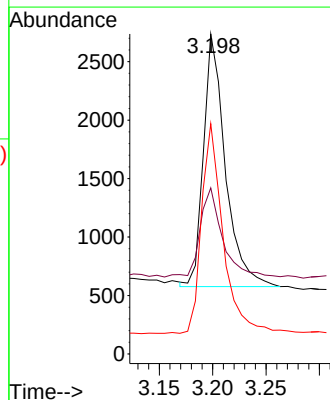
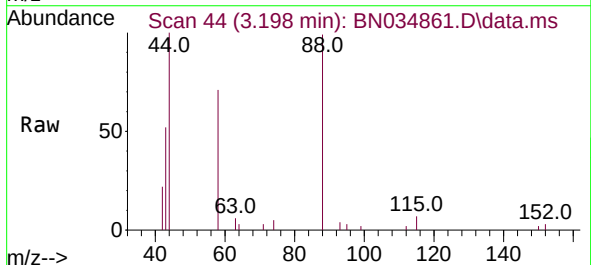
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

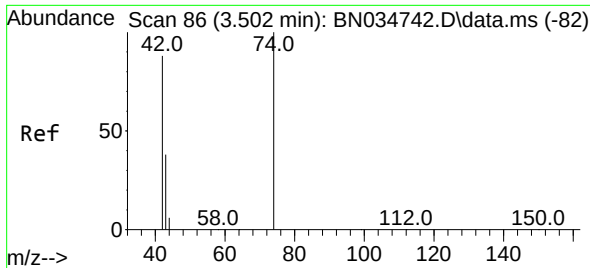
Tgt Ion:152 Resp: 6839
Ion Ratio Lower Upper
152 100
150 158.2 124.9 187.3
115 64.3 50.2 75.2



#2
1,4-Dioxane
Concen: 0.411 ng
RT: 3.198 min Scan# 44
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

Tgt Ion: 88 Resp: 3081
Ion Ratio Lower Upper
88 100
43 35.7 26.7 40.1
58 82.6 59.3 88.9

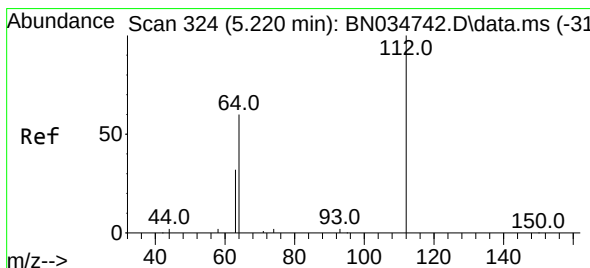
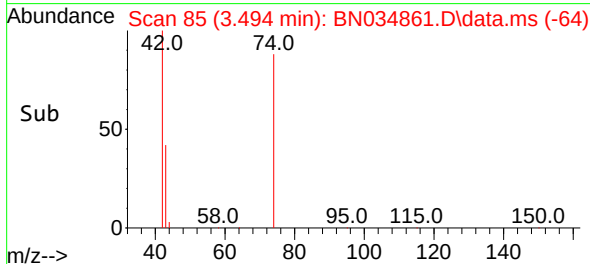
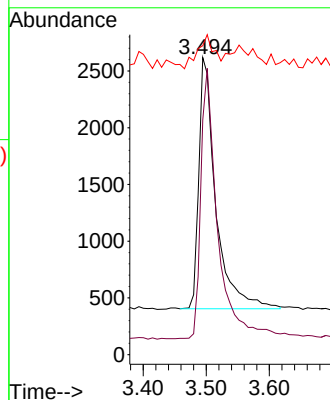
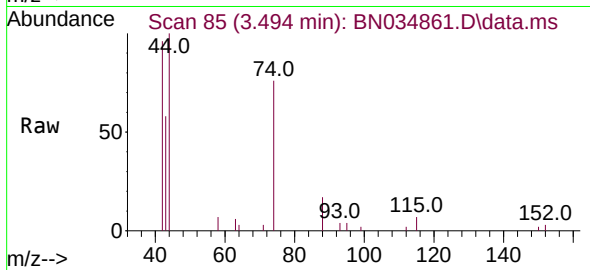




#3
n-Nitrosodimethylamine
Concen: 0.490 ng
RT: 3.494 min Scan# 81
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

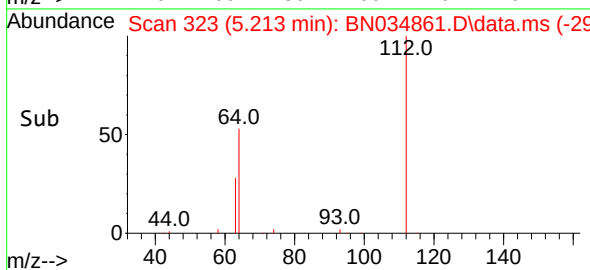
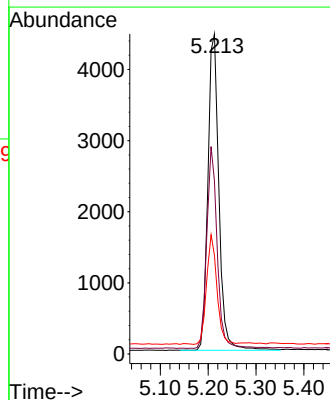
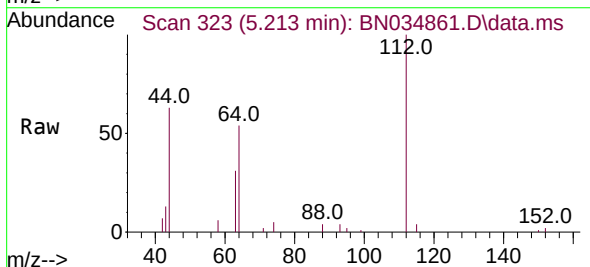
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

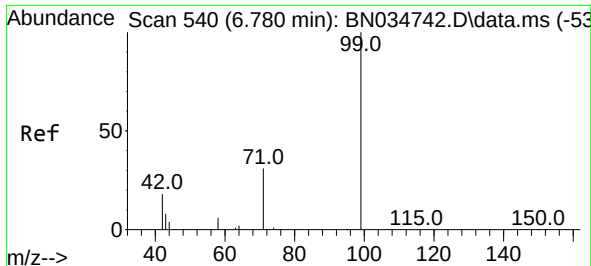
Tgt Ion: 42 Resp: 4138
Ion Ratio Lower Upper
42 100
74 106.6 103.1 154.7
44 12.9 6.7 10.1#



#4
2-Fluorophenol
Concen: 0.344 ng
RT: 5.213 min Scan# 323
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

Tgt Ion: 112 Resp: 7120
Ion Ratio Lower Upper
112 100
64 60.3 44.9 67.3
63 32.5 23.5 35.3

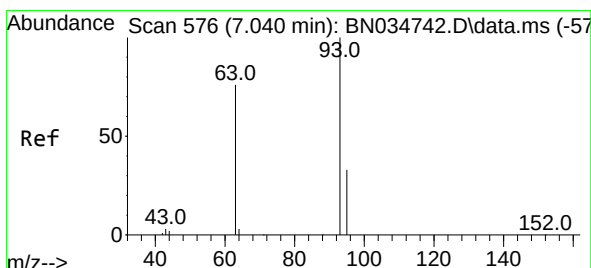
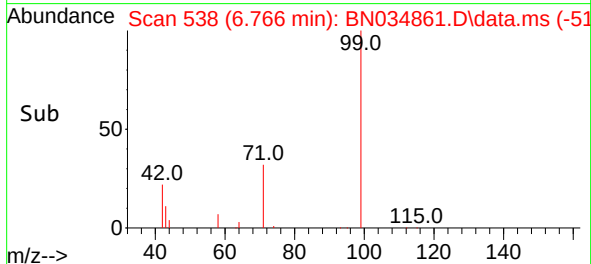
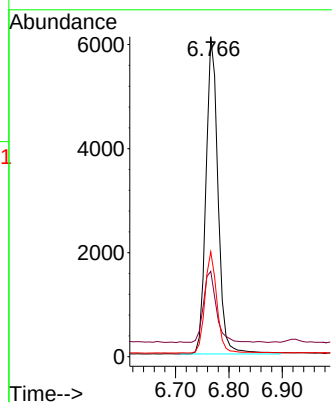
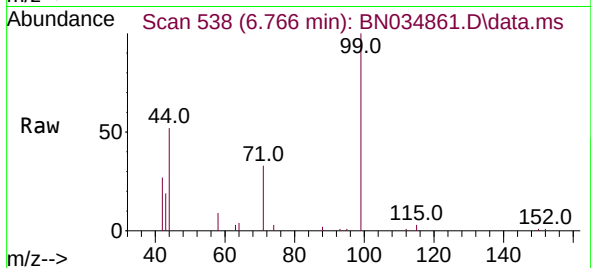




#5
Phenol-d6
Concen: 0.358 ng
RT: 6.766 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

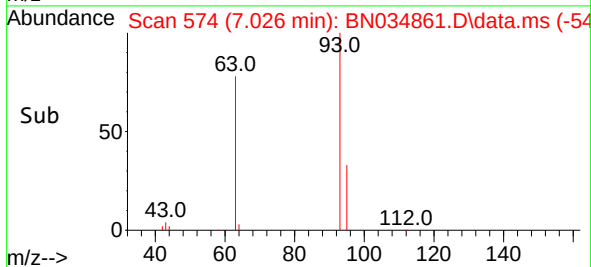
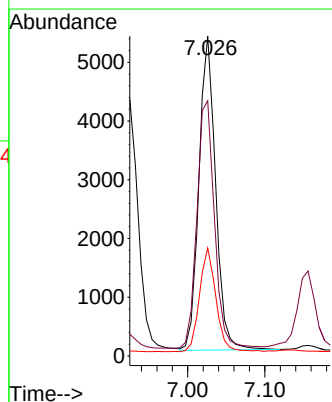
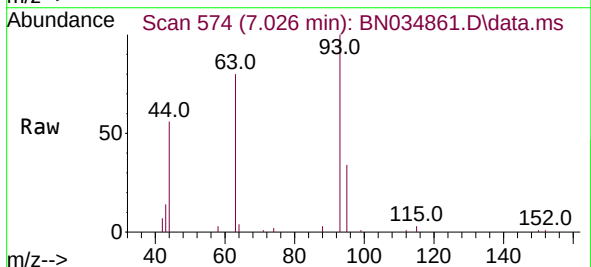
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

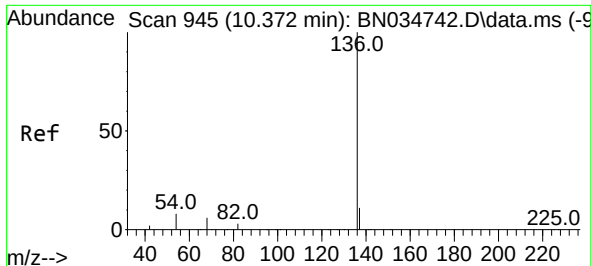
Tgt Ion:	99	Resp:	9636
Ion	Ratio	Lower	Upper
99	100		
42	23.8	15.9	23.9
71	31.9	24.3	36.5



#6
bis(2-Chloroethyl)ether
Concen: 0.408 ng
RT: 7.026 min Scan# 574
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

Tgt Ion:	93	Resp:	8023
Ion	Ratio	Lower	Upper
93	100		
63	82.9	61.2	91.8
95	32.5	25.8	38.8

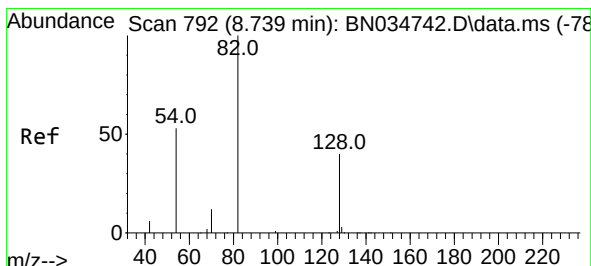
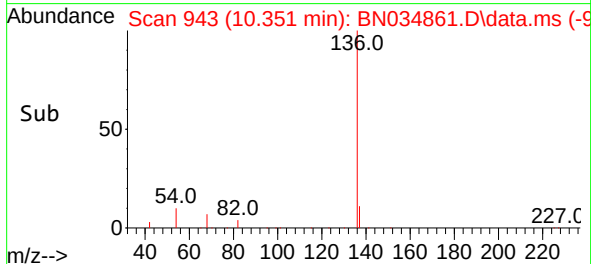
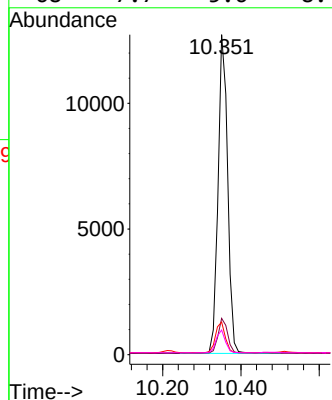
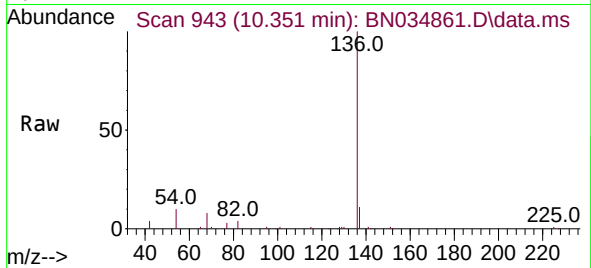




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 945
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

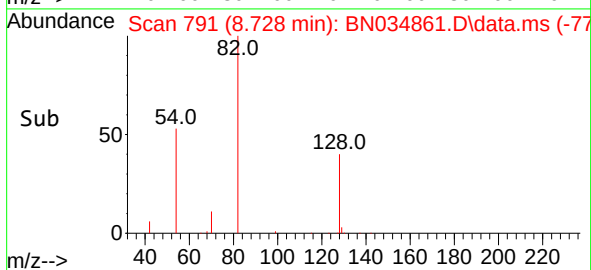
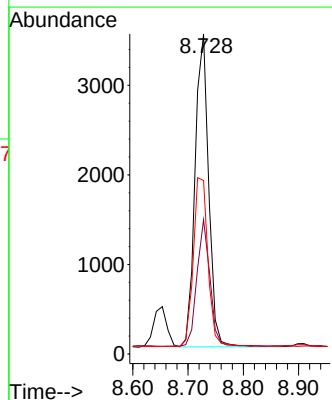
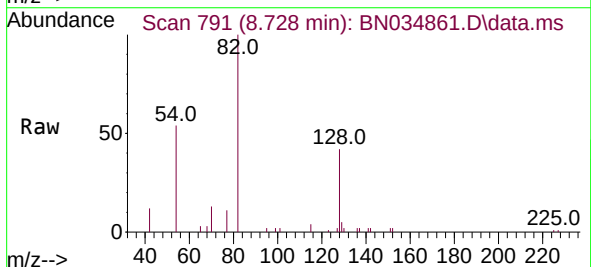
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

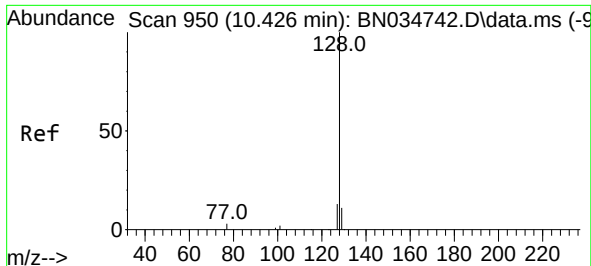
Tgt Ion:	136	Resp:	21431
Ion Ratio	Lower	Upper	
136	100		
137	11.3	9.2	13.8
54	10.2	7.0	10.4
68	7.7	5.6	8.4



#8
Nitrobenzene-d5
Concen: 0.355 ng
RT: 8.728 min Scan# 791
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

Tgt Ion:	82	Resp:	5987
Ion Ratio	Lower	Upper	
82	100		
128	41.9	33.7	50.5
54	54.2	44.4	66.6

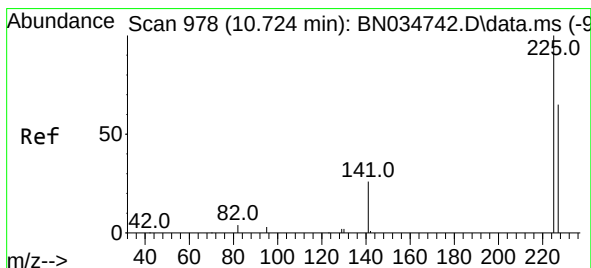
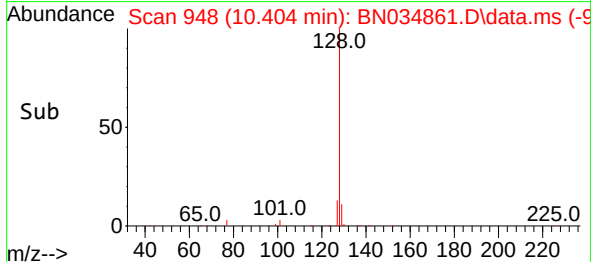
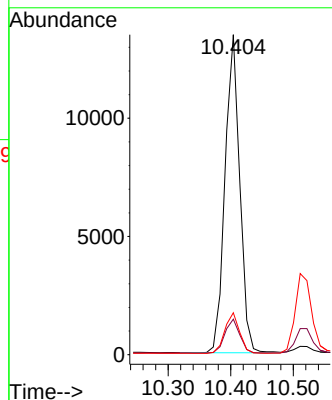
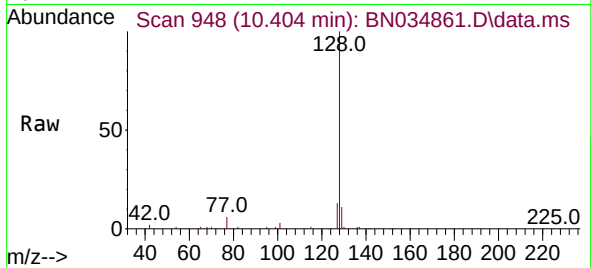




#9
Naphthalene
Concen: 0.371 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

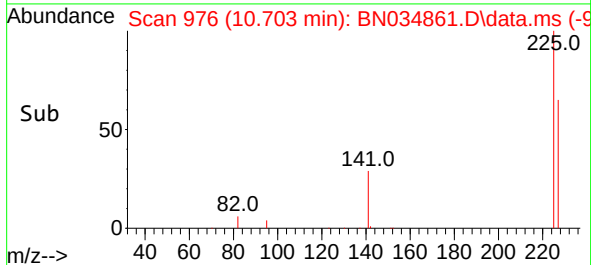
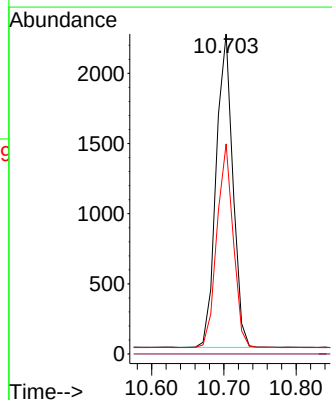
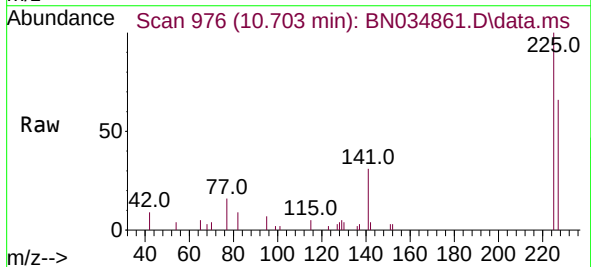
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

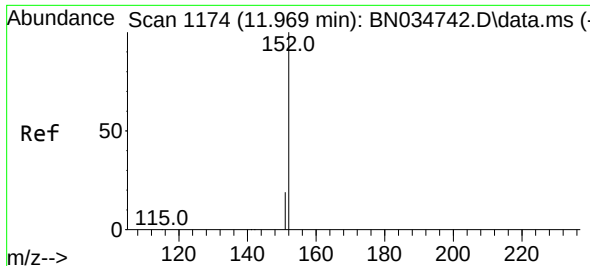
Tgt Ion:128 Resp: 22001
Ion Ratio Lower Upper
128 100
129 11.1 9.4 14.0
127 13.1 10.6 15.8



#10
Hexachlorobutadiene
Concen: 0.366 ng
RT: 10.703 min Scan# 976
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

Tgt Ion:225 Resp: 3576
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.5 51.4 77.2

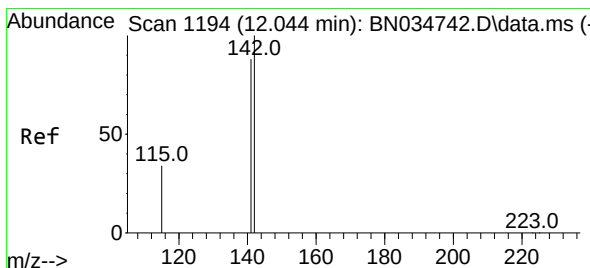
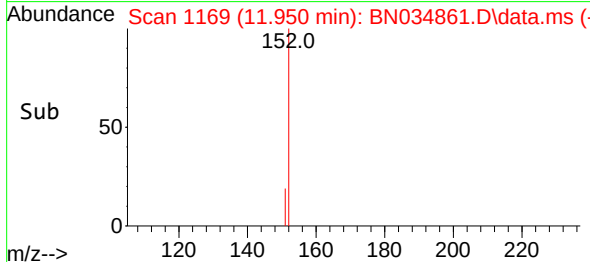
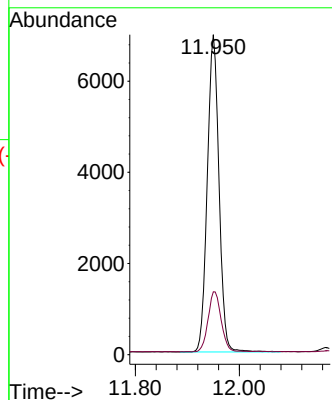
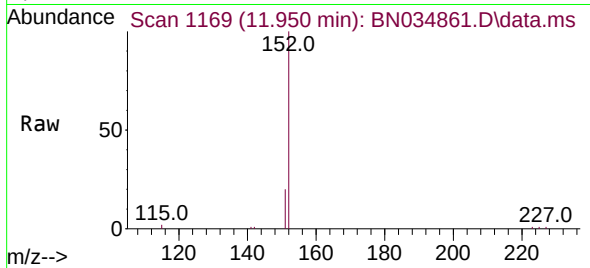




#11
2-Methylnaphthalene-d10
Concen: 0.350 ng
RT: 11.950 min Scan# 1174
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

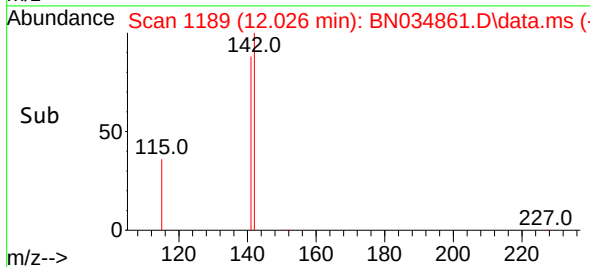
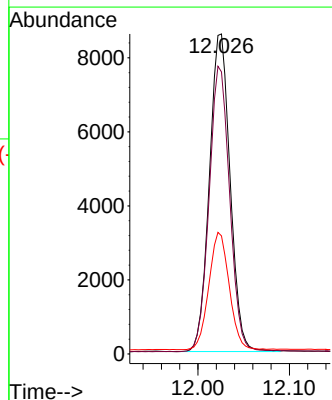
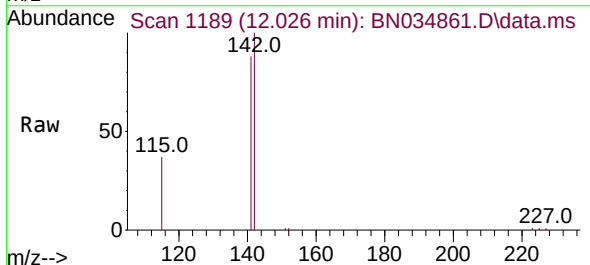
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

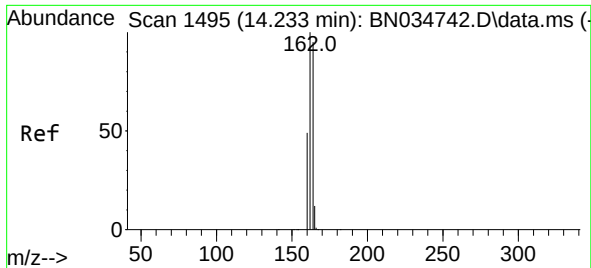
Tgt Ion:152 Resp: 10849
Ion Ratio Lower Upper
152 100
151 21.2 16.6 24.8



#12
2-Methylnaphthalene
Concen: 0.349 ng
RT: 12.026 min Scan# 1189
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

Tgt Ion:142 Resp: 13519
Ion Ratio Lower Upper
142 100
141 88.2 70.6 106.0
115 36.9 28.6 42.8

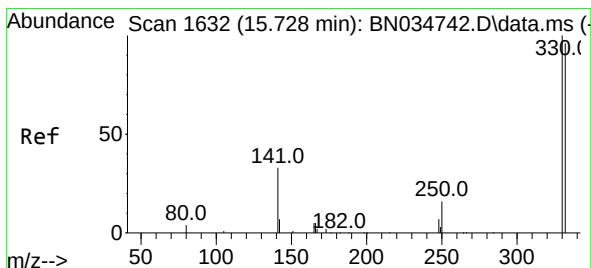
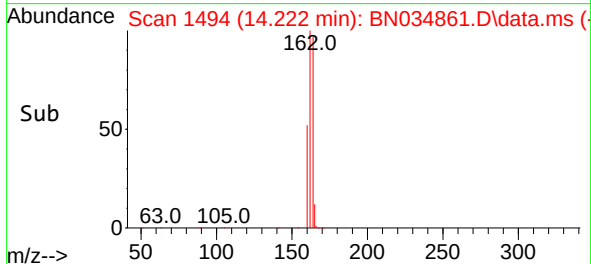
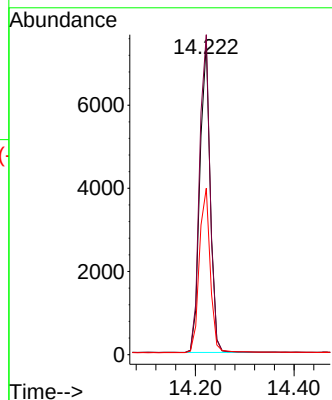
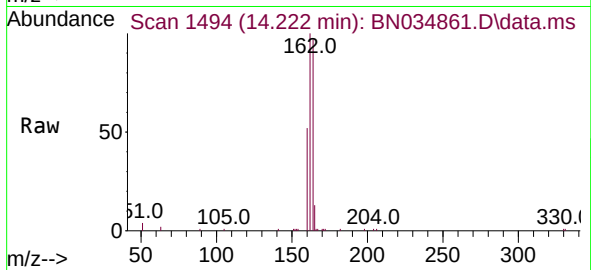




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.222 min Scan# 1494
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

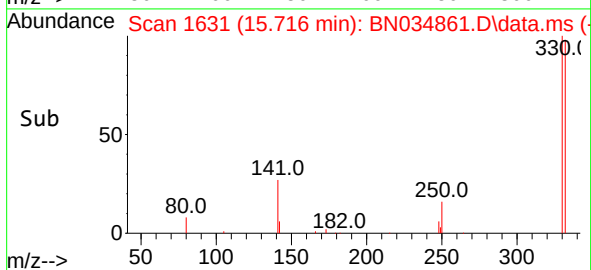
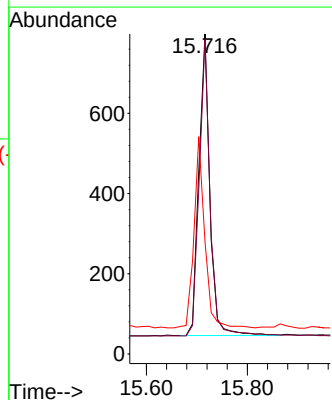
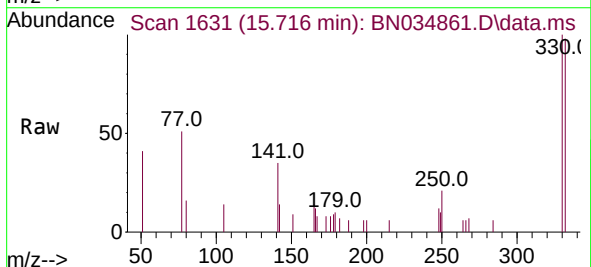
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

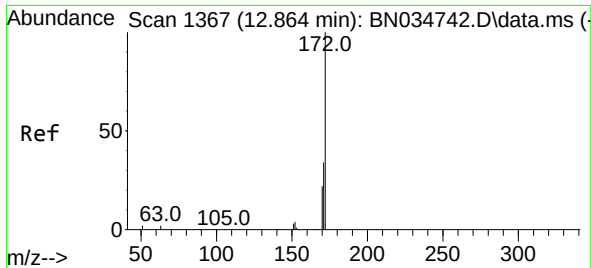
Tgt Ion:164 Resp: 10867
Ion Ratio Lower Upper
164 100
162 102.8 84.3 126.5
160 53.4 41.7 62.5



#14
2,4,6-Tribromophenol
Concen: 0.212 ng
RT: 15.716 min Scan# 1631
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

Tgt Ion:330 Resp: 1137
Ion Ratio Lower Upper
330 100
332 97.5 77.8 116.6
141 61.7 41.0 61.4#

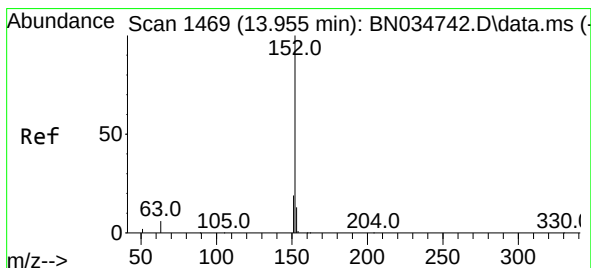
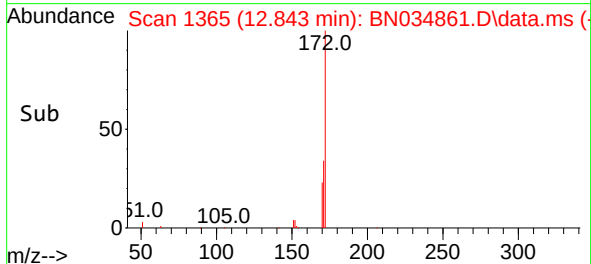
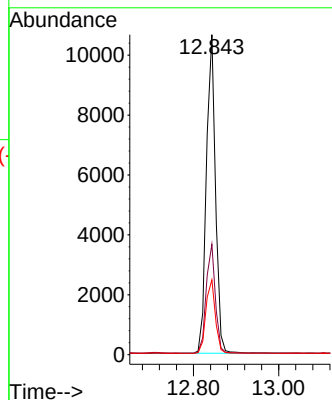
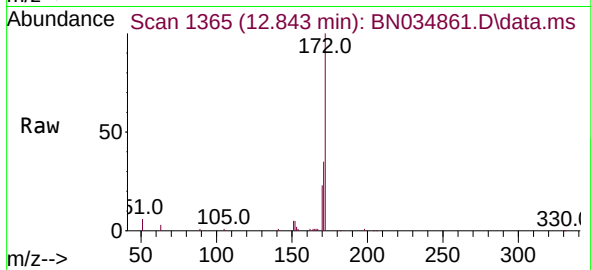




#15
2-Fluorobiphenyl
Concen: 0.368 ng
RT: 12.843 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

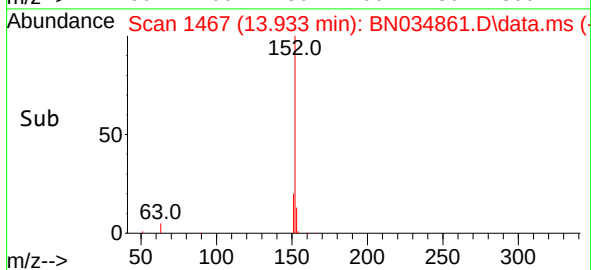
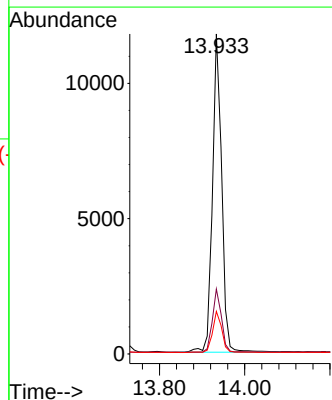
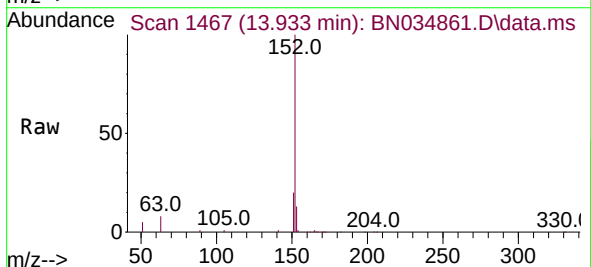
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

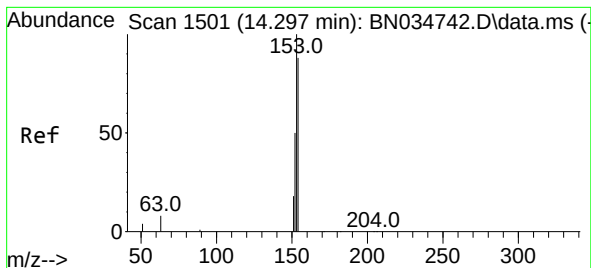
Tgt Ion:172 Resp: 15772
Ion Ratio Lower Upper
172 100
171 34.5 27.2 40.8
170 23.4 18.0 27.0



#16
Acenaphthylene
Concen: 0.325 ng
RT: 13.933 min Scan# 1467
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

Tgt Ion:152 Resp: 17717
Ion Ratio Lower Upper
152 100
151 19.4 15.4 23.2
153 13.0 10.2 15.4

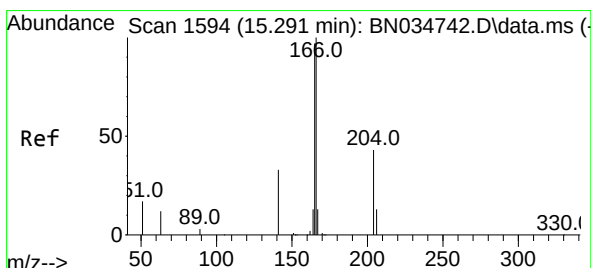
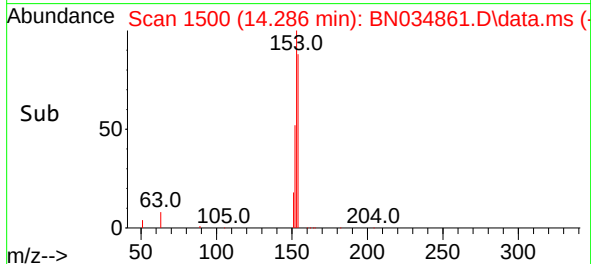
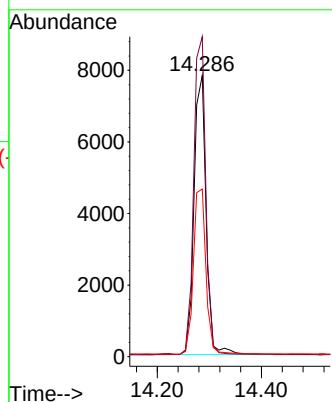
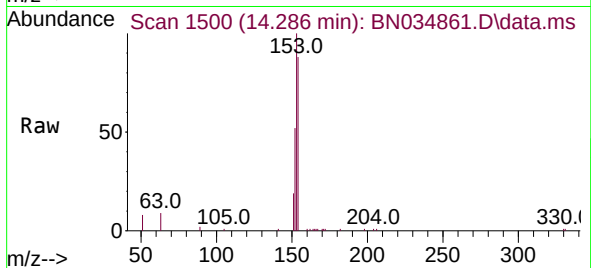




#17
Acenaphthene
Concen: 0.346 ng
RT: 14.286 min Scan# 1500
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

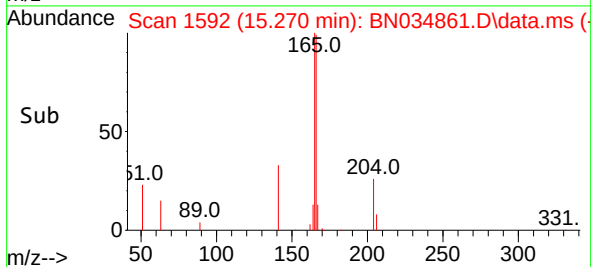
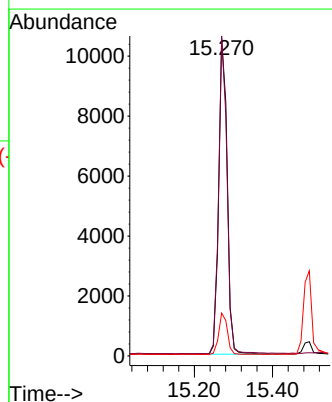
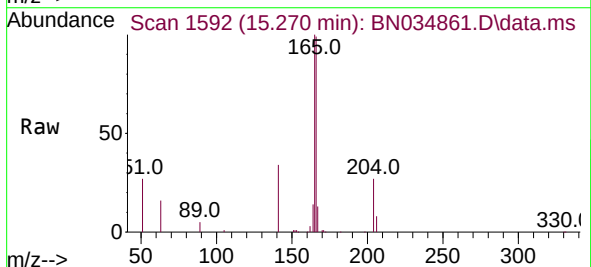
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

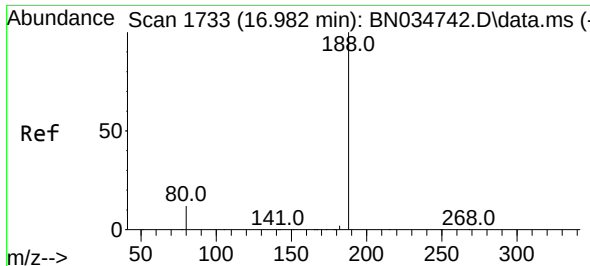
Tgt Ion:154 Resp: 12570
Ion Ratio Lower Upper
154 100
153 113.6 87.8 131.6
152 61.6 44.6 67.0



#18
Fluorene
Concen: 0.349 ng
RT: 15.270 min Scan# 1592
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

Tgt Ion:166 Resp: 15790
Ion Ratio Lower Upper
166 100
165 99.3 78.5 117.7
167 13.4 10.8 16.2

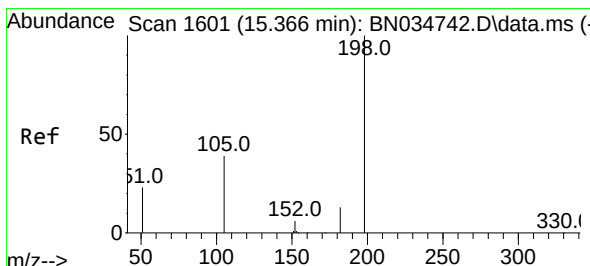
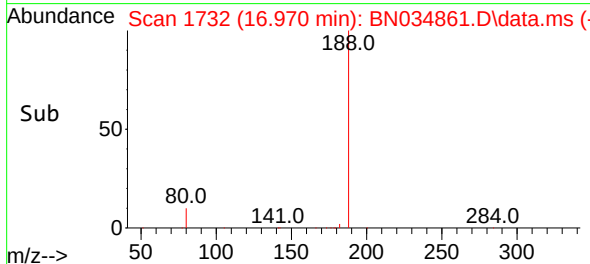
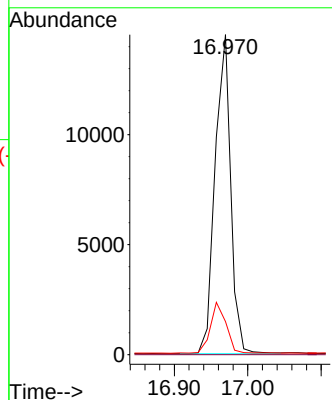
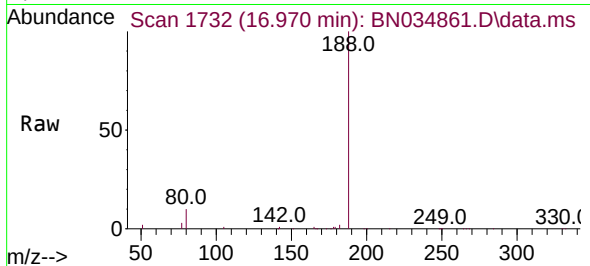




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.970 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

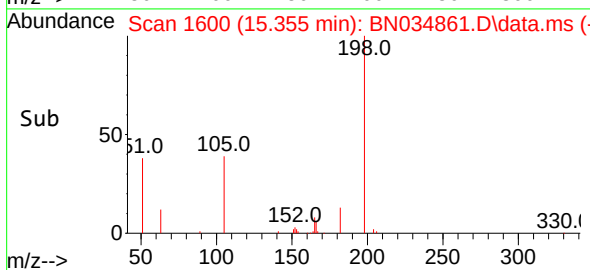
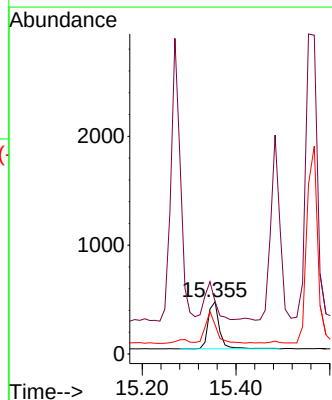
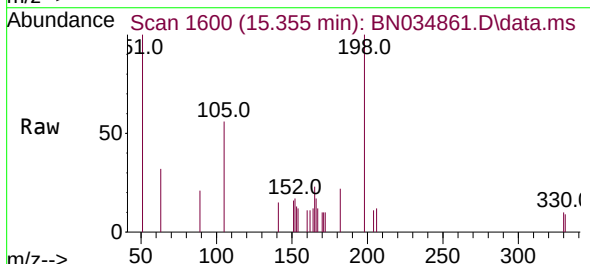
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

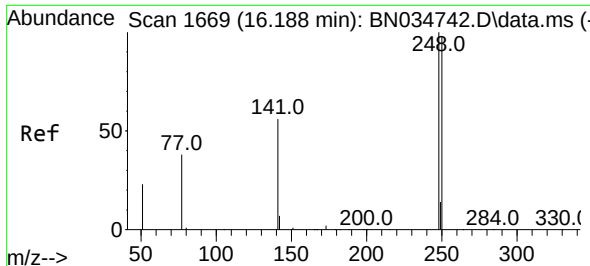
Tgt Ion:188 Resp: 21411
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 10.4 9.8 14.6



#20
4,6-Dinitro-2-methylphenol
Concen: 0.353 ng
RT: 15.355 min Scan# 1600
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

Tgt Ion:198 Resp: 711
Ion Ratio Lower Upper
198 100
51 100.4 58.0 87.0#
105 55.8 49.1 73.7

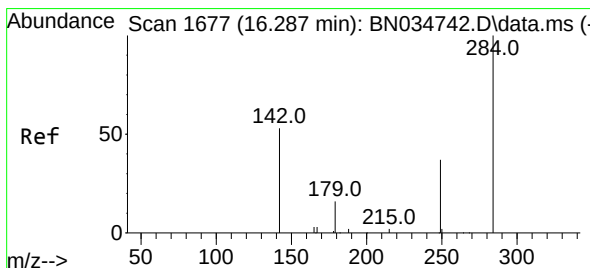
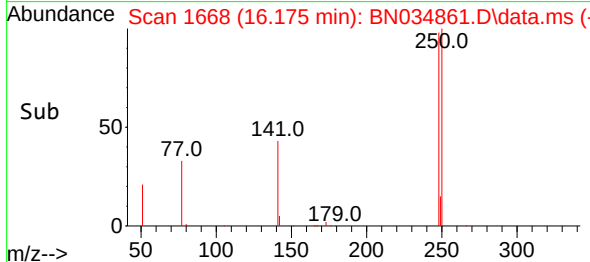
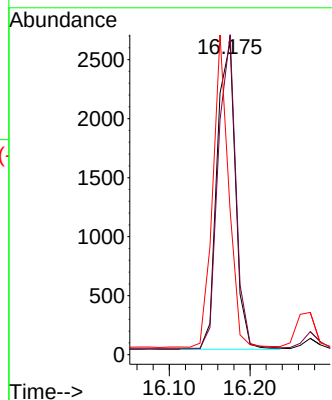
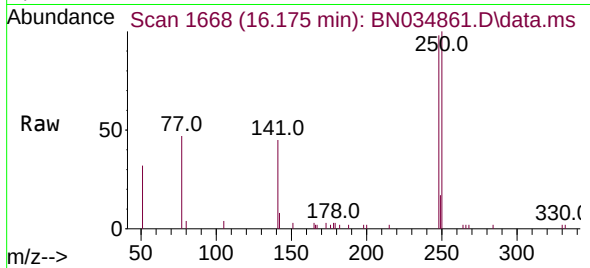




#21
4-Bromophenyl-phenylether
Concen: 0.332 ng
RT: 16.175 min Scan# 1668
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

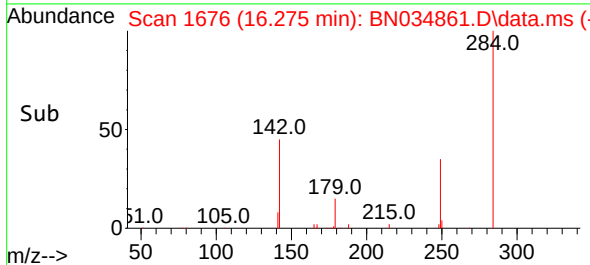
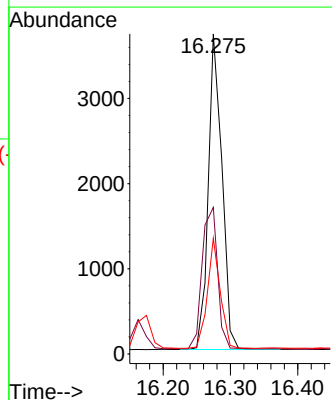
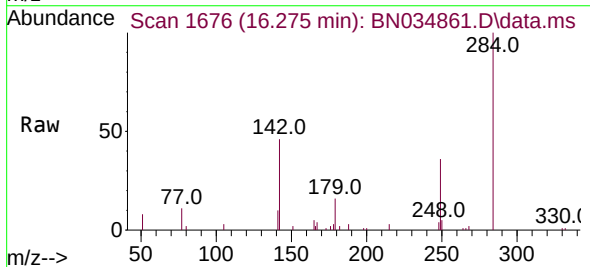
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

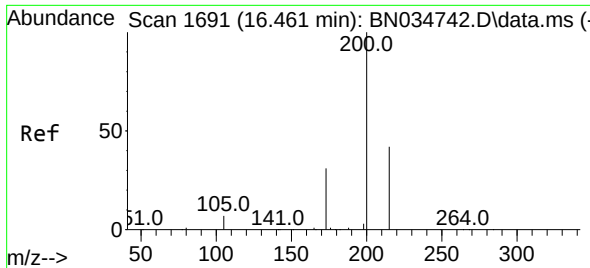
Tgt Ion:248 Resp: 4117
Ion Ratio Lower Upper
248 100
250 102.5 78.7 118.1
141 46.2 46.4 69.6#



#22
Hexachlorobenzene
Concen: 0.376 ng
RT: 16.275 min Scan# 1676
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

Tgt Ion:284 Resp: 5221
Ion Ratio Lower Upper
284 100
142 51.0 35.4 53.0
249 32.9 25.7 38.5

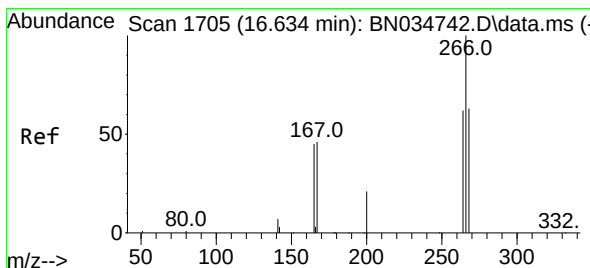
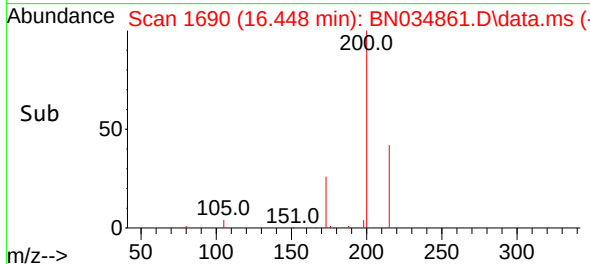
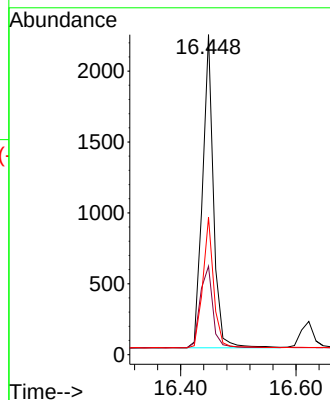
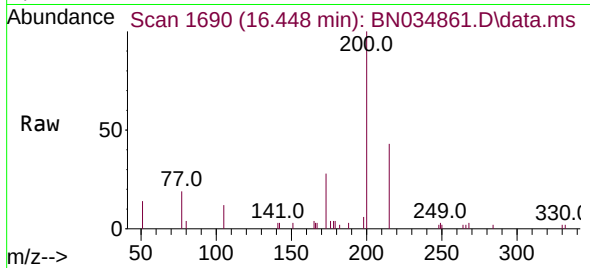




#23
Atrazine
Concen: 0.275 ng
RT: 16.448 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

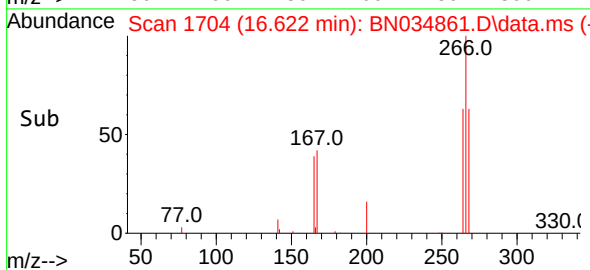
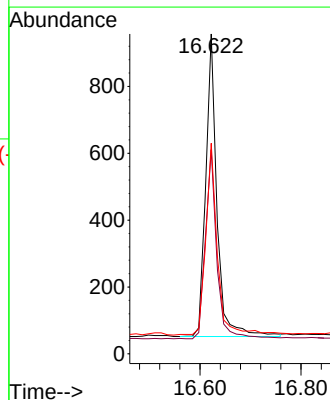
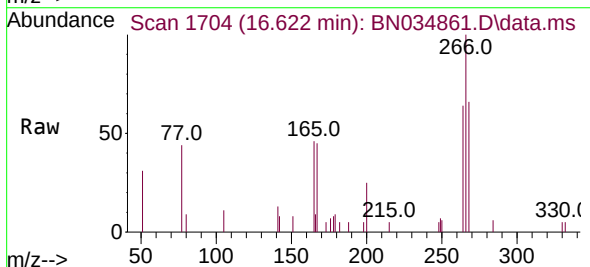
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

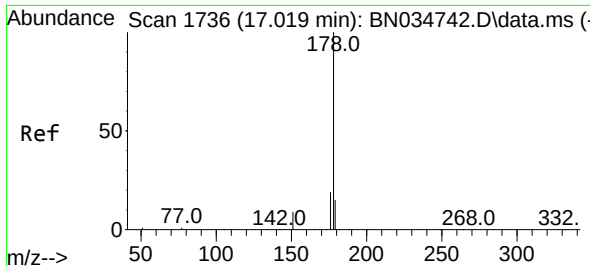
Tgt Ion:200 Resp: 2930
Ion Ratio Lower Upper
200 100
173 27.6 25.8 38.6
215 42.9 34.2 51.4



#24
Pentachlorophenol
Concen: 0.234 ng
RT: 16.622 min Scan# 1704
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

Tgt Ion:266 Resp: 1399
Ion Ratio Lower Upper
266 100
264 63.8 48.7 73.1
268 66.2 50.2 75.4

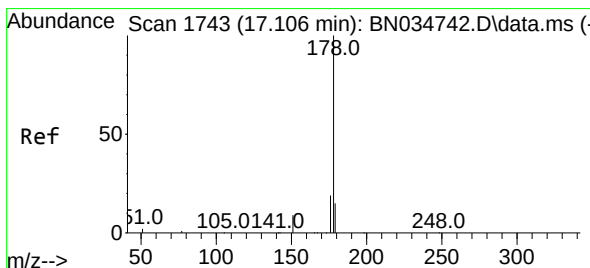
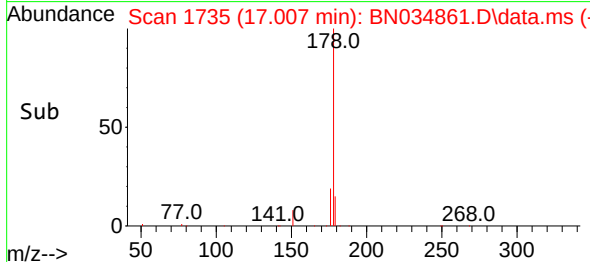
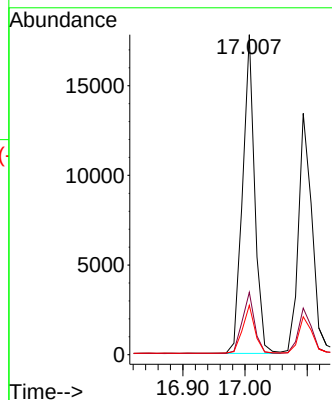
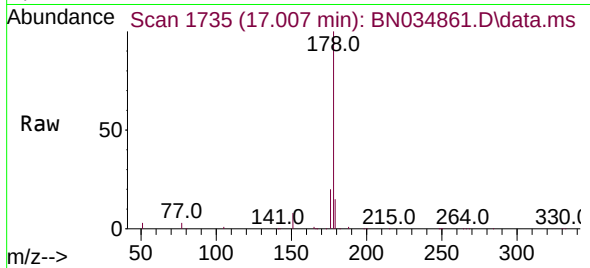




#25
Phenanthrene
Concen: 0.384 ng
RT: 17.007 min Scan# 1742
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

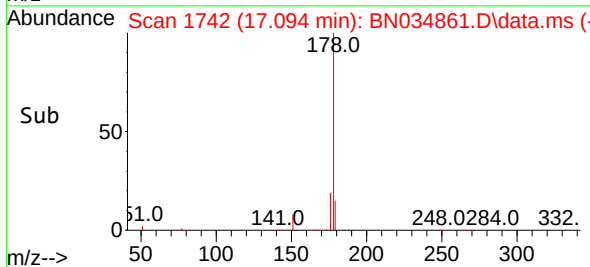
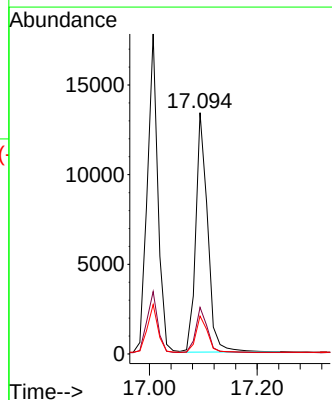
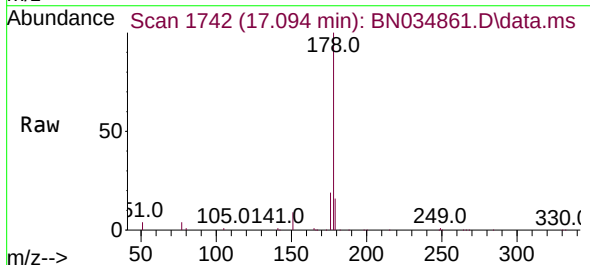
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

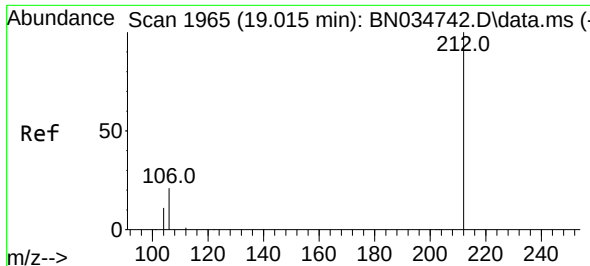
Tgt Ion:178 Resp: 24192
Ion Ratio Lower Upper
178 100
176 19.5 15.4 23.0
179 15.2 12.2 18.4



#26
Anthracene
Concen: 0.347 ng
RT: 17.094 min Scan# 1742
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

Tgt Ion:178 Resp: 20428
Ion Ratio Lower Upper
178 100
176 19.0 15.0 22.6
179 15.2 12.2 18.2





#27

Fluoranthene-d10

Concen: 0.346 ng

RT: 19.001 min Scan# 1969

Delta R.T. -0.000 min

Lab File: BN034861.D

Acq: 05 Nov 2024 04:09

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

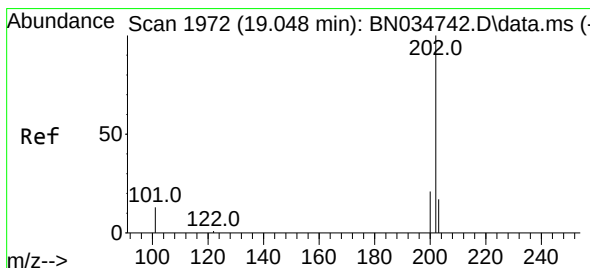
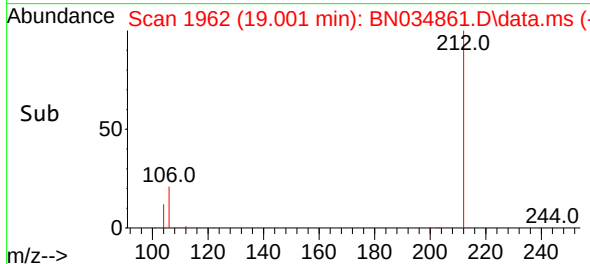
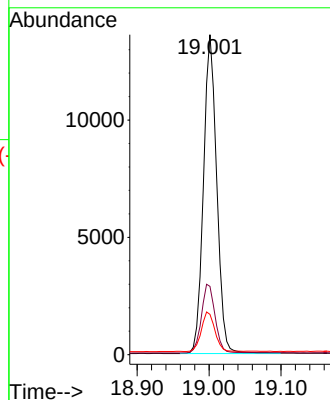
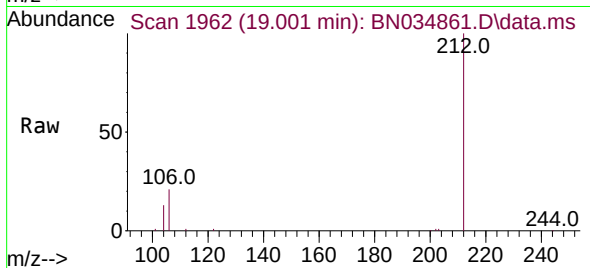
Tgt Ion:212 Resp: 17385

Ion Ratio Lower Upper

212 100

106 22.3 16.1 24.1

104 12.6 9.2 13.8



#28

Fluoranthene

Concen: 0.364 ng

RT: 19.034 min Scan# 1969

Delta R.T. -0.000 min

Lab File: BN034861.D

Acq: 05 Nov 2024 04:09

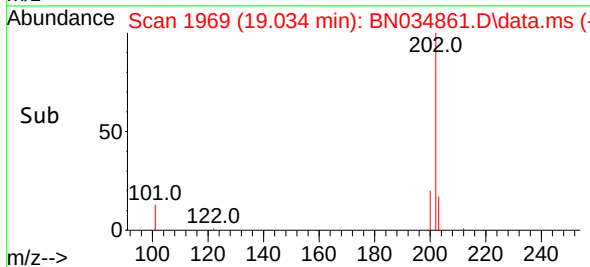
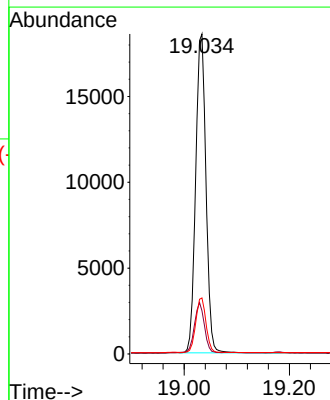
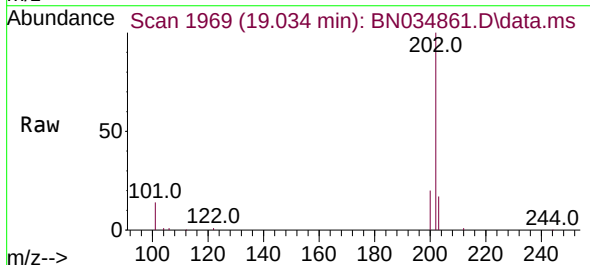
Tgt Ion:202 Resp: 25234

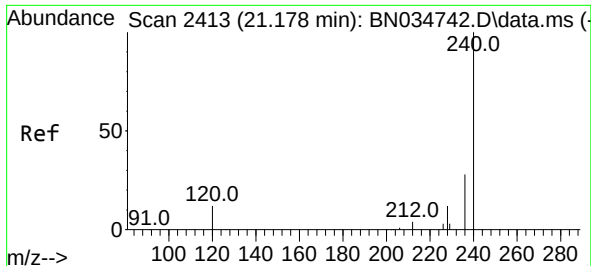
Ion Ratio Lower Upper

202 100

101 15.4 11.4 17.0

203 17.1 13.7 20.5

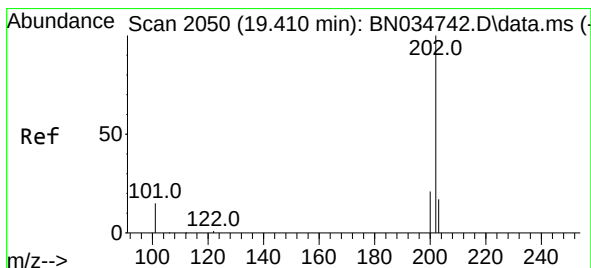
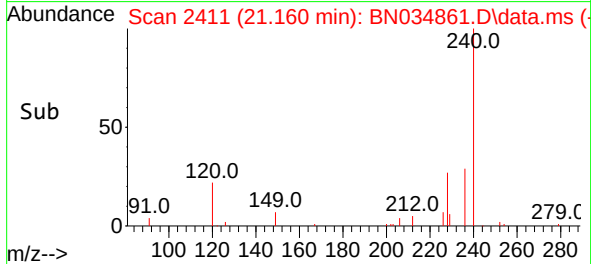
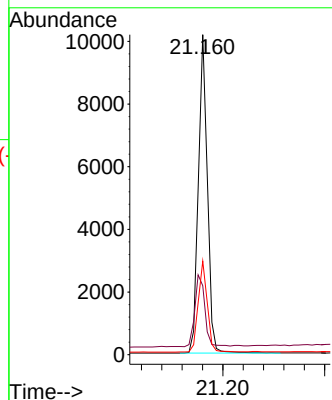
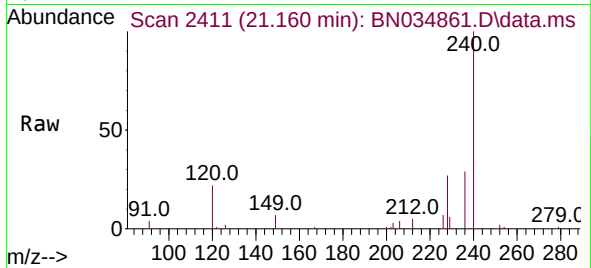




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.160 min Scan# 2411
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

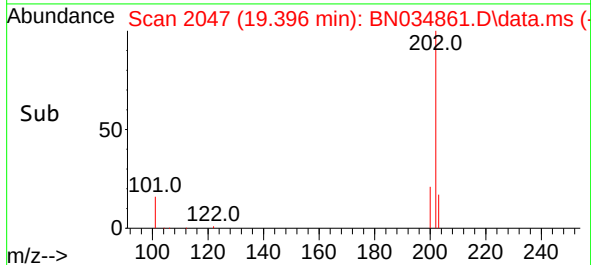
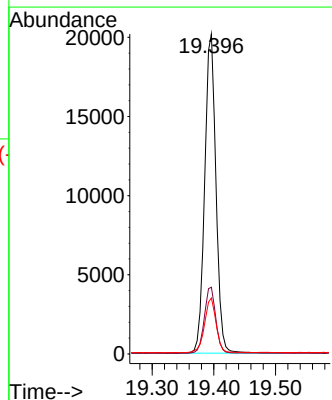
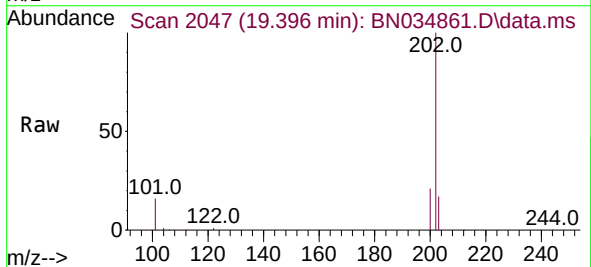
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

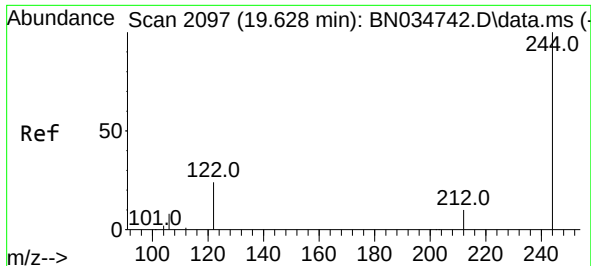
Tgt Ion:240 Resp: 12483
Ion Ratio Lower Upper
240 100
120 21.5 11.5 17.3#
236 29.2 23.2 34.8



#30
Pyrene
Concen: 0.390 ng
RT: 19.396 min Scan# 2047
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

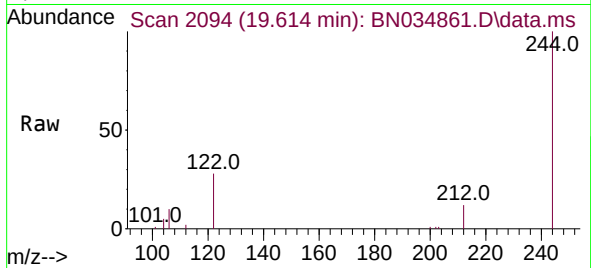
Tgt Ion:202 Resp: 25452
Ion Ratio Lower Upper
202 100
200 21.0 17.0 25.4
203 17.6 14.2 21.2



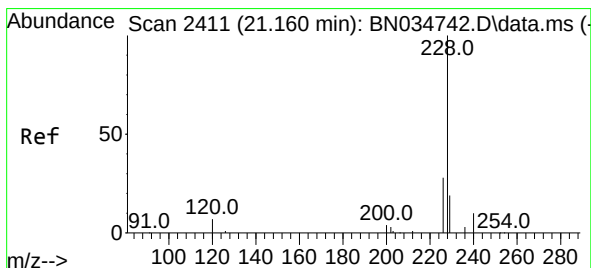
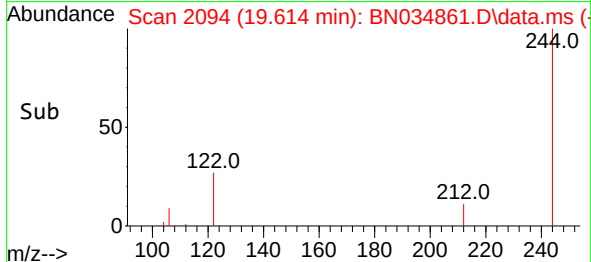
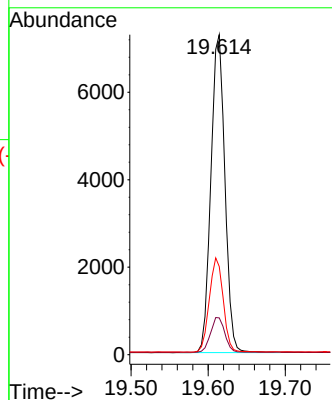


#31
 Terphenyl-d14
 Concen: 0.342 ng
 RT: 19.614 min Scan# 2094
 Delta R.T. -0.000 min
 Lab File: BN034861.D
 Acq: 05 Nov 2024 04:09

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

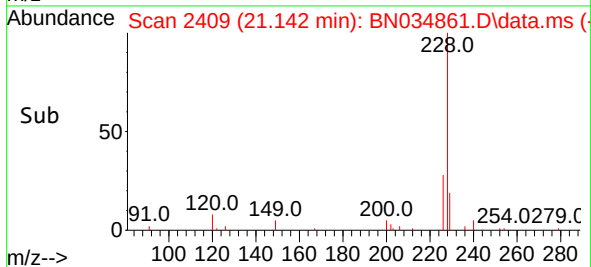
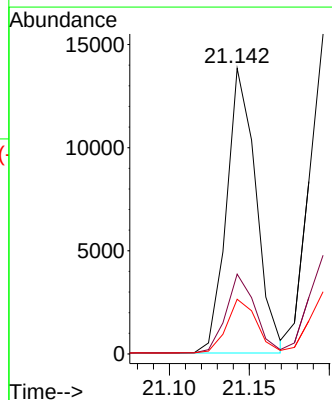
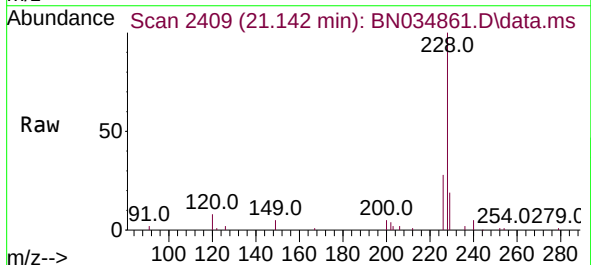


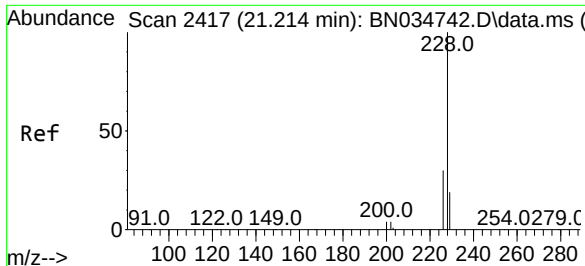
Tgt Ion:244 Resp: 9173
 Ion Ratio Lower Upper
 244 100
 212 11.5 8.2 12.4
 122 27.6 19.8 29.6



#32
 Benzo(a)anthracene
 Concen: 0.355 ng
 RT: 21.142 min Scan# 2409
 Delta R.T. -0.000 min
 Lab File: BN034861.D
 Acq: 05 Nov 2024 04:09

Tgt Ion:228 Resp: 17648
 Ion Ratio Lower Upper
 228 100
 226 28.0 22.6 33.8
 229 19.1 15.7 23.5

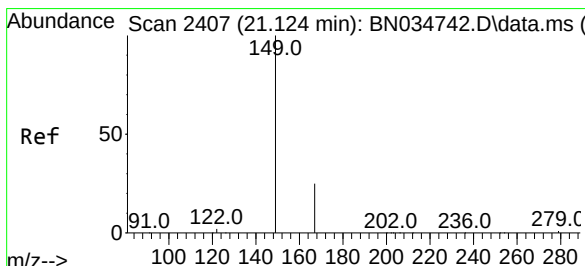
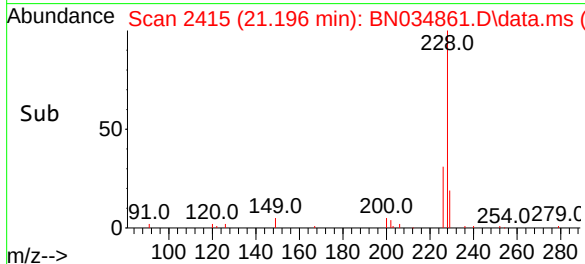
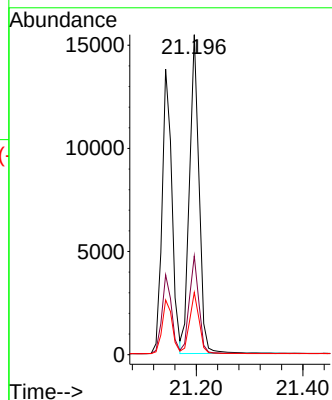
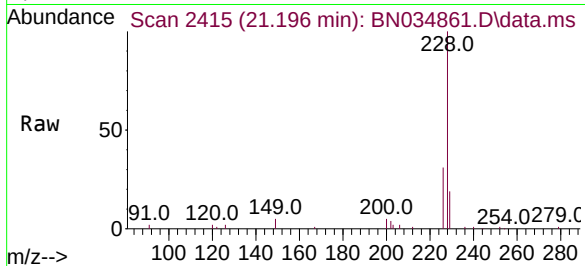




#33
Chrysene
Concen: 0.396 ng
RT: 21.196 min Scan# 2415
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

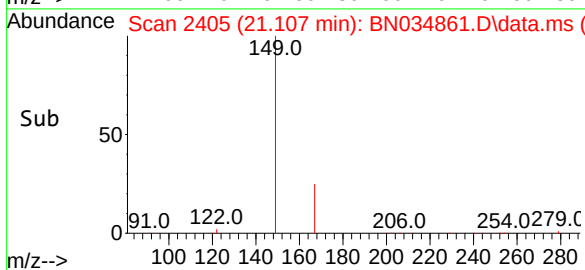
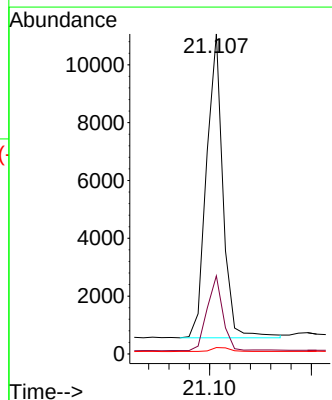
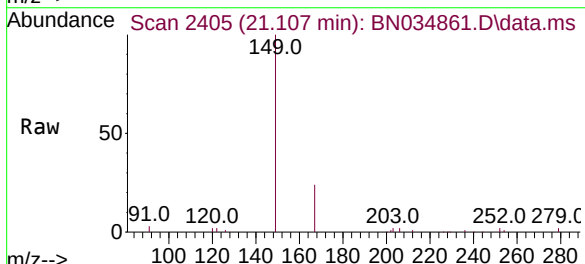
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

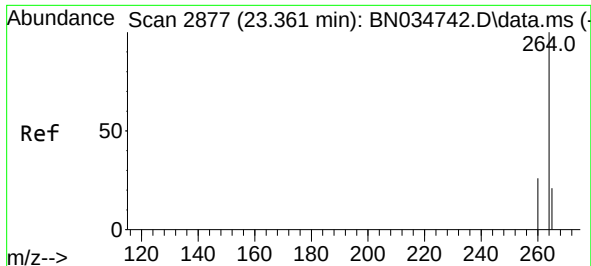
Tgt Ion:228	Resp:	19265
Ion Ratio	Lower	Upper
228	100	
226	30.9	24.4 36.6
229	19.5	15.6 23.4



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.282 ng
RT: 21.107 min Scan# 2405
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

Tgt Ion:149	Resp:	11721
Ion Ratio	Lower	Upper
149	100	
167	23.6	20.6 30.8
279	1.5	1.5 2.3

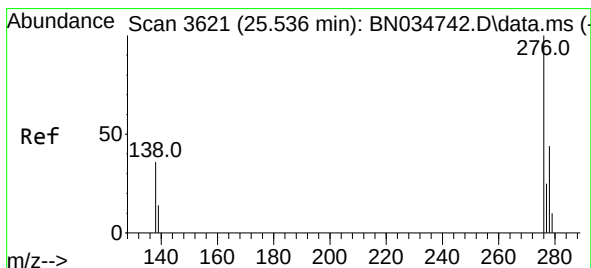
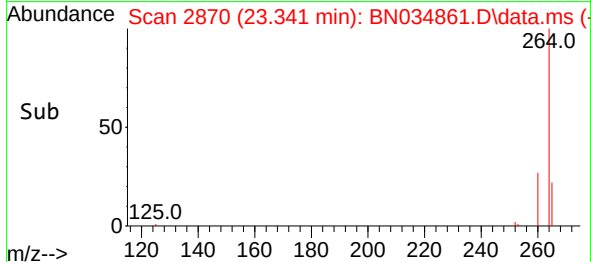
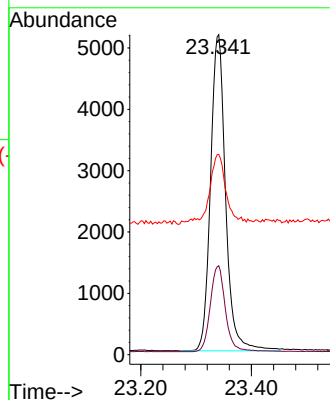
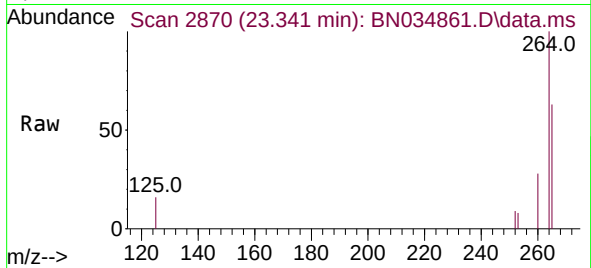




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.341 min Scan# 21
Delta R.T. 0.006 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

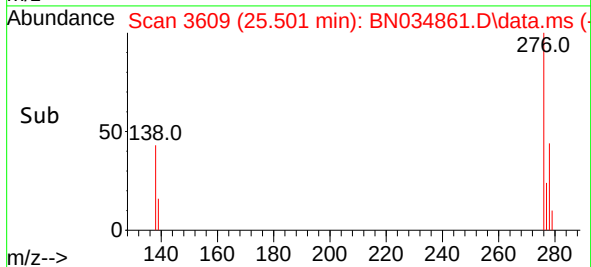
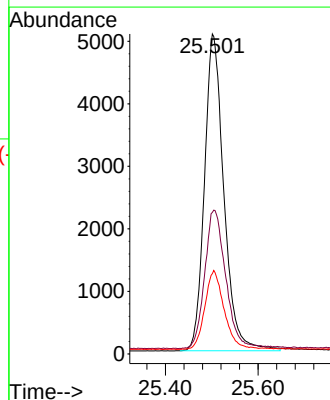
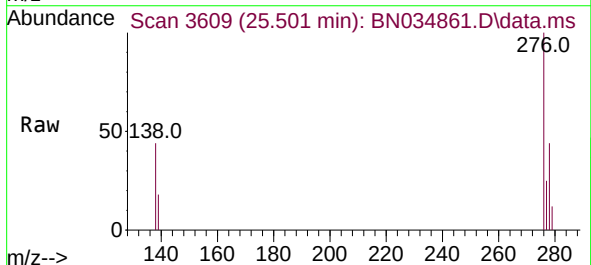
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

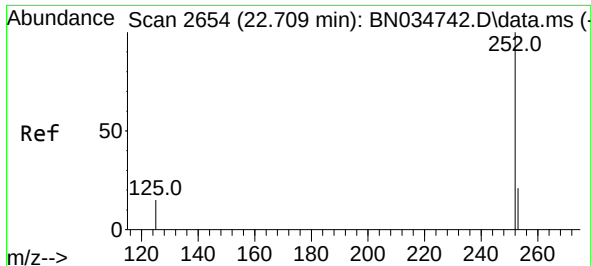
Tgt Ion:	264	Resp:	9733
Ion Ratio	Lower	Upper	
264	100		
260	27.8	21.5	32.3
265	62.6	47.5	71.3



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.412 ng
RT: 25.501 min Scan# 3609
Delta R.T. -0.003 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

Tgt Ion:	276	Resp:	14740
Ion Ratio	Lower	Upper	
276	100		
138	47.2	31.5	47.3
277	24.6	19.7	29.5

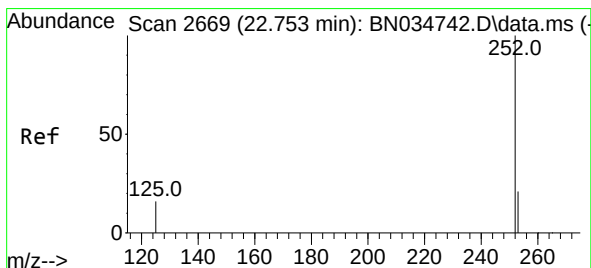
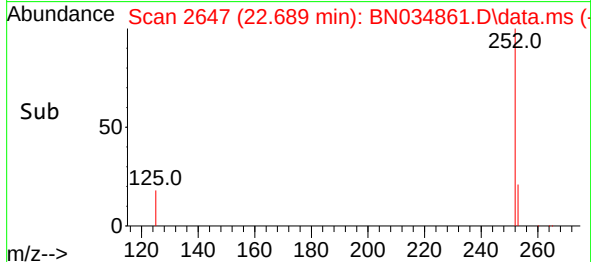
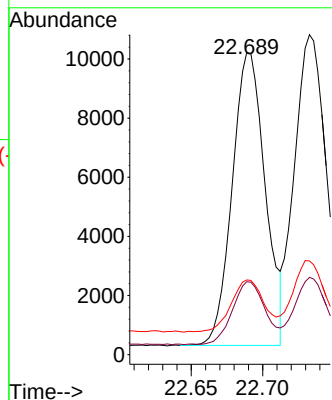
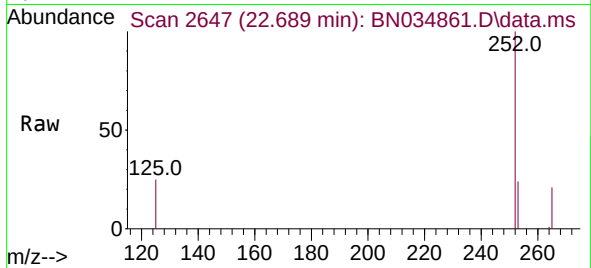




#37
Benzo(b)fluoranthene
Concen: 0.406 ng
RT: 22.689 min Scan# 2647
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

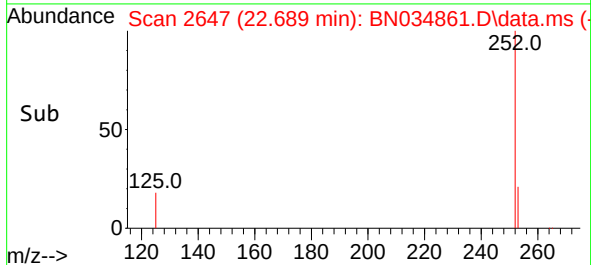
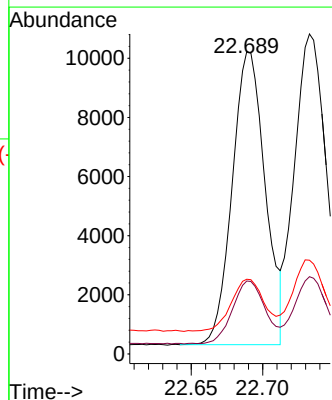
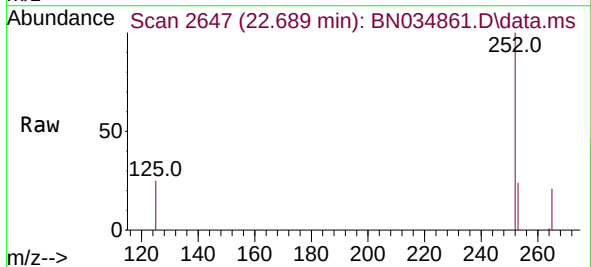
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

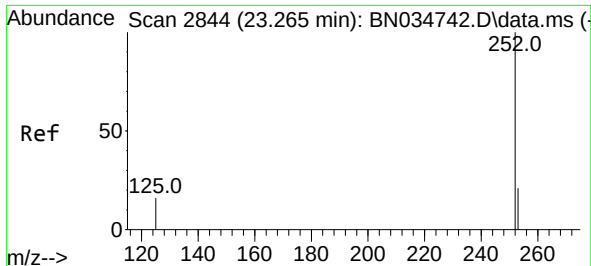
Tgt Ion:252 Resp: 15905
Ion Ratio Lower Upper
252 100
253 24.1 19.7 29.5
125 24.7 17.1 25.7



#38
Benzo(k)fluoranthene
Concen: 0.416 ng
RT: 22.689 min Scan# 2647
Delta R.T. -0.041 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

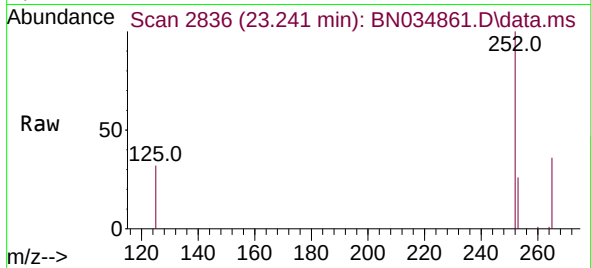
Tgt Ion:252 Resp: 15905
Ion Ratio Lower Upper
252 100
253 24.1 19.8 29.6
125 24.7 18.2 27.2



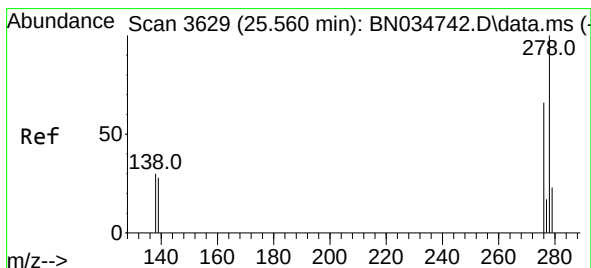
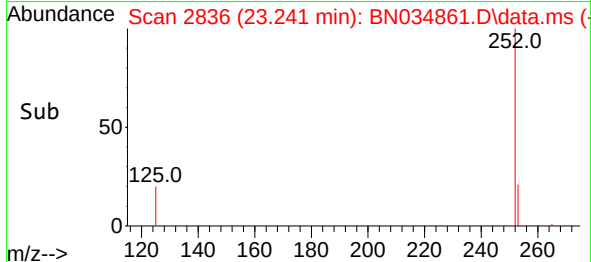
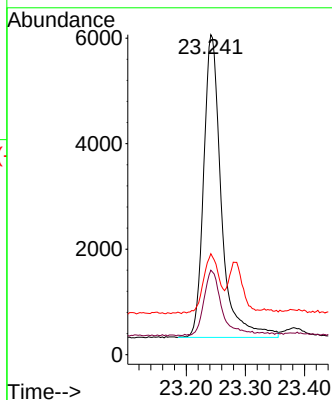


#39
Benzo(a)pyrene
Concen: 0.369 ng
RT: 23.241 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

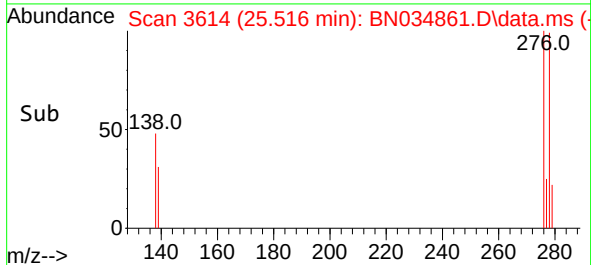
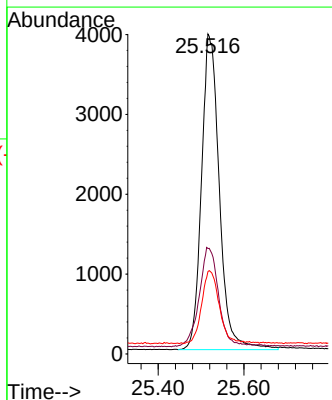
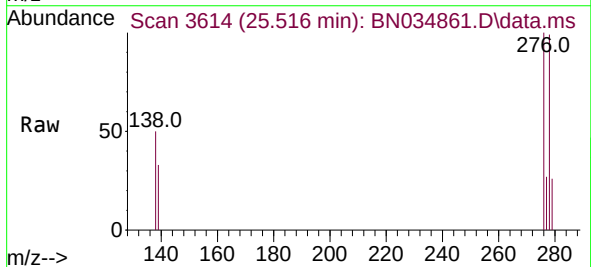


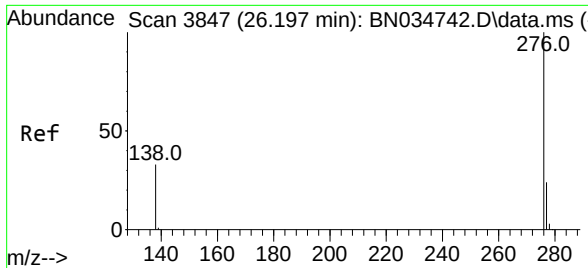
Tgt Ion:252 Resp: 11941
Ion Ratio Lower Upper
252 100
253 26.4 20.7 31.1
125 31.6 20.3 30.5#



#40
Dibenzo(a,h)anthracene
Concen: 0.409 ng
RT: 25.516 min Scan# 3614
Delta R.T. -0.009 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

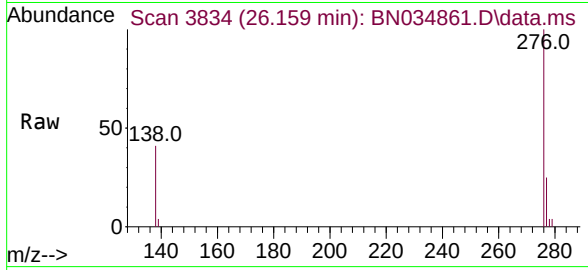
Tgt Ion:278 Resp: 11413
Ion Ratio Lower Upper
278 100
139 33.0 24.9 37.3
279 25.8 21.0 31.4





#41
 Benzo(g,h,i)perylene
 Concen: 0.401 ng
 RT: 26.159 min Scan# 3847
 Delta R.T. -0.006 min
 Lab File: BN034861.D
 Acq: 05 Nov 2024 04:09

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC



Tgt Ion:	276	Resp:	12092
Ion Ratio	Lower	Upper	
276	100		
277	25.1	20.2	30.2
138	41.0	28.7	43.1

